



Hewlett Packard
Enterprise

HPE FlexFabric 5710 Switch Series

MIB Companion

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MIB overview

This document provides information about the management information bases (MIBs) available for the device, including public and private MIBs.

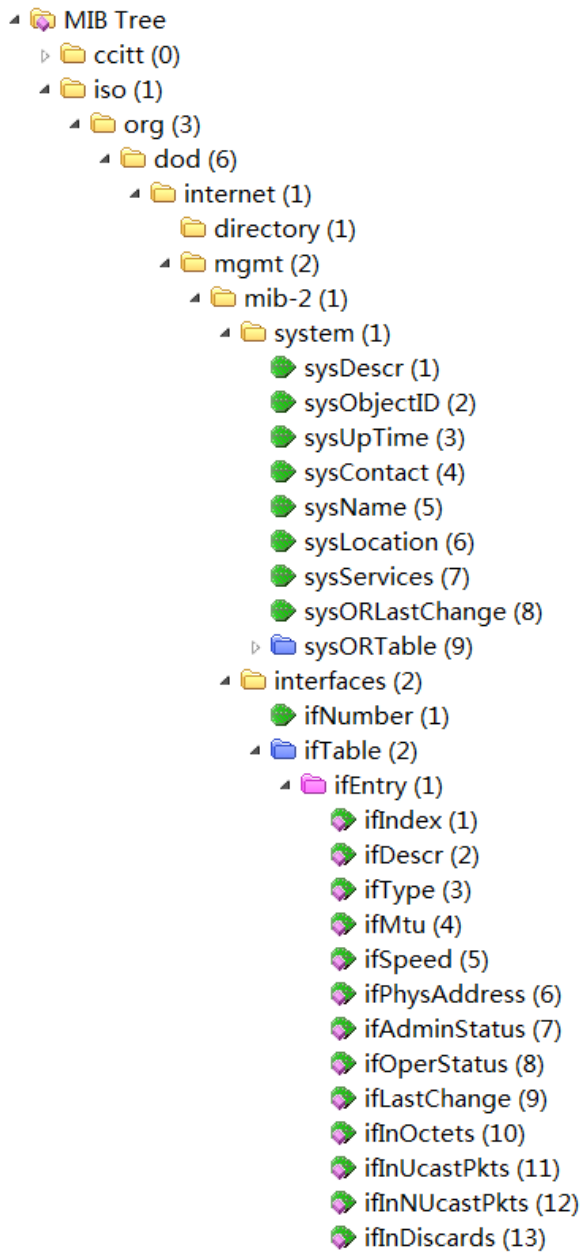
About MIBs

MIB modules and MIB files

A MIB is a collection of information organized hierarchically in a tree structure. Each node in a MIB is a managed object uniquely identified by an object identifier (OID). An OID is a dotted numeric string that uniquely identifies the path from the root node to a leaf node.

Collections of related objects are defined in MIB modules. Typically, each MIB module has a MIB file. You can run a MIB compiler to compile the MIB files of the managed device into a visualized MIB tree for the ease of management, as shown in Figure 1.

Figure 1 MIB tree after compilation



Types of MIB objects

MIB objects are classified into scalar objects, tabular objects, and notification objects. The SNMP manager can access only the instances of MIB objects.

Scalar objects

Scalar objects are single-instance objects. An example of a scalar object is `sysUpTime`, which contains only one object instance to store the time since the network management portion of the system was last initialized. The instance of a scalar object is identified by an index value of 0. When the SNMP manager accesses the instance of a scalar object, the SNMP manager must add a suffix of `.0` to the object identifier or object name, as shown below:

```
Protocol version:SNMPv2c
Operation:Get
Request binding:# Request sent by the SNMP manager
1:sysUpTime.0 (TimeTicks) null
```

```
Response binding:# Response sent by the SNMP agent (the device)
1:sysUpTime.0 (TimeTicks) 29 days 15h:25m:15s.64th (256111564)
```

Tabular objects

Tabular objects define multiple related objects in conceptual tables. You can think of a tabular object as a table in which objects are columns and their instances are rows. The objects in a table are also called columnar objects. An example of a tabular object is ifDescr, which contains multiple instances to store the descriptions of different interfaces. When the SNMP manager accesses an instance of this object, the SNMP manager must add its index value, as shown below:

```
Protocol version:SNMPv2c
Operation:Get
Request binding:# Request sent by the SNMP manager
1:ifDescr.17 (DisplayString) null
```

```
Response binding:# Response sent by the SNMP agent (the device)
1:ifDescr.17 (DisplayString) Aux0 [41.75.78.30 (hex)]
```

To access an object instance correctly, you must add its index values correctly.

Notification objects

A notification object describes an unsolicited transmission of information about an event, for example, a failure or recovery event.

For example, the following linkUp and linkDown objects describe notifications about interface up and interface down events, respectively.

```
🔗 linkUp
  Message reception date: 2020/5/29
  Message reception time: 11:01:14.435
  🕒 Time stamp: 0 days 09h:57m:21s.77th (3584177)
  🔗 Message type: Notification (Trap)
    Protocol version: SNMPv2c
    Transport: IP/UDP
  🖥️ Agent
    Address: 192.168.18.19
    Port: 25280
  🖥️ Manager
    Address: 10.112.112.122
    Port: 162
  📁 Community: v2trap
  📁 Bindings (5)
    🟢 Binding #1: sysUpTime.0 *** (TimeTicks) 0 days 09h:57m:21s.77th (3584177)
    🟢 Binding #2: snmpTrapOID.0 *** (OBJECT IDENTIFIER) linkUp
    🟢 Binding #3: ifIndex.61697 *** (InterfaceIndex) 61697 [61697]
    🟢 Binding #4: ifAdminStatus.61697 *** (INTEGER) up(1)
    🟢 Binding #5: ifOperStatus.61697 *** (INTEGER) up(1)
```

🔗 linkDown
Message reception date: 2020/5/29
Message reception time: 11:01:14.432
🕒 Time stamp: 0 days 09h:57m:16s.82th (3583682)
🔗 Message type: Notification (Trap)
Protocol version: SNMPv2c
Transport: IP/UDP
🖥 Agent
🖥 Manager
🔑 Community: v2trap
📁 Bindings (5)
🟢 Binding #1: sysUpTime.0 *** (TimeTicks) 0 days 09h:57m:16s.82th (3583682)
🟢 Binding #2: snmpTrapOID.0 *** (OBJECT IDENTIFIER) linkDown
🟢 Binding #3: ifIndex.61697 *** (InterfaceIndex) 61697 [61697]
🟢 Binding #4: ifAdminStatus.61697 *** (INTEGER) down(2)
🟢 Binding #5: ifOperStatus.61697 *** (INTEGER) down(2)

MIB support status

A MIB module, tabular object, or scalar object is commented as "Not supported" if it is not supported by the device. To avoid unknown issues, do not access such a MIB, table, or scalar object even if it is accessible.

If a MIB is not supported, its notifications are not supported as well.

For backward compatibility and interoperability with third-party vendors, the software release might contain deprecated or obsolete MIB modules or objects. This document lists these MIB modules and objects but does not provide detailed information about them.

Obtaining SNMP notifications

To have the device send SNMP notifications to an NMS:

- Configure the device with the same SNMP version as the NMS.
- Configure a community string or SNMP user depending on the SNMP version:
 - If SNMPv1 or SNMPv2c is used, use the **snmp-agent community** command to configure a community string.
 - If SNMPv3 is used, use the **snmp-agent group** command to configure an SNMP user group, and use the **snmp-agent usm-user** command to configure an SNMPv3 user in the group.
- Enable SNMP notifications. You can use the **snmp-agent trap enable** command to enable SNMP notifications for all feature modules except the following modules:
 - Modules that do not use this command for notification control. For example, NQA uses the **reaction trap** command to control notifications.
 - Modules that use this command only for global notification control. For example, to send link state notifications for a port, you must configure the **enable snmp trap updown** command in addition to the **snmp-agent trap enable** command.

To identify the notification control commands for these two types of modules, look up the **trap** keyword in the module-specific command references.

- Use the **snmp-agent target-host** command to configure settings for reaching the NMS, including the IP address of the NMS and the authentication settings.

For more information about SNMP settings, see the network management and monitoring configuration guide for the device.

Types and severity levels of notifications

The notifications are divided into the following types:

- **Error notifications**—Created when hardware or software exceptions occur.
- **Recovery notifications**—Created when the hardware or software recovers from an error condition.
- **Informational notifications**—Created when an event occurs that typically does not require any administrative intervention.

Typically, error and recovery notifications report pairs of related events, and informational notifications report independent events. For example, a linkDown error notification is generated when a physical link is disconnected. When the physical link comes up, a linkUp recovery notification is generated. When the device is rebooted from the CLI, a coldStart informational notification is generated.

To help administrators determine whether a message requires immediate action, this document classifies notifications into the severity levels in [Table 1](#).

NOTE:

The notification type and severity level information in this document is provided only as a reference for network administrators. SNMP notifications do not contain this information.

Table 1 Notification severity levels

Severity	Description
Critical	Asset at risk. Immediate action required. For example, a temperature control issue is critical.
Major	Significant impact or risk. Immediate action required.
Minor	Minor impact or risk. Action required with medium to low priority.
Warning	Needs to be reviewed to determine whether action is necessary.

NOTE:

The severity level of a recovery notification is typically set to Warning or the same level as its paired error notification.

The severity level of an informational notification is typically set to Warning and it might be set to a higher severity level if administrative action is desirable.

In this document, a hyphen (-) or N/A might be used to represent the Warning severity level for a recovery or informational notification.

Guidelines on MIB-based configuration and management

IMPORTANT:

- ❗ To avoid unknown issues, do not access a MIB, table, or scalar object commented as "Not supported" even if it is accessible.
-

You can configure the device by setting its supported MIB objects. To make sure the values set in MIB objects can be restored correctly from the CLI, use the following restrictions and guidelines:

- As a best practice, use visible characters from 0x21 to 0x7E, except for 0x3F, which represents the question mark (?). If you need to use a special character, make sure the CLI supports that character. For example, the CLI uses the space for delimitation and uses the question mark for help indication. If a value contains a space or question mark, the CLI might be unable to restore that value.
- Make sure the value set in the MIB object is in the value range supported in the CLI. In rare situations, an MIB object might support a different value range than the CLI. For example, an OCTET STRING type MIB object might support longer strings than the maximum length allowed in the CLI. If the value set in the MIB object exceeds the maximum length allowed in the CLI, the CLI will be unable to restore the value correctly. Conversely, if a value set in the CLI is beyond the value range for the MIB object, the system cannot set that value in the MIB object.

Using this document

This document describes MIBs in alphabetical order.

Information about scalar and tabular objects

This document presents information about scalar and tabular objects in tabular form, as shown in the following example:

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifIndex (1.3.6.1.2.1.2.2.1.1)	read-only	Integer32	Integer32 (1..2147483647)	Interface index.	As per the MIB.

The following table provides an explanation of each field in the object information tables:

Item	Description
Object (OID)	Object name and its OID.
Access	The value of the MAX-ACCESS clause in the MIB for the object. It defines the access rights to the object.
Syntax	Data type defined in the SYNTAX clause for the object in the MIB file.
Value range	Values or value ranges defined in the SYNTAX clause for the object in the MIB file.
Description	Explanation of the object.
Implementation	<p>Implementation of the MIB object on the device.</p> <ul style="list-style-type: none">• If the object is implemented in full compliance with the MIB, this field displays As per the MIB.• If the object is accessible but it is not supported or tested, this field displays Not supported. To avoid unknown issues, do not access such MIB objects.• Any implementation restrictions.

For a tabular object, this document also provides information about the index or indexes used for it to identify instances and the support for table instance operations.

The support for table instance operations is presented in tabular form, as shown in the following example:

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

The following table provides an explanation of each field in the object information tables:

Item	Description
Create	<p>Support of the table for the create operation and restrictions on the create operation (if any).</p> <ul style="list-style-type: none">• Supported—You can add object instances to the table.• Not supported—You cannot add object instances to the table.
Edit/Modify	<p>Support of the table for the modify (also called edit) operation and restrictions on the modify operation (if any).</p> <ul style="list-style-type: none">• Supported—You can modify object instances in the table.• Not supported—You cannot modify object instances in the table.
Delete	<p>Support of the table for the delete operation and restrictions on the delete operation (if any).</p> <ul style="list-style-type: none">• Supported—You can delete object instances from the table.• Not supported—You cannot delete object instances from the table.

Item	Description
Read	Support of the table for the read operation and restrictions on the read operation (if any). <ul style="list-style-type: none"> • Supported—You can read object instances in the table. • Not supported—You cannot read object instances in the table.

Information about notification objects

This document presents information about notification objects in tabular form, as shown in the following example:

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.3	Interface link failure.	Error	Major	1.3.6.1.6.3.1.1.5.4 (linkUp)	ON

The following table provides an explanation of each field in the object information tables:

Item	Description
OID	OID of the notification object in the MIB.
Event	Description of the event that triggers the notification.
Type	<p>Notification type. This information helps you identify the health state of the device and filter notifications.</p> <ul style="list-style-type: none"> • Error notifications—Created when hardware or software exceptions occur. • Recovery notifications—Created when the hardware or software recovers from an error condition. • Informational notifications—Created when an event occurs that does not require any administrative actions. <p>Typically, error and recovery notifications report pairs of related events, and informational notifications report independent events. For example, a linkDown error notification is generated when a physical link is disconnected. When the physical link comes up, a linkUp recovery notification is generated. When the device is rebooted from the CLI, a coldStart informational notification is generated.</p>
Severity	<p>Severity of the notification. This information helps you determine whether action is required in response to the notification. SNMP notification packets do not contain this severity level information.</p> <ul style="list-style-type: none"> • Critical—Asset at risk. Immediate action required. For example, immediate action is required to take on temperature control issues. • Major—Significant impact or risk. Immediate action required. • Minor—Minor impact or risk. Action required with medium to low priority. • Warning—Needs to be reviewed to determine whether action is necessary. <p>In this document, a hyphen (-) or N/A might be used to represent the Warning severity level for a recovery or informational notification.</p>
Recovery notification	Created when the hardware or software recovers from an error condition.
Default status	<p>Default status of the notification:</p> <ul style="list-style-type: none"> • ON—The notification is enabled. • OFF—The notification is disabled.

Variable bindings in SNMP notifications

An SNMP notification contains a list of variable bindings to describe the event that triggered the notification. By parsing the variable binding list, you can obtain information such as on which interface the event occurred and which module reported the event. In the variable binding list, each binding is a pair of object instance OID and value.

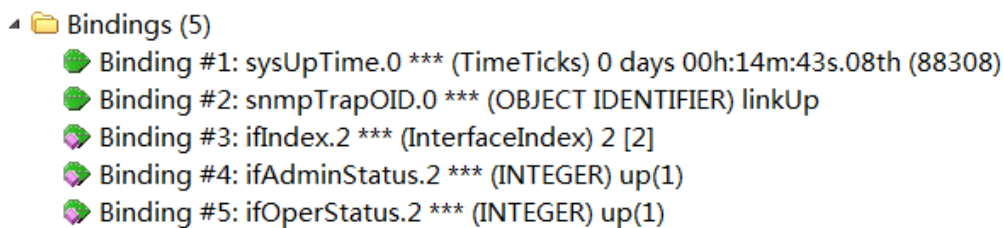
Types of bindings in the variable binding list

A variable binding list contains mandatory bindings and notification-specific bindings.

- Objects in mandatory bindings are defined in SNMP and included in every SNMP notifications.
- Notification-specific bindings differ depending on the definition of the notification object.

For example, Figure 2 shows the variable binding list in an SNMPv2 linkUp notification.

Figure 2 Variable binding list in an SNMPv2 linkUp notification

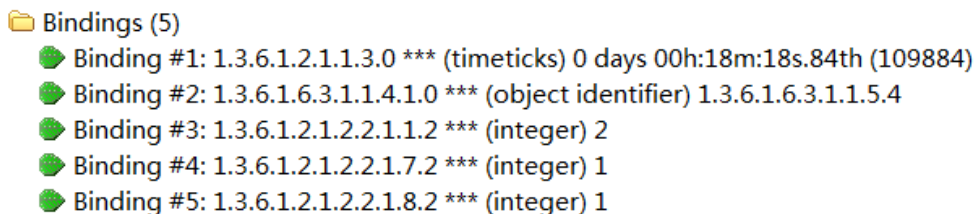


In this variable binding list, two are mandatory variable bindings and three are notification-specific bindings.

- The mandatory variable bindings contain the following object instances:
 - sysUpTime.0—Contains the time when the notification was generated. In this example, its value is 88308.
 - snmpTrapOID.0—Contains the name or OID of the notification object. In this example, the notification object is linkUp.
- The notification-specific bindings contain the following object instances:
 - ifIndex.2—Index of the interface on which the event occurred. In this example, the interface index is 2. In addition, ifIndex is also the index for the linkUp notification object.
 - ifAdminStatus.2—The administrative state of the interface. In this example, the index of the interface on which the event occurred is 2. The value for the administrative state of the interface is 1.
 - ifOperStatus.2—Status of the operation on the interface on which the event occurred. In this example, the interface index is 2. The value for the operation status is 1.

The variable binding list in Figure 2 is in a user-friendly view presented by the network management software after OID translation and numeration value conversion. Figure 3 shows the binding list without OID translation and numeration value conversion. With most network management software offerings, you can choose between the two views as needed.

Figure 3 Variable binding list in an SNMPv2 linkUp notification without



Obtaining information about indexes in variable bindings

A notification-specific variable might be an object instance identified by one index or multiple indexes. The index values are appended to the end of the object name. To obtain information about the indexes for an object instance, use the object name in the binding as the keyword to search the MIB document for the object table. Then, you can find indexing information for that table.

For example, Figure 4 shows the variable binding list in a teTunnelUp notification.

Figure 4 Variable binding list in a teTunnelUp notification

📁 Bindings (4)

- 🟢 Binding #1: sysUpTime.0 *** (TimeTicks) 0 days 00h:50m:10s.21th (301021)
- 🟢 Binding #2: snmpTrapOID.0 *** (OBJECT IDENTIFIER) teTunnelUp
- 🟢 Binding #3: teTunnelName.1 *** (SnmpAdminString) Tunnel1 [54.75.6E.6E.65.6C.31 (hex)]
- 🟢 Binding #4: tePathName.1.0 *** (SnmpAdminString) (zero-length) [(hex)]

The teTunnelUp notification in this example contains the following notification-specific variable bindings:

- teTunnelName.1—Name of the tunnel on which the event occurred. In this example, the tunnel is identified by a value of index 1. Its tunnel name is Tunnel1.
- tePathName.1.0—The administrative status of the TE path on which the event occurred. The TE path is identified by two indexes. One index has a value of 1 and the other index has a value of 0. The value for the administrative status is a zero-length string.

To obtain information about the index or indexes of a variable, look up teTunnelName and tePathName in the document. You can then find tabular objects teTunnelTable and tePathTable, respectively. The index information is right below the tabular object name.

teTunnelTable

The table index is teTunnelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
teTunnelIndex (1.3.6.1.2.1.122.1.2.1.1)	not-accessible	Unsigned32	Unsigned32 (1..2147483647)	Tunnel index.	As per the MIB.
teTunnelName (1.3.6.1.2.1.122.1.2.1.2)	read-create	OCTET STRING	OCTET STRING (1..32)	Tunnel name.	As per the MIB.

Because the table index for teTunnelTable is teTunnelIndex, the index value .1 in teTunnelName.1 represents the tunnel index with a value of 1.

tePathTable

The table indexes are teTunnelIndex and tePathIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
tePathIndex (1.3.6.1.2.1.122.1.3.1.1)	not-accessible	Unsigned32	Unsigned32 (1..2147483647)	Applicable path index.	As per the MIB.
tePathName (1.3.6.1.2.1.122.1.3.1.2)	read-create	OCTET STRING	OCTET STRING (1..32)	Application path index.	The object is read only.

Because the table indexes of tePathTable are teTunnelIndex and tePathIndex, the index values .1 and .0 in tePathName.1.0 represent the teTunnelIndex and tePathIndex instances with a value of 1 and 0, respectively.

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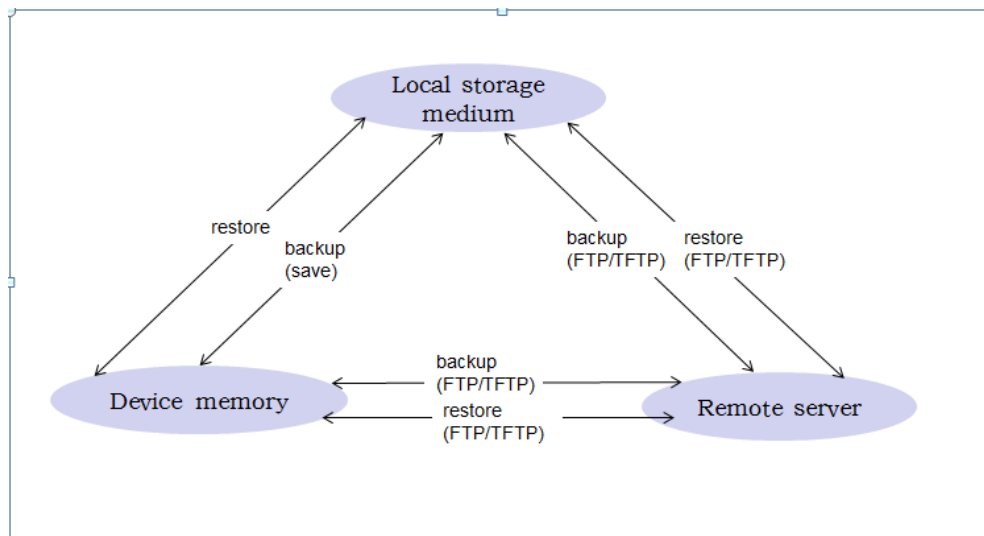
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HH3C-CONFIG-MAN-MIB

About this MIB

Use this MIB to manage the device configuration. For example, access this MIB to save, back up, or restore the configuration. This MIB also contains notifications about configuration changes.

The following figure shows the relationship among the device memory, local storage medium, and remote server in configuration backup and restoration:



MIB file name

hh3c-config-man.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cConfig(4)

Scalar objects

hh3cCfgRunModifiedLast

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgRunModifiedLast (1.3.6.1.4.1.25506.2.4.1.1.1)	read-only	TimeTicks	Standard MIB values.	Time when the running configuration was last modified.	As per the MIB.

hh3cCfgRunSavedLast

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgRunSavedLast	read-only	TimeTicks	Standard MIB values.	Time when the running	As per the MIB.

(1.3.6.1.4.1.25506.2.4.1.1.2)				configuration was last saved.	
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hh3cCfgStartModifiedLast

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgStartModifiedLast (1.3.6.1.4.1.25506.2.4.1.1.3)	read-only	TimeTicks	Standard MIB values.	Time when the next-startup configuration file used currently was last modified.	As per the MIB.

hh3cCfgLogLimitedEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgLogLimitedEntries (1.3.6.1.4.1.25506.2.4.1.1.4)	read-only	Integer32	Integer32 (0..2147483647)	Maximum number of rows in the hh3cCfgLogTable.	As per the MIB.

hh3cCfgLogDeletedEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgLogDeletedEntries (1.3.6.1.4.1.25506.2.4.1.1.5)	read-only	Counter32	Counter32 (0..2147483647)	Total number of rows deleted from the hh3cCfgLogTable.	As per the MIB.

hh3cCfgLogWantBackup

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgLogWantBackup (1.3.6.1.4.1.25506.2.4.1.1.6)	read-write	TruthValue	true(1) false(2)	Whether to back up the values of objects for the hh3cCfgLogTable.	The value for IRF-incapable devices is false. The value can be set to true for IRF-capable devices.

hh3cCfgOperateGlobalEntryLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgOperateGlobalEntryLimit (1.3.6.1.4.1.25506.2.4.1.2.1)	read-only	Integer32	Integer32 (1..10)	Maximum number of rows in the hh3cCfgOperateTable.	As per the MIB.

hh3cCfgOperateEntryAgeOutTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgOperateEntryAgeOutTime (1.3.6.1.4.1.25506.2.4.1.2.2)	read-write	Integer32	Integer32 (1..60)	Aging time for entries in the hh3cCfgOperateTable, in minutes.	As per the MIB.

hh3cCfgOperateResultGlobalEntryLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgOperateResultGlobalEntryLimit (1.3.6.1.4.1.25506.2.4.1.2.3)	read-write	Integer32	Integer32 (1..50)	Maximum number of rows in the hh3cCfgOperateResultTable.	As per the MIB.

hh3cCfgReset

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgReset 1.3.6.1.4.1.25506.2.4.1.2.7	read-write	INTEGER	normal(1) reset(2)	Reboots the device with factory defaults.	As per the MIB.

hh3cCfgExecuteOperateResultEntryLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgExecuteOperateResultEntryLimit (1.3.6.1.4.1.25506.2.4.1.2.6.1)	read-write	Integer32	Integer32 (5..20)	Maximum number of rows in the hh3cCfgExecuteResultTable.	As per the MIB.

hh3cCfgFirstTrapTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgFirstTrapTime (1.3.6.1.4.1.25506.2.4.1.1.8)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the first notification was sent.	As per the MIB.

hh3cCfgBackupToServerIPType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgBackupToServerIPType (1.3.6.1.4.1.25506.2.4.5.1)	accessible-for-notification	InetAddressType	unknown(0) ipv4(1) ipv6(2) ipv4z(3) ipv6z(4) dns(16)	Server IP address type.	As per the MIB.

hh3cCfgBackupToServerIP

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgBackupToServerIP (1.3.6.1.4.1.25506.2.4.5.2)	accessible-for-notification	InetAddress	OCTET STRING (0..255)	Server IP address.	As per the MIB.

hh3cCfgBackupToServerVPNName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgBackupToServerVPNName (1.3.6.1.4.1.25506.2.4.5.3)	accessible-for-notification	DisplayString	OCTET STRING (0..255)	Name of the VPN instance to which the server IP address belongs.	As per the MIB.

hh3cCfgRestoreType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgRestoreType (1.3.6.1.4.1.25506.2.4.5.7)	accessible-for-notification	INTEGER	binary(1) text(2)	1 represents DBM configuration restoration. 2 represents text configuration restoration.	As per the MIB.

Tabular objects

hh3cCfgLogTable

About this table

Use this table to obtain configuration change records.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cCfgLogIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgLogIndex (1.3.6.1.4.1.25506.2.4.1.1.7.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of a configuration log.	As per the MIB.
hh3cCfgLogTime (1.3.6.1.4.1.25506.2.4.1.1.7.1.2)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the configuration log was generated.	As per the MIB.
hh3cCfgLogSrcCmd (1.3.6.1.4.1.25506.2.4.1.1.7.1.3)	read-only	INTEGER	cmdLine(1) snmp(2) other(3)	Type of the source command that caused the log generation.	As per the MIB.
hh3cCfgLogSrcData (1.3.6.1.4.1.25506.2.4.1.1.7.1.4)	read-only	INTEGER	erase(1) runningData(2) commandSource(3) startupData(4) local(5) netFtp(6) hotPlugging(7)	Source data recorded in the configuration log.	As per the MIB.
hh3cCfgLogDesData (1.3.6.1.4.1.25506.2.4.1.1.7.1.5)	read-only	INTEGER	unknown(1) runningData(2) commandSource(3) startupData(4) local(5) netFtp(6) hotPlugging(7)	Destination data recorded in the configuration log.	As per the MIB.
hh3cCfgLogTerminalType (1.3.6.1.4.1.25506.2.4.1.1.7.1.6)	read-only	INTEGER	notApplicable(1) unknown(2) console(3) terminal(4) virtual(5) auxiliary(6)	Terminal type recorded in the configuration log.	As per the MIB.
hh3cCfgLogTerminalUser (1.3.6.1.4.1.25506.2.4.1.1.7.1.7)	read-only	DisplayString	OCTET STRING (0..64)	Name of the user that logged in to the CLI.	If the user uses SNMP to modify the device configuration, the value of this object is the SNMPv3 username.
hh3cCfgLogVirHost (1.3.6.1.4.1.25506.2.4.1.1.7.1.11)	read-only	DisplayString	OCTET STRING (0..64)	Host name of the remote system recorded in the configuration log.	If the value of hh3cCfgLogTerminalType is virtual, the value of this object is the host name of the remote system connected to the system. In other situations, the value of this

Object (OID)	Access	Syntax	Value range	Description	Implementation
					object is a zero-length string.
hh3cCfgLogUserName (1.3.6.1.4.1.25506.2.4.1.1.7.1.12)	read-only	DisplayString	OCTET STRING (0..64)	Service username recorded in the configuration log.	If the value of the hh3cCfgLogSrcData and hh3cCfgLogDesData nodes are any values other than netFtp, the value of this node is a zero-length string.
hh3cCfgLogServerAddress (1.3.6.1.4.1.25506.2.4.1.1.7.1.13)	read-only	IpAddress	OCTET STRING (4)	Server address recorded in the configuration log.	If the values of the hh3cCfgLogSrcData and hh3cCfgLogDesData nodes are any values other than netFtp, the value of this node is 0.0.0.0.
hh3cCfgLogFile (1.3.6.1.4.1.25506.2.4.1.1.7.1.14)	read-only	DisplayString	OCTET STRING (0..64)	Current configuration file name recorded in the configuration log.	As per the MIB.
hh3cCfgLogCommandSrcAddrType (1.3.6.1.4.1.25506.2.4.1.1.7.1.15)	read-only	InetAddressType	unknown(0) ipv4(1) ipv6(2) ipv4z(3) ipv6z(4) dns(16)	Type of the command source address recorded in the configuration log.	Not supported.
hh3cCfgLogCommandSrcAddrRev (1.3.6.1.4.1.25506.2.4.1.1.7.1.16)	read-only	InetAddress	OCTET STRING (0..255)	Command source address recorded in the configuration log.	Not supported.

hh3cCfgOperateTable

About this table

Use this MIB to manage configuration file transfers between the NMS and the device, for example, through FTP or TFTP.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

If the row status is active, you cannot modify the objects in the table.

Columns

The table index is hh3cCfgOperateIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgOperateIndex (1.3.6.1.4.1.25506.2.4.1.2.4.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of a configuration file operation.	As per the MIB.
hh3cCfgOperateType (1.3.6.1.4.1.25506.2.4.1.2.4.1.2)	read-create	ConfigOperationType	running2Startup(1) startup2Running(2) running2Net(3) net2Running(4) net2Startup(5) startup2Net(6) running2File(7) file2Running(8)	Operation type.	As per the MIB.
hh3cCfgOperateProtocol (1.3.6.1.4.1.25506.2.4.1.2.4.1.3)	read-create	INTEGER	ftp(1) tftp(2) clusterftp(3) clusterftp(4)	Protocol used for file transfer.	As per the MIB.
hh3cCfgOperateFileName (1.3.6.1.4.1.25506.2.4.1.2.4.1.4)	read-create	DisplayString	OCTET STRING (1..128)	Configuration file name.	As per the MIB.
hh3cCfgOperateServerAddress (1.3.6.1.4.1.25506.2.4.1.2.4.1.5)	read-create	IpAddress	OCTET STRING (4)	Address of the remote configuration file server.	As per the MIB.
hh3cCfgOperateUsername (1.3.6.1.4.1.25506.2.4.1.2.4.1.6)	read-create	DisplayString	OCTET STRING (0..40)	Username used to access the remote server.	If the value of hh3cCfgOperateType is running2Net, net2Running, net2Startup, or startup2Net and the value of hh3cCfgOperateProtocol is ftp, this node represents the username used to access the FTP server. In this case, you must specify this node for the create operation.
hh3cCfgOperateUserPassword (1.3.6.1.4.1.25506.2.4.1.2.4.1.7)	read-create	DisplayString	OCTET STRING (0..40)	Password used to access the remote server.	If the value of hh3cCfgOperateType is running2Net, net2Running, net2Startup, or startup2Net and the value of hh3cCfgOperateProtocol is ftp, this

Object (OID)	Access	Syntax	Value range	Description	Implementation
					node represents the password used to access the FTP server. In this case, you must specify this node for the create operation. When read, this node returns a zero-length string.
hh3cCfgOperateEndNotificationSwitch (1.3.6.1.4.1.25506.2.4.1.2.4.1.8)	read-create	TruthValue	true(1) false(2)	Whether to notify that the operation completes. By default, the value is false.	As per the MIB.
hh3cCfgOperateRowStatus (1.3.6.1.4.1.25506.2.4.1.2.4.1.9)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	A row entry cannot be modified if its row status is active.
hh3cCfgOperateServerPort (1.3.6.1.4.1.25506.2.4.1.2.4.1.10)	read-create	Integer32	Integer32 (0..65535)	Remote port number. If the value is an invalid port number, the default port number is used.	As per the MIB.
hh3cCfgOperateServerAddrType (1.3.6.1.4.1.25506.2.4.1.2.4.1.11)	read-create	InetAddressType	unknown(0) ipv4(1) ipv6(2) ipv4z(3) ipv6z(4) dns(16)	Address type of the remote server.	Supports only ipv4, ipv6, and dns.
hh3cCfgOperateServerAddrRev (1.3.6.1.4.1.25506.2.4.1.2.4.1.12)	read-create	InetAddress	OCTET STRING (0..255)	Address of the remote server.	If the value of the hh3cCfgOperateServerAddrType object is ipv4, ipv6, or dns, you must specify this object. An IPv4 address is in dotted decimal notation. An IPv6 address is a colon-separated hexadecimal string. A DNS address is a string of up to 253 characters.
hh3cCfgOperateServerVPNName (1.3.6.1.4.1.25506.2.4.1.2.4.1.13)	read-create	DisplayString	OCTET STRING (0..255)	Name of the VPN instance to which the remote server belongs.	As per the MIB.

hh3cCfgOperateResultTable

About this table

Use this table to obtain the creation result of rows in the hh3cCfgOperateTable.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

A row is automatically created or deleted in this table for each row created or deleted in the hh3cCfgOperateTable.

Columns

The table index is hh3cCfgOperateResultIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgOperateResultIndex (1.3.6.1.4.1.25506.2.4.1.2.5.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of the hh3cCfgOperateResultIndex table.	As per the MIB.
hh3cCfgOperateResultOptIndex (1.3.6.1.4.1.25506.2.4.1.2.5.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Index of a configuration file operation in the hh3cCfgOperateTable.	As per the MIB.
hh3cCfgOperateResultOpType (1.3.6.1.4.1.25506.2.4.1.2.5.1.3)	read-only	ConfigOperationType	running2Startup(1) startup2Running(2) running2Net(3) net2Running(4) net2Startup(5) startup2Net(6) running2File(7) file2Running(8)	Type of the operation.	As per the MIB.
hh3cCfgOperateState (1.3.6.1.4.1.25506.2.4.1.2.5.1.4)	read-only	ConfigOperationStateType	opInProgress(1) opSuccess(2) opInvalidOperation(3) opInvalidProtocol(4) opInvalidSourceName(5) opInvalidDestName(6) opInvalidServerAddress(7) opDeviceBusy(8) opDeviceOpenError(9)	Operation state type.	If the value is opFileOpenError(13), the configuration file might be invalid, might not exist, or might not be accessible.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			opDeviceError(10) opDeviceNotProgrammable(11) opDeviceFull(12) opFileOpenError(13) opFileTransferError(14) opFileChecksumError(15) opNoMemory(16) opAuthFail(17) opTimeout(18) opUnknownFailure(19) opInvalidConfigFile(20) opSlaveFull(21) opCopyToSlaveFailure(22)		
hh3cCfgOperateTime (1.3.6.1.4.1.25506.2.4.1.2.5.1.5)	read-only	TimeTicks	Standard MIB values.	Time when the configuration started.	As per the MIB.
hh3cCfgOperateEndTime (1.3.6.1.4.1.25506.2.4.1.2.5.1.6)	read-only	TimeTicks	Standard MIB values.	Time when the configuration was finished.	As per the MIB.
hh3cCfgOperFailReason (1.3.6.1.4.1.25506.2.4.1.2.5.1.7)	read-only	DisplayString	OCTET STRING (0..255)	Failure reason of the configuration file operation.	As per the MIB.
hh3cCfgOperateFailCmd (1.3.6.1.4.1.25506.2.4.1.2.5.1.8)	read-only	DisplayString	OCTET STRING (0..512)	Command that caused the configuration file operation failure.	Not supported
hh3cCfgOperateFailCmdView (1.3.6.1.4.1.25506.2.4.1.2.5.1.9)	read-only	DisplayString	OCTET STRING (0..264)	View in which the command was executed and caused the configuration file operation failure.	Not supported
hh3cCfgOperateFailCmdReason (1.3.6.1.4.1.25506.2.4.1.2.5.1.10)	read-only	DisplayString	OCTET STRING (0..255)	Failure reason.	<ul style="list-style-type: none"> Not supported

hh3cCfgExecuteResultTable

About this table

Use this table to obtain execution results about the startup2Running, net2Running, and file2Running operations created in the hh3cCfgOperateTable.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

A row is automatically created in this table for each row created in the hh3cCfgOperateTable if the operation type of the row in the hh3cCfgOperateTable is startup2Running, net2Running, or file2Running.

Columns

The table index is hh3cCfgExecuteResultIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCfgExecuteResultIndex (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of a configuration file execution result.	As per the MIB.
hh3cCfgExecuteResultOptIndex (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Index of a configuration file execution in the hh3cCfgOperateTable.	As per the MIB.
hh3cCfgExecuteResultOpType (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.3)	read-only	ConfigOperationType	running2Startup(1) startup2Running(2) running2Net(3) net2Running(4) net2Startup(5) startup2Net(6) running2File(7) file2Running(8)	Operation type of the configuration file execution.	As per the MIB.
hh3cCfgExecuteState (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.4)	read-only	ConfigOperationStateType	opInProgress(1) opSuccess(2) opInvalidOperation(3) opInvalidProtocol(4) opInvalidSourceName(5) opInvalidDestName(6) opInvalidServerAddress(7) opDeviceBusy(8) opDeviceOpenError(9)	Configuration file execution status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			opDeviceError(10) opDeviceNotProgrammable(11) opDeviceFull(12) opFileOpenError(13) opFileTransferError(14) opFileChecksumError(15) opNoMemory(16) opAuthFail(17) opTimeout(18) opUnknownFailure(19) opInvalidConfigFile(20) opSlaveFull(21) opCopyToSlaveFailure(22)		
hh3cCfgExecuteTime (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.5)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the configuration file execution started.	As per the MIB.
hh3cCfgExecuteEndTime (1.3.6.1.4.1.25506.2.4.1.2.6.2.1.6)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the configuration file execution ended.	As per the MIB.

Notifications

The following information describes the notifications included in the HH3C-CONFIG-MAN-MIB module.

hh3cCfgManEventlog

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.4.2.1	Configuration change event.	Informational	N/A	N/A	ON

Description

This notification is generated as follows:

Configuration source (hh3cCfgLogSrcCmd)	Source data (hh3cCfgLogSrcData)	Destination data (hh3cCfgLogDesData)	Notification generation
cmdLine(1)	runningData(2)	startupData(4)	This notification is generated when the

Configuration source (hh3cCfgLogSrcCmd)	Source data (hh3cCfgLogSrcData)	Destination data (hh3cCfgLogDesData)	Notification generation
			save command is used.
snmp(2)	startupData(4)	runningData(2)	<p>The system automatically detects the running configuration at intervals (on majority devices, the interval is 10 minutes).</p> <p>This notification is generated when the system detects that new configuration is submitted to the running configuration.</p>

Status control

ON

CLI: Use the **snmp-agent trap enable configuration** command.

OFF

CLI: Use the **undo snmp-agent trap enable configuration** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.1.1.7.1.3 (hh3cCfgLogSrcCmd)	Configuration source.	No	INTEGER	cmdLine(1) snmp(2)
1.3.6.1.4.1.25506.2.4.1.1.7.1.4 (hh3cCfgLogSrcData)	Source data.	No	INTEGER	runningData(2) startupData(4)
1.3.6.1.4.1.25506.2.4.1.1.7.1.5 (hh3cCfgLogDesData)	Destination data.	No	INTEGER	runningData(2) startupData(4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check the system running configuration. If necessary, save the running configuration.

hh3cCfgOperateCompletion

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.4.2.2	A configuration operation completed.	Informational	N/A	N/A	ON

Description

This notification is generated when a configuration operation performed through the hh3cCfgOperateTable completes if the value of hh3cCfgOperateEndNotificationSwitch is true.

Parameters included in this notification vary by operation type. For more information, see the online help for the NMS.

Status control

ON

- CLI: Use the **snmp-agent trap enable configuration** command.
- MIB: Set hh3cCfgOperateEndNotificationSwitch to true(1).

OFF

- CLI: Use the **undo snmp-agent trap enable configuration** command.
- MIB: Set hh3cCfgOperateEndNotificationSwitch to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.1.2.4.1.2 (hh3cCfgOperateType)	Operation type.	No	ConfigOperationType	running2Startup(1) startup2Running(2) running2Net(3) net2Running(4) net2Startup(5) startup2Net(6)
1.3.6.1.4.1.25506.2.4.1.2.5.1.5 (hh3cCfgOperateTime)	Operation start time.	No	TimeTicks	Standard MIB values.
1.3.6.1.4.1.25506.2.4.1.2.5.1.4 (hh3cCfgOperateState)	Operation status.	No	INTEGER	opInProgress(1) opSuccess(2) opInvalidOperation(3) opInvalidProtocol(4) opInvalidSourceName(5) opInvalidDestName(6) opInvalidServerAddresses(7) opDeviceBusy(8) opDeviceOpenError(9) opDeviceError(10) opDeviceNotProgrammable(11) opDeviceFull(12) opFileOpenError(13) opFileTransferError(14) opFileChecksumError(15) opNoMemory(16) opAuthFail(17)

OID (object name)	Description	Index	Type	Value range
				opTimeOut(18) opUnknownFailure(19) opInvalidConfigFile(20) opSlaveFull(21) opCopyToSlaveFailure(22)
1.3.6.1.4.1.25506.2.4.1.2.5.1.6 (hh3cCfgOperateEndTime)	Operation end time	No	TimeTicks	Standard MIB values.
1.3.6.1.4.1.25506.2.4.1.2.5.1.7 (hh3cCfgOperFailReason)	Failure reason.	No	DisplayString	OCTET STRING (SIZE (0..255))

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cCfgInvalidConfigFile

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.4.2.3	An invalid file was used for configuration restoration.	Informational	N/A	N/A	ON

Description

This notification is generated when the system detects that the configuration file used for configuration restoration is invalid.

Status control

ON

CLI: Use the `snmp-agent trap enable configuration` command.

OFF

CLI: Use the `undo snmp-agent trap enable configuration` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.1.2.4.1.2 (hh3cCfgOperateType)	Operation type.	No	ConfigOperationType	net2Running(4) net2Startup(5)
1.3.6.1.4.1.25506.2.4.1.2.4.1.4 (hh3cCfgOperateFileName)	Configuration file name.	No	DisplayString	OCTET STRING (SIZE (1..128))

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the configuration file is valid and use a valid configuration file for configuration restoration.

hh3cCfgBackupToServerSuccess

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.4.4.0.1	A configuration file was backed up to a server successfully.	Informational	N/A	N/A	ON

Description

This notification is generated when a configuration file is backed up to a server successfully.

Status control

ON

CLI: Use the `snmp-agent trap enable configuration` command.

OFF

CLI: Use the `undo snmp-agent trap enable configuration` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.4.1 (hh3cCfgBackupToServerIPType)	Server IP address type.	No	InetAddressType	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.2 (hh3cCfgBackupToServerIP)	Server IP address.	No	InetAddress	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.3 (hh3cCfgBackupToServerVPNName)	Name of the VPN instance to which the server IP address belongs.	No	DisplayString	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.4	File transfer	No	INTEGER	As per the MIB.

(hh3cConfigBackupToServerTransType)	method.			
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Recommended action

No action is required.

Description

This notification is generated when the system fails to back up a configuration file to a server.

Status control

ON

CLI: Use the `snmp-agent trap enable configuration` command.

OFF

CLI: Use the `undo snmp-agent trap enable configuration` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.4.1 (hh3cCfgBackupToServerIPType)	Server IP address type.	No	InetAddressType	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.2 (hh3cCfgBackupToServerIP)	Server IP address.	No	InetAddress	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.3 (hh3cCfgBackupToServerVPNName)	Name of the VPN instance to which the server IP address belongs.	No	DisplayString	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.4 (hh3cConfigBackupToServerTransType)	File transfer method.	No	INTEGER	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.3 (hh3cConfigBackupToServerFailedReason)	Backup failure reason.	No	DisplayString	As per the MIB.
1.3.6.1.4.1.25506.2.4.4.4 (hh3cConfigBackupToServerErrorCode)	Backup failure error code.	No	INTEGER	As per the MIB.

Recommended action

Handle the issue according to the failure reason.

hh3cCfgRestoreSuccess

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.4.4.0.3	The main startup configuration file was restored	Informational	N/A	N/A	ON

	successfully.				
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Description

This notification is generated when the main startup configuration file is restored successfully.

Status control

ON

CLI: Use the `snmp-agent trap enable configuration` command.

OFF

CLI: Use the `undo snmp-agent trap enable configuration` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.4.4.6 (hh3cCfgRestoreType)	Configuration restoration type.	No	INTEGER	binary(1) text(2)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-FLASH-MAN-MIB

About this MIB

Use this MIB to obtain information about storage media, partitions, and files as well as manage files on the storage media.

MIB file name

hh3c-flash-man.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cFlash(5)

Scalar objects

hh3cFlhSupportNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cFlhSupportNum (1.3.6.1.4.1.25506.2.5.1.1.1)	read-only	Integer32	Standard MIB values.	Maximum number of storage media supported by the system.	As per the MIB.

hh3cFlhUsageRate

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cFlhUsageRate (1.3.6.1.4.1.25506.2.5.1.4.1)	accessible-for-notification	Integer32	Standard MIB values.	Current disk usage.	As per the MIB.

hh3cFlhUsageRateThreshold

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cFlhUsageRateThreshold (1.3.6.1.4.1.25506.2.5.1.4.2)	accessible-for-notification	Integer32	Standard MIB values.	Usage threshold.	As per the MIB.

hh3cFlhNameForTrap

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cFlhNameForTrap (1.3.6.1.4.1.25506.2.5.1.4.3)	accessible-for-notification	DisplayString	Standard MIB values.	Disk name.	As per the MIB.

Tabular objects

hh3cFlashTable

About this table

Use this table to obtain information about storage media.

Notifications

The following information describes the notifications included in the HH3C-FLASH-MAN-MIB module.

hh3cFlhOperNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.5.1.3.1	A file operation completed.	Informational	N/A	N/A	ON

Description

This notification is generated when a file operation completes if the value of hh3cFlhOperEndNotification is true.

The parameters included in this notification vary by file operation. For more information, see the online help for the NMS.

Status control

ON

MIB: Set hh3cFlhOperEndNotification to true(1).

OFF

MIB: Set hh3cFlhOperEndNotification to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.5.1.2.1.1.9 (hh3cFlhOperStatus)	File operation status.	No	Hh3cFlashOperationStatus	opInProgress(1) opSuccess(2) opInvalid(3) opInvalidProtocol(4) opInvalidSourceName(5) opInvalidDestName(6) opInvalidServerAddress(7) opDeviceBusy(8) opDeviceOpenError(9)

				opDeviceError(10) opDeviceNotProgram mable(11) opDeviceFull(12) opFileOpenError(13) opFileTransferError(14) opFileChecksumError(15) opNoMemory(16) opAuthFail(17) opTimeout(18) opUnknownFailure(19) opDeleteFileOpenErro r(20) opDeleteInvalidDevice (21) opDeleteInvalidFunci on(22) opDeleteOperationErr or(23) opDeleteInvalidFileNa me(24) opDeleteDeviceBusy(25) opDeleteParaError(26) opDeleteInvalidPath(2 7) opDeleteFileNotExistl nSlave(28) opDeleteFileFailedInSl ave(29) opSlaveFull(30) opCopyToSlaveFailur e(31)
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This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Handle the issue according to the file operation result.

hh3cFlhUsageOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.5.1.4.0.1	The disk usage exceeded the threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the disk usage exceeds the alarm threshold.

Status control

None.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.5.1.5.1 (hh3cFlhUsageRate)	Current disk usage.	No	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.5.1.5.2 (hh3cFlhUsageRateThreshold)	Disk usage threshold.	No	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.5.1.5.3 (hh3cFlhNameForTrap)	Disk name.	No	DisplayString	Standard MIB values.

Recommended action

Verify that the disk space is insufficient and clear unnecessary files as needed.

hh3cFlhUsageResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.5.1.4.0.2	The disk usage dropped below the threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the disk usage drops below the alarm threshold.

Status control

None.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.5.1.5.1 (hh3cFlhUsageRate)	Current disk usage.	No	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.5.1.5.2	Disk usage threshold.	No	Integer32	Standard MIB values.

(hh3cFlhUsageRateThreshold)				
1.3.6.1.4.1.25506.2.5.1.5.3 (hh3cFlhNameForTrap)	Disk name.	No	DisplayString	Standard MIB values.

Recommended action

No action is required.

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HH3C-ISSU-MIB

About this MIB

Use this table to perform in-service software upgrade (ISSU) operations.

You can obtain information from the hh3clssuTestResultTable and clssuUpgradeResultTable objects only if you have performed test or install operations by using the hh3clssuUpgrageImageTable object.

MIB file name

hh3c-issu.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3clssuUpgrade(133)

Scalar objects

hh3clssuOpType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuOpType (1.3.6.1.4.1.25506 .2.133.1.1.2.1)	read-write	INTEGER	none(1) done(2) test(3) install(4) rollback(5)	ISSU operation.	As per the MIB.

hh3clssuImageFileOverwrite

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuImageFileOverwrite (1.3.6.1.4.1.25506 .2.133.1.1.2.2)	read-write	TruthValue	true(1) false(2)	Enables or disables ISSU to overwrite the current image file when copying the upgrade image file to the node to be upgraded.	As per the MIB.

hh3clssuOpTrapEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuOpTrapEnable (1.3.6.1.4.1.25506 .2.133.1.1.2.3)	read-write	TruthValue	true(1) false(2)	SNMP ISSU notification control.	As per the MIB.

hh3clssuOpStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuOpStatus (1.3.6.1.4.1.25506 .2.133.1.1.2.4)	read-only	INTEGER	none(1) failure(2) inProgress(3) success(4) rollbackInProgress(5) rollbackSuccess(6)	ISSU upgrade state.	As per the MIB.

hh3clssuFailedReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuFailedReason (1.3.6.1.4.1.25506 .2.133.1.1.2.5)	read-only	DisplayString	OCTET STRING (0..255)	ISSU upgrade failure cause.	As per the MIB.

hh3clssuOpTimeCompleted

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuOpTimeCompleted (1.3.6.1.4.1.25506 .2.133.1.1.2.6)	read-only	DisplayString	OCTET STRING (0..255)	Time when the ISSU operation finished.	As per the MIB.

hh3clssuLastOpType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuLastOpType (1.3.6.1.4.1.25506 .2.133.1.1.2.7)	read-only	INTEGER	none(1) done(2) test(3) install(4) rollback(5)	Previous ISSU operation.	As per the MIB.

hh3clssuLastOpStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuLastOpStatus (1.3.6.1.4.1.25506)	read-only	INTEGER	none(1) failure(2)	State of the previous ISSU operation.	As per the MIB.

.2.133.1.1.2.8)			inProgress(3) success(4) rollbackInProgress(5) rollbackSuccess(6)		
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hh3clssuLastOpFailedReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuLastOpFailedReason (1.3.6.1.4.1.25506.2.133.1.1.2.9)	read-only	DisplayString	OCTET STRING (0..255)	Cause of the most recent ISSU upgrade failure.	As per the MIB.

hh3clssuLastOpTimeCompleted

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuLastOpTimeCompleted(1.3.6.1.4.1.25506.2.133.1.1.2.10)	read-only	DisplayString	OCTET STRING (0..255)	Time when the previous ISSU operation finished.	As per the MIB.

hh3clssuCompatibleResultStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuCompatibleResultStatus (1.3.6.1.4.1.25506.2.133.1.2.1.1)	read-only	INTEGER	none(1) inCompatible(2) compatible(3) failure(4)	ISSU compatibility check result.	As per the MIB.

hh3clssuCompatibleResultFailedReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuCompatibleResultFailedReason (1.3.6.1.4.1.25506.2.133.1.2.1.2)	read-only	DisplayString	OCTET STRING (0..255)	Cause of ISSU compatibility check failure.	As per the MIB.

Tabular objects

hh3clssuUpgradelmageTable

About this table

Use this table to set the image file for an ISSU or obtain information about the image file.

- To verify the validity of the upgrade image file and obtain the recommended ISSU method, perform a test operation.
- To do an ISSU, perform the install operation.
- To roll back the software, perform the rollback operation.
- To clear the records of operations for the most recent ISSU, perform the done operation.

As shown in [Figure 1](#), perform a test operation only in initial state. After you perform the test operation, perform an install operation depending on the test operation result.

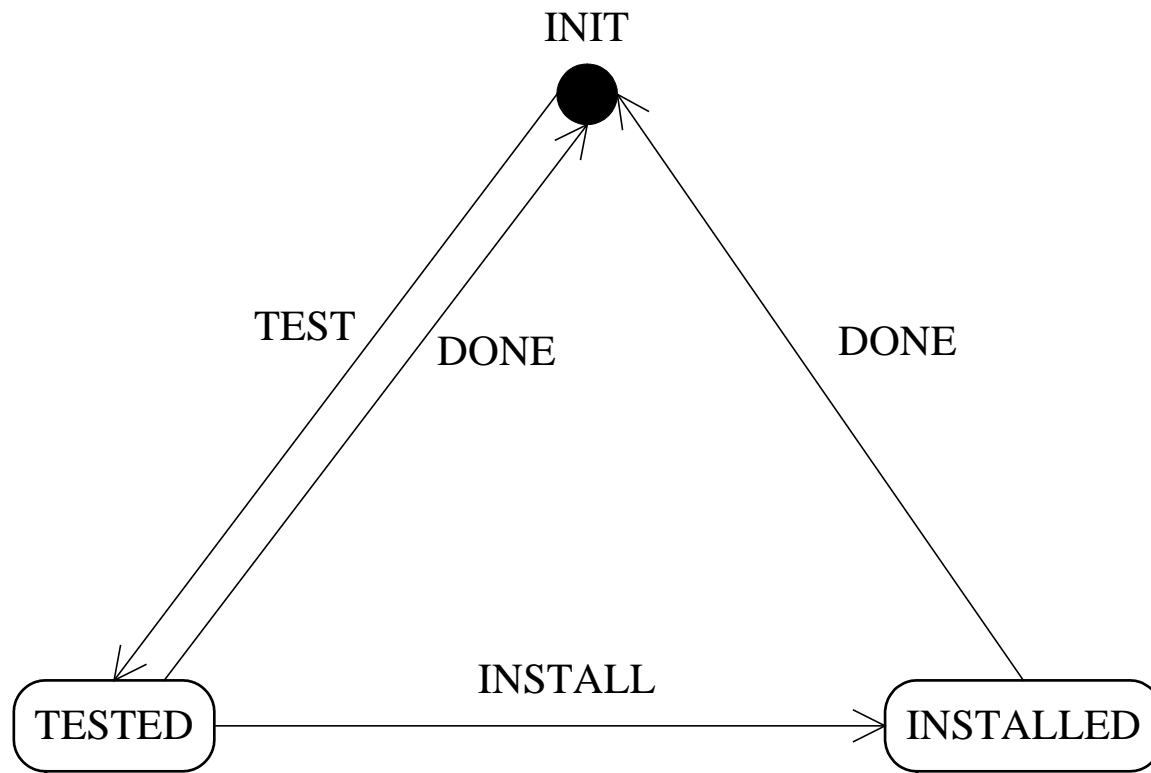
You can perform a done operation to change the ISSU state to the initial state after you have performed a test, install or rollback operation. The done operation clears hh3clssuUpgradelmageTable, restores the FileOverwrite and TrapEnable objects to their default values.

You can perform a rollback whenever you like. However, the operation does not take effect if you have only performed a test operation.

After you issue a rollback instruction, the system moves the current opType, opStatus, opFailedReason, and opTimeCompleted values to their respective LastOp entries if a rollback is allowed.

Five minutes later after an install or rollback operation succeeds, the system copies the current OpType, OpStatus, OpFailedReason, and OpTimeCompleted values to their respective LastOp objects. Another five minutes later, all these Op objects are restored to their default values.

Figure 1 ISSU operations



Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

When you create an instance, you must also specify hh3clssuUpgradelmageType, hh3clssuUpgradelmageURL, and hh3clssuUpgradelmageIndexRowStatus.

Columns

The table index is hh3clssuUpgradelmageIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuUpgradelmageIndex (1.3.6.1.4.1.25506.2.133.1.1.1.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Image file index.	As per the MIB.
hh3clssuUpgradelmageType (1.3.6.1.4.1.25506.2.133.1.1.1.1.2)	read-create	INTEGER	boot(1) system(2) feature(3) ipe(4) patch(5)	Image file type.	As per the MIB.
hh3clssuUpgradelmageURL (1.3.6.1.4.1.25506.2.133.1.1.1.1.3)	read-create	DisplayString	OCTET STRING (1..127)	Image file path.	As per the MIB.
hh3clssuUpgradelmageRowStatus (1.3.6.1.4.1.25506.2.133.1.1.1.1.4)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3clssuTestResultTable

About this table

Use this table to obtain the result of an ISSU test operation.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clssuTestResultIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuTestResultIndex (1.3.6.1.4.1.25506.2.133.1.2.2.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Test result index.	As per the MIB.
hh3clssuTestDeviceChassisID (1.3.6.1.4.1.25506.2.133.1.2.2.1.2)	read-only	Integer32	Integer32 (0..255)	Chassis number of the node on which the test operation was performed.	As per the MIB.
hh3clssuTestDeviceSlotID (1.3.6.1.4.1.25506.2.133.1.2.2.1.3)	read-only	Integer32	Integer32 (0..255)	Slot number of the node on which the test operation was performed.	As per the MIB.
hh3clssuTestDeviceCpuID (1.3.6.1.4.1.25506.2.133.1.2.2.1.4)	read-only	Integer32	Integer32 (0..7)	CPU number of the node on which the test operation was performed.	As per the MIB.
hh3clssuTestDeviceUpgradeWay (1.3.6.1.4.1.25506.2.133.1.2.2.1.5)	read-only	INTEGER	none(1) reboot(2) sequenceReboot(3) issuReboot(4) serviceUpgrade(5) fileUpgrade(6) incompatibleUpgrade(7)	Recommended ISSU upgrade method.	As per the MIB.

hh3clssuUpgradeResultTable

About this table

Use this table to obtain the result of an ISSU install operation.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clssuUpgradeResultIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuUpgradeResultIndex (1.3.6.1.4.1.25506.2.133.1.2.3.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Table index of hh3clssuUpgradeResultTable.	As per the MIB.
hh3clssuUpgradeDeviceChassisID (1.3.6.1.4.1.25506.2.133.1.2.3.1.2)	read-only	Integer32	Integer32 (0..255)	Chassis number of the node on which ISSU was performed.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clssuUpgradeDeviceSlotID (1.3.6.1.4.1.25506.2.133.1.2.3.1.3)	read-only	Integer32	Integer32 (0..255)	Slot number of the node on which ISSU was performed.	As per the MIB.
hh3clssuUpgradeDeviceCpuID (1.3.6.1.4.1.25506.2.133.1.2.3.1.4)	read-only	Integer32	Integer32 (0..7)	CPU number of the node on which ISSU was performed.	As per the MIB.
hh3clssuUpgradeState (1.3.6.1.4.1.25506.2.133.1.2.3.1.5)	read-only	INTEGER	init(1) loading(2) loaded(3) switching(4) switchover(5) committing(6) committed(7) rollback(8) rollbacked(9)	Node state.	As per the MIB.
hh3clssuDeviceUpgradeWay (1.3.6.1.4.1.25506.2.133.1.2.3.1.6)	read-only	INTEGER	none(1), reboot(2) sequenceReboot(3) issuReboot(4) serviceUpgrade(5) fileUpgrade(6) incompatibleUpgrade(7)	ISSU method for the node.	As per the MIB.
hh3clssuUpgradeDeviceStatus (1.3.6.1.4.1.25506.2.133.1.2.3.1.7)	read-only	INTEGER	waitingUpgrade(1) inProcess(2) success(3) failure(4)	Current upgrade state of the node.	As per the MIB.
hh3clssuUpgradeFailedReason (1.3.6.1.4.1.25506.2.133.1.2.3.1.8)	read-only	DisplayString	OCTET STRING (0..255)	Upgrade failure cause.	As per the MIB.

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HH3C-SYS-MAN-MIB

About this MIB

Use this MIB to manage the system time and daylight saving time, obtain the current configuration file and the version file, reboot the device, and upgrade device software. This MIB also contains notifications about configuration changes.

MIB file name

hh3c-sys-man.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cSystemMan(3)

Scalar objects

hh3cSysLocalClock

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysLocalClock (1.3.6.1.4.1.25506.2.3.1.1.1)	read-write	DateAndTime	OCTET STRING (8)	System time.	As per the MIB.
hh3cSysSummerTimeEnable (1.3.6.1.4.1.25506.2.3.1.1.2.1)	read-only	INTEGER	enable(1) disable(2)	Enables or disables using daylight saving time.	As per the MIB.
hh3cSysSummerTimeZone (1.3.6.1.4.1.25506.2.3.1.1.2.2)	read-write	DisplayString	OCTET STRING (0..255)	Name for the daylight saving time schedule.	As per the MIB.
hh3cSysSummerTimeMethod (1.3.6.1.4.1.25506.2.3.1.1.2.3)	read-write	INTEGER	oneOff(1) repeating(2)	Implementation method of daylight saving time.	Supports only the repeating method.
hh3cSysSummerTimeStart (1.3.6.1.4.1.25506.2.3.1.1.2.4)	read-write	DateAndTime	OCTET STRING (8)	Start time of the daylight saving time schedule.	As per the MIB.
hh3cSysSummerTimeEnd (1.3.6.1.4.1.25506.2.3.1.1.2.5)	read-write	DateAndTime	OCTET STRING (8)	End time of the daylight saving time schedule.	As per the MIB.
hh3cSysSummerTimeOffset (1.3.6.1.4.1.25506.2.3.1.1.2.6)	read-write	Integer32	Integer32 (0..86399)	Time to be added to the standard time.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysClockProtocol (1.3.6.1.4.1.25506.2.3.1.1.4.1)	read-write	INTEGER	none(1) ntp(2) ptp(3) interface(4)	Method for obtaining the system time.	Implementation varies by product.
hh3cSysClockProtocolSrcMdc (1.3.6.1.4.1.25506.2.3.1.1.4.2)	read-write	Integer32	Integer32 (0..2147483647)	MDC as the system time source. Default: 1.	Implementation varies by product.
hh3cSysClockProtocolSrcContext (1.3.6.1.4.1.25506.2.3.1.1.4.3)	read-only	Integer32	Integer32 (0..2147483647)	Context as the system time source. Default: 1.	Implementation varies by product.
hh3cSysLocalClockString (1.3.6.1.4.1.25506.2.3.1.1.3)	read-write	OCTET STRING	OCTET STRING (16..24)	System time in the format of strings.	As per the MIB. Same with hh3cSysLocalClock.
hh3cSysReloadSchedule (1.3.6.1.4.1.25506.2.3.1.3.1)	read-write	Integer32	Integer32 (0..2147483647)	Reload entry index.	The device reboots if the value of the object is 1 on the occurrence of the reload operation.
hh3cSysReloadAction (1.3.6.1.4.1.25506.2.3.1.3.2)	read-write	INTEGER	reloadUnavailable(1) reloadOnSchedule(2) reloadAtOnce(3) reloadCancel(4)	Reload action.	As per the MIB.
hh3cSysReloadTag (1.3.6.1.4.1.25506.2.3.1.3.4)	read-write	SnmpTagValue	OCTET STRING (0..255)	Tag of the reload entry.	As per the MIB.
hh3cSysCFGFileNum (1.3.6.1.4.1.25506.2.3.1.5.1)	read-only	Integer32	Integer32 (0..2147483647)	Number of configuration files.	As per the MIB.
hh3cSysBtmLoadMaxNumber (1.3.6.1.4.1.25506.2.3.1.6.1.1)	read-only	Integer32	Integer32 (0..2147483647)	Maximum number of bootrom load entries.	As per the MIB.
hh3cSysPackageNum (1.3.6.1.4.1.25506.2.3.1.7.1)	read-only	Integer32	Integer32 (0..2147483647)	Number of packages.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysPackageOperateEntryLimit (1.3.6.1.4.1.25506.2.3.1.7.3)	read-write	Integer32	Integer32 (0..2147483647)	Maximum number of package file operation entries.	Maximum number of instances in hh3cSysPackageOperateTable, in the range of 1 to 128. The default is 32. If the number of the instances reaches the limit, the most recent instance overwrites the earliest one.
hh3cSysIpeFileNum (1.3.6.1.4.1.25506.2.3.1.8.1)	read-only	Integer32	Integer32 (0..2147483647)	Number of IPE files.	As per the MIB.
hh3cSysSetBootImageAction (1.3.6.1.4.1.25506.2.3.1.9.1.1)	read-write	INTEGER	none(1) done(2) bootLoadPrimary(3) bootLoadSecondary(4) bootLoadPrimarySecondary(5) bootPrimary(6) bootSecondary(7) bootPrimarySecondary(8) loadPrimary(9) loadSecondary(10) loadPrimarySecondary(11)	Sets images as primary boot images, secondary boot images, or both.	Supports only none(1), done(2), bootLoadPrimary(3), bootLoadSecondary(4), and bootLoadPrimarySecondary(5). Verify the result after setting boot images or performing boot image loading. To avoid next upgrade being affected, clear the upgrade records after the upgrade. As a best practice, verify that the upgrade files and the upgrade records are empty before the next upgrade.
hh3cSysSetBootImageFileOverWrite (1.3.6.1.4.1.25506.2.3.1.9.1.2)	read-write	TruthValue	true(1) false(2)	Selects whether to overwrite the existing image files during boot image setting.	As per the MIB.
hh3cSysSetBootImageRemoveIpeFile (1.3.6.1.4.1.25506.2.3.1.9.1.3)	read-write	TruthValue	true(1) false(2)	Selects whether to delete the specified IPE file after boot image setting.	As per the MIB.
hh3cSysSetBootImageStatus (1.3.6.1.4.1.25506.2.3.1.9.1.4)	read-only	INTEGER	none(1) doing(2) success(3) failed(4)	Status of boot image setting operation or boot image loading operation.	As per the MIB.
hh3cSysSetBootImageFailedReason	read-only	DisplayString	OCTET STRING (0..255)	Failure reason for boot image setting	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
n (1.3.6.1.4.1.25506 .2.3.1.9.1.5)				or boot image loading.	

Tabular objects

hh3cSysCurTable

About this table

This table contains information about the current system configuration file, device software, and bootrom files.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSysCurEntPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysCurEntPhysicalIndex (1.3.6.1.4.1.25506 .2.3.1.2.1.1.1)	not-accessible	Integer32	Integer32 (0..2147483647)	Device entity index.	As per the MIB.
hh3cSysCurCFGFileIndex (1.3.6.1.4.1.25506 .2.3.1.2.1.1.2)	read-only	Integer32	Integer32 (0..2147483647)	Configuration file index.	As per the MIB.
hh3cSysCurImageIndex (1.3.6.1.4.1.25506 .2.3.1.2.1.1.3)	read-only	Integer32	Integer32 (0..2147483647)	Image file index.	Not supported
hh3cSysCurBtmFileName (1.3.6.1.4.1.25506 .2.3.1.2.1.1.4)	read-only	OCTET STRING	OCTET STRING (1..64)	Name of the current bootrom file.	Not supported
hh3cSysCurUpdateBtmFileName (1.3.6.1.4.1.25506 .2.3.1.2.1.1.5)	read-only	OCTET STRING	OCTET STRING (1..64)	Name of the bootrom file after the upgrade. The bootrom file will be used for the next boot.	Not supported

hh3cSysReloadScheduleTable

About this table

This table specifies reboot entries for device reboot.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

You must specify hh3cSysReloadScheduleIndex, hh3cSysReloadEntity, and hh3cSysReloadRowStatus when you create a row. hh3cSysReloadEntity must be a valid entity. The entity index from hh3cSysReloadScheduleIndex must be the same with the index of hh3cSysReloadEntity.

An entity supports only one reload table. Entries in Active status are not configurable.

Columns

The table index is hh3cSysReloadScheduleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysReloadScheduleIndex (1.3.6.1.4.1.25506.2.3.1.3.3.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of the hh3cSysReloadScheduleTable.	As per the MIB.
hh3cSysReloadEntity (1.3.6.1.4.1.25506.2.3.1.3.3.1.2)	read-create	Integer32	Integer32 (0..2147483647)	Entry in entPhysicalTable, which is the entity to be reloaded.	As per the MIB.
hh3cSysReloadConfigFile (1.3.6.1.4.1.25506.2.3.1.3.3.1.3)	read-create	Integer32	Integer32 (0..2147483647)	Entry in hh3cSysImageFileTable.	The value 0 indicates that the entity does not specify the next-startup configuration files.
hh3cSysReloadImage (1.3.6.1.4.1.25506.2.3.1.3.3.1.4)	read-create	Integer32	Integer32 (0..2147483647)	Entry in hh3cSysCFGFileTable.	Not supported
hh3cSysReloadReason (1.3.6.1.4.1.25506.2.3.1.3.3.1.5)	read-create	DisplayString	OCTET STRING (0..255)	Reason for system reloading.	As per the MIB.
hh3cSysReloadScheduleTime (1.3.6.1.4.1.25506.2.3.1.3.3.1.6)	read-create	DateAndTime	OCTET STRING (8)	Time when the reload action will occur.	As per the MIB.
hh3cSysReloadRowStatus (1.3.6.1.4.1.25506.2.3.1.3.3.1.7)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	As per the MIB.
hh3cSysReloadScheduleTagList (1.3.6.1.4.1.25506.2.3.1.3.3.1.8)	read-create	SnmpTagList	OCTET STRING (0..255)	Tag list for the entry.	If the value of hh3cSysReloadSchedule is valid, the value of hh3cSysReloadScheduleTagList is ignored.

hh3cSysCFGFileTable

About this table

This table contains information about the configuration files of the system, including file names and file sizes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSysCFGFileIndex.

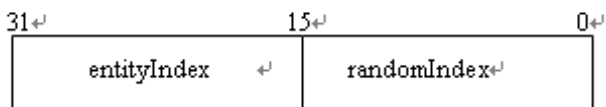
Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysCFGFileIndex (1.3.6.1.4.1.25506.2.3.1.5.2.1.1)	not-accessible	Integer32	Integer32 (0..2147483647)	Configuration file index.	As per the MIB.
hh3cSysCFGFileName (1.3.6.1.4.1.25506.2.3.1.5.2.1.2)	read-only	DisplayString	OCTET STRING (0..255)	Configuration file name.	As per the MIB.
hh3cSysCFGFileSize (1.3.6.1.4.1.25506.2.3.1.5.2.1.3)	read-only	Integer32	Integer32 (1..2147483647)	Configuration file size.	As per the MIB.
hh3cSysCFGFileLocation (1.3.6.1.4.1.25506.2.3.1.5.2.1.4)	read-only	DisplayString	OCTET STRING (0..255)	Configuration file path.	As per the MIB.

hh3cSysBtmLoadTable

About this table

This table upgrades bootrom and contains information about bootrom upgrade records, including bootrom file names, result of the upgrade operation, and upgrading time.

This table index consists of the two parts as shown in the following figure:



The value of entityIndex is entPhysicalIndex, which is the entity index of entPhysicalClass as module. The value of randomIndex is determined by users. The value of hh3cSysBtmLoadIndex is calculated as follows:

$hh3cSysBtmLoadIndex = (entityIndex \ll 16) \mid randomIndex$

For example, a file in flash:/boot.bin path is a valid bootrom file, the value of entPhysicalIndex is 2 for the current operating MPU, and the random index specified by users is 1. Then, the value of hh3cSysBtmLoadIndex is 131073. To create an entry based on the above information, you must configure the entry settings as follows:

hh3cSysBtmFileName.131073 = "flash:/boot.bin"

hh3cSysBtmFileType.131073 = 'main(1)'

hh3cSysBtmRowStatus.131073 = 'createAndGo'

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

You must specify hh3cSysBtmFileName, hh3cSysBtmFileType, and hh3cSysBtmRowStatus when you create a row.

A file specified by hh3cSysBtmFileName must exist and be valid. You must set hh3cSysBtmFileType to **main** and hh3cSysBtmRowStatus to **CreateAndGo**.

Columns

The table index is hh3cSysBtmLoadIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBtmLoadIndex (1.3.6.1.4.1.25506.2.3.1.6.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Table index, consisting of two parts, high 16 bits and low 16 bits.	As per the MIB.
hh3cSysBtmFileName (1.3.6.1.4.1.25506.2.3.1.6.2.1.2)	read-create	OCTET STRING	OCTET STRING (1..64)	Bootrom file for the next boot.	As per the MIB.
hh3cSysBtmFileType (1.3.6.1.4.1.25506.2.3.1.6.2.1.3)	read-create	INTEGER	main(1) none(2)	Type of the bootrom file for the next boot.	As per the MIB. For the indexes with the same high 16 bits, this object can only be main(1). If the object is none(2), the corresponding bootrom file cannot be used for the next boot.
hh3cSysBtmRowStatus (1.3.6.1.4.1.25506.2.3.1.6.2.1.4)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	As per the MIB. An existing entry cannot be modified.
hh3cSysBtmErrorStatus (1.3.6.1.4.1.25506.2.3.1.6.2.1.5)	read-only	INTEGER	invalidFile(1) inProgress(2) success(3) failed(4)	Entry creation status, which indicates an entry is being created, has been created, or failed to be created.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBtmLoadTime (1.3.6.1.4.1.25506.2.3.1.6.2.1.6)	read-only	TimeTicks	Standard MIB values.	Entry creation time.	As per the MIB.

hh3cSysPackageTable

About this table

This table contains information about package files of the operating system, including basic package file information and operations on package files.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cSysPackageIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysPackageIndex (1.3.6.1.4.1.25506.2.3.1.7.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Table index.	As per the MIB.
hh3cSysPackageName (1.3.6.1.4.1.25506.2.3.1.7.2.1.2)	read-only	DisplayString	OCTET STRING (0..255)	Package file name.	As per the MIB.
hh3cSysPackageSize (1.3.6.1.4.1.25506.2.3.1.7.2.1.3)	read-only	Unsigned32	Unsigned32 (1..4294967295)	Package file size, in bytes.	As per the MIB.
hh3cSysPackageLocation (1.3.6.1.4.1.25506.2.3.1.7.2.1.4)	read-only	DisplayString	OCTET STRING (0..255)	Package file path.	As per the MIB.
hh3cSysPackageType (1.3.6.1.4.1.25506.2.3.1.7.2.1.5)	read-only	INTEGER	boot(1) system(2) feature(3) patch(4)	Type of the package file.	As per the MIB.
hh3cSysPackageAttribute (1.3.6.1.4.1.25506.2.3.1.7.2.1.6)	read-write	INTEGER	none(1) primary(2) secondary(3) primarySecondary(4)	Attribute of the package file.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysPackageStatus (1.3.6.1.4.1.25506.2.3.1.7.2.1.7)	read-only	INTEGER	active(1) inactive(2)	Status of the package file.	As per the MIB.
hh3cSysPackageDescription (1.3.6.1.4.1.25506.2.3.1.7.2.1.8)	read-only	DisplayString	OCTET STRING (0..255)	Description of the package file.	As per the MIB.
hh3cSysPackageFeature (1.3.6.1.4.1.25506.2.3.1.7.2.1.9)	read-only	DisplayString	OCTET STRING (0..255)	Feature of the package file.	As per the MIB.
hh3cSysPackageVersion (1.3.6.1.4.1.25506.2.3.1.7.2.1.10)	read-only	DisplayString	OCTET STRING (0..255)	Version of the package file.	As per the MIB.
hh3cSysPackageLoadAttribute (1.3.6.1.4.1.25506.2.3.1.7.2.1.11)	read-create	INTEGER	none(1) primary(2) secondary(3) primarySecondary(4)	Load attribute of the package file.	Supports only none(1) and primary(2).
hh3cSysPackageModel (1.3.6.1.4.1.25506.2.3.1.7.2.1.12)	read-only	DisplayString	OCTET STRING (0..63)	Device type of the package file.	As per the MIB.

hh3cSysPackageOperateTable

About this table

This table manages package files.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

You must specify hh3cSysPackageOperateIndex, hh3cSysPackageOperateIndex, hh3cSysPackageOperateStatus, and hh3cSysPackageOperateRowStatus when you create a row. The package file specified by hh3cSysPackageOperateIndex must be a valid feature package.

Columns

The table index is hh3cSysPackageOperateIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysPackageOperateIndex (1.3.6.1.4.1.25506.2.3.1.7.4.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Entry index.	As per the MIB.
hh3cSysPackageOperatePackIndex	read-create	Integer32	Integer32	Index of the specified package	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
x (1.3.6.1.4.1.25506.2.3.1.7.4.1.2)			(1..2147483647)	file.	
hh3cSysPackageOperateStatus(1.3.6.1.4.1.25506.2.3.1.7.4.1.3)	read-create	INTEGER	active(1) inactive(2)	Activation or deactivation of the package file.	As per the MIB.
hh3cSysPackageOperateRowStatus(1.3.6.1.4.1.25506.2.3.1.7.4.1.4)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	As per the MIB.
hh3cSysPackageOperateResult(1.3.6.1.4.1.25506.2.3.1.7.4.1.5)	read-only	INTEGER	opInProgress(1) opSuccess(2) opUnknownFailure(3) opInvalidFile(4) opNotSupport(5)	Operation result.	As per the MIB.

hh3cSysIpeFileTable

About this table

This table contains information about IPE files.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSysIpeFileIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysIpeFileIndex (1.3.6.1.4.1.25506.2.3.1.8.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of an IPE file.	As per the MIB.
hh3cSysIpeFileName (1.3.6.1.4.1.25506.2.3.1.8.2.1.2)	read-only	DisplayString	OCTET STRING (0..255)	IPE file name.	As per the MIB.
hh3cSysIpeFileSize (1.3.6.1.4.1.25506.2.3.1.8.2.1.3)	read-only	Unsigned32	Unsigned32 (1..4294967295)	IPE file size, in bytes.	As per the MIB.
hh3cSysIpeFileLocation (1.3.6.1.4.1.25506.2.3.1.8.2.1.4)	read-only	DisplayString	OCTET STRING	IPE file path.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.3.1.8.2.1.4)			(0..255)		
hh3cSysIpeFileModel (1.3.6.1.4.1.25506.2.3.1.8.2.1.5)	read-only	SnmpTagList	OCTET STRING (0..255)	Device model in the IPE file.	As per the MIB.

hh3cSysIpePackageTable

About this table

This table contains information about packages in IPE files.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are hh3cSysIpeFileIndex and hh3cSysIpePackageIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysIpePackageIndex (1.3.6.1.4.1.25506.2.3.1.8.3.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	IPE package index.	As per the MIB.
hh3cSysIpePackageName (1.3.6.1.4.1.25506.2.3.1.8.3.1.2)	read-only	DisplayString	OCTET STRING (0..255)	Package file name.	As per the MIB.
hh3cSysIpePackageSize (1.3.6.1.4.1.25506.2.3.1.8.3.1.3)	read-only	Unsigned32	Unsigned32 (1..4294967295)	Package file size, in bytes.	As per the MIB.
hh3cSysIpePackageType (1.3.6.1.4.1.25506.2.3.1.8.3.1.4)	read-only	INTEGER	boot(1) system(2) feature(3) patch(4)	Type of the package file.	As per the MIB.
hh3cSysPackageDescription (1.3.6.1.4.1.25506.2.3.1.8.3.1.5)	read-only	DisplayString	OCTET STRING (0..255)	Description of the package file.	As per the MIB.
hh3cSysIpePackageFeature (1.3.6.1.4.1.25506.2.3.1.8.3.1.6)	read-only	DisplayString	OCTET STRING (0..255)	Feature of the package file.	As per the MIB.
hh3cSysIpePackageVersion (1.3.6.1.4.1.25506.2.3.1.8.3.1.7)	read-only	DisplayString	OCTET STRING (0..255)	Version of the package file.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysIpePackageModel (1.3.6.1.4.1.25506.2.3.1.8.3.1.8)	read-only	DisplayString	OCTET STRING (0..63)	Device type of the package file.	As per the MIB.

hh3cSysIpeFileOperateTable

About this table

This table manages IPE files.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

You must specify hh3cSysIpeFileOperateIndex, hh3cSysIpeFileOperateAttribute, and hh3cSysIpeFileOperateRowStatus when you create a row.

Columns

The table index is hh3cSysIpeFileOperateIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysIpeFileOperateIndex (1.3.6.1.4.1.25506.2.3.1.8.4.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Entry index.	If the entity index is 1, IPE files will be decompressed to the active MPU.
hh3cSysIpeFileOperateFileIndex (1.3.6.1.4.1.25506.2.3.1.8.4.1.2)	read-create	Integer32	Integer32 (1..2147483647)	Index of an IPE file.	The value of this object is an instance index in hh3cSysIpeFileTable.
hh3cSysIpeFileOperateAttribute (1.3.6.1.4.1.25506.2.3.1.8.4.1.3)	read-create	INTEGER	none(1) primary(2) secondary(3) primarySecondary(4)	Attribute of the IPE file.	As per the MIB.
hh3cSysIpeFileOperateRowStatus (1.3.6.1.4.1.25506.2.3.1.8.4.1.4)	read-create	INTEGER	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	As per the MIB.
hh3cSysIpeFileOperateResult (1.3.6.1.4.1.25506.2.3.1.8.4.1.5)	read-only	INTEGER	opInProgress(1) opSuccess(2) opUnknownFailure(3) opInvalidFile(4) opDeviceFull(5)	Operation result.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			opFileOpenError(6)		

hh3cSysBootPackageTable

About this table

This table specifies boot images.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

The value of hh3cSysBootPackageIndex must exist in hh3cSysPackageTable when you create a row. Before specifying boot images, make sure hh3cSysBootIpeTable is empty.

Columns

The table index is hh3cSysBootPackageIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBootPackageIndex (1.3.6.1.4.1.25506.2.3.1.9.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Table index.	Same with the index of a package file in hh3cSysPackageTable.
hh3cSysBootPackageRowStatus (1.3.6.1.4.1.25506.2.3.1.9.2.1.2)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3cSysBootIpeTable

About this table

This table specifies IPE files for startup.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

The value of hh3cSysBootIpeIndex must exist in hh3cSysIpeFileTable when you create a row. Before specifying IPE files, make sure hh3cSysBootPackageTable is empty.

Columns

The table index is hh3cSysBootIpeIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBootIpeIndex (1.3.6.1.4.1.25506.2.3.1.9.3.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	IPE file index.	Same with the index of an IPE file in hh3cIpeFileTable.
hh3cSysBootIpeRowStatus (1.3.6.1.4.1.25506.2.3.1.9.3.1.2)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3cSysSetBootImageResultTable

About this table

This table contains operation result of setting boot images. To clear the records in this table, set hh3cSysSetBootImageAction to **done(2)**.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSysSetBootImageResultIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysSetBootImageResultIndex (1.3.6.1.4.1.25506.2.3.1.9.4.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Table index.	Same with the entity index of the device.
hh3cSysSetBootImageResultStatusOfEachCard (1.3.6.1.4.1.25506.2.3.1.9.4.1.2)	read-only	INTEGER	none(1) doing(2) success(3) failed(4)	Operation status.	As per the MIB.
hh3cSysSetBootImageFailedReasonOfEachCard (1.3.6.1.4.1.25506.2.3.1.9.4.1.3)	read-only	DisplayString	OCTET STRING (0..255)	Failure reason.	As per the MIB.

Notifications

The following information describes the notifications included in the HH3C-SYS-MAN-MIB module.

hh3cSysClockChangedNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.3.2.1	System time change	Informational	Warning	-	ON

Description

This notification is generated when the system time is modified manually by the administrators, or is modified automatically by the clock protocol.

Status control

ON

CLI: Use the `snmp-agent trap enable system` command.

OFF

CLI: Use the `undo snmp-agent trap enable system` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.3.1.1.1 (hh3cSysLocalClock)	System time after modification	No	DateAndTime	OCTET STRING (SIZE (8 11))

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that the timing configuration at the back end is correct.
2. Modify the timing program that has been automatically invalid.

hh3cSysReloadNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.3.2.2	The system reboot policy took effect or changed	Informational	Warning	-	ON

Description

This notification is generated when the reboot schedule configuration is to take effect or becomes invalid because of system time change.

Status control

ON

CLI: Use the `snmp-agent trap enable system` command.

OFF

CLI: Use the `undo snmp-agent trap enable system` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.3.1.3.3.1.4 (hh3cSysReloadImage)	Image file used by the system reboot policy.	No	Integer32	0..2147483647
1.3.6.1.4.1.25506.2.3.1.3.3.1.3 (hh3cSysReloadCfgFile)	Configuration file used by the system reboot policy.	No	Integer32	0..2147483647
1.3.6.1.4.1.25506.2.3.1.3.3.1.5 (hh3cSysReloadReason)	Reason for system reboot.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.3.1.3.3.1.6 (hh3cSysReloadScheduleTime)	Scheduled time at which the system reboot occurs.	No	DateAndTime	OCTET STRING (SIZE (8))
1.3.6.1.4.1.25506.2.3.1.3.2 (hh3cSysReloadAction)	Reload action of the system reboot policy.	No	INTEGER	reloadUnavailable(1) reloadOnSchedule(2) reloadAtOnce(3) reloadCancel(4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. If the system reboot policy is to take effect, wait for the system to reboot.
2. If this notification is generated because of system time change, reconfigure the reboot schedule based on the new system time.

hh3cSysStartUpNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.3.2.3	A system software image file became invalid	Informational	Warning	-	ON

Description

This alarm occurs when the system fails to boot with the main packages or IPE files and boots with the backup packages or IPE files. The main packages or IPE files might be incompatible with the device.

Status control

ON

CLI: Use the `snmp-agent trap enable system` command.

OFF

CLI: Use the `undo snmp-agent trap enable system` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.3.1.4.2.1.5 (hh3cSysImageType)	Type of the system software image files	No	INTEGER	backup(2)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that the system software image files are correct.
2. If the issue persists, contact H3C Support.

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HH3C-UI-MAN-MIB

About this MIB

Use this MIB to define alarms on user authentication. This MIB also contains notifications about user login changes.

MIB file name

hh3c-ui-man.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cUIMgt(2)

Scalar objects

hh3cTerminalUserName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTerminalUserName (1.3.6.1.4.1.25506.2.2.1.1.2.1)	accessible-for-notification	DisplayString	Standard MIB values.	Name of a login user.	As per the MIB.

hh3cTerminalSource

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTerminalSource (1.3.6.1.4.1.25506.2.2.1.1.2.2)	accessible-for-notification	DisplayString	Standard MIB values.	Login method, including Console, AUX, TTY, and VTY.	As per the MIB.

hh3cTerminalUserAuthFailureReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTerminalUserAuthFailureReason (1.3.6.1.4.1.25506.2.2.1.1.2.3)	accessible-for-notification	INTEGER	exceedRetries(1) authTimeout(2) otherReason(3)	Failure reason for user authentication.	As per the MIB.

hh3cVtyCurrentVty

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVtyCurrentVty	accessible-for-notification	Unsigned32	Standard MIB	Number of used	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
y (1.3.6.1.4.1.25506 .2.2.1.1.2.4)	fy		values.	VTY lines.	

hh3cVtyMaxVty

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVtyMaxVty (1.3.6.1.4.1.25506 .2.2.1.1.2.5)	accessible-for-noti fy	Unsigned32	Standard MIB values.	Maximum number of VTY lines that the system allows users to log in to concurrently.	As per the MIB.

hh3cVtyThreshold

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVtyThreshold (1.3.6.1.4.1.25506 .2.2.1.1.2.6)	accessible-for-noti fy	Unsigned32	Standard MIB values.	VTY usage alarm threshold.	As per the MIB.

Notifications

The following information describes the notifications included in the HH3C-UI-MAN-MIB module.

hh3cLogIn

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.2.1.1.3.0.1	User login	Informational	-	-	ON

Description

This notification is generated when a user logs in to the system.

Status control

This alarm cannot be cleared.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.2.1.1.2.1 (hh3cTerminalUserName)	Username.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.2.1.1.2.2 (hh3cTerminalSource)	User line, including console, AUX, TTY, and VTY.	No	DisplayString	OCTET STRING (SIZE (0..255))

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cLogOut

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.2.1.1.3.0.2	User logout	Informational	-	-	ON

Description

This notification is generated when a user logs out of the system.

Status control

This alarm cannot be cleared.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.2.1.1.2.1 (hh3cTerminalUserName)	Username.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.2.1.1.2.2 (hh3cTerminalSource)	User line, including AUX, TTY, and VTY.	No	DisplayString	OCTET STRING (SIZE (0..255))

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cLogInAuthenFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.2.1.1.3.0.3	User authentication failed	Informational	-	-	ON

Description

This notification is generated when a user failed to log in to the system.

Status control

This alarm cannot be cleared.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.2.1.1.2.1 (hh3cTerminalUserName)	Username.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.2.1.1.2.2 (hh3cTerminalSource)	User line, including AUX, TTY, and VTY.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.2.1.1.2.3 (hh3cTerminalUserAuthFailureReason)	Failure reason for user authentication.	No	INTEGER	exceedRetries(1) authTimeout(2) otherReason(3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cVtyUsageExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.2.1.1.3.0.4	The number of used VTY lines reached or exceeded the alarm threshold.	Informational	-	-	ON

Description

This notification is generated when the number of used VTY lines reaches or exceeds the alarm threshold.

Status control

This alarm cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.2.1.1.2.4 (hh3cVtyCurrentVty)	Number of used VTY lines.	No	Integer	Standard MIB values.

1.3.6.1.4.1.25506.2.2.1.1.2.5 (hh3cVtyMaxVty)	Maximum number of VTY lines that the system allows users to log in to concurrently.	No	Integer	Standard MIB values.
1.3.6.1.4.1.25506.2.2.1.1.2.6 (hh3cVtyThreshold)	VTY usage alarm threshold.	No	Integer	Standard MIB values.

Recommended action

Release user lines.

hh3cVtyUsageResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.2.1.1.3.0.5	VTY usage alarm was cleared.	Informational	-	-	ON

Description

This notification is generated when the number of used VTY lines drops below the VTY usage alarm threshold.

Status control

This alarm cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.2.1.1.2.4 (hh3cVtyCurrentVty)	Number of used VTY lines.	No	Integer	Standard MIB values.
1.3.6.1.4.1.25506.2.2.1.1.2.5 (hh3cVtyMaxVty)	Maximum number of VTY lines that the system allows users to log in to concurrently.	No	Integer	Standard MIB values.
1.3.6.1.4.1.25506.2.2.1.1.2.6 (hh3cVtyThreshold)	VTY usage alarm threshold.	No	Integer	Standard MIB values.

Recommended action

No action is required.

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RFC1213-MIB

About this MIB

The protocol-related objects and tables defined in this MIB are redefined and replaced by protocol-specific MIBs as follows:

- For information about interfaces, see the IF-MIB MIB document.
- For information about IP and ICMP, see the IP-MIB MIB document.
- For information about TCP, see the TCP-MIB MIB document.
- For information about UDP, see the UDP-MIB MIB document.
- For information about SNMP, see the SNMPv2-MIB MIB document.

MIB file name

rfc1213.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).system(1)

Scalar objects

sysDescr

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysDescr (1.3.6.1.2.1.1.1)	read-only	DisplayString	OCTET STRING (0..255)	A textual description of the entity.	Implementation varies by product.

sysObjectID

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysObjectID (1.3.6.1.2.1.1.2)	read-only	OBJECT IDENTIFIER	Standard MIB values.	The vendor's authoritative identification of the network management subsystem contained in the entity.	Implementation varies by product.

sysUpTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysUpTime (1.3.6.1.2.1.1.3)	read-only	TimeTicks	Standard MIB values.	The time (in hundredths of a second) since the network management portion of the system was last re-initialized.	As per the MIB.

sysContact

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysContact (1.3.6.1.2.1.1.4)	read-write	DisplayString	OCTET STRING (0..255)	The textual identification of the contact person for this managed node, together with information how to contact this person.	Implementation varies by product. Restores the default value by setting a zero-length string.

sysName

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysName (1.3.6.1.2.1.1.5)	read-write	DisplayString	OCTET STRING (0..255)	An administratively-assigned name for this managed node.	Implementation varies by product. A valid name is a string of 1 to 64 characters.

sysLocation

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysLocation (1.3.6.1.2.1.1.6)	read-write	DisplayString	OCTET STRING (0..255)	The physical location of this device.	Implementation varies by product. Restores the default value by setting a zero-length string.

sysServices

Object (OID)	Access	Syntax	Value range	Description	Implementation
sysServices (1.3.6.1.2.1.1.7)	read-only	Integer32	INTEGER (0..127)	A value which indicates the set of services that this entity primarily offers.	<p>The value is calculated as follows:</p> $78 (2^{(2-1)} + 2^{(3-1)} + 2^{(4-1)} + 2^{(7-1)})$ <p>Layer functionality:</p> <ul style="list-style-type: none">• 2—Datalink/subnetwork (such as bridges)• 3—Internet (such as IP gateways).• 4—End-to-end (such as TCP).• 7—Applications (such as SMTP).

Tabular objects

atTable

About this table

This table contains information about ARP entries.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are atIfIndex and atNetAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
atIfIndex (1.3.6.1.2.1.3.1.1.1)	read-write	INTEGER	Standard MIB values.	The interface on which this entry's equivalence is effective.	Supports only the read operation.
atPhysAddress (1.3.6.1.2.1.3.1.1.2)	read-write	PhysAddress	Standard MIB values.	The media-dependent physical address.	Supports only the read operation.
atNetAddress (1.3.6.1.2.1.3.1.1.3)	read-write	Network Address	Standard MIB values.	The network address (for example, the IP address) corresponding to the media-dependent physical address.	Supports only the read operation.

ipRouteTable

About this table

This table contains information about IP routes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipRouteDest.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipRouteDest(1.3.6.1.2.1.4.21.1.1)	read-write	IpAddress	OCTET STRING (4)	The destination IP address of this route.	Supports only the read operation.
ipRouteIfIndex(1.3.6.1.2.1.4.21.1.2)	read-write	INTEGER	Standard MIB values.	The index value which uniquely identifies the local interface through which the next hop of this route should be reached.	Supports only the read operation.
ipRouteMetric1(1.3.6.1.2.1.4.21.1.3)	read-write	INTEGER	Standard MIB values.	The primary routing metric for this route.	Supports only the read operation.
ipRouteMetric2(1.3.6.1.2.1.4.21.1.4)	read-write	INTEGER	Standard MIB values.	An alternate routing metric for this route.	Supports only the read operation.
ipRouteMetric3(1.3.6.1.2.1.4.21.1.5)	read-write	INTEGER	Standard MIB values.	An alternate routing metric for this route.	Supports only the read operation.
ipRouteMetric4(1.3.6.1.2.1.4.21.1.6)	read-write	INTEGER	Standard MIB values.	An alternate routing metric for this route.	Supports only the read operation.
ipRouteNextHop(1.3.6.1.2.1.4.21.1.7)	read-write	IpAddress	OCTET STRING (4)	The IP address of the next hop of this route.	Supports only the read operation.
ipRouteType(1.3.6.1.2.1.4.21.1.8)	read-write	INTEGER	INTEGER {other(1), invalid(2), direct(3), indirect(4)}	The type of route.	Supports only the read operation.
ipRouteProto(1.3.6.1.2.1.4.21.1.9)	read-only	INTEGER	INTEGER {other(1), local(2), netmgmt(3), icmp(4), egp(5), ggp(6), hello(7), rip(8), is-is(9), es-is(10), ciscoIgrp(11), bbnSpflgp(12), ospf(13), bgp(14)}	The routing mechanism via which this route was learned.	As per the MIB.
ipRouteAge(1.3.6.1.2.1.4.21.1.10)	read-write	INTEGER	Standard MIB values.	The number of seconds since this route was last updated or otherwise determined to be	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				correct.	
ipRouteMask(1.3.6.1.2.1.4.21.1.11)	read-write	IpAddress	OCTET STRING (4)	Indicates the mask to be logical-ANDed with the destination address before being compared to the value for the ipRouteDest object.	Supports only the read operation.
ipRouteMetric5(1.3.6.1.2.1.4.21.1.12)	read-write	INTEGER	Standard MIB values.	An alternate routing metric for this route.	Supports only the read operation.
ipRouteInfo(1.3.6.1.2.1.4.21.1.13)	read-only	OBJECT IDENTIFIER	Standard MIB values.	A reference to MIB definitions specific to the particular routing protocol which is responsible for this route, as determined by the value specified in the route's ipRouteProto value.	As per the MIB.

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HH3C-LICENSE-MIB

About this MIB

Use this MIB to manage the feature licenses on the device.

MIB file name

hh3c-license.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cLicense(145)

Scalar objects

hh3cLicenseNotifyEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseNotifyEnable (1.3.6.1.4.1.25506.2.145.1.1)	read-write	TruthValue	true(1), false(2)	Enables or disables all license module notifications.	As per the MIB.

hh3cLicenseOpEntryMaxNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseOpEntryMaxNum (1.3.6.1.4.1.25506.2.145.1.2)	read-write	Unsigned 32	Unsigned 32 (1..20)	Maximum number of entries can be recorded in hh3cLicenseOpTable.	As per the MIB.

hh3cLicenseNextFreeOpIndex

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseNextFreeOpIndex (1.3.6.1.4.1.25506.2.145.1.3)	read-only	Unsigned 32	Standard MIB values.	The hh3cLicenseOpIndex	As per the MIB.

				appropriate value used for creating an entry in hh3cLicenseOpTable.	
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hh3cLicenseBindValidityPeriodRemaining

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseBindValidityPeriodRemaining (1.3.6.1.4.1.25506.2.145.3.1.1)	accessible-for-notify	Unsigned 32	Standard MIB values.	Remaining days before a license expires.	As per the MIB.

Tabular objects

hh3cLicenseDevInfoTable

About this table

This table displays the device SN and DID information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cLicensePhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicensePhysicalIndex (1.3.6.1.4.1.25506.2.145.2.1.1.2)	accessible-for-notify	Physical index	Standard MIB values.	Index of hh3cLicenseDevInfoTable, depending on entPhysicalIndex in the ENTITY-MIB module.	As per the MIB.
hh3cLicenseSN (1.3.6.1.4.1.25506.2.145.2.1.1.2)	read-only	SnmpAdminString	OCTET STRING(0..255)	Device serial number.	As per the MIB.
hh3cLicenseDeviceIDType (1.3.6.1.4.1.25506.2.145.2.1.1.3)	read-only	INTEGER	INTEGER{invalid(1),	Type of device ID.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			keyString(2), file(3) }		
hh3cLicenseDeviceID (1.3.6.1.4.1.25506.2.145.2.1.1.4)	read-only	SnmpAdminString	OCTET STRING(0..255)	Device ID.	As per the MIB.
hh3cLicenseHardwareInfo (1.3.6.1.4.1.25506.2.145.2.1.1.5)	read-only	SnmpAdminString	OCTET STRING(0..255)	Device hardware information.	As per the MIB.
hh3cLicenseMaxNum (1.3.6.1.4.1.25506.2.145.2.1.1.6)	read-only	Unsigned 32	Standard MIB values.	Maximum number of licenses that can be installed on the device.	As per the MIB.
hh3cLicenseUsedNum (1.3.6.1.4.1.25506.2.145.2.1.1.7)	read-only	Unsigned 32	Standard MIB values.	Number of installed licenses.	As per the MIB.
hh3cLicenseRecyclableNum (1.3.6.1.4.1.25506.2.145.2.1.1.8)	read-only	Unsigned 32	Standard MIB values.	Number of recyclable storage for licenses.	As per the MIB.
hh3cLicenseInstallType (1.3.6.1.4.1.25506.2.145.2.1.1.9)	read-only	INTEGER	invalid(1), installInChassis(2), installInSlot(3), installInCPU(4)	Type of license installation.	As per the MIB.
hh3cLicenseFileStoragePath (1.3.6.1.4.1.25506.2.145.2.1.1.10)	read-only	SnmpAdminString	OCTET STRING(0..255)	Storage path of license files.	As per the MIB.

hh3cLicenseGeneralTable

About this table

This table displays the general license information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cLicenseIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseIndex (1.3.6.1.4.1.25506.2.145.2.2.1.1)	accessible-for-notify	Unsigned 32	Standard MIB values.	License ID.	As per the MIB.
hh3cLicenseFeature (1.3.6.1.4.1.25506.2.145.2.2.1.2)	read-only	SnmpAdminString	OCTET STRING(0..1024)	Name of a licensed feature.	As per the MIB.
hh3cLicenseProductDescr (1.3.6.1.4.1.25506.2.145.2.2.1.3)	read-only	OCTET STRING	OCTET STRING(0..1024)	Product description in the license.	As per the MIB.
hh3cLicenseFileDescr (1.3.6.1.4.1.25506.2.145.2.2.1.4)	read-only	SnmpAdminString	OCTET STRING(0..1024)	Description of a license file.	As per the MIB.
hh3cLicenseState (1.3.6.1.4.1.25506.2.145.2.2.1.5)	read-only	INTEGER	invalid(1), inuse(2), usable(3), expired(4), uninstalled(5), unusable(6)	State of an installed license.	As per the MIB.
hh3cLicenseActivationFile (1.3.6.1.4.1.25506.2.145.2.2.1.6)	read-only	SnmpAdminString	OCTET STRING(0..255)	Name of an installed activation file.	As per the MIB.
hh3cLicenseActivationKey (1.3.6.1.4.1.25506.2.145.2.2.1.7)	read-only	SnmpAdminString	OCTET STRING(0..255)	Installed activation key.	As per the MIB.
hh3cLicenseLicenseKey (1.3.6.1.4.1.25506.2.145.2.2.1.8)	read-only	SnmpAdminString	OCTET STRING(0..255)	Installed license key.	As per the MIB.
hh3cLicenseUninstActivationFile (1.3.6.1.4.1.25506.2.145.2.2.1.9)	read-only	SnmpAdminString	OCTET STRING(0..255)	Uninstall file.	As per the MIB.
hh3cLicenseUninstActivationKey (1.3.6.1.4.1.25506.2.145.2.2.1.10)	read-only	SnmpAdminString	OCTET STRING(0..255)	Uninstall key.	As per the MIB.
hh3cLicenseType (1.3.6.1.4.1.25506.2.145.2.2.1.11)	read-only	INTEGER	unknown(1), permanent(2), daysRestricted(3), trialDaysRestricted(4), dateRestricted(5), trialDateRestricted(6), countRestricted(7), trialCountRestricted(8)	License type by validity period.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseInstalledTime (1.3.6.1.4.1.25506.2.145.2.2.1.12)	read-only	DateAnd Time	Standard MIB values.	Time when a license was installed.	As per the MIB.
hh3cLicenseUninstalledTime (1.3.6.1.4.1.25506.2.145.2.2.1.13)	read-only	DateAnd Time	Standard MIB values.	Time when a license was uninstalled.	As per the MIB.
hh3cLicenseDaysLeft (1.3.6.1.4.1.25506.2.145.2.2.1.14)	read-only	Unsigned 32	Standard MIB values.	Remaining days of a license.	As per the MIB.
hh3cLicenseValidityStart (1.3.6.1.4.1.25506.2.145.2.2.1.15)	read-only	DateAnd Time	Standard MIB values.	Start date for a date-restricted license.	As per the MIB.
hh3cLicenseValidityEnd (1.3.6.1.4.1.25506.2.145.2.2.1.16)	read-only	DateAnd Time	Standard MIB values.	End date for a date-restricted license.	As per the MIB.
hh3cLicenseExpiredDays (1.3.6.1.4.1.25506.2.145.2.2.1.17)	read-only	Unsigned 32	Standard MIB values.	Expiration date for a date-restricted license.	As per the MIB.
hh3cLicenseCount (1.3.6.1.4.1.25506.2.145.2.2.1.18)	read-only	Unsigned 32	Standard MIB values.	Effective number of a quantity-based license.	As per the MIB.

hh3cLicenseFeatureTable

About this table

This table displays summary information about feature licenses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLicensePhysicalIndex and IMPLIED hh3cLicenseFeatureName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseFeatureName	read-only	SnmpAd	OCTET	Name of	As per the MIB.

(1.3.6.1.4.1.25506.2.145.2.3.1.1)		minString	STRING(1..31)	a licensed feature.	
hh3cLicenseFeatureState (1.3.6.1.4.1.25506.2.145.2.3.1.2)	read-only	INTEGER	notLicensed(1), trialLicense(2), formalLicense(3), serverLicense(4), preLicense(5)	Licensing state of the feature.	As per the MIB.

hh3cLicenseOpTable

About this table

This table is used to install or uninstall licenses.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cLicenseOpIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLicenseOpIndex (1.3.6.1.4.1.25506.2.145.2.4.1.1)	accessible-for-notify	Unsigned 32	Standard MIB values.	Operation ID.	As per the MIB.
hh3cLicenseOpPhysicalIndex (1.3.6.1.4.1.25506.2.145.2.4.1.2)	read-create	PhysicalIndexOrZero	Integer32	Entity index of an MPU or CPU for an operation, depending on entPhysicalIndex in the ENTITY-MIB module.	As per the MIB.
hh3cLicenseOpType (1.3.6.1.4.1.25506.2.145.2.4.1.3)	read-create	INTEGER	compress(1), delete(2), installActivationFile(3), installActivationKey(4), installLicenseKey(5), uninstallActivationFile(6), uninstallActivationKey(7), uninstallLicenseKey(8)	Operation type.	As per the MIB.
hh3cLicenseOpString (1.3.6.1.4.1.25506.2.145.2.4.1.4)	read-create	SnmpAdminString	OCTET STRING (0..255)	License key, activation key, or	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				activation file that was installed or uninstalled.	
hh3cLicenseOpNotifyEnable (1.3.6.1.4.1.25506.2.145.2.4.1.5)	read-create	TruthValue	true(1), false(2)	Enables or disables hh3cLicenseOpCompletion.	As per the MIB.
hh3cLicenseOpRowStatus (1.3.6.1.4.1.25506.2.145.2.4.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.
hh3cLicenseOpState (1.3.6.1.4.1.25506.2.145.2.4.1.7)	read-only	INTEGER	opInProgress(1), opSuccessful(2), opFailed(3)	Operation status.	As per the MIB.
hh3cLicenseOpFailedReason (1.3.6.1.4.1.25506.2.145.2.4.1.8)	read-only	SnmpAdminString	OCTET STRING (0..255)	Detailed cause of an operation failure.	As per the MIB.
hh3cLicenseOpEndTime (1.3.6.1.4.1.25506.2.145.2.4.1.9)	read-only	TimeTicks	OCTET STRING	System time when an operation was executed.	As per the MIB.

Notifications

The following information describes the notifications included in the HH3C-LICENSE-MIB module.

hh3cLicenseOpCompletion

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.145.3.0.1	Notification of license operation completion.	Informational	-	-	ON

Description

This notification is generated when a license operation was completed according to the requirements of the network management system (NMS).

The parameters in the notification are related to the executed operation. As a best practice, see NMS online help system for parameter descriptions.

Status control

ON

MIB: Set hh3cLicenseOpNotifyEnable to true(1)

OFF

MIB: Set hh3cLicenseOpNotifyEnable to false(2)

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.145.2.4.1.1 (hh3cLicenseOpIndex)	Operation ID.	Yes	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.145.2.4.1.2 (hh3cLicenseOpPhysicalIndex)	Entity index of an MPU or CPU for an operation, depending on entPhysicalIndex in the ENTITY-MIB module.	No	PhysicalIndexOrZero	Integer32 (0..2147483647)
1.3.6.1.4.1.25506.2.145.2.4.1.3 (hh3cLicenseOpType)	Operation type.	No	INTEGER	compress(1) delete(2) installActivationFile(3) installActivationKey(4) installLicenseKey(5) uninstallActivationFile(6) uninstallActivationKey(7) uninstallLicenseKey(8)
1.3.6.1.4.1.25506.2.145.2.4.1.4 (hh3cLicenseOpString)	License key, activation key, or activation file that was installed or uninstalled.	No	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.145.2.4.1.7 (hh3cLicenseOpState)	Operation status.	No	INTEGER	opInProgress(1) opSuccessful(2) opFailed(3)
1.3.6.1.4.1.25506.2.145.2.4.1.8 (hh3cLicenseOpFailedReason)	Detailed cause of an operation failure.	No	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

To resolve the issue:

1. Verify the license operation result.
2. If the issue persists, contact H3C Support.

hh3cLicenseActivationFileLost

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.145.3.0.2	Notification of activation file loss.	Fault Alarms	Major	1.3.6.1.4.1.25506.2.145.3.0.3(hh3cLi	ON

				censeActivationFileRestored)	
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Description

This notification is generated when an activation file was lost or damaged and will be issued continuously until the fault is solved.

Status control

ON

MIB: Set hh3cLicenseOpNotifyEnable to true(1)

OFF

MIB: Set hh3cLicenseOpNotifyEnable to false(2)

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.145.2.1.1.1 (hh3cLicensePhysicalIndex)	Index of hh3cLicenseDevInfoTable, depending on entPhysicalIndex in the ENTITY-MIB module.	Yes	PhysicalIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.145.2.2.1.6 (hh3cLicenseActivationFile)	Name of an installed activation file.	No	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

To resolve the issue:

1. Copy the backup activation file to the flash:/license directory to recover the license. If the backup activation file is lost or no activation file is backed up, contact H3C Support.
2. If the issue persists, contact H3C Support.

hh3cLicenseActivationFileRestored

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.145.3.0.3	Notification of successful activation file recovery.	Notification of recovery.	-	-	ON

Description

This notification is generated when an activation file was recovered successfully.

Status control

ON

MIB: Set hh3cLicenseOpNotifyEnable to true(1)

OFF

MIB: Set hh3cLicenseOpNotifyEnable to false(2)

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.145.2.1.1.1 (hh3cLicensePhysicalIndex)	Index of hh3cLicenseDevInfoTable, depending on entPhysicalIndex in the ENTITY-MIB module.	Yes	PhysicalIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.145.2.2.1.6 (hh3cLicenseActivationFile)	Name of an installed activation file.	No	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

No action is required.

hh3cLicenseExpired

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.145.3.0.4	Notification of license expiration.	Informational	Major	-	ON

Description

This notification is generated when a license expired.

Status control

ON

MIB: Set hh3cLicenseOpNotifyEnable to true(1)

OFF

MIB: Set hh3cLicenseOpNotifyEnable to false(2)

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.145.2.3.1.1 (hh3cLicenseFeatureName)	Name of a licensed feature.	No	SnmpAdminString	OCTET STRING (SIZE (1..31))
1.3.6.1.4.1.25506.2.145.2.3.1.2 (hh3cLicenseFeatureState)	Licensing state of the feature.	No	INTEGER	notLicensed(1) trialLicense(2) formalLicense(3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Install a new license. If you need to purchase a new license, contact H3C Support.
2. If the issue persists, contact H3C Support.

hh3cLicenseExpireWarning

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.145.3.0.5	A license is about to expire.	Informational	Warning	-	ON

Description

This notification is generated when a license is about to expire. The notification will be issued continuously until the notification condition is cleared.

Status control

ON

MIB: Set hh3cLicenseOpNotifyEnable to true(1)

OFF

MIB: Set hh3cLicenseOpNotifyEnable to false(2)

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.145.2.3.1.1 (hh3cLicenseFeatureName)	Name of a licensed feature.	No	SnmpAdminString	OCTET STRING (SIZE (1..31))
1.3.6.1.4.1.25506.2.145.2.3.1.2 (hh3cLicenseFeatureState)	Licensing state of the feature.	No	INTEGER	notLicensed(1) trialLicense(2) formalLicense(3)
1.3.6.1.4.1.25506.2.145.3.1.1 (hh3cLicenseBindValidityPeriodRemaining)	Remaining days before the license expires.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Install a new license before the license expires. If you need to purchase a new license, contact H3C Support.
2. If the issue persists, contact H3C Support.

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ENTITY-MIB

About this MIB

Use this MIB to manage types of physical entities in a device in a tree structure and relationships between these physical entities. Through this MIB, you can obtain the relationship structure between the physical entities on the device and the related data and status of the physical entities.

An entry index in entPhysicalTable is referred to as an entity index, which is assigned by the product. Each entity uniquely identifies a hardware option on the device, such as fans, power supplies, memory modules, CPUs, service modules, and ports.

A network manager obtains the physical entity arrangement and inclusion relationship on the device by calculating the instance values of entPhysicalContainedIn and entPhysicalParentRelPos in the entPhysicalTable. Doing so can avoid assigning physical entity indexes in depth-first or breadth-first order.

RFC 4133 obsoletes RFC 2737, and adds support for the CPU entity type.

This MIB also contains notifications about configuration changes.

MIB file name

rfc4133-entity.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).entityMIB(47)

Scalar objects

entLastChangeTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
entLastChangeTime (1.3.6.1.2.1.47.1.4.1)	read-only	TimeSta mp	Standard MIB values.	The value of sysUpTime at the time a conceptual row is created, modified, or deleted in this MIB.	As per the MIB.

Tabular objects

entPhysicalTable

About this table

This table contains information about physical entities, including entity indexes, names, serial numbers, version numbers, and manufacturing information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is entPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
entPhysicalIndex (1.3.6.1.2.1.47.1.1.1.1.1)	not-accessible	PhysicalIndex	Integer32 (1..2147483647)	The index for this entry.	As per the MIB.
entPhysicalDescr (1.3.6.1.2.1.47.1.1.1.1.2)	read-only	SnmpAdminString	OCTET STRING (0..255)	A textual description of the physical entity.	As per the MIB.
entPhysicalVendorType (1.3.6.1.2.1.47.1.1.1.1.3)	read-only	AutonomousType	OBJECT IDENTIFIER	An indication of the vendor-specific hardware type of the physical entity.	Implementation varies by product. The hardware types are defined in HH3C-ENTITY-VENDORTYPE-OID-MIB. An agent should set this object to an enterprise-specific registration identifier value indicating the specific equipment type in detail.
entPhysicalContainedIn (1.3.6.1.2.1.47.1.1.1.1.4)	read-only	PhysicalIndexOrZero	Integer32 (0..2147483647)	The value of entPhysicalIndex for the physical entity which contains this physical entity.	As per the MIB.
entPhysicalClass (1.3.6.1.2.1.47.1.1.1.1.5)	read-only	PhysicalClass	other(1), unknown(2), chassis(3), backplane(4), container(5), powerSupply(6), fan(7), sensor(8), module(9), port(10), stack(11), cpu(12)	An indication of the general hardware type of the physical entity.	As per the MIB.
entPhysicalParentRelPos (1.3.6.1.2.1.47.1.1.1.1.6)	read-only	Integer32	Integer32 (-1..2147483647)	An indication of the relative position of this child component among all its sibling components.	As per the MIB.
entPhysicalName (1.3.6.1.2.1.47.1.1.1.1.7)	read-only	SnmpAdminString	OCTET STRING (0..255)	The textual name of the physical entity.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
entPhysicalHardwareRev (1.3.6.1.2.1.47.1.1.1.1.8)	read-only	SnmpAd minString	OCTET STRING (0..255)	The vendor-specific hardware revision string for the physical entity.	As per the MIB.
entPhysicalFirmwareRev (1.3.6.1.2.1.47.1.1.1.1.9)	read-only	SnmpAd minString	OCTET STRING (0..255)	The vendor-specific firmware revision string for the physical entity.	As per the MIB.
entPhysicalSoftwareRev (1.3.6.1.2.1.47.1.1.1.1.10)	read-only	SnmpAd minString	OCTET STRING (0..255)	The vendor-specific software revision string for the physical entity.	As per the MIB.
entPhysicalSerialNum (1.3.6.1.2.1.47.1.1.1.1.11)	read-write	SnmpAd minString	OCTET STRING (0..32)	The vendor-specific serial number string for the physical entity.	Implementation varies by product.
entPhysicalMfgName (1.3.6.1.2.1.47.1.1.1.1.12)	read-only	SnmpAd minString	OCTET STRING (0..255)	The name of the manufacturer of this physical component.	As per the MIB.
entPhysicalModelName (1.3.6.1.2.1.47.1.1.1.1.13)	read-only	SnmpAd minString	OCTET STRING (0..255)	The vendor-specific model name identifier string associated with this physical component.	As per the MIB.
entPhysicalAlias (1.3.6.1.2.1.47.1.1.1.1.14)	read-write	SnmpAd minString	OCTET STRING (0..32)	Alias for the physical entity.	Implementation varies by product.
entPhysicalAssetID (1.3.6.1.2.1.47.1.1.1.1.15)	read-write	SnmpAd minString	OCTET STRING (0..32)	This object is a user-assigned asset tracking identifier (as specified by a network manager) for the physical entity and provides non-volatile storage of this information.	Implementation varies by product.
entPhysicalIsFRU (1.3.6.1.2.1.47.1.1.1.1.16)	read-only	TruthValu e	true(1), false(2)	This object indicates whether or not this physical entity is considered a field replaceable unit by the vendor.	As per the MIB.
entPhysicalMfgDate (1.3.6.1.2.1.47.1.1.1.1.17)	read-only	DateAnd Time	OCTET STRING (8	This object contains the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			11)	date of manufacturing of the managed entity.	
entPhysicalUris (1.3.6.1.2.1.47.1.1.1.18)	read-write	OCTET STRING	OCTET STRING (0..65535)	This object contains additional identification information about the physical entity.	Implementation varies by product.

entAliasMappingTable

About this table

This table contains zero or more rows, representing mappings of logical entity and physical component to external MIB identifiers.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are entPhysicalIndex and entAliasLogicalIndexOrZero.

Object (OID)	Access	Syntax	Value range	Description	Implementation
entAliasLogicalIndexOrZero (1.3.6.1.2.1.47.1.3.2.1.1)	not-accessible	Integer32	Integer32 (0..2147483647)	The value of this object identifies the logical entity that defines the naming scope for the associated instance of the entAliasMappingIdentifier object.	As per the MIB.
entAliasMappingIdentifier (1.3.6.1.2.1.47.1.3.2.1.2)	read-only	RowPointer	Standard MIB values.	The value of this object identifies a particular conceptual row associated with the indicated entPhysicalIndex and entLogicalIndex pair.	As per the MIB.

entPhysicalContainsTable

About this table

This table contains information about the container/containee relationships between physical entities.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are entPhysicalIndex and entPhysicalChildIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
entPhysicalChildIndex (1.3.6.1.2.1.47.1.3.3.1.1)	read-only	PhysicalIndex	Integer32 (1..2147483647)	The value of entPhysicalIndex for the contained physical entity.	As per the MIB.

Notifications

The following information describes the notifications included in the ENTITY-MIB module.

entConfigChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.47.2.0.1	The value of entLastChangeTime changed	Informational	Major	N/A	ON

Description

This notification is generated when an entity on the device, including cards, subcards, power supplies, fans, or storage controllers, is installed, removed, reset, or registered. It can be utilized by an NMS to trigger logical/physical entity table maintenance polls.

An agent should not generate more than one entConfigChange notification event in a given time interval (five seconds is the suggested default).

If additional configuration changes occur within the throttling period, then notification-events for these changes should be suppressed by the agent until the current throttling period expires.

An NMS should periodically check the value of entLastChangeTime to detect any missed entConfigChange notification-events.

Status control

This alarm cannot be cleared.

Objects

N/A

Recommended action

To resolve the issue:

1. Verify that the entity is operating correctly.
2. If this alarm is caused by an acknowledged manual operation, no action is required.

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HH3C-COMMON-SYSTEM-MIB

About this MIB

Use this MIB to perform basic operations on the device. For example, access this MIB to reboot the device, obtain basic system information such as reboot mode and system operating mode, and send poweroff alarms. This MIB also contains notifications about device operation changes.

MIB file name

hh3c-common-system.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cSystem(6)

Scalar objects

hh3cReboot

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cReboot (1.3.6.1.4.1.25506.6.7)	read-write	INTEGER	normal(0) , reboot(1)	Reboots the device.	As per the MIB.

hh3cSysBootType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBootType (1.3.6.1.4.1.25506.6.10)	read-only	INTEGER	coldStart(1), warmStart(2)	Boot mode of the system.	Implementation varies by the product.

hh3cSystemWorkingModeDefault

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSystemWorkingModeDefault (1.3.6.1.4.1.25506.6.14.2)	read-only	Integer32	Integer32 (1..2147483647)	Default system operating mode.	Implementation varies by product.

hh3cSystemWorkingModeCurrent

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSystemWorkingModeCurrent (1.3.6.1.4.1.25506.6.14.3)	read-only	Integer32	Integer32 (1..21474 83647)	Current system operating mode.	Implementation varies by product.

hh3cSystemWorkingModeNext

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSystemWorkingModeNext (1.3.6.1.4.1.25506.6.14.4)	read-write	Integer32	Integer32 (1..21474 83647)	The system operating mode for the next startup.	Implementation varies by product. For the modified operating mode to take effect, reboot the device, The new operating mode will take effect on the entire device.

hh3cSysFirstTrapTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysFirstTrapTime (1.3.6.1.4.1.25506.6.11.10)	accessible-for- notify	Timeticks	Standard MIB values.	Time when a trap is sent for the first time.	Implementation varies by product. Supports only some traps.

hh3cSysBannerMOTD

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSysBannerMOTD (1.3.6.1.4.1.25506.6.11.11)	read-write	OCTETS TRING	OCTET STRING (0..2000)	Banner message.	As per the MIB.

Tabular objects

hh3cSystemDiagInfoTable

About this table

This table creates diagnosis files for the system.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cSystemDiagInfoIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSystemDiagInfoIndex (1.3.6.1.4.1.25506.6.13.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Entry index.	As per the MIB.
hh3cSystemDiagInfoFilename (1.3.6.1.4.1.25506.6.13.1.2)	read-create	DisplayString	OCTET STRING (0..255)	Diagnosis file name.	As per the MIB. The system uses the default file name if you do not specify a file name during row creation.
hh3cSystemDiagInfoRowStatus (1.3.6.1.4.1.25506.6.13.1.3)	read-create	RowStatus	active(1),notInService(2),notReady(3),createAndGo(4),createAndWait(5),destroy(6)	Row status.	As per the MIB.
hh3cSystemDiagInfoOperationEndTime (1.3.6.1.4.1.25506.6.13.1.4)	read-only	TimeStamp	Standard MIB values.	Time when the operation was completed.	As per the MIB.
hh3cSystemDiagInfoOperationState (1.3.6.1.4.1.25506.6.13.1.5)	read-only	INTEGER	opInProgress(1),opSuccess(2),opFailure(3)	Operation status.	As per the MIB.
hh3cSystemDiagInfoOperationFailureReason (1.3.6.1.4.1.25506.6.13.1.6)	read-only	DisplayString	OCTET STRING (0..255)	Failure reason.	As per the MIB.

hh3cSystemWorkingModeTable

About this table

This table contains information about the system operating modes supported on the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSystemWorkingModelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSystemWorkingModelIndex (1.3.6.1.4.1.25506.6.14.1.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of a system operating mode.	Implementation varies by product.
hh3cSystemWorkingModeName (1.3.6.1.4.1.25506.6.14.1.1.2)	read-only	DisplayString	OCTET STRING (1..32)	Name of the system operating mode.	Implementation varies by product.
hh3cSystemWorkingModeDescr (1.3.6.1.4.1.25506.6.14.1.1.3)	read-only	DisplayString	OCTET STRING (1..128)	Description of the system operating mode.	Implementation varies by product.

Notifications

The following information describes the notifications included in the HH3C-COMMON-SYSTEM-MIB module.

hh3cRebootSendTrap

Basic information

OID (object name)	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.6.8.3	The device is to reboot	Informational	Warning	N/A	ON

Description

This notification is generated two seconds before the `reboot` command is used to reboot the device.

Status control

This alarm cannot be cleared.

Objects

N/A

Recommended action

No action is required.

hh3cSysColdStartTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.6.8.4	A cold boot was performed	Informational	Warning	N/A	ON

Description

This notification is generated when a cold boot is performed on the device.

Status control

This alarm cannot be cleared.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.6.11.10 (hh3cSysFirstTrapTime)	Time when the alarm occurred.	N/A	TimeTicks	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cSysWarmStartTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.6.8.5	A warm boot was performed	Informational	Warning	N/A	ON

Description

This notification is generated when a cold boot is performed on the device.

Status control

This alarm cannot be cleared.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.6.11.10 (hh3cSysFirstTrapTime)	Time when the alarm occurred.	N/A	TimeTicks	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-ENTITY-EXT-MIB

About this MIB

Use this MIB to obtain entity extended information. Access this MIB to monitor specific entity data, which facilitates management and monitoring on the product through network management.

Products supporting this MIB must first support the ENTITY-MIB MIB.

The following tables show the relationship between the entity extended properties and device entities. Implementation varies by product.

Entity	hh3cEntityExtAdminStatus (R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	Yes
stack	No
other	No
unknown	No

Entity	hh3cEntityExtOperStatus (R)
chassis	No
backplane	No
container	No
power Supply	Yes
fan	Yes
sensor	No
module	Yes
port	Yes
stack	No
other	No
unknown	No

Entity	hh3cEntityExtStandbyStatus (R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	Yes
sensor	No
module	Yes
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtAlarmLight (R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtCpuUsage (R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes(Only support the Module Level1)
port	No
stack	No
other	No

Entity	hh3cEntityExtCpuUsage (R)
unknown	No

Entity	hh3cEntityExtCpuUsageThreshold (R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes(Only support the Module Level1)
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtMemUsage (R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes(Only support the Module Level1)
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtMemUsageThreshold(R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes(Only support the Module Level1)

Entity	hh3cEntityExtMemUsageThreshold(R/W)
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtMemSize (R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes(Only support the Module Level1)
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtUpTime (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtTemperature (R)
chassis	No
backplane	No
container	No
powerSupply	Yes

Entity	hh3cEntityExtTemperature (R)
fan	Yes
sensor	Yes
module	Yes
port	No
stack	No
other	Yes
unknown	No

Entity	hh3cEntityExtTemperatureThreshold(R/W)
chassis	No
backplane	No
container	No
powerSupply	Yes
fan	Yes
sensor	Yes
module	Yes
port	No
stack	No
other	Yes
unknown	No

Entity	hh3cEntityExtVoltage(R)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtVoltageLowThreshold(R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtVoltageHighThreshold(R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	No
other	No
unknown	No

Entity	hh3cEntityExtCriticalTemperatureThreshold(R/W)
chassis	No
backplane	No
container	No
powerSupply	No
fan	No
sensor	Yes
module	No
port	No
stack	No
other	No

Entity	hh3cEntityExtCriticalTemperatureThreshold(R/W)
unknown	No

Entity	hh3cEntityExtMacAddress (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	No
port	No
stack	Yes
other	No
unknown	No

Entity	hh3cEntityExtErrorStatus (R)
chassis	No
backplane	Yes
container	Yes
powerSupply	Yes
fan	Yes
sensor	Yes
module	No
port	Yes
stack	No
other	Yes
unknown	Yes

Entity	hh3cEntityExtManuSerialNum (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes

Entity	hh3cEntityExtManuSerialNum (R)
port	No
cpu	No

Entity	hh3cEntityExtManuBuildInfo (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes
port	No
cpu	No

Entity	hh3cEntityExtMacAddressCount (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes
port	Yes
cpu	No

Entity	hh3cEntityExtManuBOM (R)
chassis	Yes
backplane	No
container	No
powerSupply	No
fan	No
sensor	No
module	Yes
port	No
cpu	No

Entity (R/W: Read/Write)	POWERS SUPPLY	FAN	CHASSIS	CONTAINER	MODULE	PORT	CPU
hh3cEntityExtAdminStatus (R/W)						Yes	
hh3cEntityExtOperStatus (R)	Yes	Yes			Yes	Yes	
hh3cEntityExtStandbyStatus (R)		Yes			Yes		
hh3cEntityExtAlarmLight (R)							
hh3cEntityExtCpuUsage (R)					Yes		
hh3cEntityExtCpuUsageThreshold (R/W)					Yes		
hh3cEntityExtMemUsage (R)					Yes		
hh3cEntityExtMemUsageThreshold (R/W)					Yes		
hh3cEntityExtMemSize (R)					Yes		
hh3cEntityExtUpTime (R)			Yes				
hh3cEntityExtTemperature (R)							
hh3cEntityExtTemperatureThreshold (R/W)							
hh3cEntityExtVoltage (R)							
hh3cEntityExtVoltageLowThreshold (R/W)							
hh3cEntityExtVoltageHighThreshold (R/W)							
hh3cEntityExtCriticalTemperatureThreshold							
hh3cEntityExtMacAddress			Yes				
hh3cEntityExtErrorStatus							

NOTE:

- **Yes** indicates that the extended property is supported.
 - If the read operation returns **no such name/instance**, the object is not supported in the current entity instance.
-

MIB file name

hh3c-entity-ext.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cEntityExtend(6)

Scalar objects

hh3cEntityExtTrapDescription

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtTrapDescription (1.3.6.1.4.1.25506.2.6.2.1.1)	accessible-for-notify	SnmpAdminString	OCTET STRING(0..255)	Detailed information of the trap.	As per the MIB.

hh3cEntityExtECCParityAlarmStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtECCParityAlarmStatus (1.3.6.1.4.1.25506.2.6.2.1.2)	accessible-for-notify	INTEGER	other(1), l1cache(2), l2cache(3), sdram(4), mac(5), tcam(6), ingressbuffer(7), egressbuffer(8), lpm(9), controlmemory(10)	Resource type of the chip on which an ECC error or parity check error occurs.	As per the MIB.

hh3cEntityExtSFPIInvalidInDays

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtSFPIInvalidInDays (1.3.6.1.4.1.25506.2.6.2.1.3)	accessible-for-notify	Integer32	Standard MIB values.	Remaining valid days of a transceiver module.	As per the MIB.

hh3cEntityExtFirstTrapTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtFirstTrapTime (1.3.6.1.4.1.25506.2.6.2.1.4)	accessible-for-notify	TimeTicks	Standard MIB values.	Time when a trap is sent for the first time.	As per the MIB.

Tabular objects

hh3cEntityExtStateTable

About this table

This table contains information about entity extended properties, including administrative status, operation status, CPU usage, CPU usage threshold, memory usage, and memory usage threshold.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cEntityExtPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtPhysicalIndex (1.3.6.1.4.1.25506.2.6.1.1.1.1)	accessible-for-notify	Integer32	Integer32 (1..2147483647)	The index for this entry, which is the same with the value of entPhysicalIndex in ENTITY-MIB.	As per the MIB.
hh3cEntityExtAdminStatus (1.3.6.1.4.1.25506.2.6.1.1.1.2)	read-write	Hh3cAdminState	notSupported(1), locked(2), shuttingDown(3), unlocked(4)	Administrative status for this object.	<ul style="list-style-type: none">Does not support notSupported(1) or shuttingDown(3).locked—The resource is disabled.shuttingDown—The resource is available only the current entity.unlocked—The resource is not disabled.
hh3cEntityExtOperStatus (1.3.6.1.4.1.25506.2.6.1.1.1.3)	read-only	Hh3cOperState	notSupported(1), disabled(2), enabled(3), dangerous(4)	Operation status	<ul style="list-style-type: none">disabled—The resource is not operable.enabled—The resource or part of the resource is operable.
hh3cEntityExtStandbyStatus (1.3.6.1.4.1.25506.2.6.1.1.1.4)	read-only	Hh3cStandbyStatus	notSupported(1), hotStandby(2), coldStandby(3), providingService(4)	Standby status.	<ul style="list-style-type: none">notStandby—The resource is not providing services, but it can provide services without being initialized. The resource in this status also contains information about the resources being backed up.coldStandby—The resource is not providing services, but it can operate.providingService—The resource is providing

Object (OID)	Access	Syntax	Value range	Description	Implementation
					services.
hh3cEntityExtAlarmLight (1.3.6.1.4.1.25506.2.6.1.1.1.5)	read-only	Hh3cAlarmStatus	BITS { notSupported(0), underRepair(1), critical(2), major(3), minor(4), alarmOutstanding(5), warning(6), indeterminate(7) }	Alarm status for this entity.	<p>Not supported.</p> <p>An integer indicates an alarm status as follows:</p> <ul style="list-style-type: none"> 0—notSupported. This indicates that none of the subsequent statuses is present. 1—underRepair. This indicates that the resource is being repaired. 2—critical. This indicates that one or multiple critical faults occurred on the resource. 3—major. This indicates that one or multiple major faults occurred on the resource. 4—minor. This indicates that one or multiple minor faults occurred on the resource. 5—alarmOutstanding. This indicates that one or multiple alarms occurred on the resource and might cause system interruption. 6—warning. This indicates that one or multiple warning faults occurred on the resource. 7—indeterminate. This indicates that one or multiple indeterminate faults occurred on the resource.
hh3cEntityExtCpuUsage (1.3.6.1.4.1.25506.2.6.1.1.1.6)	read-only	Integer32	Integer32 (0..100)	CPU usage for this entity. The statistics interval for CPU usage is 5 seconds.	As per the MIB.
hh3cEntityExtCpuUsageThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.7)	read-write	Integer32	Integer32 (0..100)	CPU usage alarm threshold in percentage. Value range: 1 to 100.	As per the MIB.
hh3cEntityExtMemUsage (1.3.6.1.4.1.25506.2.6.1.1.1.8)	read-only	Integer32	Integer32 (0..100)	Memory usage for this entity in percentage.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtMemUsageThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.1.9)	read-write	Integer32	Integer32 (0..100)	Memory usage alarm threshold in percentage.	As per the MIB.
hh3cEntityExtMemSize (1.3.6.1.4.1.25506.2.6.1.1.1.1.10)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Memory size for this entity, in bytes. The memory is a 32-bit wide memory.	As per the MIB.
hh3cEntityExtUpTime (1.3.6.1.4.1.25506.2.6.1.1.1.1.11)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Uptime for the entity., in seconds.	As per the MIB.
hh3cEntityExtTemperature (1.3.6.1.4.1.25506.2.6.1.1.1.1.12)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Temperature of the entity.	Implementation varies by product. The value 65535 indicates that the object is not supported.
hh3cEntityExtTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.1.13)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Temperature of the entity.	Implementation varies by product. The value 65535 indicates that the object is not supported.
hh3cEntityExtVoltage (1.3.6.1.4.1.25506.2.6.1.1.1.1.14)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Voltage for the entity.	Implementation varies by product.
hh3cEntityExtVoltageLowThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.1.15)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Low-voltage threshold for the entity.	Implementation varies by product.
hh3cEntityExtVoltageHighThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.1.16)	read-write	Integer32	Integer32 (-2147483648..2147483647)	High-voltage threshold for the entity.	Implementation varies by product.
hh3cEntityExtCriticalTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.1.17)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Critical high-temperature threshold for the entity.	Implementation varies by product. The value 65535 indicates that the object is not supported.
hh3cEntityExtMacAddress (1.3.6.1.4.1.25506.2.6.1.1.1.1.18)	read-only	MacAddress	OCTET STRING (6)	MAC address of the entity.	If the type of the entity is stack , the value of this object is bridge MAC address of the current device. If this object is not supported in the current entity instance, the value of this object is fixed at 00.00.00.00.00.00.
hh3cEntityExtErrorStatus (1.3.6.1.4.1.25506.2.6.1.1.1.1.19)	read-only	INTEGER	notSupported(1), normal(2), postFailure(3), entityAbsent(4), poeError(11), stackError(21), stackPortBlocked(22),	Alarm status for the entity, which is a supplement to hh3cEntityExtOperStatus.	<ul style="list-style-type: none"> notSupported(1)—The entity does not support this object. normal(2)—The entity is normal. For ports, the object does not differentiate 10 Mbps, 100 Mbps, 1000 Mbps, duplex or half duplex

Object (OID)	Access	Syntax	Value range	Description	Implementation
			stackPortFailed(23), sfpRecvError(31), sfpSendError(32), sfpBothError(33), fanError(41), psuError(51), rpsError(61), moduleFaulty(71), sensorError(81), hardwareFaulty(91)		<p>ports. For fans, power supplies, cards, SFP ports, and stack ports, the object indicates they are normal.</p> <ul style="list-style-type: none"> • postFailure(3)—The entity fails during POST. • entityAbsent(4)—The entity is absent. • poeError(11)—A power supply fault occurs on the PoE port. • stackError(21)—An issue occurs on the stack port during the stacking process. • stackPortBlocked(22)—The stack port is in standby status in the resilient daisy chain. • stackPortFailed(23)—The stacking process fails on a stack port after the stacking is enabled on the stack port. • sfpRecvError(31)—A fault occurs in the inbound direction of an SFP port. • sfpSendError(32)—A fault occurs in the outbound direction of an SFP port. • sfpBothError(33)—A fault occurs in both the inbound and outbound directions of an SFP port. • fanError(41)—A fan fault is present. • psuError(51)—A power supply fault is present. • rpsError(61)—An RPS fault is present. • moduleFaulty(71)—A card fault is present. • sensorError(81)—A sensor fault is present. • hardwareFaulty(91)—A hardware fault occurs on the entity.
hh3cEntityExtCpuMaxUsage (1.3.6.1.4.1.25506.2.6.1.1.1.20)	read-only	Integer32	Integer32 (0..100)	Peak CPU usage during the most recent 1-minute interval.	As per the MIB.
hh3cEntityExtLowerTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.21)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Low-temperature threshold for the entity.	Implementation varies by product. The value 65535 indicates that the object is not

Object (OID)	Access	Syntax	Value range	Description	Implementation
					supported.
hh3cEntityExtShutdownTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.22)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Shutdown temperature threshold. Notifies and shuts down the device when the threshold is reached.	Implementation varies by product. The value 65535 indicates that the object is not supported.
hh3cEntityExtPhyMemSize (1.3.6.1.4.1.25506.2.6.1.1.1.23)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Memory size for this entity, in bytes. The memory is a 32-bit wide memory.	As per the MIB.
hh3cEntityExtPhyCpuFrequency (1.3.6.1.4.1.25506.2.6.1.1.1.24)	read-only	Integer32	Integer32 (-2147483648..2147483647)	CPU frequency of the entity, in MHz.	Implementation varies by product.
hh3cEntityExtFirstUsedDate (1.3.6.1.4.1.25506.2.6.1.1.1.25)	read-only	DateAndTime	OCTET STRING (8)	The date used for the first on the entity.	Implementation varies by product.
hh3cEntityExtCpuAvgUsage (1.3.6.1.4.1.25506.2.6.1.1.1.26)	read-only	Integer32	Integer32 (0..100)	Average CPU usage for the entity during a time period.	As per the MIB.
hh3cEntityExtMemAvgUsage (1.3.6.1.4.1.25506.2.6.1.1.1.27)	read-only	Integer32	Integer32 (0..100)	Average memory usage for the entity during a time period.	As per the MIB.
hh3cEntityExtMemType (1.3.6.1.4.1.25506.2.6.1.1.1.28)	read-only	OCTET STRING	OCTET STRING (0..64)	Memory type for the entity.	As per the MIB.
hh3cEntityExtCriticalLowerTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.29)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Critical high-temperature threshold for the entity. Notifies and shuts down the device when the threshold is reached.	Implementation varies by product.
hh3cEntityExtShutdownLowerTemperatureThreshold (1.3.6.1.4.1.25506.2.6.1.1.1.30)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Low-temperature shutdown temperature threshold. Notifies and shuts down the device when the threshold is reached.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtCpuUsageRecoverThreshold(1.3.6.1.4.1.25506.2.6.1.1.1.31)	read-write	Integer32	Integer32 (0..100)	CPU usage recovery threshold for the entity.	Not supported
hh3cEntityExtMemSizeRev(1.3.6.1.4.1.25506.2.6.1.1.1.32)	read-only	Counter64	Counter64 (0..18446744073709551615)	Memory size for this entity, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cEntityExtCpuUsageIn1Minute(1.3.6.1.4.1.25506.2.6.1.1.1.33)	read-only	Integer32	Integer32 (0..100)	Average CPU usage for the entity during the most recent 1-minute interval.	As per the MIB.
hh3cEntityExtCpuUsageIn5Minutes(1.3.6.1.4.1.25506.2.6.1.1.1.34)	read-only	Integer32	Integer32 (0..100)	Average CPU usage for the entity during the most recent 5-minute interval.	As per the MIB.

hh3cEntityExtManuTable

About this table

This table contains manufacturing information about device entities.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cEntityExtManuPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtManuPhysicalIndex(1.3.6.1.4.1.25506.2.6.1.2.1.1.1)	accessible-for-notify	PhysicalIndex	Integer32 (1..2147483647)	Entity index.	As per the MIB.
hh3cEntityExtManuSerialNum(1.3.6.1.4.1.25506.2.6.1.2.1.1.2)	read-only	SnmpAdminString	OCTET STRING (0..255)	Serial number of the entity.	As per the MIB.
hh3cEntityExtManuBuildInfo(1.3.6.1.4.1.25506.2.6.1.2.1.1.3)	read-only	SnmpAdminString	OCTET STRING (0..255)	Version of the entity.	As per the MIB.
hh3cEntityExtManuBOM	read-only	SnmpAdminString	OCTET STRING	BOM number	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.6.1.2.1.1.4)		minString	(0..255)	of the entity.	
hh3cEntityExtMacAddressCount (1.3.6.1.4.1.25506.2.6.1.2.1.1.5)	read-only	Unsigned 32	Unsigned 32 (0..42949 67295)	MAC address count for the entity.	As per the MIB.

hh3cEntityExtPowerTable

About this table

This table contains power information about all entities on the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cEntityExtPowerPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtPowerPhysicalIndex (1.3.6.1.4.1.25506.2.6.1.3.1.1.1)	accessible-for-notify	PhysicalIndex	Integer32 (1..21474 83647)	Entity index for the power supply.	As per the MIB.
hh3cEntityExtNominalPower (1.3.6.1.4.1.25506.2.6.1.3.1.1.2)	read-only	Gauge32	Gauge32 (0..42949 67295)	Rated power for the entity, in milliwatts.	As per the MIB.
hh3cEntityExtCurrentPower (1.3.6.1.4.1.25506.2.6.1.3.1.1.3)	read-only	Gauge32	Gauge32 (0..42949 67295)	Current power for the entity, in milliwatts.	As per the MIB.
hh3cEntityExtAveragePower (1.3.6.1.4.1.25506.2.6.1.3.1.1.4)	read-write	Gauge32	Gauge32 (0..42949 67295)	Average power consumed by the entity, in milliwatts. The value 0 is the only valid value, indicating that the system clears the existing records and restarts the power statistics. The other values for this object will not take effect.	As per the MIB.
hh3cEntityExtPeakPower	read-write	Integer32	Integer32 (-214748	Maximum power for the	As per the MIB.

(1.3.6.1.4.1.25506.2.6.1.3.1.1.5)			3648..21 4748364 7)	entity, in milliwatts. The value 0 is the only valid value, indicating that the system clears the existing records and restarts the power statistics. The other values for this object will not take effect.	
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hh3cProcessTable

About this table

This table contains process information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cProcessID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cProcessID (1.3.6.1.4.1.25506.2.6.1.4.1.1.1)	read-only	Unsigned 32	Unsigned 32 (0..42949 67295)	Process ID.	As per the MIB.
hh3cProcessName (1.3.6.1.4.1.25506.2.6.1.4.1.1.2)	read-only	DisplaySt ring	OCTET STRING (1..32)	Process name.	As per the MIB.
hh3cProcessUtil5Min (1.3.6.1.4.1.25506.2.6.1.4.1.1.3)	read-only	Unsigned 32	Unsigned 32 (0..100)	CPU usage of the process during a 5-minute interval.	As per the MIB.

hh3cEntityExtVoltageTable

About this table

This table contains information about voltage sensors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cEntityExtPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEntityExtCurrentVoltage (1.3.6.1.4.1.25506.2.6.1.5.1.1.1)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Current voltage for the entity, in milliwatts.	Implementation varies by product.
hh3cEntityExtNominalVoltage (1.3.6.1.4.1.25506.2.6.1.5.1.1.2)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Rated voltage for the entity, in milliwatts.	Implementation varies by product.
hh3cEntityExtVoltageState (1.3.6.1.4.1.25506.2.6.1.5.1.1.3)	read-only	INTEGER	normal(0), low(1), tooLow(2), high(3), tooHigh(4)	Voltage status of the entity.	Implementation varies by product.
hh3cEntityExtVoltageMajorLowThreshold (1.3.6.1.4.1.25506.2.6.1.5.1.1.4)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Low-temperature warning threshold.	Implementation varies by product.
hh3cEntityExtVoltageFatalLowThreshold (1.3.6.1.4.1.25506.2.6.1.5.1.1.5)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Low-temperature fatal threshold.	Implementation varies by product.
hh3cEntityExtVoltageMajorHighThreshold (1.3.6.1.4.1.25506.2.6.1.5.1.1.6)	read-only	Integer32	Integer32 (-2147483648..2147483647)	High-temperature warning threshold.	Implementation varies by product.
hh3cEntityExtVoltageFatalHighThreshold (1.3.6.1.4.1.25506.2.6.1.5.1.1.7)	read-only	Integer32	Integer32 (-2147483648..2147483647)	High-temperature fatal threshold.	Implementation varies by product.

Notifications

The following information describes the notifications included in the HH3C-ENTITY-EXT-MIB module.

hh3cEntityExtTemperatureThresholdNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.1	Temperature of the entity higher than the threshold.	Error	Major	N/A	ON

Description

This notification is generated when the temperature of the entity exceeds the upper limit.

Status control

This notification cannot be disabled.

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.12 (hh3cEntityExtTemperature)	Temperature of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.13 (hh3cEntityExtTemperatureThreshold)	Temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

To resolve the issue:

1. Verify that the temperature of the environment is normal. Execute the **display environment** command to obtain temperature information, including the current temperature and the temperature thresholds.
2. Identify the reason why the temperature exceeded the upper limit.

3. Verify that the temperature has dropped back to the normal.
4. If the issue persists, contact H3C Support.

hh3cEntityExtCpuUsageThresholdNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.4	CPU usage of the entity higher than the threshold.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.25(hh3cEntityExtCpuUsageThresholdRecover)	ON

Description

This notification is generated when the CPU usage of the entity exceeds the threshold. The notification is sent every 60 seconds till the alarm is cleared.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.6 (hh3cEntityExtCpuUsage)	CPU usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.7 (hh3cEntityExtCpuUsageThreshold)	CPU usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }
1.3.6.1.4.1.25506.2.6.1.1.1.1.31 (hh3cEntityExtCpuUsageRecoverThreshold)	CPU usage recovery threshold for the entity.	N	Integer32	0..100

1.3.6.1.4.1.25506.2.6.2.1.4 (hh3cEntityExtFirstTrapTime)	Timestamp at which the notification is sent for the first time.	N	TimeTicks	Standard MIB values.
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Recommended action

To resolve the issue:

1. If the alarm is automatically cleared, no action is required.
2. If the alarm cannot be automatically cleared, contact H3C Support.

hh3cEntityExtMemUsageThresholdNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.5	Memory usage of the entity higher than the threshold.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.26(hh3cEntityExtMemUsageThresholdRecover)	ON

Description

This notification is generated when the total memory size is less than 4 GB and the memory usage of the entity exceeds hh3cEntityExtMemUsageThreshold (memory usage threshold). The notification is sent every 60 seconds till the alarm is cleared.

If the total memory size is equal to or greater than 4 GB, an hh3cEntityExtMemUsageThresholdOverTrap notification is generated when the memory usage exceeds hh3cEntityExtMemUsageThreshold.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.8 (hh3cEntityExtMemUsage)	Memory usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.9 (hh3cEntityExtMemUsageThreshold)	Memory usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.10 (hh3cEntityExtMemSize)	Memory size of the entity.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2)

				shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }
1.3.6.1.4.1.25506.2.6.2.1.4 (hh3cEntityExtFirstTrapTime)	Timestamp at which the notification is sent for the first time.	N	TimeTicks	Standard MIB values.

Recommended action

To resolve the issue:

1. If the alarm is automatically cleared, no action is required.
2. If the alarm cannot be automatically cleared, contact H3C Support.

hh3cEntityExtCriticalTemperatureThresholdNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.6.2.0.8	Temperature of the entity higher than the critical high-temperature threshold.	Error	Critical	N/A	ON

Description

This notification is generated when the temperature of the entity exceeded the critical high-temperature threshold. The notification is sent every 80 seconds till the alarm is cleared.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.

1.3.6.1.4.1.25506.2.6.1.1.1.1.12 (hh3cEntityExtTemperature)	Temperature of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.17 (hh3cEntityExtCriticalTemperatureThreshold)	Critical high-temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

To resolve the issue:

1. Verify that the temperature of the environment is normal. Execute the **display environment** command to obtain temperature information, including the current temperature and the temperature thresholds.
2. Identify the reason why the temperature exceeded the critical high-temperature threshold.
3. Verify that the temperature has dropped back to the normal.
4. If the issue persists, contact H3C Support.

hh3cEntityInsert

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.12	Entity installation.	Recovery	N/A	N/A	ON

Description

This notification is generated when the entity is installed to the device.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.47.1.1.1.1.2 (entPhysicalDescr)	Description of the entity.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.3 (hh3cEntityExtOperStatus)	Operation status of the entity.	N	Hh3cOperState	notSupported(1) disabled(2) enabled(3) dangerous(4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cEntityRemove

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.13	Entity removal.	Error	Minor	1.3.6.1.4.1.25506.2.6.2.0.12(hh3cEntityInsert)	ON

Description

This notification is generated when the entity is removed from the device.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.47.1.1.1.1.2 (entPhysicalDescr)	Description of the entity.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.3	Operation status of the	N	Hh3cOperState	notSupported(1)

(hh3cEntityExtOperStatus)	entity.			disabled(2) enabled(3) dangerous(4)
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This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. If the entity was removed from the device, no action is required.
2. If the entity was not removed, verify that the entity is installed correctly.
3. If the issue persists, contact H3C Support.

hh3cEntityExtFaultAlarmOn

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.16	Error occurrence on the entity.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.16(hh3cEntityExtFaultAlarmOn)	ON

Description

This notification is generate when an error occurs on the entity.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.19 (hh3cEntityExtErrorStatus)	Alarm status for the entity.	N	INTEGER	notSupported(1) normal(2) postFailure(3) entityAbsent(4) poeError(11) stackError(21) stackPortBlocked(22) stackPortFailed(23) sfpRecvError(31) sfpSendError(32)

OID (object name)	Description	Index	Type	Value range
				sfpBothError(33) fanError(41) psuError(51) rpsError(61) moduleFaulty(71) sensorError(81) hardwareFaulty(91)
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

To resolve the issue:

1. Verify that the entity is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cEntityExtFaultAlarmOff

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.17	Error clearance.	Recovery	N/A	N/A	ON

Description

This notification is generated when the entity recovers from the faulty state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.19 (hh3cEntityExtErrorStatus)	Alarm status for the entity.	N	INTEGER	notSupported(1) normal(2) postFailure(3) entityAbsent(4) poeError(11) stackError(21) stackPortBlocked(22) stackPortFailed(23) sfpRecvError(31) sfpSendError(32) sfpBothError(33) fanError(41) psuError(51) rpsError(61) moduleFaulty(71) sensorError(81) hardwareFaulty(91)
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

No action is required.

hh3cEntityExtTemperatureLower

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.20	Temperature of the entity lower than the low-temperature threshold.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.22(hh3cEntityExtTemperatureNormal)	ON

Description

This notification is generated when the temperature of the entity decreases below the low-temperature threshold.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.12 (hh3cEntityExtTemperature)	Temperature of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.21 (hh3cEntityExtLowerTemperatureThreshold)	Low-temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}

Recommended action

To resolve the issue:

1. Verify that the temperature of the environment is normal. Execute the **display environment** command to obtain temperature information, including the current temperature and the temperature thresholds.
2. Identify the reason why the temperature dropped below the lower limit.
3. Verify that the temperature has increased to the normal.
4. If the issue persists, contact H3C Support.

hh3cEntityExtTemperatureTooUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.21	Temperature of the entity higher than the shutdown temperature threshold.	Error	Critical	1.3.6.1.4.1.25506.2.6.2.0.22(hh3cEntityExtTemperatureNormal)	ON

Description

This notification is generated when the temperature of the entity exceeds the shutdown temperature threshold. The notification is sent every 80 seconds till the alarm is cleared.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.12 (hh3cEntityExtTemperature)	Temperature of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.22 (hh3cEntityExtShutdownTemperatureThreshold)	Shutdown temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}

Recommended action

To resolve the issue:

1. Verify that the temperature of the environment is normal. Execute the **display environment** command to obtain temperature information, including the current temperature and the temperature thresholds.
2. Identify the reason why the temperature exceeded the shutdown temperature threshold.
3. Verify that the temperature has dropped back to the normal.
4. If the issue persists, contact H3C Support.

hh3cEntityExtTemperatureNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.22	Temperature of the entity back to normal.	Recovery	N/A	N/A	ON

Description

This notification is generated when the temperature of the entity recovers from the abnormal status.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.6.1.1.1.1.12 (hh3cEntityExtTemperature)	Temperature of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.21 (hh3cEntityExtLowerTemperatureThreshold)	Low-temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.13 (hh3cEntityExtTemperatureThreshold)	Temperature threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}

Recommended action

No action is required.

hh3cEntityExternalAlarmOccur

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.23	Error on a peripheral of the	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.24(hh3cEn	ON

	entity.			tityExternalAlarmRecover)	
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Description

This notification is generated when an error occurs on the peripheral of the entity.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

To resolve the issue:

1. Verify that the entity is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cEntityExternalAlarmRecover

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.24	A peripheral of the entity back to normal.	Recovery	N/A	N/A	ON

Description

This notification is generated when the peripheral of the entity recovers from the faulty state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.2.1.47.1.1.1.1.7 (entPhysicalName)	Entity name.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

No action is required.

hh3cEntityExtCpuUsageThresholdRecover

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.25	Recovery of the CPU usage from an alarm threshold.	Recovery	N/A	N/A	ON

Description

This notification is generated when the CPU usage of the entity recovers from the abnormal state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.6 (hh3cEntityExtCpuUsage)	CPU usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.7 (hh3cEntityExtCpuUsageThreshold)	CPU usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }
1.3.6.1.4.1.25506.2.6.1.1.1.1.31 (hh3cEntityExtCpuUsageRecoverThreshold)	CPU usage recovery threshold for	N	Integer32	0..100

OID (object name)	Description	Index	Type	Value range
	the entity.			
1.3.6.1.4.1.25506.2.6.2.1.4 (hh3cEntityExtFirstTrapTime)	Timestamp at which the notification is sent for the first time.	N	TimeTicks	Standard MIB values.

Recommended action

No action is required.

hh3cEntityExtMemUsageThresholdRecover

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.26	Recovery of the memory usage from an alarm threshold.	Recovery	N/A	N/A	ON

Description

This notification is generated when the memory usage of the entity recovers from the abnormal state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.8 (hh3cEntityExtMemUsage)	Memory usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.9 (hh3cEntityExtMemUsageThreshold)	Memory usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.10 (hh3cEntityExtMemSize)	Memory size of the entity.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS {

OID (object name)	Description	Index	Type	Value range
				notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }
1.3.6.1.4.1.25506.2.6.2.1.4 (hh3cEntityExtFirstTrapTime)	Timestamp at which the notification is sent for the first time.	N	TimeTicks	Standard MIB values.

Recommended action

No action is required.

hh3cEntityExtMemAllocatedFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.27	Memory allocation request failure.	Informational	Major	N/A	ON

Description

This notification is generated when memory allocation for the entity failed.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.2.1.1 (hh3cEntityExtTrapDescription)	Description of the notification.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

To resolve the issue, contact H3C Support.

hh3cEntityExtECCParityAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.28	ECC parity check error.	Informational	Major	N/A	ON

Description

This notification is generated when an ECC parity check error occurs on the entity.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.2.1.2 (hh3cEntityExtECCParityAlarmStatus)	Status of ECC parity check for the entity	N	INTEGER	other(1) l1cache(2) l2cache(3) sdram(4) mac(5) tcam(6) ingressbuffer(7) egressbuffer(8) lpm(9) controlmemory(10)
1.3.6.1.4.1.25506.2.6.2.1.1 (hh3cEntityExtTrapDescription)	Description of the entity.	N	SnmpAdminString	OCTET STRING (SIZE (0..255))

Recommended action

To resolve the issue, contact H3C Support.

hh3cEntityExtMemUsageThresholdOverTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.35	Continuous notifications of memory usage exceeding the threshold.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.36(hh3cEntityExtMemUsageThresholdRecover Trap)	ON

Description

This notification is generated when the total memory size of the entity is equal to or greater than 4 GB and the memory usage of the entity exceeds hh3cEntityExtMemUsageThreshold (memory usage threshold). The notification is sent every 60 seconds till the alarm is cleared.

If the total memory size is less than 4 GB, an hh3cEntityExtMemUsageThresholdNotification notification is generated when the memory usage exceeds hh3cEntityExtMemUsageThreshold.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.8 (hh3cEntityExtMemUsage)	Memory usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.9 (hh3cEntityExtMemUsageThreshold)	Memory usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.32 (hh3cEntityExtMemSizeRev)	Memory size of the entity.	N	Counter64	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

To resolve the issue:

1. If the alarm is automatically cleared, no action is required.
2. If the alarm cannot be automatically cleared, contact H3C Support.

hh3cEntityExtMemUsageThresholdRecoverTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.36	Recovery of the memory usage from an alarm threshold.	Recovery	N/A	N/A	ON

Description

This notification is generated when the memory usage of the entity recovers from the abnormal state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.8 (hh3cEntityExtMemUsage)	Memory usage of the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.9 (hh3cEntityExtMemUsageThreshold)	Memory usage threshold for the entity.	N	Integer32	0..100
1.3.6.1.4.1.25506.2.6.1.1.1.1.32 (hh3cEntityExtMemSizeRev)	Memory size of the entity.	N	Counter64	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.1.1.1.2 (hh3cEntityExtAdminStatus)	Administrative status of the entity.	N	Hh3cAdminState	notSupported(1) locked(2) shuttingDown(3) unlocked(4)}
1.3.6.1.4.1.25506.2.6.1.1.1.1.5 (hh3cEntityExtAlarmLight)	Alarm status of the entity.	N	Hh3cAlarmStatus	BITS { notSupported(0) underRepair(1) critical(2) major(3) minor(4) alarmOutstanding(5) warning(6) indeterminate(7) }

Recommended action

No action is required.

hh3cEntityExtVoltageNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.37	Recovery of the voltage from an alarm threshold.	Recovery	N/A	N/A	ON

Description

This notification is generated when the voltage of the entity recovers from the abnormal state.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.1 (hh3cEntityExtCurrentVoltage)	Voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.2 (hh3cEntityExtNominalVoltage)	Rated voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.4 (hh3cEntityExtVoltageMajorLowThreshold)	Low-voltage threshold for the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.6 (hh3cEntityExtVoltageMajorHighThreshold)	High-voltage threshold for the entity.	N	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cEntityExtVoltageLower

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.38	Voltage of the entity lower than the low-voltage	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.37(hh3cEntityExtVoltageNor	ON

	threshold.			mal)	
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Description

This notification is generated when the voltage of the entity drops below the low-voltage threshold.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.1 (hh3cEntityExtCurrentVoltage)	Voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.2 (hh3cEntityExtNominalVoltage)	Rated voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.4 (hh3cEntityExtVoltageMajorLowThreshold)	Low-voltage threshold for the entity.	N	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the power system of the device is normal.
2. If the issue persists, contact H3C Support.

hh3cEntityExtVoltageTooLow

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.39	Voltage of the threshold lower than critical low-voltage threshold.	Error	Critical	1.3.6.1.4.1.25506.2.6.2.0.37(hh3cEntityExtVoltageNormal)	ON

Description

This notification is generated when the voltage of the entity drops below the critical low-voltage threshold. The notification is sent every 80 seconds till the alarm is cleared.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.1 (hh3cEntityExtCurrentVoltage)	Voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.2 (hh3cEntityExtNominalVoltage)	Rated voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.5 (hh3cEntityExtVoltageFatalLowThreshold)	Critical low-voltage threshold for the entity.	N	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the power system of the device is normal.
2. If the issue persists, contact H3C Support.

hh3cEntityExtVoltageHigher

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.40	Voltage of the entity higher than the high-voltage threshold.	Error	Major	1.3.6.1.4.1.25506.2.6.2.0.37(hh3cEntityExtVoltageNormal)	ON

Description

This notification is generated when the voltage of the entity increases above the high-voltage threshold.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.1 (hh3cEntityExtCurrentVoltage)	Voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.2 (hh3cEntityExtNominalVoltage)	Rated voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.6 (hh3cEntityExtVoltageMajorHighThreshold)	High-voltage threshold for	N	Integer32	Standard MIB values.

	the entity.			
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Recommended action

To resolve the issue:

1. Verify that the power system of the device is normal.
2. If the issue persists, contact H3C Support.

hh3cEntityExtVoltageTooHigh

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.6.2.0.41	Voltage of the entity higher than the critical high-voltage threshold.	Error	Critical	1.3.6.1.4.1.25506.2.6.2.0.37(hh3cEntityExtVoltageNormal)	ON

Description

This notification is generated when the voltage of the entity increases over the critical high-voltage threshold. The notification is sent every 80 seconds till the alarm is cleared.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.6.1.1.1.1.1 (hh3cEntityExtPhysicalIndex)	Entity index.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.1 (hh3cEntityExtCurrentVoltage)	Voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.2 (hh3cEntityExtNominalVoltage)	Rated voltage of the entity.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.6.1.5.1.1.7 (hh3cEntityExtVoltageFatalHighThreshold)	Critical high-voltage threshold for the entity.	N	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the power system of the device is normal.
2. If the issue persists, contact H3C Support.

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HH3C-INFOCENTER-MIB

About this MIB

Use this MIB to configure information center settings, including enabling the information center or configuring log buffers and log hosts. You can access this MIB to obtain information about log entries in the log buffer.

MIB file name

hh3c-infocenter.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cInfoCenter(119)

Scalar objects

hh3cICMaxLogbufferSize

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cICMaxLogbufferSize (1.3.6.1.4.1.25506.2.119.1.1.1)	read-only	Unsigned 32	Standard MIB values.	Maximum number of log entries that can be buffered.	As per the MIB.

hh3cICLogbufferSize

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cICLogbufferSize (1.3.6.1.4.1.25506.2.119.1.1.2)	read-write	Unsigned 32	Standard MIB values.	Current buffer size.	As per the MIB.

hh3cICLogbufferCurrentMessages

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cICLogbufferCurrentMessages (1.3.6.1.4.1.25506.2.119.1.1.3)	read-only	Unsigned 32	Standard MIB values.	Number of messages stored in the log buffer.	As per the MIB.

hh3clCLogbufferOverwrittenMessages

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogbufferOverwrittenMessages (1.3.6.1.4.1.25506.2.119.1.1.4)	read-only	Counter32	Standard MIB values.	Number of overwritten messages in the log buffer.	As per the MIB.

hh3clCLogbufferDroppedMessages

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogbufferDroppedMessages (1.3.6.1.4.1.25506.2.119.1.1.5)	read-only	Counter32	Standard MIB values.	Number of dropped messages in the log buffer.	As per the MIB.

hh3clCMaxLoghost

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCMaxLoghost (1.3.6.1.4.1.25506.2.119.2.1.1)	read-only	Unsigned 32	Standard MIB values.	Maximum number of log hosts supported by the information center.	As per the MIB.

hh3clCLoghostSourceInterface

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLoghostSourceInterface (1.3.6.1.4.1.25506.2.119.2.1.2)	read-write	InterfaceIndexOrZero	Standard MIB values.	Source interface through which log messages are sent to log hosts.	As per the MIB.

hh3clCLogGlobalState

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogGlobalState	read-write	TruthVal	true(1),	Selects	As per the MIB.

(1.3.6.1.4.1.25506.2.119.5.1.1)		ue	false(2)	whether to enable the information center globally.	
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hh3clCLogTimestampType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogTimestampType (1.3.6.1.4.1.25506.2.119.5.1.2)	read-write	ICTimeSt ampType	date(0), boot(1), iso(2), dateWith outYear(3), none(4), isoWithTi mezone(5)	Timestamp format for log messages.	Supports only boot, date, and none.

hh3clCLogType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogType (1.3.6.1.4.1.25506.2.119.5.4.1)	accessible-for- notify	INTEGE R	logfile(1), diagfile(2) secfile(3)	Log type.	As per the MIB.

hh3clCFailReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCFailReason (1.3.6.1.4.1.25506.2.119.5.4.2)	accessible-for- notify	DisplaySt ring	Standard MIB values.	Reason for write failure.	As per the MIB.

Tabular objects

hh3clCLogbufferContTable

About this table

This table contains log buffer information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clCLogbufferContIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLogbufferContIndex (1.3.6.1.4.1.25506.2.119.1.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Table index.	As per the MIB.
hh3clCLogbufferContDescription (1.3.6.1.4.1.25506.2.119.1.2.1.2)	read-only	DisplayString	OCTET STRING (0..1600)	Content of the log buffer.	As per the MIB.

hh3clCLoghostTable

About this table

This table specifies a log host and configures output parameters, including IP address of the log host, VPN instance, logging facility, port number of the log host, and log output destination. You can also access this table to obtain log host-related information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3clCLoghostIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCLoghostIndex (1.3.6.1.4.1.25506.2.119.2.2.1.1)	not-accessible	Unsigned 32	Unsigned32 (1..64)	Table index.	As per the MIB.
hh3clCLoghostIpAddressType (1.3.6.1.4.1.25506.2.119.2.2.1.2)	read-create	InetAddressType	unknown(0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Address type for the log host.	As per the MIB.
hh3clCLoghostIpAddress (1.3.6.1.4.1.25506.2.119.2.2.1.3)	read-create	InetAddress	OCTET STRING (0..255)	IP address of the log host.	As per the MIB.
hh3clCLoghostVPNName (1.3.6.1.4.1.25506.2.119.2.2.1.4)	read-create	DisplayString	OCTET STRING (0..255)	Name of the VPN instance to which the log host belongs.	As per the MIB.
hh3clCLoghostFacility (1.3.6.1.4.1.25506.2.119.2.2.1.5)	read-create	ICFacilityType	kernel(0), userLevel(1), mailSystem(2), systemDaemons(3), securityAuthorization(4), internallyMessages(5), linePrinter(6), networkNews(7),	Logging facility for marking different logging sources, and querying and filtering log messages.	Supports only local0(0), local1(1), local2(2), local3(3), local4(4), local5(5), local6(6), and local7(7).

Object (OID)	Access	Syntax	Value range	Description	Implementation
			uucp(8), clockDaemon(9), securityAuthorization 2(10), ftpDaemon(11), ntp(12), logAudit(13), logAlert(14), clockDaemon2(15), local0(16), local1(17), local2(18), local3(19), local4(20), local5(21), local6(22), local7(23)		
hh3clCLoghostOperateRowStatus (1.3.6.1.4.1.25506.2.119.2.2.1.6)	read-create	RowStat us	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.
hh3clCLoghostIpAddressPort (1.3.6.1.4.1.25506.2.119.2.2.1.7)	read-create	Unsigned 32	Unsigned32 (1..65535)	Port number of the log host.	As per the MIB.
hh3clCLoghostTAddress (1.3.6.1.4.1.25506.2.119.2.2.1.8)	read-create	TAddress	OCTET STRING (1..255)	IP address of the log host.	Supports only IPv4 addresses.

hh3clCDirectionTable

About this table

This table contains information about syslog output directions and specifies the enablement status of output directions.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3clCDirectionIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clCDirectionIndex (1.3.6.1.4.1.25506.2.119.3.1.1.1)	not-accessible	Unsigned 32	Standard MIB values.	Table index.	As per the MIB.
hh3clCDirectionName (1.3.6.1.4.1.25506.2.119.3.1.1.2)	read-only	DisplaySt ring	OCTET STRING (1..30)	Name of a log output destination.	As per the MIB.
hh3clCDirectionState (1.3.6.1.4.1.25506.2.119.3.1.1.3)	read-write	TruthVal ue	true(1), false(2)	Status of the log output	Specifies whether to enable log output to the log buffer, log file, security log file, or

				destination.	diagnostic log file. Log output to other destinations than the above destinations are all enabled.
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hh3cICModuleTable

About this table

This table contains available source modules.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cICModuleName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cICModuleName (1.3.6.1.4.1.25506.2.119.4.1.1.1)	read-only	DisplayString	OCTET STRING (1..8)	Name of a source module.	As per the MIB.

hh3cICLogTable

About this table

This table specifies the log level of log messages generated by a specific module to a specific output destination, and contains the log buffer information.

Support for operations

Create	Edit/Modify	Delete	Read
The module name in a row cannot contain lowercase letters and cannot be default	A row with the source module named default cannot be deleted	Supported	Supported

Columns

The table indexes are hh3cICDirectionIndex and hh3cICModuleName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cICLogLevel (1.3.6.1.4.1.25506.2.119.5.2.1.1)	read-create	ICMessageLevelType	emergency(0), alert(1), critical(2), error(3), warning(4), notice(5),	Severity level of a log message.	As per the MIB.

			informational(6), debug(7), invalid(8)		
hh3clCLogRowStatus (1.3.6.1.4.1.25506.2.119.5.2.1.2)	read-create	RowStat us	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

Notifications

The following information describes the notifications included in the HH3C-INFOCENTER-MIB module.

hh3clCLogWriteFail

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.119.5.3.0.1	Failed to write the log file to the disk.	Informati onal	-	-	ON

Description

This notification is generated when the device failed to write the log file to the disk.

Status control

N/A

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.119.5.4.1 (hh3clCLogType)	Log type.	No	INTEGER	Standard MIB values.
1.3.6.1.4.1.25506.2.119.5.4.2 (hh3clCFailReason)	Reason for write failure.	No	DisplayString	Standard MIB values.

Recommended action

Troubleshoot according to the failure reason.

If you cannot open the log file, contact the technical support.

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HH3C-LSW-DEV-ADM-MIB

About this MIB

Use this MIB to obtain basic device information about chassis, slots, CPUs, and ports.

MIB file name

hh3c-lsw-dev-adm.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswDeviceAdmin(18)

Scalar objects

hh3cLswSysIpAddr

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysIpAddr (1.3.6.1.4.1.25506.8.35.18.1.1)	read-only	IpAddresses	Standard MIB values.	IP address of a VLAN interface.	As per the MIB.

hh3cLswSysIpMask

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysIpMask (1.3.6.1.4.1.25506.8.35.18.1.2)	read-only	IpAddresses	Standard MIB values.	Subnet mask for the system IP address.	As per the MIB.

hh3cLswSysCpuRatio

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysCpuRatio (1.3.6.1.4.1.25506.8.35.18.1.3)	read-only	Integer32	Integer32 (0..100)	Real-time CPU usage on the card in 1-minute intervals. For distributed devices in IRF mode, this object indicates the real-time CPU usage on the active MPU in the system.	As per the MIB.

hh3cLswSysVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysVersion (1.3.6.1.4.1.25506.8.35.18.1.4)	read-only	DisplayString	OCTET STRING (1..64)	Version of the system. For distributed devices in IRF mode, this object indicates the version of the active MPU in the system.	As per the MIB.

hh3cLswSysTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysTime (1.3.6.1.4.1.25506.8.35.18.1.5)	read-write	DateAndTime	OCTET STRING (8 11)	System time of the device. For distributed devices in IRF mode, this object indicates the system time of the active MPU in the system.	Supports only the read operation on the non-default MDC.

hh3cLswSysPhyMemory

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysPhyMemory (1.3.6.1.4.1.25506.8.35.18.1.13)	read-only	Unsigned 32	Unsigned 32 (0..4294967295)	Physical memory space of the device, in bytes. For distributed devices, this object indicates the physical memory space of the active MPU in the system.	As per the MIB.

hh3cLswSysMemory

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysMemory (1.3.6.1.4.1.25506.8.35.18.1.14)	read-only	Unsigned 32	Unsigned 32 (0..4294967295)	System memory space, in bytes. For distributed	As per the MIB.

			67295)	devices, this object indicates the system memory space of the active MPU in the system.	
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hh3cLswSysMemoryUsed

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysMemoryUsed (1.3.6.1.4.1.25506.8.35.18.1.15)	read-only	Unsigned 32	Unsigned 32 (0..4294967295)	Used system memory, in bytes. For distributed devices, this object indicates the used system memory on the active MPU in the system.	As per the MIB.

hh3cLswSysMemoryRatio

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysMemoryRatio (1.3.6.1.4.1.25506.8.35.18.1.16)	read-only	Unsigned 32	Unsigned 32 (0..100)	Percentage of the used system memory on the device. For distributed devices, this object indicates the percentage of the used system memory on the active MPU in the system.	As per the MIB.

hh3cLswSysPhyMemRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysPhyMemRev (1.3.6.1.4.1.25506.8.35.18.1.18)	read-only	CounterBasedGauge64	Standard MIB values.	Physical memory space of the device, in bytes. For distributed devices, this object indicates the physical memory space of the active MPU in the system.	As per the MIB.

hh3cLswSysMemRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysMemRev (1.3.6.1.4.1.25506.8.35.18.1.19)	read-only	CounterBasedGauge64	Standard MIB values.	System memory space, in bytes. For distributed devices, this object indicates the system memory space of the active MPU in the system.	As per the MIB.

hh3cLswSysMemUsedRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSysMemUsedRev (1.3.6.1.4.1.25506.8.35.18.1.20)	read-only	CounterBasedGauge64	Standard MIB values.	Used system memory, in bytes. For distributed devices, this object indicates the used system memory on the active MPU in the system.	As per the MIB.

Tabular objects

hh3cLswFrameTable

About this table

This table contains chassis-level information about devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cLswFrameIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswFrameIndex	read-only	Integer32	Integer32	Chassis index.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.8.35.18.4.2.1.1)			(-2147483648..2147483647)		
hh3cLswFrameType (1.3.6.1.4.1.25506.8.35.18.4.2.1.2)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Chassis type.	Implementation varies by product.
hh3cLswFrameDesc (1.3.6.1.4.1.25506.8.35.18.4.2.1.3)	read-write	DisplayString	OCTET STRING (0..64)	Description of the chassis.	Supports only the read operation on the non-default MDC.
hh3cLswSlotNumber (1.3.6.1.4.1.25506.8.35.18.4.2.1.4)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Number of slots in the current chassis.	As per the MIB.
hh3cLswFrameAdminStatus (1.3.6.1.4.1.25506.8.35.18.4.2.1.5)	read-only	INTEGER	normal(1), fault(2), other(3)	Chassis status.	As per the MIB.
hh3cLswFrameSerialNumber (1.3.6.1.4.1.25506.8.35.18.4.2.1.6)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number of the chassis.	As per the MIB.

hh3cLswSlotTable

About this table

This table contains card information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex and hh3cLswSlotIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSlotIndex (1.3.6.1.4.1.25506.8.35.18.4.3.1.1)	read-only	Integer32	Standard MIB values.	Card index.	As per the MIB.
hh3cLswSlotType (1.3.6.1.4.1.25506.8.35.18.4.3.1.2)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Card type.	Implementation varies by product.
hh3cLswSlotDesc (1.3.6.1.4.1.25506.8.35.18.4.3.1.3)	read-write	DisplayString	OCTET STRING (0..64)	Description of the card.	Supports only the read operation on the non-default MDC.
hh3cLswSlotCpuRatio (1.3.6.1.4.1.25506.8.35.18.4.3.1.4)	read-only	Integer32	Standard MIB values.	CPU usage on the card.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSlotPcbVersion (1.3.6.1.4.1.25506.8.35.18.4.3.1.5)	read-only	DisplayString	OCTET STRING (0..64)	Hardware version of the card.	As per the MIB.
hh3cLswSlotSoftwareVersion (1.3.6.1.4.1.25506.8.35.18.4.3.1.6)	read-only	DisplayString	OCTET STRING (0..64)	Software version of the card.	As per the MIB.
hh3cLswSubslotNumber (1.3.6.1.4.1.25506.8.35.18.4.3.1.7)	read-only	Integer32	Standard MIB values.	Number of subcards.	As per the MIB.
hh3cLswSlotAdminStatus (1.3.6.1.4.1.25506.8.35.18.4.3.1.8)	read-only	INTEGER	not-install(1), normal(2), fault(3), forbidden(4)	Administrative status of the card.	As per the MIB.
hh3cLswSlotOperStatus (1.3.6.1.4.1.25506.8.35.18.4.3.1.9)	read-write	INTEGER	disable(1), enable(2), reset(3), test(4)	Operation status of the card.	Supports only reset . Supports only the read operation on the non-default MDC.
hh3cLswSlotPhyMemory (1.3.6.1.4.1.25506.8.35.18.4.3.1.10)	read-only	Unsigned32	Standard MIB values.	Physical memory space of the card, in bytes. The memory is a 32-bit wide memory.	As per the MIB.
hh3cLswSlotMemory (1.3.6.1.4.1.25506.8.35.18.4.3.1.11)	read-only	Unsigned32	Standard MIB values.	System memory space of the card, in bytes. The memory is a 32-bit wide memory.	As per the MIB.
hh3cLswSlotMemoryUsed (1.3.6.1.4.1.25506.8.35.18.4.3.1.12)	read-only	Unsigned32	Standard MIB values.	Used system memory on the card, in bytes. The memory is a 32-bit wide memory.	As per the MIB.
hh3cLswSlotMemoryRatio (1.3.6.1.4.1.25506.8.35.18.4.3.1.13)	read-only	Unsigned32	Unsigned32 (0..100)	Percentage of the system used memory on the card, in bytes.	As per the MIB.
hh3cLswSlotTemperature (1.3.6.1.4.1.25506.8.35.18.4.3.1.14)	read-only	Integer32	Standard MIB values.	Temperature of the card.	Not supported
hh3cLswSlotPktBufFree (1.3.6.1.4.1.25506.8.35.18.4.3.1.15)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Number of free packet buffers on the card.	As per the MIB.
hh3cLswSlotPktBufInit (1.3.6.1.4.1.25506.8.35.18.4.3.1.16)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Number of packet buffers on the card.	As per the MIB.
hh3cLswSlotPktBufMin (1.3.6.1.4.1.25506.8.35.18.4.3.1.17)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Minimum number of packet buffers on the card.	As per the MIB.
hh3cLswSlotPktBufMiss (1.3.6.1.4.1.25506.8.35.18.4.3.1.18)	read-only	Counter64	Counter64 (0..18446744073709551615)	Packet loss counting in packet buffers on	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
3.1.18)			4073709551615)	the card.	
hh3cLswSlotRunTime (1.3.6.1.4.1.25506.8.35.18.4.3.1.19)	read-only	DisplayString	OCTET STRING (0..64)	Running time of the card.	As per the MIB.
hh3cLswSlotMemRev (1.3.6.1.4.1.25506.8.35.18.4.3.1.20)	read-only	Counter64	Standard MIB values.	System memory space of the card, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswSlotPhyMemRev (1.3.6.1.4.1.25506.8.35.18.4.3.1.21)	read-only	Counter64	Standard MIB values.	Physical memory space of the card, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswSlotMemUsedRev (1.3.6.1.4.1.25506.8.35.18.4.3.1.22)	read-only	Counter64	Standard MIB values.	Used system memory on the card, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswSlotModelDesc (1.3.6.1.4.1.25506.8.35.18.4.3.1.23)	read-only	DisplayString	OCTET STRING (0..255)	Description of the extended module in the slot.	As per the MIB.
hh3cLswSlotPktBufThreshold (1.3.6.1.4.1.25506.8.35.18.4.3.1.24)	read-write	Integer32	Integer32 (1..100)	Threshold for the number of packet buffers on the card.	As per the MIB.
hh3cLswSlotSerialNumber (1.3.6.1.4.1.25506.8.35.18.4.3.1.25)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number of the card.	As per the MIB.

hh3cLswSubslotTable

About this table

This table contains subcard information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cLswSubslotIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSubslotIndex (1.3.6.1.4.1.25506.8.35.18.4.4.1.1)	read-only	Integer32	Standard MIB values.	Subcard index.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswSubslotType (1.3.6.1.4.1.25506.8.35.18.4.4.1.2)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Subcard type.	Implementation varies by product.
hh3cLswSubslotPortNum (1.3.6.1.4.1.25506.8.35.18.4.4.1.3)	read-only	Integer32	Standard MIB values.	Port number of the subcard.	As per the MIB.
hh3cLswSubslotAdminStatus (1.3.6.1.4.1.25506.8.35.18.4.4.1.4)	read-only	INTEGER	not-install(1), normal(2), fault(3), forbidden(4)	Status of the subacard.	As per the MIB.
hh3cLswSubslotFirstIfIndex (1.3.6.1.4.1.25506.8.35.18.4.4.1.5)	read-only	Integer32	Standard MIB values.	Index of the first physical port on the subcard.	Supports only Ethernet ports.
hh3cLswSubslotSerialNumbe r(1.3.6.1.4.1.25506.8.35.18.4.4.1.6)	read-only	SnmpAdminS tring	OCTET STRING (0..32)	Serial number of the subcard.	As per the MIB.

hh3cLswPortTable

About this table

This table contains port information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, hh3cLswSubslotIndex, and hh3cLswPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswPortIndex (1.3.6.1.4.1.25506.8.35.18.4.5.1.1)	read-only	Integer32	Standard MIB values.	Port index.	As per the MIB.
hh3cLswPortType (1.3.6.1.4.1.25506.8.35.18.4.5.1.2)	read-only	Integer32	Standard MIB values.	Port type.	Implementation varies by product.
hh3cLswPortIfIndex (1.3.6.1.4.1.25506.8.35.18.4.5.1.3)	read-only	Integer32	Standard MIB values.	Index of the interface attached to the port.	As per the MIB.
Hh3cLswPortIsPlugged (1.3.6.1.4.1.25506.8.35.18.4.5.1.4)	read-only	INTEGER	unplugged(0), plugged(1)	Connection status of the port.	As per the MIB.

hh3cLswFabricTable

About this table

This table contains fabric module channel information.

This table does not support the read operation only on the default MDC.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, hh3cLswSubslotIndex, and hh3cLswFabricChannelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswFabricChannelIndex (1.3.6.1.4.1.25506.8.35.18.4.7.1.1)	not-accessible	Integer32	Standard MIB values.	Channel index.	As per the MIB.
hh3cLswFabricUtilIn (1.3.6.1.4.1.25506.8.35.18.4.7.1.2)	read-only	Integer32	Integer32 (0..100)	Ingress utilization of the channel.	As per the MIB.
hh3cLswFabricUtilOut (1.3.6.1.4.1.25506.8.35.18.4.7.1.3)	read-only	Integer32	Integer32 (0..100)	Egress utilization of the channel.	As per the MIB.
hh3cLswFabricPeakIn (1.3.6.1.4.1.25506.8.35.18.4.7.1.4)	read-only	Integer32	Integer32 (0..100)	Peak ingress utilization of the channel.	As per the MIB.
hh3cLswFabricPeakInTime (1.3.6.1.4.1.25506.8.35.18.4.7.1.5)	read-only	DateAnd Time	OCTET STRING (8 11)	Time at which peak ingress utilization of the channel is present.	As per the MIB.
hh3cLswFabricPeakOut (1.3.6.1.4.1.25506.8.35.18.4.7.1.6)	read-only	Integer32	Integer32 (0..100)	Peak egress utilization of the channel.	As per the MIB.
hh3cLswFabricPeakOutTime (1.3.6.1.4.1.25506.8.35.18.4.7.1.7)	read-only	DateAnd Time	OCTET STRING (8 11)	Time at which peak egress utilization of the channel is present.	As per the MIB.

hh3cLswExtendModelTable

About this table

This table contains extended module information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cLswExtendModelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswExtendModelIndex (1.3.6.1.4.1.25506.8.35.18.4.9.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Extended module index.	As per the MIB.
hh3cLswExtendModelDesc (1.3.6.1.4.1.25506.8.35.18.4.9.1.2)	read-only	DisplayString	OCTET STRING (0..255)	Description of the Extended module.	As per the MIB.

hh3cLswCpuTable

About this table

This table contains CPU information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cLswCpuIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswCpuIndex (1.3.6.1.4.1.25506.8.35.18.4.10.1.1)	not-accessible	PhysicalIndex	Integer32 (0..2147483647)	CPU index.	As per the MIB.
hh3cLswCpuEntityIndex (1.3.6.1.4.1.25506.8.35.18.4.10.1.2)	read-only	Integer32	Standard MIB values.	Index of the CPU entity.	As per the MIB.
hh3cLswCpuRatio (1.3.6.1.4.1.25506.8.35.18.4.10.1.3)	read-only	Unsigned 32	Unsigned 32 (0..100)	Real-time CPU usage on the host.	As per the MIB.
hh3cLswCpuSoftwareVersion (1.3.6.1.4.1.25506.8.35.18.4.10.1.4)	read-only	DisplayString	OCTET STRING (0..64)	CPU software version.	As per the MIB.
hh3cLswCpuAdminStatus (1.3.6.1.4.1.25506.8.35.18.4.10.1.5)	read-only	INTEGER	notInstall(1), normal(2), fault(3), forbidden(4)	CPU status.	As per the MIB.
hh3cLswCpuOperStatus (1.3.6.1.4.1.25506.8.35.18.4.10.1.6)	read-write	INTEGER	disable(1), enable(2), reset(3), test(4)	Operation status of the CPU.	Supports reset only on the active CPU. Supports the read operation only on

Object (OID)	Access	Syntax	Value range	Description	Implementation
					the non-default MDC.
hh3cLswCpuPhyMemory (1.3.6.1.4.1.25506.8.35.18.4.10.1.7)	read-only	Counter64	Standard MIB values.	Physical memory space of the node, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswCpuMemory (1.3.6.1.4.1.25506.8.35.18.4.10.1.8)	read-only	Counter64	Standard MIB values.	System memory space of the node, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswCpuMemoryUsed (1.3.6.1.4.1.25506.8.35.18.4.10.1.9)	read-only	Counter64	Standard MIB values.	Used memory on the node, in bytes. The memory is a 64-bit wide memory.	As per the MIB.
hh3cLswCpuMemoryRatio (1.3.6.1.4.1.25506.8.35.18.4.10.1.10)	read-only	Unsigned32	Unsigned32 (0..100)	Percentage of the used memory on the node.	As per the MIB.
hh3cLswCpuUsageMinorThreshold (1.3.6.1.4.1.25506.8.35.18.4.10.1.11)	read-write	Unsigned32	Unsigned32 (1..99)	Minor CPU usage alarm threshold.	Implementation varies by product.
hh3cLswCpuUsageSevereThreshold (1.3.6.1.4.1.25506.8.35.18.4.10.1.12)	read-write	Unsigned32	Unsigned32 (2..100)	Major CPU usage alarm threshold.	Implementation varies by product.
hh3cLswCpuUsageRecoverThreshold (1.3.6.1.4.1.25506.8.35.18.4.10.1.13)	read-write	Unsigned32	Unsigned32 (0..98)	CPU usage recovery threshold.	Implementation varies by product.
hh3cLswCpuMemoryFree (1.3.6.1.4.1.25506.8.35.18.4.10.1.14)	read-only	CounterBasedGauge64	Standard MIB values.	Free memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryFreeRatio (1.3.6.1.4.1.25506.8.35.18.4.10.1.15)	read-only	Unsigned32	Unsigned32 (0..100)	Percentage of the free memory.	As per the MIB.
hh3cLswCpuMemoryHighTotal (1.3.6.1.4.1.25506.8.35.18.4.10.1.16)	read-only	CounterBasedGauge64	Standard MIB values.	Total high memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryHighFree (1.3.6.1.4.1.25506.8.35.18.4.10.1.17)	read-only	CounterBasedGauge64	Standard MIB values.	Free high memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryLowTotal (1.3.6.1.4.1.25506.8.35.18.4.10.1.18)	read-only	CounterBasedGauge64	Standard MIB values.	Total low memory size, in bytes.	As per the MIB.
hh3cLswCpuMemoryLowFree (1.3.6.1.4.1.25506.8.35.18.4.10.1.19)	read-only	CounterBasedGauge64	Standard MIB values.	Free low memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryVmallocTotal (1.3.6.1.4.1.25506.8.35.18.4.10.1.20)	read-only	CounterBasedGauge64	Standard MIB	Total vmalloc memory, in bytes.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
0)		ge64	values.		
hh3cLswCpuMemoryVmallocUsed (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 1)	read-only	CounterB asedGau ge64	Standard MIB values.	Used vmalloc memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryVmallocChunk (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 2)	read-only	CounterB asedGau ge64	Standard MIB values.	Number of chunks for the vmalloc memory.	As per the MIB.
hh3cLswCpuMemoryCommitLimit (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 3)	read-only	CounterB asedGau ge64	Standard MIB values.	Memory size that can be allocated to the system, in bytes.	As per the MIB.
hh3cLswCpuMemoryCommittedAs (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 4)	read-only	CounterB asedGau ge64	Standard MIB values.	Committed_As memory, in bytes.	As per the MIB.
hh3cLswCpuMemoryThresholdUnit (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 5)	read-write	INTEGE R	inMB(1), inPercenta ge(2)	Unit of memory thresholds.	As per the MIB.
hh3cLswCpuMemorySecureThresh old (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 6)	read-write	Unsigned 32	Standard MIB values.	Sufficient-memory threshold for the memory.	As per the MIB.
hh3cLswCpuMemoryEarlyWarning Threshold (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 7)	read-write	Unsigned 32	Standard MIB values.	Early-warning threshold for the memory.	As per the MIB.
hh3cLswCpuMemoryNormalThresh old (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 8)	read-write	Unsigned 32	Standard MIB values.	Normal state threshold for the memory.	As per the MIB.
hh3cLswCpuMemoryMinorThreshol d (1.3.6.1.4.1.25506.8.35.18.4.10.1.2 9)	read-write	Unsigned 32	Standard MIB values.	Minor memory alarm threshold.	As per the MIB.
hh3cLswCpuMemorySevereThresh old (1.3.6.1.4.1.25506.8.35.18.4.10.1.3 0)	read-write	Unsigned 32	Standard MIB values.	Major memory alarm threshold.	As per the MIB.
hh3cLswCpuMemoryCriticalThresh old (1.3.6.1.4.1.25506.8.35.18.4.10.1.3 1)	read-write	Unsigned 32	Standard MIB values.	Critical memory alarm threshold.	As per the MIB.
hh3cLswCpuMemoryCurrentState (1.3.6.1.4.1.25506.8.35.18.4.10.1.3 2)	read-only	INTEGE R	secure(1), earlywarni ng(2), normal(3), minor(4), severe(5), critical(6)	Current memory status.	As per the MIB.

hh3cLswPowerTable

About this table

This table contains power supply information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cLswPowerIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswPowerIndex (1.3.6.1.4.1.25506.8.35.18.4.11.1.1)	read-only	Integer32	Standard MIB values.	Power supply index.	As per the MIB.
hh3cLswPowerSerialNumber (1.3.6.1.4.1.25506.8.35.18.4.11.1.2)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number of the power supply.	As per the MIB.

hh3cLswFanTable

About this table

This table contains fan information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cLswFanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswFanIndex (1.3.6.1.4.1.25506.8.35.18.4.12.1.1)	read-only	Integer32	Standard MIB values.	Fan index.	As per the MIB.
hh3cLswFanSerialNumber (1.3.6.1.4.1.25506.8.35.18.4.12.1.2)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number of the fan.	As per the MIB.

hh3cLswTransceiverTable

About this table

This table contains transceiver module information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cLswTransceiverIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswTransceiverIndex (1.3.6.1.4.1.25506.8.35.18.4.13.1.1)	read-only	Integer32	Standard MIB values.	Transceiver module index.	As per the MIB.
hh3cLswTransceiverSerialNumber (1.3.6.1.4.1.25506.8.35.18.4.13.1.2)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number of the transceiver module.	As per the MIB.

hh3cLswCoreTable

About this table

This table contains CPU core information.

Support for this table varies by product.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, hh3cLswCpuIndex, and hh3cLswCoreIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswCoreIndex (1.3.6.1.4.1.25506.8.35.18.4.15.1.1)	read-only	Integer32	Standard MIB values.	CPU core index.	As per the MIB.
hh3cLswCoreUsageInLast5Sec (1.3.6.1.4.1.25506.8.35.18.4.15.1.2)	read-only	Unsigned 32	Standard MIB values.	CPU core usage in the most recent 5-second interval.	As per the MIB.

hh3cLswCoreUsageInLast1Min (1.3.6.1.4.1.25506.8.35.18.4.15.1.3)	read-only	Unsigned 32	Standard MIB values.	CPU core usage in the most recent 1-minute interval.	As per the MIB.
hh3cLswCoreUsageInLast5Min (1.3.6.1.4.1.25506.8.35.18.4.15.1.4)	read-only	Unsigned 32	Standard MIB values.	CPU core usage in the most recent 5-minute interval.	As per the MIB.
hh3cLswCoreThreshold (1.3.6.1.4.1.25506.8.35.18.4.15.1.5)	read-write	Unsigned 32	Standard MIB values.	CPU core alarm threshold.	As per the MIB.
hh3cLswCoreState (1.3.6.1.4.1.25506.8.35.18.4.15.1.6)	read-only	INTEGER	normal(1) , warning(2)	CPU core status.	As per the MIB.

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HH3C-LswDEVM-MIB

About this MIB

Use this MIB to obtain information the resources on the device. For example, access this MIB to obtain power supply or fan information, including their number or status.

MIB file name

hh3c-splat-devm.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswdevMMib(9)

Scalar objects

hh3cdot1qTpFdbLearnStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qTpFdbLearnStatus (1.3.6.1.4.1.25506.8.35.9.1.10)	read-write	INTEGER	enabled(1), disabled(2)	Enablement status of MAC address learning.	Implementation varies by product.

hh3cDevMFirstTrapTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDevMFirstTrapTime (1.3.6.1.4.1.25506.8.35.9.1.13)	accessible-for-notify	TimeTicks	Standard MIB values.	Time when the first trap is sent.	Implementation varies by product.

Tabular objects

hh3cdevMFanStatusTable

About this table

This table contains basic fan information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cDevMFanNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDevMFanNum (1.3.6.1.4.1.25506.8.35.9.1.1.1.1)	read-only	Integer32	Standard MIB values.	Fan index.	Implementation varies by product.
hh3cDevMFanStatus (1.3.6.1.4.1.25506.8.35.9.1.1.1.2)	read-only	INTEGER	active(1), deactive(2), not-install(3), unsupport(4)	Fan status.	Implementation varies by product.
hh3cDevMFanPosFrame	read-only	Integer32	Standard MIB values.	ID of the chassis where the fan resides.	Not supported
hh3cDevMFanPosSlot	read-only	Integer32	Standard MIB values.	Slot number of the fan.	Not supported
hh3cDevMFanPosIndex	read-only	Integer32	Standard MIB values.	Fan number.	Not supported
hh3cDevMFanMaxSpeed	read-only	Integer32	Standard MIB values.	Maximum fan speed.	Not supported
hh3cDevMFanCurrentSpeed	read-only	Integer32	Standard MIB values.	Current fan speed.	Not supported

hh3cdevMPowerStatusTable

About this table

This table contains basic power supply information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cDevMPowerNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDevMPowerNum (1.3.6.1.4.1.25506.8.35.9.1.2.1.1)	read-only	Integer32	Standard MIB values.	Power supply index.	Implementation varies by product.
hh3cDevMPowerStatus (1.3.6.1.4.1.25506.8.35.9.1.2.1.2)	read-only	INTEGER	active(1), deactive(2), not-install(3), unsupport(4)	Power supply status.	Implementation varies by product.
hh3cDevMPowerEntIndex (1.3.6.1.4.1.25506.8.35.9.1.2.1.3)	read-only	Integer32	Standard MIB values.	Entity index of the power supply.	Implementation varies by product.

hh3cdevMSlotEnvironmentTable

About this table

This table contains environment information for a card.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex, hh3cLswSlotIndex, and hh3cdevMSlotEnvironmentType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdevMSlotEnvironmentType (1.3.6.1.4.1.25506.8.35.9.1.3.1.1)	not-accessible	INTEGER	temperature(1), humidity(2), fog(3)	Type of the environment elements.	Implementation varies by product.
hh3cDevMSlotEnvironmentStatus (1.3.6.1.4.1.25506.8.35.9.1.3.1.2)	read-only	INTEGER	normal(1), upper(2), lower(3)	Status of the environment where the card resides.	Not supported.
hh3cDevMSlotEnvironmentValue (1.3.6.1.4.1.25506.8.35.9.1.3.1.3)	read-only	Integer32	Standard MIB values.	Environment data for the card.	Implementation varies by product.
hh3cDevMSlotEnvironmentUpper Limit (1.3.6.1.4.1.25506.8.35.9.1.3.1.4)	read-write	Integer32	Standard MIB values.	Upper limit for the environment requirements.	Not supported.
hh3cDevMSlotEnvironmentLower Limit (1.3.6.1.4.1.25506.8.35.9.1.3.1.5)	read-write	Integer32	Standard MIB values.	Lower limit for the environment requirements.	Not supported.

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HH3C-LswTRAP-MIB

About this MIB

This MIB contains information about notifications for state change of cards and resources on the device.

MIB file name

hh3c-splat-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswTrapMib(12)

Scalar objects

hh3csLswTrapCpuCoreInfo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3csLswTrapCpuCoreInfo (1.3.6.1.4.1.25506.8.35.12.2.1)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	CPU core information in CPU notifications.	As per the MIB.

hh3csLswTrapProcessCpuInfo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3csLswTrapProcessCpuInfo (1.3.6.1.4.1.25506.8.35.12.2.1)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Process information in CPU notifications.	As per the MIB.

hh3csLswTrapProcessMemoryInfo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3csLswTrapProcessMemoryInfo (1.3.6.1.4.1.25506.8.35.12.2.3)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Memory information in CPU notifications.	As per the MIB.

hh3csLswTrapSlubInfo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3csLswTrapSlubInfo (1.3.6.1.4.1.25506.8.35.12.2.4)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Slub information in CPU notifications.	As per the MIB.

hh3cLswTrapCpuUsage

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswTrapCpuUsage (1.3.6.1.4.1.25506.8.35.12.2.5)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	CPU usage information in CPU notifications.	As per the MIB.

hh3cLswTrapCoreProcessInfo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswTrapCoreProcessInfo (1.3.6.1.4.1.25506.8.35.12.2.6)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Core process information in CPU notifications.	As per the MIB.

hh3cLswCoreTrapUsage

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswCoreTrapUsage (1.3.6.1.4.1.25506.8.35.12.2.7)	accessible-for-notify	Unsigned 32	Standard MIB values.	CPU usage in the most recent 30 minutes.	As per the MIB.

hh3cBoardAvailablePower

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBoardAvailablePower (1.3.6.1.4.1.25506.8.35.12.2.8)	accessible-for-notify	Integer32	Standard MIB values.	Available power.	As per the MIB.

hh3cBoardRequiredPower

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBoardRequiredPower (1.3.6.1.4.1.25506.8.35.12.2.9)	accessible-for-notify	Integer32	Standard MIB values.	Required power.	As per the MIB.

hh3cLswAlarmInPortInNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswAlarmInPortInNum (1.3.6.1.4.1.25506.8.35.12.2.10)	accessible-for-notify	Unsigned 32	Standard MIB values.	Number of alarm in ports.	As per the MIB.

hh3cHeartbeatTimeoutSeconds

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cHeartbeatTimeoutSeconds (1.3.6.1.4.1.25506.8.35.12.2.19)	accessible-for-notify	Unsigned 32	Standard MIB values.	Heartbeat timeout, in seconds.	As per the MIB.

Notifications

This section contains the HH3C-LswTRAP-MIB notifications.

hh3cpowerfailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.1	Failure of a power supply	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.2(hh3cPowerNormal)	ON

Description

This notification is generated when a power supply fails or a new power supply is inserted into the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.2.1.1 (hh3cDevMPowerNum)	Power supply ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.9.1.13 (hh3cDevMFirstTrapTime)	Timestamp of the notification.	N	TimeTicks	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the power supply is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cPowerNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.2	Recovery of a power supply from a fault	Recovery	N/A	N/A	ON

Description

This notification is generated when a power supply recovers from an abnormal state.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.2.1.1 (hh3cDevMPPowerNum)	Power supply ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.9.1.13 (hh3cDevMFirstTrapTime)	Timestamp of the notification.	N	TimeTicks	Standard MIB values.

Recommended action

No action is required.

hh3cPowerRemoved

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.5	Removal of a power supply	Error	Minor	1.3.6.1.4.1.25506.8.35.12.1.23 (hh3cPowerInserted)	ON

Description

This notification is generated when a power supply is removed from the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.2.1.1 (hh3cDevMPPowerNum)	Power supply ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that a power supply is removed from the device.
 - If the power supply is removed from the device, no action is required.
 - If the power supply is not removed from the device, verify that the power supply is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cfanfailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.6	Failure of a fan tray	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.7(hh3cFanNormal)	ON

Description

This notification is generated when a fan tray fails.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.1.1.1 (hh3cDevMFFanNum)	Fan tray ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the fan tray is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cFanNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.7	Recovery of a fan tray from a fault.	Recovery	N/A	N/A	ON

Description

This notification is generated when a fan tray recovers from a fault.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.1.1.1 (hh3cDevMFFanNum)	Fan tray ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cBoardRemoved

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.8	Removal of a card	Error	Minor	1.3.6.1.4.1.25506.8.35.12.1.9(hh3cBoardInserted)	ON

Description

This notification is generated when a card is removed from the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the card is removed from the device.
 - If the card is removed from the device, no action is required.
 - If the card is not removed from the device, verify that the card is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cBoardInserted

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.9	Insertion of a card	Recovery	N/A	N/A	ON

Description

This notification is generated when a card is inserted into the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cBoardFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.10	Failure or startup of a card	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.11(hh3cBoardNormal)	ON

Description

This notification is generated when a card is starting up or a fault occurs on the card.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Member ID of the device	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the card is installed correctly.
2. If the issue persists after 24 hours, contact H3C Support.

hh3cBoardNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.11	Initialization completion of a card	Recovery	N/A	N/A	ON

Description

This notification is generated when a card completes initialization.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cSubcardRemove

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.12	Removal of a subcard	Error	Minor	1.3.6.1.4.1.25506.8.35.12.1.13(hh3cSubcardInsert)	ON

Description

This notification is generated when a subcard is removed from the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Member ID of the device	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.4.1.1 (hh3cLswSubslotIndex)	Subslot ID	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the subcard is removed from the device.
 - If the subcard is removed from the device, no action is required.
 - If the subcard is not removed from the device, verify that the subcard is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cSubcardInsert

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.13	Insertion of a subcard	Recovery	N/A	N/A	ON

Description

This notification is generated when a subcard is inserted into the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.4.1.1 (hh3cLswSubslotIndex)	Subslot ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cPowerInserted

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.23	Insertion of a power supply	Recovery	N/A	N/A	ON

Description

This notification is generated when a power supply is inserted into the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.2.1.1 (hh3cDevMPowerNum)	Power supply ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cCpuRemoved

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.25	Removal of a non-default CPU	Error	Minor	N/A	ON

Description

This notification is generated when a non-default CPU subcard is removed from the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the non-default CPU is removed from the device.
 - If the non-default CPU is removed from the device, no action is required.
 - If the non-default CPU is not removed from the device, verify that the non-default CPU is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cCpuFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.26	Failure or startup of a non-default CPU	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.27(hh3cCpuNormal)	ON

Description

This notification is generated when a non-default CPU is starting up or a fault occurs on it.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the non-default CPU is installed correctly.
2. If the issue persists after 24 hours, contact H3C Support.

hh3cCpuNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.27	Initialization completion of a non-default CPU	Recovery	N/A	N/A	ON

Description

This notification is generated when a non-default CPU completes initialization.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cPowerIncompatible

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.28	Incompatibility of a power supply with the device	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.2(hh3cPowerNormal)	ON

Description

This notification is generated when a power supply is not compatible with the device.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.9.1.2.1.1 (hh3cDevMPowerNum)	Power supply ID.	Y	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the power supply is installed correctly.
2. If the issue persists, contact H3C Support.

hh3cCpuUsageSevereNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.29	Severe CPU usage alarm	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.30(hh3cCpuUsageSevereRecoverNotification)	ON

Description

This notification is generated when the CPU usage increases to or above the hh3cLswCpuUsageSevereThreshold. This notification is sent at intervals of 60 seconds until the alarm is cleared.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.3 (hh3cLswCpuRatio)	CPU usage.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.11 (hh3cLswCpuUsageMinorThreshold)	Minor CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.12 (hh3cLswCpuUsageSevereThreshold)	Severe CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.13 (hh3cLswCpuUsageRecoverThreshold)	CPU usage recovery threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top1)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top2)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top3)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top4)
1.3.6.1.4.1.25506.8.35.12.2.1	CPU core usage (top5).	N	SnmpAdminString	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
(hh3csLswTrapCpuCoreInfo)			ring	(hh3cLswCpuCoreUsage-top5)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top1)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top2)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top3)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top4)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top5)

Recommended action

No action is required.

hh3cCpuUsageSevereRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.30	Clearance of a severe CPU usage alarm	Recovery	N/A	N/A	ON

Description

This notification is generated when the CPU usage decreases to or below the hh3cLswCpuUsageSevereThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.3 (hh3cLswCpuRatio)	CPU usage.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.11 (hh3cLswCpuUsageMinorThreshold)	Minor CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.12 (hh3cLswCpuUsageSevereThreshold)	Severe CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.13 (hh3cLswCpuUsageRecoverThreshold)	CPU usage recovery threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top1)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top2)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top3)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top4)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top5)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top1)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top2)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top3)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top4)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top5)

Recommended action

No action is required.

hh3cCpuUsageMinorNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.31	Minor CPU usage alarm	Error	Warning	1.3.6.1.4.1.25506.8.35.12.1.32(hh3cCpuUsageMinorRecoverNotification)	ON

Description

This notification is generated when the CPU usage increases to or above the hh3cLswCpuUsageMinorThreshold. This notification is sent at intervals of 300 seconds until the alarm is cleared.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.3 (hh3cLswCpuRatio)	CPU usage.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.11 (hh3cLswCpuUsageMinorThreshold)	Minor CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.12 (hh3cLswCpuUsageSevereThreshold)	Severe CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.13 (hh3cLswCpuUsageRecoverThreshold)	CPU usage recovery threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3cLswTrapCpuCoreInfo)	CPU core usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top1)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3cLswTrapCpuCoreInfo)	CPU core usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top2)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3cLswTrapCpuCoreInfo)	CPU core usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top3)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3cLswTrapCpuCoreInfo)	CPU core usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top4)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top5)	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top5)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top1)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top2)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top3)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top4)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top5)

Recommended action

Potential risks exist. It is necessary to assess whether to take appropriate measures.

hh3cCpuUsageMinorRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.32	Minor CPU usage alarm clearance	Recovery	N/A	N/A	ON

Description

This notification is generated when the CPU usage decreases to or below the hh3cLswCpuUsageMinorThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.

1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.3 (hh3cLswCpuRatio)	CPU usage.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.11 (hh3cLswCpuUsageMinorThreshold)	Minor CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.12 (hh3cLswCpuUsageSevereThreshold)	Severe CPU usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.13 (hh3cLswCpuUsageRecoverThreshold)	CPU usage recovery threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top1)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top2)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top3)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top4)
1.3.6.1.4.1.25506.8.35.12.2.1 (hh3csLswTrapCpuCoreInfo)	CPU core usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswCpuCoreUsage-top5)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio -top1)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio -top2)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio-top3)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio -top4)
1.3.6.1.4.1.25506.8.35.12.2.2 (hh3csLswTrapProcessCpuInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessCpuRatio -top5)

Recommended action

No action is required.

hh3cMemoryUsageEarlyWarningNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.33	Memory usage early warning alarm	Informational	N/A	1.3.6.1.4.1.25506.8.35.12.1.34(hh3cMemoryUsageEarl	ON

				yWarningRecover Notification)	
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Description

This notification is generated when the amount of free memory decreases to or below the hh3cMemoryUsageEarlyWarningThreshold. This notification is sent at intervals of 1 hours until the alarm is cleared or a higher severity alarm is generated.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRadio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThresho Id)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningT hreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThresho Id)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThresho ld)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshol d)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshol d)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe moryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe moryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe moryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe moryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe moryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top5)

Recommended action

Potential risks exist. It is necessary to assess whether to take appropriate measures.

hh3cMemoryUsageEarlyWarningRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.34	Memory usage early warning alarm clearance	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of free memory usage increases to or above the hh3cMemoryUsageSecureThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRatio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

OID (object name)	Description	Index	Type	Value range
				d-top5)

Recommended action

No action is required.

hh3cMemoryUsageMinorNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.35	Minor memory usage alarm	Error	Minor	1.3.6.1.4.1.25506.8.35.12.1.36(hh3cMemoryUsageMinorRecoverNotification)	ON

Description

This notification is generated when the amount of free memory decreases to or below the hh3cLswCpuMemoryMinorThreshold. The notification is sent at intervals of 12 hours until the alarm condition is cleared or a higher severity alarm is generated.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRatio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUse d-top5)

Recommended action

The issue needs to be reviewed to determine whether action is necessary.

hh3cMemoryUsageMinorRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 8.35.12.1.36	Minor memory usage notification clearance	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of free memory usage increases to or above the hh3cLswCpuMemoryNormalThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGa uge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14	Free memory size.	N	CounterBasedGa	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
(hh3cLswCpuMemoryFree)			uge64	
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRadio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe

OID (object name)	Description	Index	Type	Value range
(hh3csLswTrapProcessMemoryInfo)				moryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4)	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

Recommended action

No action is required.

hh3cMemoryUsageSevereNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.37	Severe memory usage alarm	Error	Major	1.3.6.1.4.1.25506.8.35.12.1.38(hh3cMemoryUsageSevereRecoverNotification)	ON

Description

This notification is generated when the amount of free memory decreases to or below the hh3cMemoryUsageSevereThreshold. This notification is sent at intervals of 3 hours until the alarm is cleared or a higher severity alarm is generated.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1	Chassis ID.	Y	Integer32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
(hh3cLswFrameIndex)				
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRadio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMe

OID (object name)	Description	Index	Type	Value range
				moryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

Recommended action

The issue has significant impact on services. Immediate action is required.

hh3cMemoryUsageSevereRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.38	Severe memory usage alarm clearance	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of free memory usage increases to or above the hh3cMemoryUsageMinorThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRatio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4),

OID (object name)	Description	Index	Type	Value range
				severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3cLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3cLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

Recommended action

No action is required.

hh3cMemoryUsageCriticalNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.39	Critical memory usage alarm	Error	Critical	1.3.6.1.4.1.25506.8.35.12.1.40(hh3cMemoryUsageCriticalRecoverNotification)	ON

Description

This notification is generated when the amount of free memory decreases to or below the hh3cMemoryUsageCriticalThreshold. This notification is sent at intervals of 1 hours until the alarm is cleared.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRatio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

Recommended action

The issue puts the system assets and services at risk. Immediate action is required.

hh3cMemoryUsageCriticalRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.40	Critical memory usage alarm clearance	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of free memory usage increases to or above the hh3cMemoryUsageSevereThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.8 (hh3cLswCpuMemory)	Total memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.14 (hh3cLswCpuMemoryFree)	Free memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.15 (hh3cLswCpuMemoryFreeRatio)	Free memory ratio.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.16 (hh3cLswCpuMemoryHighTotal)	Total high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.17 (hh3cLswCpuMemoryHighFree)	Free high memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.18 (hh3cLswCpuMemoryLowTotal)	Total low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.19 (hh3cLswCpuMemoryLowFree)	Free low memory size.	N	CounterBasedGauge64	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.26 (hh3cLswCpuMemorySecureThreshold)	Sufficient memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.27 (hh3cLswCpuMemoryEarlyWarningThreshold)	Early-warning memory threshold.	N	Unsigned32	1 to 100, in percentage

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.10.1.28 (hh3cLswCpuMemoryNormalThreshold)	Normal state memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.29 (hh3cLswCpuMemoryMinorThreshold)	Minor memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.30 (hh3cLswCpuMemorySevereThreshold)	Severe memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.31 (hh3cLswCpuMemoryCriticalThreshold)	Critical memory threshold.	N	Unsigned32	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.18.4.10.1.32 (hh3cLswCpuMemoryCurrentState)	Current memory state.	N	INTEGER	secure(1), earlywarning(2), normal(3), minor(4), severe(5), critical(6)
1.3.6.1.4.1.25506.8.35.18.4.10.1.33 (hh3cLswCpuMemoryUsageThreshold)	Memory usage threshold.	N	CounterBasedGauge64	1 to 100, in percentage
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.3 (hh3csLswTrapProcessMemoryInfo)	Process usage (top5).	N	SnmpAdminString	Standard MIB values. (hh3cLswProcessMemoryUsed-top5)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 1).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top1)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 2).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top2)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 3).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top3)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 4).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top4)
1.3.6.1.4.1.25506.8.35.12.2.4 (hh3csLswTrapSlubInfo)	Slub information (top 5).	N	SnmpAdminString	Standard MIB values. (hh3cLswSlubInfoUsed-top5)

Recommended action

No action is required.

hh3cCoreUsageNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.1	CPU core usage alarm	Error	Warning	1.3.6.1.4.1.25506.8.35.12.3.0.10 (hh3cCoreUsageSevereRecoveryNotification)	ON

Description

This notification is generated when the amount of core usage increases to or above the hh3cLswCoreThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.15.1.1 (hh3cLswCoreIndex)	CPU core ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.7 (hh3cLswCoreTrapUsage)	CPU core usage in the most recent 30 minutes.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.15.1.5 (hh3cLswCoreThreshold)	CPU core usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.5 (hh3cLswTrapCpuUsage)	CPU usage during the most recent 5 seconds, 1 minute, 5 minutes.	N	SnmpAdminString	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.6 (hh3cLswTrapCoreProcessInfo)	Process usage (top1).	N	SnmpAdminString	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.6 (hh3cLswTrapCoreProcessInfo)	Process usage (top2).	N	SnmpAdminString	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.6 (hh3cLswTrapCoreProcessInfo)	Process usage (top3).	N	SnmpAdminString	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.6 (hh3cLswTrapCoreProcessInfo)	Process usage (top4).	N	SnmpAdminString	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.6	Process usage (top5).	N	SnmpAdminString	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
(hh3cLswTrapCoreProcessInfo)				
1.3.6.1.4.1.25506.8.35.18.4.15.1.7 (hh3cLswCoreMinorThreshold)	Minor CPU core usage threshold.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.15.1.8 (hh3cLswCoreRecoveryThreshold)	CPU core normal state threshold.	N	Unsigned32	Standard MIB values.

Recommended action

No action is required.

hh3cBoardPowerNotEnough

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.2	Power insufficiency for a card	Error	Major	N/A	ON

Description

This notification is generated when the power provided for a card is not enough.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.8 (hh3cBoardAvailablePower)	Available power.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.9 (hh3cBoardRequiredPower)	Required power.	N	Integer32	Standard MIB values.

Recommended action

Replace the power supplies with high-power ones.

hh3cAlarmInPortIn

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.3	Electrical level state received on an alarm input port inconsistent with that configured for the port.	Informational	N/A	1.3.6.1.4.1.25506.8.35.12.3.0.4(hh3cAlarmInPortRecover)	ON

Description

This notification is generated when the electrical level state received on an alarm input port is inconsistent with that configured for the port.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.10 (hh3cLswAlarmInPortInNum)	Alarm input port number.	N	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cAlarmInPortRecover

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.4	Electrical level state received on an alarm input port become consistent with that configured for the port	Recovery	N/A	N/A	ON

Description

This notification is generated when the electrical level state received on an alarm input port becomes consistent with that configured for the port.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.8.35.12.2.9 (hh3cLswAlarmInPortInNum)	Alarm input port number.	N	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cLoadFinished

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.20	A card finished loading of the image file.	Informational	N/A	N/A	ON

Description

This notification is generated when a card finishes loading of the image file.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1(hh3cLswFrameIndex)	Chassis ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer	Standard MIB values.

Recommended action

No action is required.

hh3cBootImageUpdated

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.24	Startup software images updated.	Informational	N/A	N/A	ON

Description

This notification is generated when the startup software images are updated.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1(hh3cLswFrameIndex)	Chassis ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer	Standard MIB values.

Recommended action

No action is required.

hh3cRequestLoading

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.1.18	Image loading request received.	Informational	N/A	N/A	ON

Description

This notification is generated when the loading service end receives an image loading request.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1(hh3cLswFrameIndex)	Chassis ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer	Standard MIB values.

Recommended action

No action is required.

hh3cBoardHeartbeatTimeout

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.46	Heartbeat between the MPU and a card timed out.	Error	Warning	1.3.6.1.4.1.25506.8.35.12.3.0.47(hh3cBoardHeartbeatResume)	ON

Description

This notification is generated when the heartbeat between the MPU and a card times out.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cHeartbeatTimeoutSeconds)	Heartbeat timeout, in seconds.	N	Integer	Standard MIB values.

Recommended action

Check the connection between the MPU and the card.

hh3cBoardHeartbeatResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.12.3.0.47	Heartbeat between the MPU and a card resumed.	Informational	N/A	N/A	ON

Description

This notification is generated when the heartbeat between the MPU and a card resumes.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.18.4.2.1.1 (hh3cLswFrameIndex)	Chassis ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.3.1.1 (hh3cLswSlotIndex)	Slot ID.	Y	Integer	Standard MIB values.
1.3.6.1.4.1.25506.8.35.18.4.10.1.1 (hh3cLswCpuIndex)	CPU ID.	Y	Integer	Standard MIB values.

Recommended action

No action is required.

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HH3C-RES-MON-MIB

About this MIB

Use this MIB to monitor and manage state changes of cards and hardware resources on the device and enable the device to send notifications.

MIB file name

hh3c-res-mon.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cResMon(169)

Scalar objects

hh3cResMonMinorResendEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cResMonMinorResendEnable(1.3.6.1.4.1.25506.2.169.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of the minor resource depletion alarm resending feature.	As per the MIB.

hh3cResMonOutputEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cResMonOutputEnable(1.3.6.1.4.1.25506.2.169.1.2)	read-write	BITS	BITS {syslog(0), snmpNotification(1), netconfEvent(2)}	Destinations for resource depletion alarms.	As per the MIB.

Tabular objects

hh3cResMonConfigTable

About this table

Use this table to configure resource monitoring settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cResMonChassisIndex, hh3cResMonSlotIndex, hh3cResMonCpuIndex, and hh3cResMonResourceName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cResMonChassisIndex (1.3.6.1.4.1.25506.2.169.2.1.1.1)	read-only	Unsigned 32	Standard MIB values.	Member ID of the device.	As per the MIB.
hh3cResMonSlotIndex (1.3.6.1.4.1.25506.2.169.2.1.1.2)	read-only	Unsigned 32	Standard MIB values.	Slot number.	As per the MIB.
hh3cResMonCpuIndex (1.3.6.1.4.1.25506.2.169.2.1.1.3)	read-only	Unsigned 32	Standard MIB values.	CPU ID.	As per the MIB.
hh3cResMonResourceName (1.3.6.1.4.1.25506.2.169.2.1.1.4)	read-only	OCTET STRING	OCTET STRING (1..31)	Resource name.	As per the MIB.
hh3cResMonThresholdUnit (1.3.6.1.4.1.25506.2.169.2.1.1.5)	read-write	INTEGER	absolute(1), percentage(2)	Method for specifying resource depletion thresholds.	As per the MIB.
hh3cResMonMinorThreshold (1.3.6.1.4.1.25506.2.169.2.1.1.6)	read-write	Unsigned 32	Standard MIB values.	Minor resource depletion threshold.	As per the MIB.
hh3cResMonSevereThreshold (1.3.6.1.4.1.25506.2.169.2.1.1.7)	read-write	Unsigned 32	Standard MIB values.	Severe resource depletion threshold.	As per the MIB.

hh3cResMonInfoTable

About this table

Use this table to obtain information about hardware resources.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cResMonChassisIndex, hh3cResMonSlotIndex, hh3cResMonCpuIndex, and hh3cResMonResourceName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cResMonUnit (1.3.6.1.4.1.25506.2.169.2.2.1.1)	read-only	INTEGER	absolute(1), percentage(2)	Expression method for the resource thresholds	As per the MIB.
hh3cResMonCurrent (1.3.6.1.4.1.25506.2.169.2.2.1.2)	read-only	Unsigned 32	Standard MIB values.	Amount of the used resource.	As per the MIB.
hh3cResMonFree (1.3.6.1.4.1.25506.2.169.2.2.1.3)	read-only	Unsigned 32	Standard MIB values.	Amount of the free resource.	As per the MIB.
hh3cResMonTotal (1.3.6.1.4.1.25506.2.169.2.2.1.4)	read-only	Unsigned 32	Standard MIB values.	Total size of resource.	As per the MIB.

Notifications

hh3cResMonMinorNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.1	Minor resource depletion alarm occurred	Error	Minor	1.3.6.1.4.1.25506.2.169.3.0.2(hh3cResMonMinorRecoverNotification)	ON

Description

This notification is generated when the amount of the free resource decreased to or below the hh3cResMonMinorThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2 (hh3cResMonFree)	Amount of the free resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.3 (hh3cResMonTotal)	Total size of resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

This issue has minor impact on the current services. To avoid more serious issues, take actions at an appropriate time or perform further observation.

hh3cResMonMinorRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.2	Minor resource depletion alarm cleared	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of the free resource increased to or above the hh3cResMonMinorThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2 (hh3cResMonFree)	Amount of the free resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.3 (hh3cResMonTotal)	Total size of resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

No action is required.

hh3cResMonSevereNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.3	Severe resource depletion alarm occurred	Error	Major	1.3.6.1.4.1.25506.2.169.3.0.4(hh3cResMonSevereRecoverNotification)	ON

Description

This notification is generated when the amount of the free resource increased to or above the hh3cResMonSevereThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2 (hh3cResMonFree)	Amount of the free resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.3 (hh3cResMonTotal)	Total size of resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

The issue has significant impact on current services. Immediate action is required.

hh3cResMonSevereRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.4	Severe resource depletion alarm cleared	Recovery	N/A	N/A	ON

Description

This notification is generated when the amount of the free resource is increased to or above hh3cResMonSevereThreshold.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2 (hh3cResMonFree)	Amount of the free resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.3 (hh3cResMonTotal)	Total size of resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

No action is required.

hh3cResMonUsedUpNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.5	Resource used up alarm occurred	Error	Critical	1.3.6.1.4.1.25506.2.169.3.0.6(hh3cResMonUsedUpRecoverNotification)	ON

Description

This notification is generated when the resource is used up.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2 (hh3cResMonFree)	Amount of the free resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.3	Total size of	N	Unsigned32	Standard MIB

(hh3cResMonTotal)	resource			values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

The issue puts system assets and services at risk. Immediate action is required.

hh3cResMonUsedUpRecoverNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.169.3.0.6	Resource used up alarm cleared	Recovery	N/A	N/A	ON

Description

This notification is generated when the free resource increases from zero up.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.169.2.1.1.1 (hh3cResMonChassisIndex)	Member ID of the device	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.2 (hh3cResMonSlotIndex)	Slot number	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.3 (hh3cResMonCpuIndex)	CPU ID	Y	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.4 (hh3cResMonResourceName)	Resource name	Y	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.5 (hh3cResMonThresholdUnit)	Expression method for resource depletion thresholds	N	INTEGER	absolute(1), percentage(2)
1.3.6.1.4.1.25506.2.169.2.1.1.6 (hh3cResMonMinorThreshold)	Minor resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.1.1.7 (hh3cResMonSevereThreshold)	Severe resource depletion threshold	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.1 (hh3cResMonCurrent)	Amount of the used resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.2.2.1.2	Amount of the free	N	Unsigned32	Standard MIB

(hh3cResMonFree)	resource			values.
1.3.6.1.4.1.25506.2.169.2.2.1.3 (hh3cResMonTotal)	Total size of resource	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.169.3.1.1 (hh3cResMonAdditionalInfo)	Additional information	N	OCTET STRING	Standard MIB values.

Recommended action

No action is required.

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HH3C-TRANSCEIVER-INFO-MIB

About this MIB

Use this MIB to obtain information about transceiver modules, including vendor information and physical transmission characteristics.

MIB file name

hh3c-transceiver-info.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTransceiver(70)

Tabular objects

hh3cTransceiverInfoTable

About this table

Use this table to obtain information about transceiver modules.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTransceiverHardwareType (1.3.6.1.4.1.25506.2.70.1.1.1.1)	read-only	OCTET STRING	Standard MIB values.	Hardware type of the transceiver module, such as single mode (SM).	As per the MIB.
hh3cTransceiverType (1.3.6.1.4.1.25506.2.70.1.1.1.2)	read-only	OCTET STRING	Standard MIB values.	Type of the transceiver module, such as SFP.	As per the MIB.
hh3cTransceiverWaveLength (1.3.6.1.4.1.25506.2.70.1.1.1.3)	read-only	Integer32	Standard MIB values.	Wavelength of the transceiver module, in nm.	As per the MIB.
hh3cTransceiverVendorName (1.3.6.1.4.1.25506.2.70.1.1.1.4)	read-only	OCTET STRING	Standard MIB values.	Vendor name of the transceiver module.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTransceiverSerialNumber (1.3.6.1.4.1.25506.2.70.1.1.1.5)	read-only	OCTET STRING	Standard MIB values.	Serial number of the transceiver module.	As per the MIB.
hh3cTransceiverFiberDiameterType (1.3.6.1.4.1.25506.2.70.1.1.1.6)	read-only	INTEGER	fiber9(1), fiber50(2), fiber625(3), copper(4), unknown(65535)	Fiber diameter for the transceiver module, in microns (μm).	As per the MIB.
hh3cTransceiverTransferDistance (1.3.6.1.4.1.25506.2.70.1.1.1.7)	read-only	Integer32	Standard MIB values.	Maximum transmission distance of the transceiver module, in meters.	As per the MIB.
hh3cTransceiverDiagnostic (1.3.6.1.4.1.25506.2.70.1.1.1.8)	read-only	TruthValue	true(1), false(2)	Whether the transceiver module supports digital diagnosis.	As per the MIB.
hh3cTransceiverCurrentTXPower (1.3.6.1.4.1.25506.2.70.1.1.1.9)	read-only	Integer32	Standard MIB values.	Current transmit power of the transceiver module, in dBm, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverMaximumTXPower (1.3.6.1.4.1.25506.2.70.1.1.1.10)	read-only	Integer32	Standard MIB values.	Maximum transmit power of the transceiver module, in dBm, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverMinimumTXPower (1.3.6.1.4.1.25506.2.70.1.1.1.11)	read-only	Integer32	Standard MIB values.	Minimum transmit power of the transceiver module, in dBm, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverCurrentRXPower (1.3.6.1.4.1.25506.2.70.1.1.1.12)	read-only	Integer32	Standard MIB values.	Current receive power in dBm of the transceiver module, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverMaximumRXPower (1.3.6.1.4.1.25506.2.70.1.1.1.13)	read-only	Integer32	Standard MIB values.	Maximum receive power of the transceiver module, in dBm, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverMinimumRXPower (1.3.6.1.4.1.25506.2.70.1.1.1.14)	read-only	Integer32	Standard MIB values.	Minimum receive power of the transceiver module, in dBm, accurate to 0.01 dBm.	The object returns 2147483647 when read if the device does not support this parameter.
hh3cTransceiverTemperature (1.3.6.1.4.1.25506.2.70.1.1.1.15)	read-only	Integer32	Standard MIB values.	Current temperature of the transceiver module, in °C.	As per the MIB.
hh3cTransceiverVoltage (1.3.6.1.4.1.25506.2.70.1.1.1.16)	read-only	Integer32	Standard MIB values.	Current voltage of the transceiver module, in V, accurate to 0.01 V.	As per the MIB.
hh3cTransceiverBiasCurrent	read-only	Integer32	Standard MIB values.	Current bias current of the transceiver module, in mA,	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.70.1.1.1.17)				accurate to 0.01 mA.	
hh3cTransceiverTempHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.18)	read-only	Integer32	Standard MIB values.	High temperature alarm threshold in °C, accurate to 0.001 °C , for example, 49120 representing 49.120 °C	As per the MIB.
hh3cTransceiverTempLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.19)	read-only	Integer32	Standard MIB values.	Low temperature alarm threshold in °C, accurate to 0.001 °C	As per the MIB.
hh3cTransceiverTempHiWarn (1.3.6.1.4.1.25506.2.70.1.1.1.20)	read-only	Integer32	Standard MIB values.	High temperature warning threshold in °C, accurate to 0.001 °C	As per the MIB.
hh3cTransceiverTempLoWarn (1.3.6.1.4.1.25506.2.70.1.1.1.21)	read-only	Integer32	Standard MIB values.	Low temperature warning threshold in °C, accurate to 0.001 °C	As per the MIB.
hh3cTransceiverVccHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.22)	read-only	Integer32	Standard MIB values.	High voltage alarm threshold in µV, accurate to 0.01 µV.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverVccLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.23)	read-only	Integer32	Standard MIB values.	Low voltage alarm threshold in µV, accurate to 0.01 µV.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverVccHiWarn (1.3.6.1.4.1.25506.2.70.1.1.1.24)	read-only	Integer32	Standard MIB values.	High voltage warning threshold in µV, accurate to 0.01 µV.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverVccLoWarn (1.3.6.1.4.1.25506.2.70.1.1.1.25)	read-only	Integer32	Standard MIB values.	Low voltage warning threshold in mV, accurate to 0.01 µV.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverBiasHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.26)	read-only	Integer32	Standard MIB values.	High bias current alarm threshold in µA.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverBiasLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.27)	read-only	Integer32	Standard MIB values.	Low bias current alarm threshold in µA.	As per the MIB. This object returns

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.70.1.1.1.27)					0 when read if the transceiver module does not support this parameter.
hh3cTransceiverBiasHiWarn (1.3.6.1.4.1.25506.2.70.1.1.1.28)	read-only	Integer32	Standard MIB values.	High bias current warning threshold in μA .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverBiasLoWarn (1.3.6.1.4.1.25506.2.70.1.1.1.29)	read-only	Integer32	Standard MIB values.	Low bias current warning threshold in μA .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverPwrOutHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.30)	read-only	Integer32	Standard MIB values.	High transmit power alarm threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverPwrOutLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.31)	read-only	Integer32	Standard MIB values.	Low transmit power alarm threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverPwrOutHiWarn (1.3.6.1.4.1.25506.2.70.1.1.1.32)	read-only	Integer32	Standard MIB values.	High transmit power warning threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverPwrOutLoWarn (1.3.6.1.4.1.25506.2.70.1.1.1.33)	read-only	Integer32	Standard MIB values.	Low transmit power warning threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverRcvPwrHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.34)	read-only	Integer32	Standard MIB values.	High receive power alarm threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverRcvPwrLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.35)	read-only	Integer32	Standard MIB values.	Low receive power alarm threshold in μW , accurate to 0.1 μW .	As per the MIB. This object returns 0 when read if the

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.70.1.1.1.35)					transceiver module does not support this parameter.
hh3cTransceiverRcvPwrHiWarn (1.3.6.1.4.1.25506.2.70.1.1.1.36)	read-only	Integer32	Standard MIB values.	High receive power warning threshold in μ W, accurate to 0.1 μ W.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverRcvPwrLoWarn (1.3.6.1.4.1.25506.2.70.1.1.1.37)	read-only	Integer32	Standard MIB values.	Low receive power warning threshold in μ W, accurate to 0.1 μ W.	As per the MIB. This object returns 0 when read if the transceiver module does not support this parameter.
hh3cTransceiverErrors (1.3.6.1.4.1.25506.2.70.1.1.1.38)	read-only	BITS	BITS { xcvrIOError(0), xcvrChecksum(1), xcvrTypeAndPortConfigMismatch(2), xcvrTypeNotSupported(3), wisLocalFault(4), rcvOpticalPowerFault(5), pmapmdReceiverLocalFault(6), pcsReceiveLocalFault(7), phyXSReceiveLocalFault(8), laserBiasCurrentFault(9), laserTemperatureFault(10), laserOutputPowerFault(11), txFault(12), pmapmdTransmitterLocalFault(13), pcsTransmitLocalFault(14), phyXSTransmitLocalFault(15), rxLossOfSignal(16), tecError(17), wavelengthUnlocked(18), txIsNotReadyDueToTuning(19), Unused(20-31) }	Error information about the transceiver module.	As per the MIB.
hh3cTransceiverVendorOUI (1.3.6.1.4.1.25506.2.70.1.1.1.39)	read-only	SnmpAdminString	OCTET STRING (0..255)	Vendor OUI of the transceiver module.	As per the MIB.
hh3cTransceiverRevisionNumber (1.3.6.1.4.1.25506.2.70.1.1.1.40)	read-only	SnmpAdminString	OCTET STRING (0..255)	Revision number of the transceiver module.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.70.1.1.1.40)					
hh3cTransceiverFrequency (1.3.6.1.4.1.25506.2.70.1.1.1.41)	read-only	Integer32	Standard MIB values.	Frequency of the current ITU channel, in THz, accurate to 0.01 THz.	As per the MIB.
hh3cTransceiverActiveITUChannel (1.3.6.1.4.1.25506.2.70.1.1.1.42)	read-write	Unsigned32	Unsigned32 (1..4294967295)	Index of the current ITU channel.	As per the MIB.
hh3cTransceiverCurrentWaveErr (1.3.6.1.4.1.25506.2.70.1.1.1.43)	read-only	Integer32	Standard MIB values.	Wavelength offset of the current ITU channel, in nm, accurate to 0.001 nm.	As per the MIB.
hh3cTransceiverWaveErrHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.44)	read-only	Integer32	Standard MIB values.	High wavelength offset alarm threshold for the current ITU channel, in nm, accurate to 0.001 nm..	As per the MIB.
hh3cTransceiverWaveErrLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.45)	read-only	Integer32	Standard MIB values.	Low wavelength offset alarm threshold for the current ITU channel, in nm, accurate to 0.001 nm.	As per the MIB.
hh3cTransceiverCurrentFreqErr (1.3.6.1.4.1.25506.2.70.1.1.1.46)	read-only	Integer32	Standard MIB values.	Frequency offset of the current ITU channel, in GHz, accurate to 0.1 GHz.	As per the MIB.
hh3cTransceiverFrequencyErrHiAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.47)	read-only	Integer32	Standard MIB values.	High frequency offset alarm threshold for the current ITU channel, in GHz, accurate to 0.1 GHz.	As per the MIB.
hh3cTransceiverFrequencyErrLoAlarm (1.3.6.1.4.1.25506.2.70.1.1.1.48)	read-only	Integer32	Standard MIB values.	Low frequency offset alarm threshold for the current ITU channel, in GHz, accurate to 0.1 GHz.	As per the MIB.
hh3cTransceiverPartNumber (1.3.6.1.4.1.25506.2.70.1.1.1.49)	read-only	OCTET STRING	Standard MIB values.	Part number of the transceiver module.	As per the MIB.
hh3cTransceiverProductCode (1.3.6.1.4.1.25506.2.70.1.1.1.50)	read-only	OCTET STRING	Standard MIB values.	Product code of the transceiver module.	As per the MIB.
hh3cTransceiverOriginalSN (1.3.6.1.4.1.25506.2.70.1.1.1.51)	read-only	OCTET STRING	Standard MIB values.	Original serial number of the transceiver module.	As per the MIB.

hh3cTransceiverChannelTable

About this table

Use this table to obtain statistics about channels of a transceiver module.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cTransceiverChannelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTransceiverChannelIndex (1.3.6.1.4.1.25506.2.70.1.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Transceiver module channel index.	As per the MIB.
hh3cTransceiverChannelCurTXPower (1.3.6.1.4.1.25506.2.70.1.2.1.2)	read-only	Integer32	Standard MIB values.	Current transmit power in dBm, accurate to 0.01 dBm.	This object returns 2147483647 when read if this parameter is not supported.
hh3cTransceiverChannelCurRXPower (1.3.6.1.4.1.25506.2.70.1.2.1.3)	read-only	Integer32	Standard MIB values.	Current receiver power in dBm, accurate to 0.01 dBm.	This object returns 2147483647 when read if this parameter is not supported.
hh3cTransceiverChannelTemperature (1.3.6.1.4.1.25506.2.70.1.2.1.4)	read-only	Integer32	Standard MIB values.	Current temperature in °C.	This object returns 2147483647 when read if this parameter is not supported.
hh3cTransceiverChannelBiasCurrent (1.3.6.1.4.1.25506.2.70.1.2.1.5)	read-only	Integer32	Standard MIB values.	Current bias current in mA, accurate to 0.01 mA.	This object returns 2147483647 when read if this parameter is not supported.
hh3cTransceiverChannelBiasHiAm (1.3.6.1.4.1.25506.2.70.1.2.1.6)	read-only	Integer32	Standard MIB values.	High bias current alarm threshold in µA.	As per the MIB.
hh3cTransceiverChannelBiasLoAm (1.3.6.1.4.1.25506.2.70.1.2.1.7)	read-only	Integer32	Standard MIB values.	Low bias current alarm threshold in µA.	As per the MIB.
hh3cTransceiverChannelTXPwrHiAm (1.3.6.1.4.1.25506.2.70.1.2.1.8)	read-only	Integer32	Standard MIB values.	High transmit power alarm threshold in dBm, accurate to 0.01 dBm.	As per the MIB.
hh3cTransceiverChannelTXPwrLoAm (1.3.6.1.4.1.25506.2.70.1.2.1.9)	read-only	Integer32	Standard MIB values.	Low transmit power alarm threshold in dBm, accurate to 0.01 dBm.	As per the MIB.

hh3cTransceiverITUChanTable

About this table

Use this table to obtain information about ITU channels supported on the transceiver module on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cTransceiverITUChanIdx.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTransceiverITUChanIdx (1.3.6.1.4.1.25506.2.70.1.3.1.1)	not-accessible	Unsigned32	Unsigned32 (1..4294967295)	Index of an ITU channel on the transceiver module.	As per the MIB.
hh3cTransceiverITUChanFreq (1.3.6.1.4.1.25506.2.70.1.3.1.2)	read-only	Integer32	Standard MIB values.	Frequency of the ITU channel, in THz, accurate to 0.01 THz.	As per the MIB.
hh3cTransceiverITUChanWaveLth (1.3.6.1.4.1.25506.2.70.1.3.1.3)	read-only	Integer32	Standard MIB values.	Wavelength of the ITU channel, in pm.	As per the MIB.

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HH3C-TRAP-MIB

About this MIB

Use this MIB to enable the device to send a notification to a network management station when a specific event occurs, such as a MAC address table getting full.

MIB file name

hh3c-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTrap(38)

Scalar objects

hh3cPeriodicalTrapInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPeriodicalTrapInterval (1.3.6.1.4.1.25506.2.38.1.6.1.1)	read-write	Integer32	Integer32 (0 10..3600)	Interval for sending periodical traps, in seconds.	Implementation varies by product

hh3cPeriodicalTrapSwitch

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPeriodicalTrapSwitch (1.3.6.1.4.1.25506.2.38.1.6.1.2)	read-write	INTEGER	enable(1) , disable(2)	Status of the periodical trap sending feature.	Implementation varies by product

Tabular objects

hh3cTrapDesInfoTable

About this table

Use this table to configure a trap destination host address and port number.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cTrapDesInfoIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTrapDesInfoIndex (1.3.6.1.4.1.25506.2.38.1.7.1.1.1)	not-accessible	Integer32	Integer32 (1..20)	Index of a trap destination information entry.	As per the MIB.
hh3cTrapDesIPAddress (1.3.6.1.4.1.25506.2.38.1.7.1.1.2)	read-create	IpAddress	Standard MIB values	Trap destination host IP address.	As per the MIB.
hh3cTrapDesPort (1.3.6.1.4.1.25506.2.38.1.7.1.1.3)	read-create	Integer32	Integer32 (0..65535)	Trap destination port number.	As per the MIB.
hh3cTrapDesRowStatus (1.3.6.1.4.1.25506.2.38.1.7.1.1.4)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).
hh3cTrapDesAddrTAddress (1.3.6.1.4.1.25506.2.38.1.7.1.1.5)	read-create	TAddress	Standard MIB values	Transport address.	As per the MIB.

Notifications

This section contains the HH3C-TRAP-MIB notifications.

hh3cArpTabFullTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.38.1.2.4.1	ARP table full	Informational	Major	N/A	ON

Description

This notification is generated when the ARP table gets full.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.38.1.2.3.1 (hh3cArpTabLen)	Length of the ARP table.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cRtTabFullTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.38.1.3.5.1	Routing table full	Informational	Major	N/A	ON

Description

This notification is generated when the routing table gets full.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.38.1.3.4.1 (hh3cRtTabLen)	Length of the routing table.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNdTabFullTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.38.1.5.4.1	ND table full	Informational	Major	N/A	ON

Description

This notification is generated when the ND table gets full.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.38.1.5.3.1 (hh3cNdTabLen)	Length of the ND table.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cPeriodicalTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.38.1.6.3.0.1	SNMP periodical trap	Informational	N/A	N/A	ON

Description

If no trap occurs during the interval specified by hh3cPeriodicalTrapInterval, an hh3cPeriodicalTrap is generated. If the interval is set to 0, no hh3cPeriodicalTrap will be generated.

Status control

ON

MIB: Set hh3cPeriodicalTrapSwitch to enable(1).

OFF

MIB: Set hh3cPeriodicalTrapSwitch to disable(2).

Objects

N/A

Recommended action

No action is required.

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SYSLOG-MSG-MIB

About this MIB

Use this MIB to manage syslog messages as SNMP objects and enable and view syslog message notifications.

MIB file name

rfc5676-syslog-msg.mib

Root object

iso(1).org(3).dod(6).internet(1)..mgmt(2).mib-2(1).syslogMsgMib(192)

Scalar objects

syslogMsgTable

Object (OID)	Access	Syntax	Value range	Description	Implementation
syslogMsgTableMaxSize (1.3.6.1.2.1.192.1.1.1)	read-write	Unsigned32	Standard MIB values.	Maximum number of syslog messages in syslogMsgTable.	Default value: 1024.
syslogMsgEnableNotifications (1.3.6.1.2.1.192.1.1.2)	read-write	SyslogFacility	true(1),false(2)	Whether syslogMsgNotification notifications are generated.	As per the MIB.

Tabular objects

syslogMsgTable

About this table

This table contains recent syslog messages.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is syslogMsgIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
syslogMsgIndex (1.3.6.1.2.1.192.1.2.1.1)	not-accessible	Unsigned32	Standard MIB values	Index of an entry in the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
)				syslogMsgTable.	
syslogMsgFacility (1.3.6.1.2.1.192.1.2.1.2)	read-only	SyslogFacility	kern(0), user(1), mail(2), daemon(3), auth(4), syslog(5), lpr(6), news(7), uucp(8), cron(9), authpriv(10), ftp(11), ntp(12), audit(13), console(14), cron2(15), local0(16), local1(17), local2(18), local3(19), local4(20), local5(21), local6(22), local7(23)	Facility of the syslog message.	As per the MIB.
syslogMsgSeverity (1.3.6.1.2.1.192.1.2.1.3)	read-only	SyslogSeverity	emerg(0), alert(1), crit(2), err(3), warning(4), notice(5), info(6), debug(7)	Severity of the syslog message.	As per the MIB.
syslogMsgVersion (1.3.6.1.2.1.192.1.2.1.4)	read-only	Unsigned32	Unsigned32 (0..999)	Version of the syslog message.	As per the MIB.
syslogMsgTimeStamp (1.3.6.1.2.1.192.1.2.1.5)	read-only	SyslogTimeSta mp	OCTET STRING (0 10 13)	Timestamp of the syslog message.	As per the MIB.
syslogMsgHostName (1.3.6.1.2.1.192.1.2.1.6)	read-only	DisplayString	OCTET STRING (0..255)	Host name of the syslog message.	As per the MIB.
syslogMsgAppName (1.3.6.1.2.1.192.1.2.1.7)	read-only	DisplayString	OCTET STRING (0..48)	Application name of the syslog message.	As per the MIB.
syslogMsgProcID (1.3.6.1.2.1.192.1.2.1.8)	read-only	DisplayString	OCTET STRING (0..128)	Process ID of the syslog message.	A zero-length string indicates an unknown process ID.
syslogMsgMsgID (1.3.6.1.2.1.192.1.2.1.9)	read-only	DisplayString	OCTET STRING (0..32)	Message ID of the syslog message.	A zero-length string indicates an unknown message ID.
syslogMsgSDParams (1.3.6.1.2.1.192.1.2.1.10)	read-only	Unsigned32	Standard MIB values	Total number of structured data element parameters carried in the syslog message.	As per the MIB.
syslogMsgMsg (1.3.6.1.2.1.192.1.2.1.1)	read-only	OCTET STRING	OCTET STRING (0..65535)	Message part of the syslog message.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
1)					

syslogMsgSDTable

About this table

This table contains structured data elements of syslog messages.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are syslogMsgIndex, syslogMsgSDParamIndex, syslogMsgSDID, and syslogMsgSDParamName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
syslogMsgSDParamIndex (1.3.6.1.2.1.192.1.3.1.1)	not-accessible	Unsigned32	Standard MIB values	Index of the structured data element parameters contained in a syslog message.	As per the MIB.
syslogMsgSDID (1.3.6.1.2.1.192.1.3.1.2)	not-accessible	DisplayString	OCTET STRING (1..32)	Name (SD-ID) of a structured data element.	As per the MIB.
syslogMsgSDParamName (1.3.6.1.2.1.192.1.3.1.3)	not-accessible	DisplayString	OCTET STRING (1..32)	Name of a parameter of the structured data element.	As per the MIB.
syslogMsgSDParamValue (1.3.6.1.2.1.192.1.3.1.4)	read-only	SyslogParamValueString	OCTET STRING (1..32)	Value of the parameter of the syslog message.	As per the MIB.

Notifications

This section contains the SYSLOG-MSG-MIB notifications.

syslogMsgNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.192.0.1	A syslog message generated	Informational	N/A	N/A	OFF

Description

This notification is generated when a new syslog message is received and the value of syslogMsgGenerateNotifications is true.

Status control

ON

- CLI: Use the `snmp-agent trap enable syslog` command.
- MIB: Set syslogMsgEnableNotifications to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable syslog` command.
- MIB: Set syslogMsgEnableNotifications to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.192.1.2.1.2 (syslogMsgFacility)	Facility of the syslog message.	N	SyslogFacility	kern(0) user(1) mail(2) daemon(3) auth(4) syslog(5) lpr(6) news(7) uucp(8) cron(9) authpriv(10) ftp(11) ntp(12) audit(13) console(14) cron2(15) local0(16) local1(17) local2(18) local3(19) local4(20) local5(21) local6(22) local7(23)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.192.1.2.1.3 (syslogMsgSeverity)	Severity of the syslog message.	N	SyslogSeverity	emerg(0) alert(1) crit(2) err(3) warning(4) notice(5) info(6) debug(7)
1.3.6.1.2.1.192.1.2.1.4 (syslogMsgVersion)	Version of the syslog message.	N	Unsigned32	0..999
1.3.6.1.2.1.192.1.2.1.5 (syslogMsgTimeStamp)	Timestamp of the syslog message.	N	SyslogTimeStamp	OCTET STRING (SIZE (0 10 13))
1.3.6.1.2.1.192.1.2.1.6 (syslogMsgHostName)	Host name of the syslog message.	N	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.2.1.192.1.2.1.7 (syslogMsgAppName)	Application name of the syslog message.	N	DisplayString	OCTET STRING (SIZE (0..48))
1.3.6.1.2.1.192.1.2.1.8 (syslogMsgProclD)	Process ID of the syslog message.	N	DisplayString	OCTET STRING (SIZE (0..128))
1.3.6.1.2.1.192.1.2.1.9 (syslogMsgMsgID)	Message ID of the syslog message.	N	DisplayString	OCTET STRING (SIZE (0..32))
1.3.6.1.2.1.192.1.2.1.10 (syslogMsgSDParams)	Number of structured data element parameters carried in the syslog message.	N	Unsigned32	Standard MIB values.
1.3.6.1.2.1.192.1.2.1.11 (syslogMsgMsg)	Message part of the syslog message.	N	OCTET STRING	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-LswMix-MIB

About this MIB

Use this MIB to obtain information about slot roles in an IRF fabric, trigger an active/standby or master/subordinate switchover, and obtain information about switchover records.

MIB file name

hh3c-splat-mix.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswMix(17)

Scalar objects

hh3cLswLastSwitchDate

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswLastSwitchDate (1.3.6.1.4.1.25506.8.35.17.1)	read-only	Integer32	Standard MIB values.	Date on which the last active/standby or master/subordinate switchover occurred.	The read operation is not supported on a non-default MDC.

hh3cLswLastSwitchTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswLastSwitchTime (1.3.6.1.4.1.25506.8.35.17.2)	read-only	Integer32	Standard MIB values.	Time when the last active/standby or master/subordinate switchover occurred.	The read operation is not supported on a non-default MDC.

hh3cLswMpuSwitchsNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswMpuSwitchsNum	read-only	Integer32	Standard MIB	Number of times	The read operation is not supported on a non-default

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.8.35.17.3)			values.	active/standby or master/subordinate switchovers occurred.	MDC.

hh3cLswMpuSwitch

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswMpuSwitch (1.3.6.1.4.1.25506.8.35.17.4)	read-write	INTEGER	switch(1)	This object triggers an active/standby or master/subordinate switchover.	The read operation is not supported.

Tabular objects

hh3cLswXSlotTable

About this table

Use this table to obtain slot role information in an IRF fabric. For modular devices, a slot refers to an MPU or an interface module. For fix-port devices or expandable fixed-port devices, a slot refers to an IRF member device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cLswFrameIndex and hh3cLswSlotIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLswMainCardBoardStatus (1.3.6.1.4.1.25506.8.35.17.5.1.1)	read-only	INTEGER	master(1), standby(2), process(3)	Role of a slot in an IRF fabric.	As per the MIB.
hh3cLswCrossBarStatus (1.3.6.1.4.1.25506.8.35.17.5.1.2)	read-only	INTEGER	master(1), standby(2)	Cross bar role of the slot.	Not supported.

Notifications

The following information describes the notifications included in the HH3C-LswMix-MIB module.

hh3cSlaveSwitchOver

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.17.10.1	An active/standby or master/subordinate switchover occurred.	Informational	Minor	N/A	ON

Description

(Centralized IRF devices.) This notification is generated when a master/subordinate switchover occurs in an IRF fabric.

(Distributed devices.) This notification is generated when an active/standby or master/subordinate switchover occurs.

Status control

This notification cannot be disabled.

Objects

N/A

Recommended action

1. Locate the issue and handle it accordingly.
 - o No action is required if the switchover was performed manually.
 - o If the switchover was caused by an exceptional event, you must examine the device running conditions to troubleshoot the issue.
2. If the issue persists, contact H3C Support.

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HH3C-STACK-MIB

About this MIB

Use this MIB to obtain IRF information and manage IRF fabrics.

MIB file name

hh3c-stack.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cStack(91)

Scalar objects

hh3cStackMaxMember

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackMaxMember (1.3.6.1.4.1.25506.2.91.1.1)	read-only	Integer32	Standard MIB values.	Maximum number of member devices that an IRF fabric can contain.	As per the MIB.

hh3cStackMemberNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackMemberNum (1.3.6.1.4.1.25506.2.91.1.2)	read-only	Integer32	Standard MIB values.	Number of member devices that an IRF fabric contains.	As per the MIB.

hh3cStackMaxConfigPriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackMaxConfigPriority (1.3.6.1.4.1.25506.2.91.1.3)	read-only	Integer32	Standard MIB values.	The maximum priority value that can be assigned to a member device in an IRF fabric. The member priority can affect master election.	As per the MIB.

hh3cStackAutoUpdate

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackAutoUpdate	read-write	IINTEGE	IINTEGE	Whether an IRF fabric	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.91.1.4)		R	R{ disabled(1), enabled(2) }	<p>supports software auto-update.</p> <p>When you add a device to the IRF fabric, software auto-update compares the startup software images of the device with the current software images of the IRF master. If the two sets of images are different, the device automatically performs the following operations:</p> <ol style="list-style-type: none"> 1. Downloads the current software images of the master. 2. Sets the downloaded images as its main startup software images. 3. Reboots with the new software images to rejoin the IRF fabric. <p>You must manually update the new device with the software images running on the IRF fabric for the device to join the IRF fabric if software auto-update is disabled.</p>	

hh3cStackMacPersistence

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackMacPersistence (1.3.6.1.4.1.25506.2.91.1.5)	read-write	INTEGER	INTEGER { notPersist(1), persistForSixMin(2), persistForever(3) }	Status of the IRF bridge MAC persistence feature.	As per the MIB.

hh3cStackLinkDelayInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackLinkDelayInterval (1.3.6.1.4.1.25506.2.91.1.6)	read-write	Integer32	SIZE((0..10000))	IRF link status change report delay, in the range of 1 to 10000 milliseconds.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				If the value is set to 0, link status change events of IRF ports are reported without any delay.	

hh3cStackTopology

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackTopology (1.3.6.1.4.1.25506.2.91.1.7)	read-only	INTEGER	INTEGER { chainConn(1), ringConn(2) }	Topology type of an IRF fabric.	As per the MIB.

hh3cStackDomainId

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackDomainId (1.3.6.1.4.1.25506.2.91.1.8)	read-write	Unsigned 32	SIZE((0..4294967295))	Domain ID of an IRF fabric.	As per the MIB.

hh3cStackPortConfigActivate

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackPortConfigActivate (1.3.6.1.4.1.25506.2.91.1.9)	read-write	INTEGER	INTEGER { none(1), set(2) }	Whether to activate IRF port configuration.	As per the MIB.

Tabular objects

hh3cStackDeviceConfigTable

About this table

This table contains parameters about each IRF member device in an IRF fabric.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is entPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackMemberID (1.3.6.1.4.1.25506.2.91.2.1.1)	read-only	Integer32	Standard MIB values.	IRF member ID of a member device. The member ID must be unique in the IRF fabric.	As per the MIB.
hh3cStackConfigMemberID (1.3.6.1.4.1.25506.2.91.2.1.2)	read-write	Integer32	Standard MIB values.	IRF member ID that will take effect at the next startup.	As per the MIB.
hh3cStackPriority (1.3.6.1.4.1.25506.2.91.2.1.3)	read-write	Integer32	Standard MIB values.	IRF priority of the member device. The priority can affect master election.	As per the MIB.
hh3cStackPortNum (1.3.6.1.4.1.25506.2.91.2.1.4)	read-only	Integer32	Standard MIB values.	Number of IRF ports enabled on the member device.	As per the MIB.
hh3cStackPortMaxNum (1.3.6.1.4.1.25506.2.91.2.1.5)	read-only	Integer32	Standard MIB values.	Maximum number of IRF ports supported by the member device.	As per the MIB.

hh3cStackBoardConfigTable

About this table

This table contains role information about each board in an IRF fabric. For modular devices, a board refers to an MPU. For fix-port devices or expandable fixed-port devices, a board refers to an IRF member device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is entPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackBoardRole (1.3.6.1.4.1.25506.2.91.3.1.1)	read-only	INTEGER	INTEGER {	IRF role of a board.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			slave(1), master(2), loading(3), other(4) }		
hh3cStackBoardBelongtoMember (1.3.6.1.4.1.25506.2.91.3.1.2)	read-only	Integer32	Standard MIB values.	IRF member ID of the member device where the board resides.	As per the MIB.

hh3cStackPortInfoTable

About this table

This table contains IRF port information about each member device in an IRF fabric.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are h3cStackmemberID and h3cStackPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackPortIndex (1.3.6.1.4.1.25506.2.91.4.1.1)	not-accessible	Integer32	Standard MIB values.	Logical index of an IRF port on a member device.	As per the MIB.
hh3cStackPortEnable (1.3.6.1.4.1.25506.2.91.4.1.2)	read-only	INTEGER R	INTEGER { disabled(1), enabled(2) }	Whether the IRF port has been enabled. If IRF physical interfaces have been bound to the IRF port, the IRF port is enabled. If no IRF physical interface has been bound to the IRF port, the IRF port is disabled.	As per the MIB.
hh3cStackPortStatus (1.3.6.1.4.1.25506.2.91.4.1.3)	read-only	INTEGER R	INTEGER { up(1), down(2), silent(3), disabled(4) }	Link status of the IRF port.	As per the MIB.
hh3cStackNeighbor (1.3.6.1.4.1.25506.2.91.4.1.4)	read-only	Integer32	Standard MIB values.	IRF member ID of the member device connected to the IRF port.	As per the MIB.
hh3cStackPortForwardingPath (1.3.6.1.4.1.25506.2.91.4.1.5)	read-only	OCTET STRING	Standard MIB values.	Forwarding path information for traffic from the IRF port to other member devices in the IRF	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				fabric. The return value is a string of comma-separated IRF member IDs and the string ends with \0.	

hh3cStackPhyPortInfoTable

About this table

This table contains information about IRF physical interfaces.

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is entPhysicalIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStackBelongtoPort (1.3.6.1.4.1.25506.2.91.5.1.1)	read-write	Integer32	Standard MIB values.	Logical index of an IRF port to which an IRF physical interface is bound.	As per the MIB.

Notifications

hh3cStackPortLinkStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.1	The link status of an IRF port changed.	Informational	Warning	N/A	ON

Description

This notification is generated when the link status of an IRF port changes.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.91.2.1.1 (hh3cStackMemberID)	IRF member ID.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.4.1.1 (hh3cStackPortIndex)	IRF port index.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.4.1.3 (hh3cStackPortStatus)	Link status of the IRF port.	No	INTEGER	up(1) down(2) silent(3) disabled(4)

Recommended action

If the IRF port is up, no action is required.

If the IRF port is not up, perform the following tasks to resolve the issue:

1. Check the operating status of the IRF fabric.
 - If the IRF fabric is being established, verify that the IRF port is up after the IRF fabric is established.
 - If the IRF fabric has been established, check the link for connectivity issues and resolve the issues.
2. If the issue persists, contact H3C Support.

hh3cStackTopologyChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.2	The topology type of an IRF fabric changed.	Informational	Major	N/A	ON

Description

This notification is generated when the topology type of an IRF fabric changes.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.91.1.7 (hh3cStackTopology)	Topology type of an IRF fabric.	No	INTEGER	chainConn(1) ringConn(2)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required in the following situations:

- The topology is changed by the administrator.
- The topology changes when the IRF fabric is being established.
- The topology changes from a daisy chain topology to a ring topology.

If the topology changes from ring to daisy chain in other situations, take the following measures to resolve the issue:

1. Check the running status of each member device and the link status and resolve any faulty issues.
2. If the issue persists, contact H3C Support.

hh3cStackMadBfdChangeNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.3	The state of BFD MAD changed to normal.	Informational	N/A	N/A	ON

Description

This notification is generated when the state of BFD MAD changes to normal.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the BFD MAD-enabled interface.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	BFD MAD interface name	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cStackMadBfdChangeFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.4	The state of BFD MAD changed to failure.	Informational	Warning	hh3cStackMadBfdChangeNormal	ON

Description

This notification is generated when the state of BFD MAD changes to failure.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the BFD MAD-enabled interface.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	BFD MAD interface name.	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the interface is up and the configuration is correct.

hh3cStackMadLacpChangeNormal

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.5	The state of LACP MAD changed to normal.	Informational	N/A	N/A	ON

Description

This notification is generated when the state of LACP MAD changes to normal.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the LACP MAD-enabled interface.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	LACP MAD interface name.	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cStackMadLacpChangeFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.6	The state of LACP MAD changed to failure.	Informational	Warning	hh3cStackMadLacpChangeNormal	ON

Description

This notification is generated when the state of LACP MAD changes to failure.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the LACP MAD-enabled interface.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	LACP MAD interface name.	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the interface is up and the configuration is correct.

hh3cStackPhysicalIntfLinkUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.7	An IRF physical interface came up.	Informational	N/A	N/A	ON

Description

This notification is generated when an IRF physical interface comes up.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.91.2.1.1 (hh3cStackMemberID)	IRF member ID.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.4.1.1 (hh3cStackPortIndex)	IRF port index.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.6.1.1 (hh3cStackPhysicalIntfName)	IRF physical interface name.	No	OCTET STRING	OCTET STRING (1..255)

Recommended action

No action is required.

hh3cStackPhysicalIntfLinkDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.8	An IRF physical interface went down.	Informational	Warning	hh3cStackPhysicalIntfLinkUp	ON

Description

This notification is generated when an IRF physical interface goes down.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.91.2.1.1 (hh3cStackMemberID)	IRF member ID.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.4.1.1 (hh3cStackPortIndex)	IRF port index.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.6.1.1 (hh3cStackPhysicalIntfName)	IRF physical interface name.	No	OCTET STRING	OCTET STRING (1..255)

Recommended action

Check the IRF physical interface status and handle the issue accordingly.

hh3cStackPhysicalIntfRxTimeout

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.91.6.0.9	An IRF physical interface cannot receive IRF protocol packets.	Informational	N/A	N/A	ON

Description

This notification is generated when an IRF physical interface cannot receive IRF protocol packets.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.91.2.1.1 (hh3cStackMemberID)	IRF member ID.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.4.1.1 (hh3cStackPortIndex)	IRF port index.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.91.6.1.1 (hh3cStackPhysicalIntfName)	IRF physical interface name.	No	OCTET STRING	OCTET STRING (1..255)

Recommended action

Check the IRF physical interface for status and configuration errors and check the link for connectivity issues, and correct the errors and handle the issues accordingly.

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HH3C-IF-EXT-MIB

About this MIB

Use this MIB to manage and describe interfaces.

MIB file name

hh3c-if-ext.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3clFExt(40)

Scalar objects

hh3clFShutDownInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clFShutDownInterval (1.3.6.1.4.1.25506.2.40.1.2)	read-write	Integer32	Integer32(1..2147483647)	Port status detection timer.	0..300

Tabular objects

hh3clFFlowStatTable

About this table

Use this table to obtain the interface traffic information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clFStatFlowInterval.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clFStatFlowInterval (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.1)	read-write	Integer32	Integer32(1..300)	Traffic statistics polling interval.	Implementation varies by product.
hh3clFStatFlowInBits (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.2)	read-only	Unsigned32	Unsigned32(0..4294967295)	Incoming traffic in bits.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clFStatFlowOut Bits (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Outgoing traffic in bits.	As per the MIB.
hh3clFStatFlowInPkts (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.4)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Incoming traffic in packets.	As per the MIB.
hh3clFStatFlowOutPkts (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.5)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Outgoing traffic in packets.	As per the MIB.
hh3clFStatFlowInBytes (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.6)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Incoming traffic in bytes.	As per the MIB.
hh3clFStatFlowOutBytes (1.3.6.1.4.1.25506.2.40.2.1.2.1.1.7)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Outgoing traffic in bytes.	As per the MIB.

hh3clFSpeedStatTable

About this table

Use this table to obtain the interface traffic speed statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clFSpeedStatInterval.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clFSpeedStatInterval (1.3.6.1.4.1.25506.2.40.2.1.2.2.1.1)	read-write	Integer32	Integer32(1..300)	Interface traffic speed statistics polling interval. 0 indicates the interface traffic speed statistics collection feature is disabled.	Implementation varies by product.
hh3clFSpeedStatInPkts (1.3.6.1.4.1.25506.2.40.2.1.2.2.1.2)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Average incoming traffic speed (in pps) of the interface within the specified interval before the latest sampling point. The interval is specified by hh3clFSpeedStatInterval.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfSpeedStatOutPkts (1.3.6.1.4.1.25506.2.40.2.1.2.2.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Average outgoing traffic speed (in pps) of the interface within the specified interval before the latest sampling point. The interval is specified by hh3clfSpeedStatInterval.	As per the MIB.
hh3clfSpeedStatInBytes (1.3.6.1.4.1.25506.2.40.2.1.2.2.1.4)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Average incoming traffic speed (in Bps) of the interface within the specified interval before the latest sampling point. The interval is specified by hh3clfSpeedStatInterval.	As per the MIB.
hh3clfSpeedStatOutBytes (1.3.6.1.4.1.25506.2.40.2.1.2.2.1.5)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Average outgoing traffic speed (in Bps) of the interface within the specified interval before the latest sampling point. The interval is specified by hh3clfSpeedStatInterval.	As per the MIB.

hh3clfHCFlowStatTable

About this table

Use this table to obtain the 64-bit traffic information of interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfStatFlowHCInBits.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfStatFlowHCInBits (1.3.6.1.4.1.25506.2.40.2.1.2.3.1.1)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Incoming traffic in bits (64-bit version).	As per the MIB.
hh3clfStatFlowHCOutBits (1.3.6.1.4.1.25506.2.40.2.1.2.3.1.2)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Outgoing traffic in bits (64-bit version).	As per the MIB.

hh3clFStatFlowHC InPkts (1.3.6.1.4.1.25506 .2.40.2.1.2.3.1.3)	read-only	CounterBasedGauge64	Counter64 (0..184467440737 09551615)	Incoming traffic in packets (64-bit version).	As per the MIB.
hh3clFStatFlowHC OutPkts (1.3.6.1.4.1.25506 .2.40.2.1.2.3.1.4)	read-only	CounterBasedGauge64	Counter64 (0..184467440737 09551615)	Outgoing traffic in packets (64-bit version).	As per the MIB.
hh3clFStatFlowHC InBytes (1.3.6.1.4.1.25506 .2.40.2.1.2.3.1.5)	read-only	CounterBasedGauge64	Counter64 (0..184467440737 09551615)	Incoming traffic in bytes (64-bit version).	As per the MIB.
hh3clFStatFlowHC OutBytes (1.3.6.1.4.1.25506 .2.40.2.1.2.3.1.6)	read-only	CounterBasedGauge64	Counter64 (0..184467440737 09551615)	Outgoing traffic in bytes (64-bit version).	As per the MIB.

hh3cRTParentIfTable

About this table

Use this table to obtain main interface information of subinterfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cRTParentIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRTParentIfIndex (1.3.6.1.4.1.25506 .2.40.2.2.1.1.1)	not-accessible	Integer32	Integer32(1..2147 483647)	Main interface index. Index of the interface for which you can create subinterfaces.	As per the MIB.
hh3cRTMinSubIfOrdinal (1.3.6.1.4.1.25506 .2.40.2.2.1.1.2)	read-only	Integer32	Integer32(1..2147 483647)	Minimum number of the subinterface that can be created.	As per the MIB.
hh3cRTMaxSubIfOrdinal (1.3.6.1.4.1.25506 .2.40.2.2.1.1.3)	read-only	Integer32	Integer32(1..2147 483647)	Maximum number of the subinterface that can be created.	As per the MIB.

hh3cRTSubIfTable

About this table

Use this table to obtain information about subinterface information of main interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cRTSubIfParentIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRTSubIfParentIfIndex (1.3.6.1.4.1.25506.2.40.2.2.2.1.1)	not-accessible	Integer32	Integer32(1..2147483647)	Main interface index.	As per the MIB.
hh3cRTSubIfOrdinal (1.3.6.1.4.1.25506.2.40.2.2.2.1.2)	not-accessible	Integer32	Integer32(1..2147483647)	Subinterface number.	As per the MIB.
hh3cRTSubIfSubIfIndex (1.3.6.1.4.1.25506.2.40.2.2.2.1.3)	read-only	Integer32	Integer32(1..2147483647)	Subinterface index.	As per the MIB.
hh3cRTSubIfSubIfDesc (1.3.6.1.4.1.25506.2.40.2.2.2.1.4)	read-only	DisplayString	OCTET STRING(0..255)	Subinterface description.	As per the MIB.
hh3cRTSubIfRowStatus (1.3.6.1.4.1.25506.2.40.2.2.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Subinterface state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cIfLinkModeTable

About this table

Use this table to obtain the interface link mode.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cIfLinkModelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIfLinkModelIndex (1.3.6.1.4.1.25506.2.40.2.2.3.1.1)	not-accessible	Integer32	1..2147483647	Link mode index.	As per the MIB.

hh3clfLinkMode (1.3.6.1.4.1.25506 .2.40.2.2.3.1.2)	read-write	INTEGER	bridgeMode(1), routeMode(2)	Current link mode of the interface.	As per the MIB.
hh3clfLinkModeS witchSupport (1.3.6.1.4.1.25506 .2.40.2.2.3.1.3)	read-only	TruthValue	true(1), false(2)	Whether the link mode of the interface can be switched.	As per the MIB.

hh3clfPortTypeTable

About this table

Use this table to obtain the port type of an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfPortTypeIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfPortTypeInd ex (1.3.6.1.4.1.25506 .2.40.2.2.4.1.1)	not-accessible	Integer32	Integer32(1..2147 483647)	Interface index, which is the same as ifIndex in ifTable.	As per the MIB.
hh3clfPortType (1.3.6.1.4.1.25506 .2.40.2.2.4.1.2)	read-write	INTEGER	other(1),ethernet(2),fc(3)	Ethernet/ FC mode of an interface.	As per the MIB.

hh3clfTable

About this table

Use this table to obtain interface-related information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfUpDownTimes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfUpDownTim es (1.3.6.1.4.1.25506 .2.40.2.3.2.1.1)	read-only	Integer32	Integer32(1..2147 483647)	Number of interface up/down events.	As per the MIB.
hh3clfMtu (1.3.6.1.4.1.25506)	read-write	Integer32	Integer32(1..2147 483647)	Interface MTU.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.40.2.3.2.1.2)					
hh3clfBandwidthRate (1.3.6.1.4.1.25506.2.40.2.3.2.1.3)	accessible-for-notification	Integer32	Integer32(1..2147483647)	Interface bandwidth.	Not supported
hh3clfDiscardPktRate (1.3.6.1.4.1.25506.2.40.2.3.2.1.4)	accessible-for-notification	Integer32	Integer32(1..2147483647)	Packet loss rate of an interface.	Not supported
hh3clfStatusKeepTime (1.3.6.1.4.1.25506.2.40.2.3.2.1.5)	read-only	TimeTicks	TimeTicks(0..4294967295)	Duration of the current interface state.	As per the MIB.
hh3clfInNUcastPkts (1.3.6.1.4.1.25506.2.40.2.3.2.1.6)	read-only	Integer32	Integer32(1..2147483647)	Number of incoming non-unicast packets.	Not supported
hh3clfOutNUcastPkts (1.3.6.1.4.1.25506.2.40.2.3.2.1.7)	read-only	Integer32	Integer32(1..2147483647)	Number of outgoing non-unicast packets.	Not supported
hh3clfsPoe (1.3.6.1.4.1.25506.2.40.2.3.2.1.8)	read-only	TruthValue	true(1), false(2)	Support for PoE on an interface.	Not supported
hh3clfOperStatus (1.3.6.1.4.1.25506.2.40.2.3.2.1.9)	read-only	INTEGER	up(1), down(2), testing(3), admin(4)	Operational state of an interface.	Not supported
hh3clfDownTimes (1.3.6.1.4.1.25506.2.40.2.3.2.1.10)	read-only	Integer32	Integer32(1..2147483647)	Number of link-down events.	Not supported
hh3clfPfcStatus (1.3.6.1.4.1.25506.2.40.2.3.2.1.11)	read-write	INTEGER	enable(1), disable(2), auto(3)	PFC mode of an interface.	Implementation varies by product.
hh3clfPfcDot1pNoDrop (1.3.6.1.4.1.25506.2.40.2.3.2.1.12)	read-write	BITS	pri0(0), pri1(1), pri2(2), pri3(3), pri4(4), pri5(5), pri6(6), pri7(7)	802.1p priority list for PFC on an interface.	Implementation varies by product.
hh3clfDescription (1.3.6.1.4.1.25506.2.40.2.3.2.1.13)	read-write	DisplayString	OCTET STRING(0..255)	Description of an interface.	As per the MIB.
hh3clfFwdErrDiscards (1.3.6.1.4.1.25506.2.40.2.3.2.1.14)	read-only	Unsigned32	Unsigned32(0..4294967295)	Number of packets dropped because of forwarding entry errors on an interface.	As per the MIB.

hh3clfUsingTable

About this table

Use this table to obtain information about breakout interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfUsingIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfUsingIndex (1.3.6.1.4.1.25506.2.40.2.3.4.1)	not-accessible	Integer32	Integer32(1..2147483647)	Index of an interface that can be split or combined.	As per the MIB.
hh3clfUsingSupportType (1.3.6.1.4.1.25506.2.40.2.3.4.2)	read-only	Integer32	Integer32(1..2147483647)	Interface type that an interface can be split or combined into.	As per the MIB.
hh3clfUsingType (1.3.6.1.4.1.25506.2.40.2.3.4.3)	read-write	INTEGER	noUsing(0), using10GE(1), using20GE(2), using40GE(3), using100GE(4), using25GE(5), using50GE(6) using200GE(7) using400GE(8)	Interface type that an interface will be split or combined into.	As per the MIB.
hh3clfUsingStatus (1.3.6.1.4.1.25506.2.40.2.3.4.4)	read-only	INTEGER	noUsing(0), needReboot(1)	State of the splitting or combining operation.	As per the MIB.

hh3clfQueBufferTable

About this table

Use this table to obtain the interface buffer information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfQueId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQueId (1.3.6.1.4.1.25506.2.40.2.2.6.1.1)	read-only	INTEGER	que0(1), que1(2), que2(3), que3(4), que4(5), que5(6), que6(7), que7(8)	ID of an interface buffer queue.	As per the MIB.
hh3clfQueOutUcastTotal (1.3.6.1.4.1.25506.2.40.2.2.6.1.2)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Total buffer of an outbound unicast queue.	As per the MIB.
hh3clfQueOutUcastFree (1.3.6.1.4.1.25506.2.40.2.2.6.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Available buffer of an outbound unicast queue.	As per the MIB.
hh3clfQueOutUcastUsedRatio (1.3.6.1.4.1.25506.2.40.2.2.6.1.4)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Buffer usage of an outbound unicast queue.	As per the MIB.
hh3clfQueOutUcastUsedPeak (1.3.6.1.4.1.25506.2.40.2.2.6.1.5)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Peak buffer usage of an outbound unicast queue.	As per the MIB.
hh3clfQueOutUcastThreshold (1.3.6.1.4.1.25506.2.40.2.2.6.1.6)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Buffer alarm threshold of an outbound unicast queue.	As per the MIB.
hh3clfQueOutUcastOverThres (1.3.6.1.4.1.25506.2.40.2.2.6.1.7)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Number of buffer usage alarms of an outbound unicast queue.	As per the MIB.
hh3clfQueInTotal (1.3.6.1.4.1.25506.2.40.2.2.6.1.8)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Total buffer of an inbound unicast queue.	As per the MIB.
hh3clfQueInFree (1.3.6.1.4.1.25506.2.40.2.2.6.1.9)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Available buffer of an inbound unicast queue.	As per the MIB.
hh3clfQueInUsedRatio (1.3.6.1.4.1.25506.2.40.2.2.6.1.10)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Buffer usage of an inbound unicast queue.	As per the MIB.
hh3clfQueInUsedPeak (1.3.6.1.4.1.25506.2.40.2.2.6.1.11)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Peak buffer usage of an inbound unicast queue.	As per the MIB.
hh3clfQueInThreshold (1.3.6.1.4.1.25506.2.40.2.2.6.1.12)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Buffer alarm threshold of an inbound unicast queue.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQueInOverThres (1.3.6.1.4.1.25506.2.40.2.2.6.1.13)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Number of buffer usage alarms of an inbound unicast queue.	As per the MIB.
hh3clfQueInHeadRoomTotal (1.3.6.1.4.1.25506.2.40.2.2.6.1.14)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Total headroom of an inbound queue.	As per the MIB.
hh3clfQueInHeadRoomFree (1.3.6.1.4.1.25506.2.40.2.2.6.1.15)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Available headroom of an inbound queue.	As per the MIB.
hh3clfQueInHeadRoomUsedRatio (1.3.6.1.4.1.25506.2.40.2.2.6.1.16)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Headroom usage of an inbound queue.	As per the MIB.
hh3clfQueInHeadRoomUsedPeak (1.3.6.1.4.1.25506.2.40.2.2.6.1.17)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Peak headroom usage of an inbound unicast queue.	As per the MIB.

hh3clfHCSpeedStatTable

About this table

Use this table to obtain the 64-bit packet statistics of an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfSpeedStatHCInPkts.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfSpeedStatHCInPkts (1.3.6.1.4.1.25506.2.40.2.1.2.4.1.1)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Average incoming traffic speed (in packets) of the interface within the specified interval before the latest sampling point.	As per the MIB.
hh3clfSpeedStatHCOutPkts (1.3.6.1.4.1.25506.2.40.2.1.2.4.1.2)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Average outgoing traffic speed (in packets) of the interface within the specified interval before the latest sampling point.	As per the MIB.
hh3clfSpeedStatHCInBytes (1.3.6.1.4.1.25506.2.40.2.1.2.4.1.3)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Average incoming traffic speed (in bytes) of the interface within the specified interval before the latest sampling point.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.40.2.1.2.4.1.3)				interface within the specified interval before the latest sampling point.	
hh3clfSpeedStatH COutBytes (1.3.6.1.4.1.25506 .2.40.2.1.2.4.1.4)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Average outgoing traffic speed (in bytes) of the interface within the specified interval before the latest sampling point.	As per the MIB.

hh3clfExtTrapCfgTable

About this table

Use this table to obtain information about the interface bandwidth and packet loss rate.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clfBandwidthUpperLimit.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfBandwidthUpperLimit (1.3.6.1.4.1.25506 .2.40.3.1.1.1.1)	read-write	Integer32	Integer32(1..2147483647)	Upper limit of the interface bandwidth.	Not supported
hh3clfDiscardPktRateUpperLimit (1.3.6.1.4.1.25506 .2.40.3.1.1.1.2)	read-write	Integer32	Integer32(1..2147483647)	Upper limit of the interface packet loss rate.	Not supported

Notifications

The following information describes the notifications included in the HH3C-IF-EXT-MIB module.

hh3clfPortUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.40.3.0.5	Link-up alarm	Informational	-	-	ON

Description

The notification is generated when physical state of the interface changes to up.

Status control

ON

CLI: `snmp-agent trap enable standard linkup`

OFF

CLI: `undo snmp-agent trap enable standard linkup`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.1 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)

Recommended action

No action is required.

hh3clfPortDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.40.3.0.6	Link-down alarm.	Informational	Warning	-	ON

Description

The notification is generated when physical state of the interface changes to down.

Status control

ON

CLI: `snmp-agent trap enable standard linkup`

OFF

CLI: `undo snmp-agent trap enable standard linkup`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.

1.3.6.1.2.1.2.2.1.1 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
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Recommended action

No action is required.

hh3clfMonInputUsageRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.1	Inbound bandwidth usage rising alarm.	Informational	Warning	-	ON

Description

The notification is generated when the inbound bandwidth usage exceeds the upper threshold.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor input-usage`

OFF

CLI: `undo snmp-agent trap enable ifmonitor input-usage`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.1(hh3clfMonInputUsageLowThres)	Lower threshold for the inbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.2.1.1.2(hh3clfMonInputUsageHighThres)	Upper threshold for the inbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.1.1.1.1(hh3clfMonInputUsageStatistics)	Inbound bandwidth usage statistics.	No	Counter64	Standard MIB values.

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.

2. If the issue persists, contact H3C Support.

hh3clfMonInputUsageResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.2	Inbound bandwidth usage recovery alarm	Informational	-	-	ON

Description

The notification is generated when the inbound bandwidth usage drops from above the upper threshold to below the lower threshold.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor input-usage`

OFF

CLI: `undo snmp-agent trap enable ifmonitor input-usage`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.1 (hh3clfMonInputUsageLowThres)	Lower threshold for the inbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.2.1.1.2 (hh3clfMonInputUsageHighThres)	Upper threshold for the inbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.1.1.1.1 (hh3clfMonInputUsageStatistics)	Inbound bandwidth usage statistics.	No	Counter64	Standard MIB values.

Recommended action

No action is required.

hh3clfMonOutputUsageRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.3	Outbound bandwidth usage rising alarm	Informational	Warning	-	ON

Description

The notification is generated when the outbound bandwidth usage exceeds the upper threshold.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor output-usage`

OFF

CLI: `undo snmp-agent trap enable ifmonitor output-usage`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.3(hh3clfMonOutputUsageLowThres)	Lower threshold for the outbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.2.1.1.4(hh3clfMonOutputUsageHighThres)	Upper threshold for the outbound bandwidth usage.	No	Unsigned32	0-100
1.3.6.1.4.1.25506.2.40.5.1.1.1.2(hh3clfMonOutputUsageStatistics)	Outbound bandwidth usage statistics.	No	Counter64	Standard MIB values.

Recommended action

No action is required.

hh3clfMonOutputUsageResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.4	Outbound bandwidth usage recovery alarm	Informational	-	-	ON

Description

The notification is generated when the outbound bandwidth usage drops from above the upper threshold to below the lower threshold.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor output-usage`

OFF

CLI: `undo snmp-agent trap enable ifmonitor output-usage`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40 .5.2.1.1.3(hh3clfMonO utputUsageLowThres)	Lower threshold for the outbound bandwidth usage.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.2.1.1.4(hh3clfMonO utputUsageHighThres)	Upper threshold for the outbound bandwidth usage.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.1.1.1.2(hh3clfMonO utputUsageStatistics)	Outbound bandwidth usage statistics.	No	Counter64	Standard MIB values.

Recommended action

No action is required.

hh3clfMonInputErrorAlarmRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.40.6.0.5	Inbound error packet rising alarm	Informational	Warning	-	ON

Description

The notification is generated when the number of inbound error packets exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor input-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor input-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.6(hh3clfMonInputErrorAlarmHighThresholds)	Upper threshold for the number of inbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.5(hh3clfMonInputErrorAlarmLowThresholds)	Lower threshold for the number of inbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.3(hh3clfMonInputErrorAlarmStatistics)	Inbound error alarm statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.7(hh3clfMonInputErrorAlarmInterval)	Inbound error alarm statistics collection interval.	No	Unsigned32	0-65535

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.
2. If the issue persists, contact H3C Support.

hh3clfMonInputErrorAlarmResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.6	Inbound error packet recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of inbound error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor input-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor input -error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.5(hh3clfMonInputErrorAlarmLowThresholds)	Lower threshold for the number of inbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.6(hh3clfMonInputErrorAlarmHighThresholds)	Upper threshold for the number of inbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.3(hh3clfMonInputErrorAlarmStatistics)	Inbound error alarm statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.7(hh3clfMonInputErrorAlarmInterval)	Inbound error alarm statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonOutputErrorAlarmRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.7	Outbound error packet rising alarm	Informational	Warning	-	ON

Description

The notification is generated when the number of outbound error packets exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor output-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor output-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1	Interface index.	Yes	Integer32	Standard MIB values.

(ifIndex)				
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40 .5.2.1.1.9(hh3clfMonO utputErrorAlarmHighT hres)	Upper threshold for the number of outbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.2.1.1.8(hh3clfMonO utputErrorAlarmLowTh res)	Lower threshold for the number of outbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.1.1.1.4(hh3clfMonO utputErrorAlarmStatisti cs)	Outbound error alarm statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.2.1.1.10(hh3clfMon OutputErrorAlarmInter val)	Outbound error alarm statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonOutputErrorAlarmResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.40.6.0.8	Outbound error packet recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of outbound error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor output-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor output-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)

1.3.6.1.4.1.25506.2.40.5.2.1.1.9(hh3clfMonOutputErrorAlarmHighThres)	Upper threshold for the number of outbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.8(hh3clfMonOutputErrorAlarmLowThres)	Lower threshold for the number of outbound error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.4(hh3clfMonOutputErrorAlarmStatistics)	Outbound error alarm statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.10(hh3clfMonOutputErrorAlarmInterval)	Outbound error alarm statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonSdhErrorRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.9	SDH error packet rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH error packets exceeds the upper threshold within the specified interval.

Status control

ON

Syntax: `snmp-agent trap enable ifmonitor sdh-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.11(hh3clfMonSdhErrorLowThres)	Lower threshold for the number of SDH error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.12(hh3clfMonSdhErrorHighThres)	Upper threshold for the number of SDH error packets.	No	Unsigned32	1-4294967295

OID (object name)	Description	Index	Type	Value range
SdhErrorHighThres)	packets.			
1.3.6.1.4.1.25506.2.40 .5.1.1.1.5(hh3clfMonSdhErrorStatistics)	SDH error statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.2.1.1.13(hh3clfMonSdhErrorInterval)	SDH error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.
2. If the issue persists, contact H3C Support.

hh3clfMonSdhErrorResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.10	SDH error packet recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor sdh-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40 .5.2.1.1.11(hh3clfMonSdhErrorLowThres)	Lower threshold for the number of SDH error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.2.1.1.12(hh3clfMonSdhErrorHighThres)	Upper threshold for the number of SDH error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40 .5.1.1.1.5(hh3clfMonSdhErrorStatistics)	SDH error statistics.	No	Counter64	1-4294967295

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.40.5.2.1.1.13(hh3clfMonSdhErrorInterval)	SDH error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonSdhB1ErrorRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.11	SDH B1 error packet rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH B1 error packets exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor sdh-b1-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-b1-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.14(hh3clfMonSdhB1ErrorLowThres)	Lower threshold for the number of SDH B1 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.15(hh3clfMonSdhB1ErrorHighThres)	Upper threshold for the number of SDH B1 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.6(hh3clfMonSdhB1ErrorStatistics)	SDH B1 error packet statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.16(hh3clfMonSdhB1ErrorInterval)	SDH B1 error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.
2. If the issue persists, contact H3C Support.

hh3clfMonSdhB1ErrorResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.12	SDH B1 error packet recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH B1 error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor sdh-b1-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-b1-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.14(hh3clfMonSdhB1ErrorLowThres)	Lower threshold for the number of SDH B1 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.15(hh3clfMonSdhB1ErrorHighThres)	Upper threshold for the number of SDH B1 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.6(hh3clfMonSdhB1ErrorStatistics)	SDH B1 error packet statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.16(hh3clfMonSdhB1ErrorInterval)	SDH B1 error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonSdhB2ErrorRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.13	SDH B2 error packet rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH B2 error packets exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor sdh-b2-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-b2-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.17(hh3clfMonSdhB2ErrorLowThres)	Lower threshold for the number of SDH B2 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.18(hh3clfMonSdhB2ErrorHighThres)	Upper threshold for the number of SDH B2 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.7(hh3clfMonSdhB2ErrorStatistics)	SDH B2 error packet statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.19(hh3clfMonSdhB2ErrorInterval)	SDH B2 error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonSdhB2ErrorResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.14	SDH B2 error packet rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of SDH B2 error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor sdh-b2-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor sdh-b2-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.17(hh3clfMonSdhB2ErrorLowThres)	Lower threshold for the number of SDH B2 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.18(hh3clfMonSdhB2ErrorHighThres)	Upper threshold for the number of SDH B2 error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.7(hh3clfMonSdhB2ErrorStatistics)	SDH B2 error statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.19(hh3clfMonSdhB2ErrorInterval)	SDH B2 error statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonCRCErrorRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.15	CRC error packet rising alarm	Informational	Minor	-	ON

Description

The notification is generated when the number of CRC error packets exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor crc-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor crc-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.21(hh3clfMonCRCErrorHighThres)	Upper threshold for the number of CRC error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.20(hh3clfMonCRCErrorLowThres)	Lower threshold for the number of CRC error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.8(hh3clfMonCRCErrorStatistics)	CRC error statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.22(hh3clfMonCRCErrorInterval)	CRC error statistics collection interval.	No	Unsigned32	0-65535
1.3.6.1.4.1.25506.2.40.5.2.1.1.23(hh3clfMonCRCErrType)	CRC error statistics.	No	INTEGER	1-2

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.
2. If the issue persists, contact H3C Support.

hh3clfMonCRCErrorResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.16	CRC error packet recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of CRC error packets drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor crc-error`

OFF

CLI: `undo snmp-agent trap enable ifmonitor crc-error`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.21(hh3clfMonCRCErrorHighThres)	Upper threshold for the number of CRC error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.20(hh3clfMonCRCErrorLowThres)	Lower threshold for the number of CRC error packets.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.8(hh3clfMonCRCErrorStatistics)	CRC error statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.22(hh3clfMonCRCErrorInterval)	CRC error statistics collection interval.	No	Unsigned32	0-65535
1.3.6.1.4.1.25506.2.40.5.2.1.1.23(hh3clfMonCRCErrType)	CRC error statistics.	No	INTEGER	1-2

Recommended action

No action is required.

hh3clfMonRxPauseFrameRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.17	Received pause frame rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of received pause frames exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor rx-pause`

OFF

CLI: `undo snmp-agent trap enable ifmonitor rx-pause`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.25(hh3clfMonRxPauseFrameHighThres)	Upper threshold for received pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.24(hh3clfMonRxPauseFrameLowThres)	Lower threshold for received pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.9(hh3clfMonRxPauseFrameStatistics)	Received pause frame statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.26(hh3clfMonRxPauseFrameInterval)	Received pause frame statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonRxPauseFrameResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.18	Received pause frame recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of received pause frames drops from above the upper threshold to below the lower-threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor rx-pause`

OFF

CLI: `undo snmp-agent trap enable ifmonitor rx-pause`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.24(hh3clfMonRxPauseFrameLowThres)	Lower threshold for received pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.25(hh3clfMonRxPauseFrameHighThres)	Upper threshold for received pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.9(hh3clfMonRxPauseFrameStatistics)	Received pause frame statistics collection interval.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.26(hh3clfMonRxPauseFrameInterval)	Upper threshold for received pause frames.	No	Unsigned32	0-65535

Recommended action

No action is required.

hh3clfMonTxPauseFrameRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.19	Transmitted pause frame rising alarm	Informational	-	-	ON

Description

The notification is generated when the number of transmitted pause frames exceeds the upper threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor tx-pause`

OFF

CLI: `undo snmp-agent trap enable ifmonitor tx-pause`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.28(hh3clfMonTxPauseFrameHighThres)	Upper threshold for transmitted pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.27(hh3clfMonTxPauseFrameLowThres)	Lower threshold for transmitted pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.10(hh3clfMonTxPauseFrameStatistics)	Transmitted pause frame statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.29(hh3clfMonTxPauseFrameInterval)	Transmitted pause frame statistics collection interval.	No	Unsigned32	0-65535

Recommended action

To resolve the issue:

1. Verify that the upper threshold is set reasonably.
2. If the issue persists, contact H3C Support.

hh3clfMonTxPauseFrameResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.40.6.0.20	Transmitted pause frame recovery alarm	Informational	-	-	ON

Description

The notification is generated when the number of transmitted pause frames drops from above the upper threshold to below the lower threshold within the specified interval.

Status control

ON

CLI: `snmp-agent trap enable ifmonitor tx-pause`

OFF

CLI: `undo snmp-agent trap enable ifmonitor tx-pause`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Yes	Integer32	Standard MIB values.
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	No	OCTET STRING	Unsigned32 (0..255)
1.3.6.1.4.1.25506.2.40.5.2.1.1.28(hh3clfMonTxPauseFrameHighThres)	Upper threshold for transmitted pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.27(hh3clfMonTxPauseFrameLowThres)	Lower threshold for transmitted pause frames.	No	Unsigned32	1-4294967295
1.3.6.1.4.1.25506.2.40.5.1.1.1.10(hh3clfMonTxPauseFrameStatistics)	Transmitted pause frame statistics.	No	Counter64	1-4294967295
1.3.6.1.4.1.25506.2.40.5.2.1.1.29(hh3clfMonTxPauseFrameInterval)	Transmitted pause frame statistics collection interval.	No	Unsigned32	0-65535

Recommended action

No action is required.

1.

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HH3C-LswINF-MIB

About this MIB

Use this MIB to manage interfaces.

An isolation group either can have only one uplink port or does not have any uplink port. You can create an isolation group, specify an uplink port for the group, add member ports to the group, and then remove the uplink port.

Speed autonegotiation allows an interface to operate at the possible fastest speed. You can set the speed modes that an interface can automatically negotiated with the peer interface to meet various speed requirements.

MIB file name

hh3c-splat-inf.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35) .hh3cLswL2InfMib(5)

Scalar objects

hh3cSlotPortMax

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSlotPortMax (1.3.6.1.4.1.25506.8.35.5.1.1)	read-only	INTEGER	1..65535	Maximum number of ports on a slot.	As per the MIB.

hh3cSwitchPortMax

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSwitchPortMax (1.3.6.1.4.1.25506.8.35.5.1.2)	read-only	INTEGER	1..65535	Maximum number of ports on the switch.	As per the MIB.

hh3cIsolateGroupMax

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIsolateGroupMax (1.3.6.1.4.1.25506.8.35.5.1.5)	read-only	Integer32	Integer32(1..2147483647)	Maximum number of isolation groups supported by the switch.	As per the MIB.

hh3cMaxMacLearnRange

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMaxMacLearnRange	read-only	Integer32	Integer32(1..2147483647)	Maximum number of MAC addresses	Implementation varies by product.

(1.3.6.1.4.1.25506.8.35.5.1.12)				supported by an interface.	
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Tabular objects

hh3cifXXTable

About this table

This table contains extended information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifUnBoundPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifUnBoundPort (1.3.6.1.4.1.25506.8.35.1.1.1.1)	read-only	TruthValue	true(1), false(2)	Whether an interface is a member port of an aggregate interface.	Not supported
hh3cifISPhyPort (1.3.6.1.4.1.25506.8.35.1.1.1.2)	read-only	TruthValue	true(1), false(2)	Whether the interface is a physical interface.	Not supported
hh3cifAggregatePort (1.3.6.1.4.1.25506.8.35.1.1.1.3)	read-only	TruthValue	true(1), false(2)	Whether the interface is an aggregate interface.	Not supported
hh3cifMirrorPort (1.3.6.1.4.1.25506.8.35.1.1.1.4)	read-write	TruthValue	true(1), false(2)	Whether the interface is a mirroring interface.	Not supported. When read, this object returns false.
hh3cifVLANType (1.3.6.1.4.1.25506.8.35.1.1.1.5)	read-write	INTEGER	vLANTrunk(1), access(2), hybrid(3), fabric(4)	VLAN type of the interface.	Value fabric(4) is not supported.
hh3cifMcastControl (1.3.6.1.4.1.25506.8.35.1.1.1.6)	read-write	INTEGER	INTEGER (0..100)	Multicast suppression threshold.	Implementation varies by product.
hh3cifFlowControl (1.3.6.1.4.1.25506.8.35.1.1.1.7)	read-write	TruthValue	true(1), false(2)	Flow control status on the interface.	As per the MIB.
hh3cifSrcMacControl (1.3.6.1.4.1.25506.8.35.1.1.1.8)	read-only	TruthValue	true(1), false(2)	Whether to filter packets by source MAC address.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifClearStat (1.3.6.1.4.1.25506.8.35.1.1.1.9)	read-write	INTEGER	clear(1)	Clear packet statistics on the interface.	Supports only the read operation.
hh3cifXXBasePort Index (1.3.6.1.4.1.25506.8.35.1.1.1.10)	read-only	INTEGER	INTEGER	Index of the interface.	As per the MIB.
hh3cifXXDevPortI ndex (1.3.6.1.4.1.25506.8.35.1.1.1.11)	read-only	INTEGER	INTEGER	Index of the interface.	As per the MIB.
hh3cifPpsMcastC ontrol (1.3.6.1.4.1.25506.8.35.1.1.1.12)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Multicast suppression threshold in pps.	As per the MIB.
hh3cifPpsBcastDi sValControl (1.3.6.1.4.1.25506.8.35.1.1.1.13)	read-write	INTEGER	enable(1), disable(2)	Enabling status of broadcast suppression in pps mode.	Not supported
hh3cifUniSuppres sionStep (1.3.6.1.4.1.25506.8.35.1.1.1.14)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Step of unicast suppression in percentage.	Not supported
hh3cifPpsUniSupp ressionMax (1.3.6.1.4.1.25506.8.35.1.1.1.15)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Maximum number of the unicast suppression threshold in pps.	Not supported
hh3cifMulSuppres sionStep (1.3.6.1.4.1.25506.8.35.1.1.1.16)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Step of multicast suppression in percentage.	Not supported
hh3cifPpsMulSup pressionMax (1.3.6.1.4.1.25506.8.35.1.1.1.17)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Maximum number of multicast suppression threshold in pps	Not supported
hh3cifUniSuppres sion (1.3.6.1.4.1.25506.8.35.1.1.1.18)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Unicast suppression threshold in percentage.	Implementation varies by product.
hh3cifPpsUniSupp ression (1.3.6.1.4.1.25506.8.35.1.1.1.19)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Unicast suppression threshold in pps.	As per the MIB.
hh3cifMulSuppres sion (1.3.6.1.4.1.25506.8.35.1.1.1.20)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Multicast suppression threshold in percentage.	Implementation varies by product.
hh3cifPpsMulSup pression (1.3.6.1.4.1.25506.8.35.1.1.1.21)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Multicast suppression threshold in pps.	As per the MIB.
hh3cifComboActiv ePort (1.3.6.1.4.1.25506	read-write	INTEGER	fiber(1), copper(2)	Active port of a combo interface.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
.8.35.1.1.1.22)			na(3)		
hh3cifBMbpsMulS uppressionMax (1.3.6.1.4.1.25506 .8.35.1.1.1.23)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Maximum value of the multicast suppression threshold in Mbps.	Not supported
hh3cifBMbpsMulS uppression (1.3.6.1.4.1.25506 .8.35.1.1.1.24)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Multicast suppression threshold in Mbps.	Not supported
hh3cifBKbpsMulS uppressionMax (1.3.6.1.4.1.25506 .8.35.1.1.1.25)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Maximum value of the multicast suppression threshold in kbps.	Not supported
hh3cifBKbpsMulS uppressionStep (1.3.6.1.4.1.25506 .8.35.1.1.1.26)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Step of multicast suppression in kbps.	Not supported
hh3cifBKbpsMulS uppression (1.3.6.1.4.1.25506 .8.35.1.1.1.27)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Multicast suppression in kbps.	Not supported
hh3cifUnknownPa cketDropMul (1.3.6.1.4.1.25506 .8.35.1.1.1.28)	read-write	INTEGER	disable(name)	Enabling status of dropping unknown multicast packets.	Not supported
hh3cifUnknownPa cketDropUni (1.3.6.1.4.1.25506 .8.35.1.1.1.29)	read-write	INTEGER	disable(name)	Enabling status of dropping unknown unicast packets.	Not supported
hh3cifBMbpsUniS uppressionMax (1.3.6.1.4.1.25506 .8.35.1.1.1.30)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Maximum value of the unicast suppression threshold in Mbps.	Not supported
hh3cifBMbpsUniS uppression (1.3.6.1.4.1.25506 .8.35.1.1.1.31)	read-write	Integer32	Integer32 (-2147483648..21 47483647)	Unicast suppression threshold in Mbps.	Not supported
hh3cifBKbpsUniS uppressionMax (1.3.6.1.4.1.25506 .8.35.1.1.1.32)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Maximum value of the unicast suppression threshold in kbps.	Not supported
hh3cifBKbpsUniS uppressionStep (1.3.6.1.4.1.25506 .8.35.1.1.1.33)	read-only	Integer32	Integer32 (-2147483648..21 47483647)	Step of unicast suppression in kbps.	Not supported
hh3cifBKbpsUniS uppression (1.3.6.1.4.1.25506 .8.35.1.1.1.34)	read-write	Integer32	Integer32 (-2147483648..21 47483647)	Unicast suppression threshold in kbps.	Not supported
hh3cifOutPayload Octets (1.3.6.1.4.1.25506	read-only	CounterBasedGa uge64	Counter64 (0..184467440737 09551615)	Number of octets transmitted by the interface.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
.8.35.1.1.1.35)					
hh3cifInPayloadOctets (1.3.6.1.4.1.25506.8.35.1.1.1.36)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Number of octets received on the interface.	Not supported
hh3cifInErrorPktsRate (1.3.6.1.4.1.25506.8.35.1.1.1.37)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Number of error packets on the interface.	Not supported
hh3cifInPkts (1.3.6.1.4.1.25506.8.35.1.1.1.38)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Number of correct packets on the interface.	Not supported
hh3cifInNormalPackets (1.3.6.1.4.1.25506.8.35.1.1.1.39)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Number of correct packets received on the interface.	Not supported
hh3cifOutPkts (1.3.6.1.4.1.25506.8.35.1.1.1.40)	read-only	CounterBasedGauge64	Counter64 (0..18446744073709551615)	Number of correct packets transmitted by the interface.	Not supported
hh3cifMulSuppressionFlag (1.3.6.1.4.1.25506.8.35.1.1.1.41)	read-write	INTEGER	all(1), unknown(2)	Flag of multicast suppression.	As per the MIB.

hh3cifHybridPortTable

About this table

This table contains hybrid interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifHybridPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifHybridPortIndex (1.3.6.1.4.1.25506.8.35.1.3.1.1)	read-only	INTEGER	INTEGER	Index of a hybrid interface.	As per the MIB.
hh3cifHybridTaggedVlanListLow (1.3.6.1.4.1.25506.8.35.1.3.1.2)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of tagged VLANs (in the range of VLAN 1 to VLAN 2048). Each bit in an octet represents a	As per the MIB.

				VLAN. If a bit is set to 1, the VLAN represented by this bit is a tagged VLAN.	
hh3cifHybridTaggedVlanListHigh (1.3.6.1.4.1.25506.8.35.1.3.1.3)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of tagged VLANs (in the range of VLAN 2049 to VLAN 4094). Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is a tagged VLAN.	As per the MIB.
hh3cifHybridUntaggedVlanListLow (1.3.6.1.4.1.25506.8.35.1.3.1.4)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of untagged VLANs (in the range of VLAN 1 to VLAN 2048). Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is an untagged VLAN.	As per the MIB.
hh3cifHybridUntaggedVlanListHigh (1.3.6.1.4.1.25506.8.35.1.3.1.5)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of untagged VLANs (in the range of VLAN 2049 to VLAN 4094). Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is an untagged VLAN.	As per the MIB.

hh3cifComboPortTable

About this table

This table contains combo interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifComboPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifComboPortIndex (1.3.6.1.4.1.25506.8.35.1.4.1.1)	read-only	Integer32	Integer32(1..2147483647)	Index of a combo interface.	As per the MIB.
hh3cifComboPortCurActive (1.3.6.1.4.1.25506.8.35.1.4.1.2)	read-write	INTEGER	fiber(1) copper(2) na(3) auto(4)	Type of the activated combo port.	As per the MIB.

hh3cifPktBufTable

About this table

This table contains packet buffer information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifPktBufFree.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifPktBufFree (1.3.6.1.4.1.25506.8.35.1.5.1.1)	read-only	Integer32	Integer32(1..2147483647)	Size of the available packet buffer for an interface.	As per the MIB.
hh3cifPktBufInit (1.3.6.1.4.1.25506.8.35.1.5.1.2)	read-only	Integer32	Integer32(1..2147483647)	Number of packet buffers allocated to the interface when the interface was created.	As per the MIB.
hh3cifPktBufMin (1.3.6.1.4.1.25506.8.35.1.5.1.3)	read-only	Integer32	Integer32(1..2147483647)	Minimum number of packet buffers allocated to the interface.	As per the MIB.
hh3cifPktBufMiss (1.3.6.1.4.1.25506.8.35.1.5.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of times that the interface failed to obtain a packet buffer before dropping the packet.	As per the MIB.
hh3cifPktBufInDrop (1.3.6.1.4.1.25506.8.35.1.5.1.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming packets dropped by the interface because of insufficient data buffer.	As per the MIB.
hh3cifPktBufEgDrop (1.3.6.1.4.1.25506.8.35.1.5.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing packets dropped by the interface because of insufficient data buffer.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.8.35.1.5.1.6)				of insufficient data buffer.	

hh3cifQueuePktBufTable

About this table

This table contains packet buffer queue information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifQueueId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifQueueId (1.3.6.1.4.1.25506.8.35.1.6.1.1)	read-only	Integer32	Integer32(1..8)	ID of a packet buffer queue.	As per the MIB.
hh3cifQueuePktBufTotal (1.3.6.1.4.1.25506.8.35.1.6.1.2)	read-only	Unsigned32	Unsigned32	Number of packet buffers for the queue.	As per the MIB.
hh3cifQueueBufUsed (1.3.6.1.4.1.25506.8.35.1.6.1.3)	read-only	Unsigned32	Unsigned32	Number of packet buffers used by the queue.	As per the MIB.
hh3cifQueueBufThresholdCount (1.3.6.1.4.1.25506.8.35.1.6.1.4)	read-only	Counter32	Counter32	Number of times that a queue of the interface has exceeded the threshold.	As per the MIB.
hh3cifQueueBufUsageIn5Seconds (1.3.6.1.4.1.25506.8.35.1.6.1.5)	read-only	Integer32	Integer32(0..100)	Buffer usage in the most recent 5 seconds for the queue.	As per the MIB.
hh3cifQueueBufUsageIn1Minute (1.3.6.1.4.1.25506.8.35.1.6.1.6)	read-only	Integer32	Integer32(0..100)	Buffer usage in the most recent 1 minute for the queue.	As per the MIB.
hh3cifQueueBufUsageIn5Minutes (1.3.6.1.4.1.25506.8.35.1.6.1.7)	read-only	Integer32	Integer32(0..100)	Buffer usage in the most recent 5 minutes for the queue.	As per the MIB.

hh3cifVLANTrunkStatusTable

About this table

This table contains GVRP attributes for a trunk port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifVLANTrunkIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifVLANTrunkIndex (1.3.6.1.4.1.25506.8.35.5.1.3.1.1)	read-only	INTEGER	INTEGER	Index of a trunk port.	As per the MIB.
hh3cifVLANTrunkPassListLow (1.3.6.1.4.1.25506.8.35.5.1.3.1.4)	read-only	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of permitted VLANs (in the range of VLAN 1 to VLAN 2048) on the port. Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is a trunked VLAN.	As per the MIB.
hh3cifVLANTrunkPassListHigh (1.3.6.1.4.1.25506.8.35.5.1.3.1.5)	read-only	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of permitted VLANs (in the range of VLAN 2049 to VLAN 4094) on the port. Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is a trunked VLAN.	As per the MIB.
hh3cifVLANTrunkAllowListLow (1.3.6.1.4.1.25506.8.35.5.1.3.1.6)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of permitted VLANs (in the range of VLAN 1 to VLAN 2048) on the port. Each bit in an octet represents a VLAN. If a bit is set to 1, the VLAN represented by this bit is a trunked VLAN.	You must specify this object and hh3cifVLANTrunkAllowListHigh in pairs in an SNMP request.
hh3cifVLANTrunkAllowListHigh (1.3.6.1.4.1.25506.8.35.5.1.3.1.7)	read-write	OCTET STRING	OCTET STRING (0..256)	Per-bit representation of permitted VLANs (in the range of VLAN 2049 to VLAN 4094) on the port. Each bit in an octet represents a	You must specify this object and hh3cifVLANTrunkAllowListLow in pairs in an SNMP request.

				VLAN. If a bit is set to 1, the VLAN represented by this bit is a trunked VLAN.	
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hh3cethernetTable of hh3cLswL2InfMibObject

About this table

This table contains Layer 2 interface settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifEthernetDuplex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifEthernetDuplex (1.3.6.1.4.1.25506.8.35.5.1.4.1.3)	read-write	INTEGER	full(1), half(2), auto(3)	Duplex mode of an interface.	Values half and auto are supported only when the interface operates at a speed higher than 1000 Mbps or is connected to a fiber connector. Layer 3 interfaces do not support write operation.
hh3cifEthernetMTU (1.3.6.1.4.1.25506.8.35.5.1.4.1.4)	read-write	INTEGER	1..65535	MTU of the interface.	Only interfaces that operate in Layer 2 mode or allow jumbo frames to pass through support write operation. Implementation varies by product. When write, value 1 indicates to set the maximum value in the value range. Value 2 indicates to set the minimum value in the value range.
hh3cifEthernetSpeed (1.3.6.1.4.1.25506.8.35.5.1.4.1.5)	read-write	INTEGER	auto(0), s10M(10), s100M(100), s1000M(1000), s2500M(2500), s5000M(5000),	Speed of the interface.	Ethernet interfaces do not support values s1000 and higher. GE interfaces do not support values s10000 and higher.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			s10000M(10000), s24000M(24000), s40000M(40000), s20000M(20000), s25000M(25000), s50000M(50000), s100000M(100000)		
hh3cifEthernetMdi (1.3.6.1.4.1.25506.8.35.5.1.4.1.7)	read-write	INTEGER	mdi-ii(1), mdi-x(2), mdi-auto(3)	MDI type of the interface.	GE, XGE, 20GE, 25GE, 40GE, 50GE, and 100GE interfaces that connect to fiber connectors do not support write operation.
hh3cMaxMacLearn (1.3.6.1.4.1.25506.8.35.5.1.4.1.8)	read-write	INTEGER	-1..2147483647	Maximum number of MAC addresses that the interface can learn.	The value of this object must be smaller than the maximum number of MAC addresses supported on the interface.
hh3cifMacAddressLearn (1.3.6.1.4.1.25506.8.35.5.1.4.1.9)	read-only	INTEGER	enabled(1), disabled(2)	Enabling status of MAC address learning on the interface.	As per the MIB.
hh3cifEthernetTest (1.3.6.1.4.1.25506.8.35.5.1.4.1.10)	read-write	INTEGER	test(1)	Test the interface.	Not supported
hh3cifMacAddrLearnMode (1.3.6.1.4.1.25506.8.35.5.1.4.1.11)	read-only	INTEGER	iVL(1), sVL(2)	MAC address learning mode of the interface.	Not supported
hh3cifEthernetFlowInterval (1.3.6.1.4.1.25506.8.35.5.1.4.1.12)	read-write	INTEGER	5..300	Flow interval of the interface.	Implementation varies by product.
hh3cifEthernetFlowInterval (1.3.6.1.4.1.25506.8.35.5.1.4.1.12)	read-write	INTEGER	5..300	Flow interval of the interface.	Implementation varies by product.
hh3cifEthernetIsolate (1.3.6.1.4.1.25506.8.35.5.1.4.1.13)	read-write	OCTETSTRING	OCTETSTRING	Isolation groups.	Not supported
hh3cifVlanVPNStatus (1.3.6.1.4.1.25506.8.35.5.1.4.1.14)	read-write	INTEGER	enabled(1), disabled(2)	Enabling status of the VLAN-VPN feature.	Not supported
hh3cifVlanVPNUplinkStatus (1.3.6.1.4.1.25506.8.35.5.1.4.1.15)	read-write	INTEGER	enabled(1), disabled(2)	Uplink status of the VLAN VPN for the interface.	Not supported
hh3cifVlanVPNTPID	read-write	Integer32	Integer32(1..6553)	VLAN VPN TPID	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
ID(1.3.6.1.4.1.25506.8.35.5.1.4.1.16)			5)	of the interface.	
hh3cifIsolateGroupID (1.3.6.1.4.1.25506.8.35.5.1.4.1.17)	read-write	Integer32	Integer32(1..2147483647)	ID of the isolation group to which the interface belongs.	Value 0 indicates that the interface does not belong to any isolation group.
hh3cifisUplinkPort (1.3.6.1.4.1.25506.8.35.5.1.4.1.18)	read-only	INTEGER	yes(1), no(2)	Uplink status of the interface.	Not supported
hh3cifEthernetAutoSpeedMask (1.3.6.1.4.1.25506.8.35.5.1.4.1.19)	read-only	SpeedModeFlagBITS	BITS{ s10M(0), s100M(1), s1000M(2), s10000M(3), s24000M(4), s40000M(5), s100000M(6), s2500M(7), s5000M(8), s20000M(9), s25000M(10), s50000M(11) }	Speed modes that can be negotiated	As per the MIB.
hh3cifEthernetAutoSpeed (1.3.6.1.4.1.25506.8.35.5.1.4.1.20)	read-write	SpeedModeFlagBITS	BITS{ s10M(0), s100M(1), s1000M(2), s10000M(3), s24000M(4), s40000M(5), s100000M(6), s2500M(7), s5000M(8), s20000M(9), s25000M(10), s50000M(11) }	Speed modes that are negotiable on this port	As per the MIB.

hh3cPortIsolateGroupTable

About this table

This table contains isolation group settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Supported	Supported

Columns

The table index is hh3cPortIsolateGroupIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPortIsolateGroupIndex (1.3.6.1.4.1.25506.8.35.5.1.11.1.1)	not-accessible	Integer32	Integer32(1..2147483647)	Index of an isolation group.	As per the MIB.
hh3cPortIsolateUplinkIfIndex (1.3.6.1.4.1.25506.8.35.5.1.11.1.2)	read-create	Integer32	Integer32	Index of the uplink interface.	Not supported
hh3cPortIsolateGroupRowStatus (1.3.6.1.4.1.25506.8.35.5.1.11.1.3)	read-create	INTEGER	INTEGER	Row status.	Supports only the following values: createAndGo, destroy, and active. Isolation group is available only when the row is in active status. You can set this object only when the device supports multiple isolation groups.
hh3cPortIsolateGroupDescription (1.3.6.1.4.1.25506.8.35.5.1.11.1.4)	read-create	DisplayString	OCTETSTRING(0..80)	Description of the isolation group.	Not supported

hh3cifPortProtocolStatTable

About this table

This table contains IPv4 and IPv6 packet statistics for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cifIPv4InOctets.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifIPv4InOctets	read-only	Counter64	Counter64 (0..184467440737)	Number of octets in IPv4 packets received on an	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.8.35.5.1.13.1.1)			09551615)	interface.	
hh3cifIPv4InUcastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.2)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 unicast packets received on the interface.	As per the MIB.
hh3cifIPv4InMultiPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 multicast packets received on the interface.	As per the MIB.
hh3cifIPv4InBroadcastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 broadcast packets received on the interface.	As per the MIB.
hh3cifIPv4InDiscards (1.3.6.1.4.1.25506.8.35.5.1.13.1.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming IPv4 packets dropped by the interface.	As per the MIB.
hh3cifIPv4InErrors (1.3.6.1.4.1.25506.8.35.5.1.13.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming IPv4 error packets on the interface.	As per the MIB.
hh3cifIPv4OutOctets (1.3.6.1.4.1.25506.8.35.5.1.13.1.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 packets transmitted by the interface.	As per the MIB.
hh3cifIPv4OutUcastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.8)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 unicast packets transmitted by the interface.	As per the MIB.
hh3cifIPv4OutMultiPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 multicast packets transmitted by the interface.	As per the MIB.
hh3cifIPv4OutBroadcastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv4 broadcast packets transmitted by the interface.	As per the MIB.
hh3cifIPv4OutDiscards (1.3.6.1.4.1.25506.8.35.5.1.13.1.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing IPv4 packets transmitted by the interface.	As per the MIB.
hh3cifIPv4OutErrors (1.3.6.1.4.1.25506.8.35.5.1.13.1.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing IPv4 error packets transmitted by the interface.	As per the MIB.
hh3cifIPv6InOctets (1.3.6.1.4.1.25506.8.35.5.1.13.1.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of octets in IPv6 packets received on an interface.	As per the MIB.
hh3cifIPv6InUcast	read-only	Counter64	Counter64	Number of IPv6	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
Pkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.14)			(0..18446744073709551615)	unicast packets received on the interface.	
hh3cifIPv6InMultiPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.15)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv6 multicast packets received on the interface.	As per the MIB.
hh3cifIPv6InAnycastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.16)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv6 broadcast packets received on the interface.	As per the MIB.
hh3cifIPv6InDiscards (1.3.6.1.4.1.25506.8.35.5.1.13.1.17)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming packets dropped by the interface.	As per the MIB.
hh3cifIPv6InErrors (1.3.6.1.4.1.25506.8.35.5.1.13.1.18)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming error packets received on the interface.	As per the MIB.
hh3cifIPv6OutOctets (1.3.6.1.4.1.25506.8.35.5.1.13.1.19)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of octets in IPv6 packets transmitted by the interface.	As per the MIB.
hh3cifIPv6OutUnicastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.20)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv6 unicast packets transmitted by the interface.	As per the MIB.
hh3cifIPv6OutMulticastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.21)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv6 multicast packets transmitted by the interface.	As per the MIB.
hh3cifIPv6OutAnycastPkts (1.3.6.1.4.1.25506.8.35.5.1.13.1.22)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of IPv6 broadcast packets transmitted by the interface.	As per the MIB.
hh3cifIPv6OutDiscards (1.3.6.1.4.1.25506.8.35.5.1.13.1.23)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing packets dropped by the interface.	As per the MIB.
hh3cifIPv6OutErrors (1.3.6.1.4.1.25506.8.35.5.1.13.1.24)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing error packets received on the interface.	As per the MIB.

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HH3C-STORM-CONSTRAIN-MIB

About this MIB

Use this MIB to obtain the interface status, configure traffic constrain, and define corresponding alarm thresholds.

MIB file name

hh3c-storm-constrain.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cStormConstrain(66)

Scalar objects

hh3cStormTrapType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStormTrapType (1.3.6.1.4.1.25506.2.66.1.1)	accessible-for-notify	INTEGER	{ broadcast(1), multicast(2), unicast(3), knownUnicast(4) }	<p>Reason why a trap message is generated on an interface.</p> <ul style="list-style-type: none">• broadcast—Trap message generated when broadcast traffic exceeds the upper limit or drops below the lower limit on the interface.• multicast—Trap message generated when multicast traffic exceeds the upper limit or drops below the lower limit on the interface.• unicast—Trap message generated when unknown unicast traffic exceeds the upper limit or drops below the lower limit on the interface.• knownUnicast—Trap message generated when known unicast traffic exceeds the upper limit or drops below the	As per the MIB.

				lower limit on the interface.	
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hh3cStormTrapThreshold

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStormTrapThreshold (1.3.6.1.4.1.25506.2.66.1.2)	accessible-for-notify	Integer32	Integer32	Threshold value for which a trap message was generated. For example, this value indicates the upper limit value for a trap generated because broadcast traffic exceeds the upper limit.	As per the MIB.

Tabular objects

hh3cStormCtrlTable

About this table

This table contain storm control settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Not supported	Supported

Columns

The table index is hh3cStormCtrlPortStatus.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cStormCtrlPortStatus (1.3.6.1.4.1.25506.2.66.2.1.1.1)	read-only	IH3cStormConstrainUnit	IH3cStormConstrainUnit	Status of an interface. <ul style="list-style-type: none"> controlled—The interface is in controlled status. normal—The interface is in normal status. 	As per the MIB.
hh3cStormCtrlBroadcastUnit (1.3.6.1.4.1.25506.2.66.2.1.1.2)	read-create	INTEGER	INTEGER{ pps(1), per(2), bps(3)}	Unit for the upper or lower broadcast traffic limit.	You must specify hh3cStormCtrlBroadcastUnit, hh3cStormCtrlBroadcastUpper, and hh3cStormCtrlBroadcastLower in an SNMP request. This object does not support value

Object (OID)	Access	Syntax	Value range	Description	Implementation
					bytePerSecond or none.
hh3cStormCtrlBroadcastUpper (1.3.6.1.4.1.25506.2.66.2.1.1.3)	read-create	Integer32	Integer32	Upper limit for broadcast traffic. The unit depends on h3cStormCtrlBroadcastUnit.	You must specify hh3cStormCtrlBroadcastUnit, hh3cStormCtrlBroadcastUpper, and hh3cStormCtrlBroadcastLower in an SNMP request. Value 0 indicates invalid configuration.
hh3cStormCtrlBroadcastLower (1.3.6.1.4.1.25506.2.66.2.1.1.4)	read-create	Integer32	Integer32	Lower limit for broadcast traffic. The unit depends on h3cStormCtrlBroadcastUnit.	You must specify hh3cStormCtrlBroadcastUnit, hh3cStormCtrlBroadcastUpper, and hh3cStormCtrlBroadcastLower in an SNMP request. Value 0 indicates invalid configuration.
hh3cStormCtrlMulticastUnit (1.3.6.1.4.1.25506.2.66.2.1.1.5)	read-create	H3cStormConstraintUnit	H3cStormConstraintUnit	Unit for the upper or lower multicast traffic limit.	You must specify hh3cStormCtrlMulticastUnit, hh3cStormCtrlMulticastUpper, and hh3cStormCtrlMulticastLower in an SNMP notification. This object does not support value bytePerSecond or none.
hh3cStormCtrlMulticastUpper (1.3.6.1.4.1.25506.2.66.2.1.1.6)	read-create	Integer32	Integer32	Upper limit for multicast traffic. The unit depends on h3cStormCtrlMulticastUnit.	You must specify hh3cStormCtrlMulticastUnit, hh3cStormCtrlMulticastUpper, and hh3cStormCtrlMulticastLower in an SNMP notification. Value 0 indicates invalid configuration.
hh3cStormCtrlMulticastLower (1.3.6.1.4.1.25506.2.66.2.1.1.7)	read-create	Integer32	Integer32	Lower limit for multicast traffic. The unit depends on h3cStormCtrlMulticastUnit.	You must specify hh3cStormCtrlMulticastUnit, hh3cStormCtrlMulticastUpper, and hh3cStormCtrlMulticastLower in an SNMP notification. The value of this object must be smaller than hh3cStormCtrlMulticast

Object (OID)	Access	Syntax	Value range	Description	Implementation
					astUpper. Value 0 indicates invalid configuration.
hh3cStormCtrlUnicastUnit (1.3.6.1.4.1.25506.2.66.2.1.1.8)	read-create	H3cStormConstraintUnit	H3cStormConstraintUnit	Unit for the upper or lower unicast traffic limit.	You must specify hh3cStormCtrlUnicastUnit, hh3cStormCtrlUnicastUpper, and hh3cStormCtrlUnicastLower in an SNMP notification. This object does not support value bytePerSecond or none.
hh3cStormCtrlUnicastUpper (1.3.6.1.4.1.25506.2.66.2.1.1.9)	read-create	Integer32	Integer32	Upper limit for unicast traffic. The unit depends on hh3cStormCtrlUnicastUnit.	You must specify hh3cStormCtrlUnicastUnit, hh3cStormCtrlUnicastUpper, and hh3cStormCtrlUnicastLower in an SNMP notification. Value 0 indicates invalid configuration.
hh3cStormCtrlUnicastLower (1.3.6.1.4.1.25506.2.66.2.1.1.10)	read-create	Integer32	Integer32	Lower limit for multicast traffic. The unit depends on hh3cStormCtrlUnicastUnit.	You must specify hh3cStormCtrlUnicastUnit, hh3cStormCtrlUnicastUpper, and hh3cStormCtrlUnicastLower in an SNMP notification. The value of this object must be smaller than hh3cStormCtrlUnicastUpper. Value 0 indicates invalid configuration.
hh3cStormCtrlRowStatus (1.3.6.1.4.1.25506.2.66.2.1.1.11)	read-create	RowStatus	RowStatus	Row status.	Supports only the following values: active, create, and destroy.
hh3cStormCtrlPortMode (1.3.6.1.4.1.25506.2.66.2.1.1.12)	read-create	INTEGER	INTEGER{ none(1), block(2), shutdown(3) }	Storm control mode of the interface.	As per the MIB.

Notifications

This section contains HH3C-STORM-CONSTRAIN-MIB notifications.

hh3cStormRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.66.3.1	Traffic of a type on an interface exceeded the upper limit.	Informational	N/A	N/A	ON

Description

This notification is generated when traffic control is enabled and traffic of any type on an interface exceeds the upper limit of this traffic type.

Status control

ON

CLI: Use the `storm-constrain enable trap` command.

OFF

CLI: Use the `undo storm-constrain enable trap` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.66.1.1 (hh3cStormTrapType)	Type of the notification.	No	INTEGER	broadcast(1) multicast(2) unicast(3)
1.3.6.1.4.1.25506.2.66.1.2 (hh3cStormTrapThreshold)	Alarm threshold.	No	Integer32	Same as the standard MIB.
1.3.6.1.4.1.25506.2.66.2.1.1.1 (hh3cStormCtrlPortStatus)	Status of the interface.	No	INTEGER	controlled(1) normal(2)

Recommended action

To resolve the issue:

1. Verify traffic of this type on the interface does not exceed the upper limit of this traffic type.
2. If the issue persists, contact H3C Support.

hh3cStormFalling

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.66.3.2	Traffic of a type on an interface dropped below the lower limit.	Informational	N/A	N/A	ON

Description

This notification is generated when traffic control is enabled and traffic of any type on an interface dropped below the upper limit of this traffic type.

Status control

ON

CLI: Use the `storm-constrain enable trap` command.

OFF

CLI: Use the `undo storm-constrain enable trap` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.66.1.1 (hh3cStormTrapType)	Type of the notification.	No	INTEGER	broadcast(1) multicast(2) unicast(3)
1.3.6.1.4.1.25506.2.66.1.2 (hh3cStormTrapThreshold)	Alarm threshold.	No	Integer32	Same as the standard MIB.
1.3.6.1.4.1.25506.2.66.2.1.1.1 (hh3cStormCtrlPortStatus)	Status of the interface.	No	INTEGER	controlled(1) normal(2)

Recommended action

No action is required.

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IF-MIB

About this MIB

This MIB describes generic attributes for network interfaces.

MIB file name

rfc2863-if.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ifMIB(31)

Scalar objects

ifNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifNumber(1.3.6.1.2.1.2.1)	read-only	Integer32	Integer32 (1..2147483647)	Number of interfaces.	As per the MIB.

Tabular objects

ifTable

About this table

Use this table to obtain information about an interface by interface index.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifIndex (1.3.6.1.2.1.2.2.1.1)	read-only	Integer32	Integer32 (1..2147483647)	Index of an interface.	As per the MIB.
ifDescr (1.3.6.1.2.1.2.2.1.2)	read-only	DisplayString	OCTET STRING(0..255)	Description of the interface.	A string that contains information about the interface, null0, Vlan-interface2,

Object (OID)	Access	Syntax	Value range	Description	Implementation
					Gigabitethernet1/0/1, Ten-Gigabitethernet2/0/1, for example.
ifType (1.3.6.1.2.1.2.2.1.3)	read-only	IANAIfType	INTEGER { other(1), regular1822(2), , hdh1822(3), ddnX25(4), rfc877x25(5), ethernetCsmacd(6), iso88023Csmacd(7), iso88024TokenBus(8), iso88025TokenRing(9), iso88026Man(10), starLan(11), proteon10Mbit(12), proteon80Mbit(13), hyperchannel(14), fddi(15), lapb(16), sdhc(17), ds1(18), e1(19), basicISDN(20), primaryISDN(21), propPointToPointSerial(22), ppp(23), softwareLoopback(24), eon(25), ethernet3Mbit(26), nsip(27), slip(28), ultra(29), ds3(30), sip(31), frameRelay(32), , rs232(33), para(34), arcnet(35), arcnetPlus(36),	Type of the interface.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			atm(37), miox25(38), sonet(39), x25ple(40), iso88022llc(41) , localTalk(42), smdsDxi(43), frameRelaySer vice(44), v35(45), hssi(46), hippi(47), modem(48), aal5(49), sonetPath(50), sonetVT(51), smdslcip(52), propVirtual(53) , propMultiplexo r(54), ieee80212(55), fibreChannel(5 6), hippiInterface(57), frameRelayInte rconnect(58), aflane8023(59) , aflane8025(60) , cctEmul(61), fastEther(62), isdh(63), v11(64), v36(65), g703at64k(66), g703at2mb(67) , qlhc(68), fastEtherFX(69), channel(70), ieee80211(71), ibm370parCha n(72), escon(73), dlsd(74), isdns(75), isdnu(76), lapd(77), ipSwitch(78), rsrb(79), atmLogical(80) , ds0(81), ds0Bundle(82), bsc(83), async(84), cnr(85),		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			iso88025Dtr(86), eplrs(87), arap(88), propCnls(89), hostPad(90), termPad(91), frameRelayMP(92), x213(93), adsl(94), radsl(95), sdsl(96), vdsl(97), iso88025CRFP(98), myrinet(99), voiceEM(100), voiceFXO(101), voiceFXS(102), voiceEncap(103), voiceOverIp(104), atmDxi(105), atmFuni(106), atmIma(107), pppMultilinkBundle(108), ipOverCdlc(109), ipOverClaw(110), stackToStack(111), virtualIpAddress(112), mpc(113), ipOverAtm(114), iso88025Fiber(115), tdlc(116), gigabitEthernet(117), hdlc(118), lapf(119), v37(120), x25mlp(121), x25huntGroup(122), transpHdlc(123), interleave(124), fast(125), ip(126), docsCableMacLayer(127), docsCableDownstream(128), docsCableUpstream(129), a12MppSwitch(130), tunnel(131),		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			coffee(132), ces(133), atmSubInterface(134), l2vlan(135), l3ipvlan(136), l3ipxvlan(137), digitalPowerline(138), mediaMailOverlap(139), dtm(140), dcn(141), ipForward(142), , msdsl(143), ieee1394(144), if-gsn(145), dvbRccMacLayer(146), dvbRccDownstream(147), dvbRccUpstream(148), atmVirtual(149), , mplsTunnel(150), srp(151), voiceOverAtm(152), voiceOverFrameRelay(153), idsl(154), compositeLink(155), ss7SigLink(156), propWirelessP2P(157), frForward(158), , rfc1483(159), usb(160), ieee8023adLag(161), bgppolicyaccounting(162), frf16MfrBundle(163), h323Gatekeeper(164), h323Proxy(165), , mpls(166), mfSigLink(167), , hdsI2(168),		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			shdsl(169), ds1FDL(170), pos(171), dvbAsiIn(172), dvbAsiOut(173), plc(174), nfas(175), tr008(176), gr303RDT(177), gr303IDT(178), isup(179), propDocsWirelessMaclayer(180), propDocsWirelessDownstream(181), propDocsWirelessUpstream(182), hiperlan2(183), propBWApm2Mp(184), sonetOverheadChannel(185), digitalWrapperOverheadChannel(186), aal2(187), radioMAC(188), atmRadio(189), imt(190), mvl(191), reachDSL(192), frDlciEndPt(193), atmVciEndPt(194), opticalChannel(195), opticalTransport(196), propAtm(197), voiceOverCable(198), infiniband(199), teLink(200), q2931(201), virtualTg(202), sipTg(203), sipSig(204), docsCableUpst		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			reamChannel(205), econet(206), pon155(207), pon622(208), bridge(209), linegroup(210), voiceEMFGD(211), voiceFGDEANA(212), voiceDID(213), mpegTransport(214), sixToFour(215), ', gtp(216), pdnEtherLoop1(217), pdnEtherLoop2(218), opticalChannelGroup(219), homepna(220), gfp(221), ciscoISLvlan(222), actelisMetaLOOP(223), fcipLink(224), rpr(225), qam(226), lmp(227), cblVectaStar(228), docsCableMTSDownstream(229), adsl2(230), macSecControlledIF(231), macSecUncontrolledIF(232), aviciOpticalEthernet(233), atmbond(234), voiceFGDOS(235), mocaVersion1(236), ieee80216WMAN(237), adsl2plus(238), ', dvbRcsMacLayer(239), dvbTdm(240), dvbRcsTdma(241), x86Laps(242),		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			wwanPP(243), wwanPP2(244) , voiceEBS(245) , ifPwType(246), ilan(247), pip(248), aluELP(249), gpon(250), vdsl2(251), capwapDot11P rofile(252), capwapDot11B ss(253), capwapWtpVirt ualRadio(254), bits(255), docsCableUpst reamRfPort(25 6), cableDownstre amRfPort(257) , switchstack(65 534) }		
ifMtu (1.3.6.1.2.1.2.2.1.4)	read-only	Integer32	Integer32(1..2147483647)	MTU of the interface.	Size of the largest packet that can be received or forwarded on the interface. This object is inapplicable to aggregate interfaces.
ifSpeed (1.3.6.1.2.1.2.2.1.5)	read-only	Gauge32	Gauge32(0..4294967295)	Speed of the interface.	Estimated bandwidth of the interface.
ifPhysAddress (1.3.6.1.2.1.2.2.1.6)	read-only	PhysAddress	OCTET STRING	MAC address of the interface.	Implementation varies by product. For a switch, only the following types of interfaces have a MAC address: <ul style="list-style-type: none"> • M-Ethernet port. • Vlan interface. • Ethernet port. • GigabitEthernet port. • XGigabitEthernet port. • Forty-GigabitEthernet port. • Hundred-GigabitEthernet port.
ifAdminStatus (1.3.6.1.2.1.2.2.1.7)	read- write	OCTET STRING	up(1), down(2), testing(3)	Default status of the interface.	Supports only the values up(1) and down(2).

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifOperStatus (1.3.6.1.2.1.2.2.1.8)	read-only	OCTET STRING	up(1), down(2), testing(3), unknown(4), dormant(5), notPresent(6), lowerLayerDo wn(7)	Operational status of the interface.	Current operational status of the interface.
ifLastChange (1.3.6.1.2.1.2.2.1.9)	read-only	TimeTic ks	TimeTicks (0..429496729 5)	Duration of the interface.	Time elapsed since the interface entered in the current status.
ifInOctets (1.3.6.1.2.1.2.2.1.10)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of octets in incoming packets.	As per the MIB.
ifInUcastPkts (1.3.6.1.2.1.2.2.1.11)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of incoming unicast packets.	As per the MIB.
ifInNUcastPkts (1.3.6.1.2.1.2.2.1.12)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of incoming non-unicast packets.	As per the MIB.
ifInDiscards (1.3.6.1.2.1.2.2.1.13)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of incoming packets that were dropped.	Implementation varies by product. Not supported by switches.
ifInErrors (1.3.6.1.2.1.2.2.1.14)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of incoming packets that contain errors.	As per the MIB.
ifInUnknownProtos (1.3.6.1.2.1.2.2.1.15)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of incoming protocol-unkno wn packets.	As per the MIB.
ifOutOctets (1.3.6.1.2.1.2.2.1.16)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of octets in outgoing packets.	As per the MIB.
ifOutUcastPkts (1.3.6.1.2.1.2.2.1.17)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of outgoing unicast packets.	As per the MIB.
ifOutNUcastPkts (1.3.6.1.2.1.2.2.1.18)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of outgoing non-unicast packets.	As per the MIB.
ifOutDiscards (1.3.6.1.2.1.2.2.1.19)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of outgoing packets that were dropped.	As per the MIB.
ifOutErrors (1.3.6.1.2.1.2.2.1.20)	read-only	Counter 32	Counter32 (0..429496729 5)	Number of outgoing packets that	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				contain errors.	
ifOutQLen (1.3.6.1.2.1.2.2.1.21)	read-only	Gauge32	Gauge32 (0..4294967295)	Length of the outgoing packet queue.	Implementation varies by product.
ifSpecific (1.3.6.1.2.1.2.2.1.22)	read-only	OCTET IDENTIFIER	OCTET IDENTIFIER	Interface for realize specific definitions.	Not supported

ifXTable

About this table

Use this table to obtain information about an interface by interface name.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ifName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifName (1.3.6.1.2.1.31.1.1.1.1)	read-only	DisplayString	OCTET STRING(0..255)	Name of an interface.	Interface name.
ifInMulticastPkts (1.3.6.1.2.1.31.1.1.1.2)	read-only	Counter32	Counter32 (0..4294967295)	Number of incoming multicast packets.	As per the MIB.
ifInBroadcastPkts (1.3.6.1.2.1.31.1.1.1.3)	read-only	Counter32	Counter32 (0..4294967295)	Number of incoming broadcast packets.	As per the MIB.
ifOutMulticastPkts (1.3.6.1.2.1.31.1.1.1.4)	read-only	Counter32	Counter32 (0..4294967295)	Number of outgoing multicast packets.	As per the MIB.
ifOutBroadcastPkts (1.3.6.1.2.1.31.1.1.1.5)	read-only	Counter32	Counter32 (0..4294967295)	Number of outgoing broadcast packets.	As per the MIB.
ifHCInOctets (1.3.6.1.2.1.31.1.1.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of octets in incoming packets.	As per the MIB.
ifHCInUcastPkts (1.3.6.1.2.1.31.1.1.1.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming unicast packets.	As per the MIB.
ifHCInMulticastPkts	read-only	Counter	Counter64	Number of	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.31.1.1.1.8)		64	(0..18446744073709551615)	incoming multicast packets.	
ifHCInBroadcastPkts (1.3.6.1.2.1.31.1.1.1.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming broadcast packets.	As per the MIB.
ifHCOctets (1.3.6.1.2.1.31.1.1.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of octets in outgoing multicast packets.	As per the MIB.
ifHCOUcastPkts (1.3.6.1.2.1.31.1.1.1.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing unicast packets.	As per the MIB.
ifHCOMulticastPkts (1.3.6.1.2.1.31.1.1.1.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing multicast packets.	As per the MIB.
ifHCOBroadcastPkts (1.3.6.1.2.1.31.1.1.1.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing broadcast packets.	As per the MIB.
ifLinkUpDownTrapEnable (1.3.6.1.2.1.31.1.1.1.14)	read-write	INTEGER	enabled(1), disabled(2)	Whether to enable link-up or link-down traps on the interface.	As per the MIB.
ifHighSpeed (1.3.6.1.2.1.31.1.1.1.15)	read-only	Gauge32	Gauge32 (0..4294967295)	Bandwidth of the interface.	As per the MIB.
ifPromiscuousMode (1.3.6.1.2.1.31.1.1.1.16)	read-write	TruthValue	true(1), false(2)	Enabling status of promiscuous mode.	Implementation varies by product. Not supported by switches.
ifConnectorPresent (1.3.6.1.2.1.31.1.1.1.17)	read-only	TruthValue	true(1), false(2)	Whether the interface sublayer has a physical connector.	As per the MIB.
ifAlias (1.3.6.1.2.1.31.1.1.1.18)	read-write	DisplayString OCTET STRING	OCTET STRING(0..64)	Alias of the interface.	As per the MIB.
ifCounterDiscontinuityTime (1.3.6.1.2.1.31.1.1.1.19)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the interface's counters suffered discontinuity.	Implementation varies by product.

ifRcvAddressTable

About this table

Use this table to configure the address of an interface to receive packets.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Supported	Supported

Columns

The table index is ifRcvAddressAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifRcvAddressAddress (1.3.6.1.2.1.31.1.4.1.1)	not-accessible	PhysAddress	OCTET STRING (4)	Address of an interface to receive packets.	Implementation varies by product.
ifRcvAddressStatus (1.3.6.1.2.1.31.1.4.1.2)	read-create	INTEGER	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Status of the receiving address.	Implementation varies by product.
ifRcvAddressType (1.3.6.1.2.1.31.1.4.1.3)	read-create	INTEGER	other(1), volatile(2), nonVolatile(3)	Type of the receiving address.	Implementation varies by product.

Notifications

This section contains the IF-MIB notifications.

linkDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.3	Link down.	Error	Major	1.3.6.1.6.3.1.1.5.4 (linkUp)	ON

Description

This notification is generated when the SNMPv2 entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links is about to enter the down state from some other state (but not from the notPresent state). Other states refer to the values of the ifOperStatus variable.

Status control

ON

CLI: Use the `snmp-agent trap enable standard linkdown` command.

OFF

CLI: Use the `undo snmp-agent trap enable standard linkdown` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.7 (ifAdminStatus)	Administrative status of the interface.	No	INTEGER	up(1) down(2) testing(3)
1.3.6.1.2.1.2.2.1.8 (ifOperStatus)	Operational status of the interface.	No	INTEGER	up(1) down(2) testing(3) unknown(4) dormant(5) notPresent(6) lowerLayerDown(7)

Recommended action

To resolve the issue:

1. Verify that the interface is connected and configured correctly.
2. If the issue persists, contact H3C Support.

linkUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.4	Link up.	Recovery	N/A	N/A	ON

Description

This notification is generated when that the SNMPv2 entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links left the down state and transitioned into some other state (but not into the notPresent state). Other states refer to the values of the ifOperStatus variable.

Status control

ON

CLI: Use the `snmp-agent trap enable standard linkup` command.

OFF

CLI: Use the `undo snmp-agent trap enable standard linkup` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.7 (ifAdminStatus)	Administrative status of the interface.	No	INTEGER	up(1) down(2) testing(3)
1.3.6.1.2.1.2.2.1.8 (ifOperStatus)	Operational status of the interface.	No	INTEGER	up(1) down(2) testing(3) unknown(4) dormant(5) notPresent(6) lowerLayerDown(7)

Recommended action

No action is required.

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BRIDGE-MIB

About this MIB

Use this MIB to obtain basic bridge information, collect diagnosis information, and configure the system operating mode.

MIB file name

rfc1493-bridge.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).dot1dBridge(17)

Scalar objects

dot1dBaseBridgeAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dBaseBridgeAddress (1.3.6.1.2.1.17.1.1)	read-only	OCTET STRING	(0..255)	MAC address used by this bridge when it must be referred to in a unique fashion.	As per the MIB.

dot1dBaseNumPorts

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dBaseNumPorts (1.3.6.1.2.1.17.1.2)	read-only	INTEGER	Standard MIB values.	Number of ports controlled by this bridging entity.	As per the MIB.

dot1dBaseType

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dBaseType (1.3.6.1.2.1.17.1.3)	read-only	INTEGER	unknown(1), transparent-only(2), sourceroute-only(3), srt(4),	Indicates what type of bridging this bridge can perform.	As per the MIB.

dot1dStpProtocolSpecification

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpProtocolSpecification (1.3.6.1.2.1.17.2.1)	read-only	INTEGER	unknown(1), decLb100(2), ieee8021d(3)	Indication of what version of the Spanning Tree Protocol is being	As per the MIB.

				run.	
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dot1dStpPriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpPriority (1.3.6.1.2.1.17.2.2)	read-write	INTEGER	(0..61440)	Value of the write-able portion of the Bridge ID.	As per the MIB.

dot1dStpTimeSinceTopologyChange

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpTimeSinceTopologyChange (1.3.6.1.2.1.17.2.3)	read-only	TimeTicks	Standard MIB values.	Time (in hundredths of a second) since the last time a topology change was detected by the bridge entity.	As per the MIB.

dot1dStpTopChanges

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpTopChanges (1.3.6.1.2.1.17.2.4)	read-only	Counter	Standard MIB values.	Total number of topology changes detected by this bridge since the management entity was last reset or initialized.	As per the MIB.

dot1dStpDesignatedRoot

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpDesignatedRoot (1.3.6.1.2.1.17.2.5)	read-only	BridgeId	Standard MIB values.	Bridge identifier of the root of the spanning tree as determined by the Spanning Tree Protocol as executed by this node.	As per the MIB.

dot1dStpRootCost

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpRootCost (1.3.6.1.2.1.17.2.6)	read-only	INTEGER	Standard MIB values.	Cost of the path to the root as seen from this bridge.	As per the MIB.

dot1dStpRootPort

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpRootPort (1.3.6.1.2.1.17.2.7)	read-only	INTEGER	Standard MIB values.	Port number of the port which offers	As per the MIB.

)				the lowest cost path from this bridge to the root bridge.	
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dot1dStpMaxAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpMaxAge (1.3.6.1.2.1.17.2.8)	read-only	Timeout	Standard MIB values.	Maximum age of Spanning Tree Protocol information.	As per the MIB.

dot1dStpHelloTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpHelloTime (1.3.6.1.2.1.17.2.9)	read-only	Timeout	Standard MIB values.	Amount of time between the transmission of Configuration bridge PDUs by this node on any port when it is the root of the spanning tree or trying to become so.	As per the MIB.

dot1dStpHoldTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpHoldTime (1.3.6.1.2.1.17.2.10)	read-only	INTEGER	Standard MIB values.	Interval length during which no more than two Configuration bridge PDUs shall be transmitted by this node.	As per the MIB.

dot1dStpForwardDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpForwardDelay (1.3.6.1.2.1.17.2.11)	read-only	Timeout	Standard MIB values.	Controls how fast a port changes its spanning state when moving towards the Forwarding state.	As per the MIB.

dot1dStpBridgeMaxAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpBridgeMaxAge (1.3.6.1.2.1.17.2.12)	read-write	Timeout	(600..4000)	Maximum age.	As per the MIB.

dot1dStpBridgeHelloTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpBridgeHelloTime (1.3.6.1.2.1.17.2.13)	read-write	INTEGER	(100..1000)	Hello time.	As per the MIB.

dot1dStpBridgeForwardDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpBridgeForwardDelay (1.3.6.1.2.1.17.2.14)	read-write	INTEGER	(400..3000)	Controls how fast a port changes its spanning state when moving towards the Forwarding state.	As per the MIB.

dot1dTpAgingTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dTpAgingTime (1.3.6.1.2.1.17.4.2)	read-write	INTEGER	(-1 10..1000000)	Timeout period in seconds for aging out dynamically learned forwarding information.	Implementation varies by product.

Tabular objects

dot1dBasePortTable

About this table

This table contains generic information about every port that is associated with this bridge.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot1dBasePort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dBasePort (1.3.6.1.2.1.17.1.4.1.1)	read-only	INTEGER	(1..65535)	Port number of the port for which this entry contains bridge management information.	As per the MIB.
dot1dBasePortIfIndex (1.3.6.1.2.1.17.1.4.1.2)	read-only	INTEGER	Standard MIB values.	Value of the instance of the ifIndex object for the interface	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				corresponding to this port.	
dot1dBasePortCircuit (1.3.6.1.2.1.17.1.4.1.3)	read-only	OBJECT IDENTIFIER	Standard MIB values.	Name of an object instance unique to this port.	As per the MIB.
dot1dBasePortDelayExceededDiscards (1.3.6.1.2.1.17.1.4.1.4)	read-only	Counter	Standard MIB values.	Number of frames discarded by this port due to excessive transit delay through the bridge.□	As per the MIB.
dot1dBasePortMulticastExceededDiscards (1.3.6.1.2.1.17.1.4.1.5)	read-only	Counter	Standard MIB values.	Number of frames discarded by this port due to an excessive size.	As per the MIB.

dot1dStpPortTable

About this table

This table that contains port-specific information for the Spanning Tree Protocol.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is dot1dStpPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpPort (1.3.6.1.2.1.17.2.1.5.1.1)	read-only	INTEGER	(1..65535)	Port number of the port for which this entry contains Spanning Tree Protocol management information.	As per the MIB.
dot1dStpPortPriority (1.3.6.1.2.1.17.2.1.5.1.2)	read-write	INTEGER	(0..240)	Value of the priority field which is contained in the first (in network byte order) octet of the (2 octet long) Port ID.	As per the MIB.
dot1dStpPortState (1.3.6.1.2.1.17.2.1.5.1.3)	read-only	INTEGER	disabled(1), blocking(2), listening(3), learning(4), forwarding(5), broken(6)	Port's current state as defined by application of the Spanning Tree Protocol.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dStpPortEnable (1.3.6.1.2.1.17.2.1.5.1.4)	read-write	INTEGER	enabled(1), disabled(2)	Enabled/disabled status of the port.	As per the MIB.
dot1dStpPortPathCost (1.3.6.1.2.1.17.2.1.5.1.5)	read-write	INTEGER	(1..65535)	Contribution of this port to the path cost of paths towards the spanning tree root which include this port.	In the current software version, this object supports only the IEEE802.1d-1990 standard, and the value range is 1 to 65535. If the actual value is greater than 65535 in another standard, the object value is 65535.
dot1dStpPortDesignatedRoot (1.3.6.1.2.1.17.2.1.5.1.6)	read-only	BridgeId	Standard MIB values.	Unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached.	As per the MIB.
dot1dStpPortDesignatedCost (1.3.6.1.2.1.17.2.1.5.1.7)	read-only	INTEGER	Standard MIB values.	Path cost.	As per the MIB.
dot1dStpPortDesignatedBridge (1.3.6.1.2.1.17.2.1.5.1.8)	read-only	BridgeId	Standard MIB values.	Bridge identifier.	As per the MIB.
dot1dStpPortDesignatedPort (1.3.6.1.2.1.17.2.1.5.1.9)	read-only	OCTET STRING	(SIZE (2))	Port identifier of the port on the Designated Bridge for this port's segment.	As per the MIB.
dot1dStpPortForwardTransition (1.3.6.1.2.1.17.2.1.5.1.10)	read-only	Counter	Standard MIB values.	Number of times this port has transitioned from the Learning state to the Forwarding state.	As per the MIB.

dot1dTpFdbTable

About this table

This table contains information about unicast entries for which the bridge has forwarding and/or filtering information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot1dTpFdbAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dTpFdbAddress (1.3.6.1.2.1.17.4.3.1.1)	read-only	OCTET STRING	SIZE (6)	Unicast MAC address entry.	As per the MIB.
dot1dTpFdbPort (1.3.6.1.2.1.17.4.3.1.2)	read-only	INTEGER	Standard MIB values.	Port number of the port on which a frame having a source address equal to the value of the corresponding instance of dot1dTpFdbAddress has been seen.	As per the MIB.
dot1dTpFdbStatus (1.3.6.1.2.1.17.4.3.1.3)	read-only	INTEGER	other(1), invalid(2), learned(3), self(4), mgmt(5)	Status of this entry.	As per the MIB.

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EtherLike-MIB

About this MIB

Use this MIB to obtain basic Ethernet interface information, collect diagnosis information, and configure the system operating mode.

MIB file name

rfc3635-EtherLike.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).transmission(10).dot3(7).dot3StatsTable(2).dot3StatsEntry(1)

Tabular objects

dot3StatsTable

About this table

This table contains statistics for a collection of Ethernet-like interfaces attached to a particular system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3StatsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3StatsIndex (1.3.6.1.2.1.10.7.2.1.1)	read-only	INTEGER	Standard MIB values.	Unique index of the interface attached to an Ethernet-link medium.	As per the MIB.
dot3StatsAlignme ntErrors (1.3.6.1.2.1.10.7.2.1.2)	read-only	Counter32	Standard MIB values.	Number of frames that fail to pass FCS check.	As per the MIB.
dot3StatsFCSErr ors (1.3.6.1.2.1.10.7.2.1.3)	read-only	Counter32	Standard MIB values.	Number of frames received on a particular interface that are an integral number of octets in length but do not pass the FCS check.	As per the MIB.
dot3StatsSingleC ollisionFrames	read-only	Counter32	Standard MIB	Number of frames that are involved in	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.10.7.2.1.4)			values.	a single collision and are subsequently transmitted successfully. This counter does not increment when the interface is operating in full-duplex mode.	
dot3StatsMultipleCollisionFrames (1.3.6.1.2.1.10.7.2.1.5)	read-only	Counter32	Standard MIB values.	Number of frames that are involved in multiple collisions and are subsequently transmitted successfully. This counter does not increment when the interface is operating in full-duplex mode.	As per the MIB.
dot3StatsSQETestErrors (1.3.6.1.2.1.10.7.2.1.6)	read-only	Counter32	Standard MIB values.	Number of times that the SQE TEST ERROR messages are received on a particular interface.	As per the MIB.
dot3StatsDeferredTransmissions (1.3.6.1.2.1.10.7.2.1.7)	read-only	Counter32	Standard MIB values.	Number of frames for which the first transmission attempt on a particular interface is delayed because the medium is busy.	As per the MIB.
dot3StatsLateCollisions (1.3.6.1.2.1.10.7.2.1.8)	read-only	Counter32	Standard MIB values.	Number of times that a collision is detected on a particular interface later than one slotTime into the transmission of a packet. This counter does not increment when the interface is operating in full-duplex mode.	As per the MIB.
dot3StatsExcessiveCollisions (1.3.6.1.2.1.10.7.2.1.9)	read-only	Counter32	Standard MIB values.	Number of frames for which transmission on a particular interface fails due to excessive collisions.	As per the MIB.
dot3StatsInternalMacTransmitErrors (1.3.6.1.2.1.10.7.2.1.10)	read-only	Counter32	Standard MIB values.	Number of frames for which transmission on a particular interface fails due to an	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				internal MAC sublayer transmit error.	
dot3StatsCarrierSenseErrors (1.3.6.1.2.1.10.7.2.1.11)	read-only	Counter32	Standard MIB values.	Number of times that the carrier sense condition was lost or never asserted when attempting to transmit a frame on a particular interface.	As per the MIB.
dot3StatsFrameTooLongs (1.3.6.1.2.1.10.7.2.1.13)	read-only	Counter32	Standard MIB values.	Number of frames received on a particular interface that exceed the maximum permitted frame size.	As per the MIB.
dot3StatsInternalMacReceiveErrors (1.3.6.1.2.1.10.7.2.1.16)	read-only	Counter32	Standard MIB values.	Number of frames for which reception on a particular interface fails due to an internal MAC sublayer receive error.	As per the MIB.
dot3StatsEtherChipSet (1.3.6.1.2.1.10.7.2.1.17)	read-only	Object Identifier	Standard MIB values.	This object contains an OBJECT IDENTIFIER.	Not supported
dot3StatsSymbolErrors (1.3.6.1.2.1.10.7.2.1.18)	read-only	Counter	Standard MIB values.	For interfaces operating at 100 Mbps.	As per the MIB.
dot3StatsDuplexStatus (1.3.6.1.2.1.10.7.2.1.19)	read-only	Integer	unknown(1), halfDuplex(2), fullDuplex(3)	Current mode of operation of the MAC entity.	As per the MIB.
dot3StatsRateControlAbility (1.3.6.1.2.1.10.7.2.1.20)	read-only	Integer	Standard MIB values.	For interfaces operating at speeds above 1000 Mbps.	As per the MIB.
dot3StatsRateControlStatus (1.3.6.1.2.1.10.7.2.1.21)	read-only	OBJECT IDENTIFIER	rateControlOff(1), rateControlOn(2), unknown(3)	Current rate control mode of operation of the MAC sublayer of this interface.	As per the MIB.

dot3CollTable

About this table

This table contains a collection of collision histograms for a particular set of interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and dot3CollCount.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3CollCount (1.3.6.1.2.1.10.7.5.1.2)	not-accessible	Integer	Integer (1..16)	Number of per-frame media collisions for which a particular collision histogram cell represents the frequency on a particular interface.	As per the MIB.
dot3CollFrequencies (1.3.6.1.2.1.10.7.5.1.3)	read-only	Counter32	Standard MIB values.	Number of individual MAC frames for which the transmission (successful or otherwise) on a particular interface occurs.	As per the MIB.

dot3ControlTable

About this table

This table contains the descriptive and status information about the MAC Control sublayer on the Ethernet-like interfaces attached to a particular system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3StatsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3ControlFunctionsSupported (1.3.6.1.2.1.10.7.9.1.1)	read-only	BITS	pause(0)	List of the possible MAC Control functions implemented for this interface.	As per the MIB.
dot3ControlInUnknownOpCodes (1.3.6.1.2.1.10.7.9)	read-only	Counter32	Standard MIB values.	Number of MAC Control frames received on this	As per the MIB.

.1.2)				interface that contain an opcode that is not supported by this device.	
dot3HCControlInUnknownOpCodes(1.3.6.1.2.1.10.7.9.1.3)	read-only	Counter64	Standard MIB values.	64-bit counter of the dot3ControlInUnknownOpCodes object. This object applies to 10-Gbps or faster interfaces.	As per the MIB.

dot3PauseTable

About this table

This table contains the descriptive and status information about the MAC Control PAUSE function on the Ethernet-like interfaces attached to a particular system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3StatsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3PauseAdminMode (1.3.6.1.2.1.10.7.10.1.1)	read-write	Integer 32	disabled(1), enabledXmit(2), enabledRcv(3), enabledXmitAndRcv(4)	Configure the default administrative PAUSE mode for this interface.	The object can only be read.
dot3PauseOperMode (1.3.6.1.2.1.10.7.10.1.2)	read-only	Integer32	disabled(1), enabledXmit(2), enabledRcv(3), enabledXmitAndRcv(4)	This object reflects the PAUSE mode currently in use on this interface.	As per the MIB.
dot3InPauseFrames (1.3.6.1.2.1.10.7.10.1.3)	read-only	Counter32	Standard MIB values.	Number of MAC Control frames received on this interface with an opcode indicating the PAUSE operation. This counter does not increment when the interface is operating in	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				half-duplex mode.	
dot3OutPauseFrames (1.3.6.1.2.1.10.7.1 0.1.4)	read-only	Counter32	Standard MIB values.	Number of MAC Control frames transmitted on this interface with an opcode indicating the PAUSE operation. This counter does not increment when the interface is operating in half-duplex mode.	As per the MIB.
dot3HCInPauseFrames (1.3.6.1.2.1.10.7.1 0.1.5)	read-only	Counter64	Standard MIB values.	Number of MAC Control frames received on this interface with an opcode indicating the PAUSE operation.	As per the MIB.
dot3HCOutPauseFrames (1.3.6.1.2.1.10.7.1 0.1.6)	read-only	Counter64	Standard MIB values.	Number of MAC Control frames transmitted on this interface with an opcode indicating the PAUSE operation.	As per the MIB.

dot3HCStatsTable

About this table

This table contains 64-bit versions of error counters for a single Ethernet-like interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3StatsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3HCStatsAlignmentErrors (1.3.6.1.2.1.10.7.1 0.1.1)	read-only	Counter64	Standard MIB values.	Number of frames received on a particular interface that are not an integral number of octets in length and do not pass the FCS check.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3HCStatsFCS Errors (1.3.6.1.2.1.10.7.1 1.1.2)	read-only	Counter64	Standard MIB values.	Number of frames received on a particular interface that are an integral number of octets in length but do not pass the FCS check.	As per the MIB.
dot3HCStatsIntern alMacTransmitErr ors (1.3.6.1.2.1.10.7.1 1.1.3)	read-only	Counter64	Standard MIB values.	Number of frames for which transmission on a particular interface fails due to an internal MAC sublayer transmit error.	As per the MIB.
dot3HCStatsFram eTooLongs(1.3.6. 1.2.1.10.7.11.1.4)	read-only	Counter64	Standard MIB values.	Number of frames received on a particular interface that exceed the maximum permitted frame size.	As per the MIB.
dot3HCStatsIntern alMacReceiveErro rs (1.3.6.1.2.1.10.7.1 1.1.5)	read-only	Counter64	Standard MIB values.	Number of frames for which reception on a particular interface fails due to an internal MAC sublayer receive error.	As per the MIB.
dot3HCStatsSymb olErrors (1.3.6.1.2.1.10.7.1 1.1.6)	read-only	Counter64	Standard MIB values.	Number of invalid data symbols.	As per the MIB.

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HH3C-LAG-MIB

About this MIB

This MIB contains information in ieee8023-lag.mib and hh3c-lag.mib.

MIB file name

hh3c-lag.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3cLAG(25)

Scalar objects

hh3cAggResourceAllocationValue

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAggResourceAllocationValue (1.3.6.1.4.1.25506.8.25.1.3)	read-only	Octets	OCTET STRING (1)	Whether link aggregation is implemented by Huawei or H3C.	As per the MIB.

Tabular objects

hh3cAggLinkTable

About this table

This table contains aggregation group information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cAggLinkNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAggLinkNumber (1.3.6.1.4.1.25506.8.25.1.1.1.1)	not-accessible	Integer32	Standard MIB values.	Aggregation group ID.	As per the MIB.

3

Columns

The table index is hh3cAggPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAggPortIndex (1.3.6.1.4.1.25506.8.25.1.2.1.1)	not-accessible	Gauge32	Standard MIB values.	Member port index.	As per the MIB.
hh3cAggPortNotAttachedReason (1.3.6.1.4.1.25506.8.25.1.2.1.2)	read-write	Integer32	0..10	Why the port is unselected.	Read-only.
hh3cAggPortLacpState (1.3.6.1.4.1.25506.8.25.1.2.1.3)	read-write	TruthValue	true(1) false(2)	Status of LACP.	Read-only.
hh3cAggPortNotAttachedString (1.3.6.1.4.1.25506.8.25.1.2.1.4)	read-write	DisplayString	SIZE (0..255)	Detailed cause for the unselected state of the member port.	Read-only.

Notifications

hh3cAggPortInactiveNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.2.2	An aggregation member port becomes unselected.	Informational	Warning	-	ON

Description

This notification is generated when an aggregation member port becomes unselected.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	Yes	Integer32	1..40960

Recommended action

1. Verify that the aggregation member port is physically up.

2. Verify that the attribute configuration of the aggregation member port is the same as that of the aggregate interface.
3. Repeat step 1 and step 2 on the peer port if the aggregate interface operates in dynamic mode.
4. If the issue persists, contact H3C Support.

hh3cAggPortInactiveNotification2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.2.2.3	An aggregation member port becomes unselected.	Informational	Warning	-	ON

Description

This notification is generated when an aggregation member port becomes unselected.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	Yes	Integer32	1..40960
1.3.6.1.4.1.25506.8.25.1.2.1.1 (hh3cAggPortIndex)	Aggregation member port index.	No	Integer32	As per the MIB.

Recommended action

1. Verify that the aggregation member port is physically up.
2. Verify that the attribute configuration of the aggregation member port is the same as that of the aggregate interface.
3. Repeat step 1 and step 2 on the peer port if the aggregate interface operates in dynamic mode.
4. If the issue persists, contact H3C Support.

hh3cAggPortActiveNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.2.2.4	An aggregation member port becomes selected.	Informational	-	-	ON

Description

This notification is generated when an aggregation member port becomes selected.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	Yes	Integer32	1..40960
1.3.6.1.4.1.25506.8.25.1.2.1.1 (hh3cAggPortIndex)	Aggregation member port index.	No	Integer32	As per the MIB.

Recommended action

No action is required.

hh3cAggAllMemberDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.7	All member ports in an aggregation group go down.	Informational	Alarm	1.3.6.1.4.1.25506.8.25.0.8 (hh3cAggAllMemberDownRecovery)	ON

Description

This notification is generated when all member ports in an aggregation group go down.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

Check the link status of aggregation member ports.

hh3cAggAllMemberDownRecovery

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.8	An aggregation group has the first up member port.	Informational	Alarm	-	ON

Description

This notification is generated when an aggregation group has the first up member port.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

No action is required.

hh3cAggAllMemberUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.9	All member ports in an aggregation group come up.	Informational	Alarm	-	ON

Description

This notification is generated when all member ports in an aggregation group come up.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

No action is required.

hh3cAggMemberLinkDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.10	A member port goes down in an aggregation group.	Informational	Alarm	1.3.6.1.4.1.25506.8.25.0.11 (hh3cAggMemberLinkUp)	ON

Description

This notification is generated when a member port goes down in an aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

Check the link status of aggregation member ports.

hh3cAggMemberLinkUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.11	A member port comes up in an aggregation group.	Informational	Alarm	-	ON

Description

This notification is generated when a member port comes up in an aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

No action is required.

hh3cAggMemberCoutExceedThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.12	The maximum number of selected ports is exceeded in an aggregation group.	Informational	Alarm	1.3.6.1.4.1.25506.8.25.0.13 (hh3cAggMemberCoutExceedRecovery)	ON

Description

This notification is generated when the maximum number of selected ports is exceeded in an aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.7 (hh3cAggUpThreshold)	Maximum number of selected ports.	No	Integer32	Integer32 (1..2147483647)

Recommended action

Check the configured maximum number of selected ports.

hh3cAggMemberCoutExceedRecovery

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.13	The number of selected ports in an aggregation group drops below the maximum number of selected ports.	Informational	-	-	ON

Description

This notification is generated when the number of selected ports in an aggregation group drops below the maximum number of selected ports.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.7 (hh3cAggUpThreshold)	Maximum number of selected ports.	No	Integer32	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cAggMemberNumberChanged

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.14	The number of selected ports changes in an aggregation group.	Informational	Alarm	-	ON

Description

This notification is generated when the number of selected ports changes in an aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.6 (hh3cAggTotalActiveNum)	Number of selected ports.	No	Integer32	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.8.25.4.8 (hh3cAggReasonCode)	Cause of change.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

Check the link status of aggregation member ports.

hh3cAggLacpPartnerExpired

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.15	The LACP timeout timer expires for the peer of an aggregation member port.	Informational	Alarm	-	ON

Description

This notification is generated when the LACP timeout timer expires for the peer of an aggregation member port.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	No	Integer32	1..40960

Recommended action

Check the link status of aggregation member ports.

hh3cAggPortLacpInactive

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.16	An aggregation member port cannot be selected after receiving an LACPDU.	Informational	Alarm	-	ON

Description

This notification is generated when an aggregation member port receives a PDU that prevents it from being selected.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	No	Integer32	Integer32 (1..40960)
1.3.6.1.4.1.25506.8.25.4.3 (hh3cAggOldPduInfo)	Old PDU information.	No	OCTET_STRING	OCTET_STRING (0..512)
1.3.6.1.4.1.25506.8.25.4.4 (hh3cAggNewPduInfo)	New PDU information.	No	OCTET_STRING	OCTET_STRING (0..512)
1.3.6.1.4.1.25506.8.25.4.5 (hh3cAggPduChangeCode)	Changed PDU information.	No	OCTET_STRING	OCTET_STRING (0..255)

Recommended action

Check the link status of aggregation member ports.

hh3cAggPortLacpNegotiateFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.17	Negotiation fails on a member port in a dynamic aggregation group.	Informational	Alarm	1.3.6.1.4.1.25506.8.25.0.17 (hh3cAggPortLacpNegotiateRecovery)	ON

Description

This notification is generated when negotiation fails on a member port in a dynamic aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	No	Integer32	Integer32 (1..40960)

Recommended action

Check the link status of aggregation member ports.

hh3cAggPortLacpNegotiateRecovery

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.25.0.18	Negotiation succeeds on a member port in a dynamic aggregation group.	Informational	Alarm	-	ON

Description

This notification is generated when negotiation succeeds on a member port in a dynamic aggregation group.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.25.4.1 (hh3cAggPortName)	Aggregate interface name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.4.2 (hh3cAggMemberPortName)	Aggregation member port name.	No	OCTET_STRING	OCTET_STRING (0..255)
1.3.6.1.4.1.25506.8.25.1.1.1.1 (hh3cAggLinkNumber)	Aggregation group ID.	No	Integer32	Integer32 (1..40960)

Recommended action

Check the link status of aggregation member ports.

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HH3C-LLDP-EXT-MIB

About this MIB

The Link Layer Discovery Protocol (LLDP) is a Layer 2 industry-standard protocol (IEEE 802.1AB) that allows network devices from different vendors to discover neighbors and exchange system and configuration information.

This MIB defines private MIB objects for the following extended LLDP management features:

- Global LLDP configuration:
 - Global status of LLDP.
 - Global status of CDP compatibility.
- LLDP port configuration:
 - Port-specific packet transmission settings of CDP-compatible LLDP.
 - Protection action taken on ports whose neighbors fail validation.
 - Protection action taken on ports whose neighbors age out.
- LLDP neighbor validation criteria:
 - Chassis ID subtype.
 - Chassis ID.
 - Port ID subtype.
 - Port ID.
- Feature status on LLDP-enabled ports:
 - Neighbor validation status.
 - Neighbor aging status.
- Trapping configuration on LLDP-enabled ports:
 - Trapping for neighbor validation status changes.
 - Trapping for neighbor aging status changes.

MIB file name

hh3c-lldp-ext.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei.h3c(10).h3cCommon(2).h3cLldp(100)

Scalar objects

hh3cLldpAdminStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLldpAdminStatus (1.3.6.1.4.1.25506.2.100.1.1.1)	read-write	TruthValue	true(1) false(2)	Global status of LLDP.	As per the MIB.

Tabular objects

hh3cLldpPortConfigTable

About this table

Use this table to configure LLDP on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cLldpPortConfigPortNum.

The table OID is 1.3.6.1.4.1.25506.2.100.1.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLldpPortConfigPortNum (1.3.6.1.4.1.25506.2.100.1.1.3.1.1)	not-accessible	LldpPortNumber	Standard MIB values.	Port index.	As per the MIB.
hh3cLldpPortConfigCDPComplianceStatus (1.3.6.1.4.1.25506.2.100.1.1.3.1.2)	read-write	INTEGER	txAndRx(1) disabled(2)	Packet transmission capabilities of CDP-compatible LLDP.	As per the MIB.
hh3cLldpPortConfigValidationAction (1.3.6.1.4.1.25506.2.100.1.1.3.1.3)	read-write	Integer32	Standard MIB values.	Neighbor validation status.	As per the MIB.
h3cLldpPortConfigAgingAction (1.3.6.1.4.1.25506.2.100.1.1.3.1.4)	read-write	Integer32	Standard MIB values.	Neighbor aging status.	As per the MIB.

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HH3C-LPBKDT-MIB

About this MIB

The loop detection mechanism performs periodic checking for Layer 2 loops and processes the interfaces with loops as configured.

Use this MIB to perform the following tasks:

- Generate traps when the loop state of an interface changes.
- Configure and view the loop detection state, loop protection action, and loop detection interval for VLANs globally.
- Configure and view the loop detection state, loop protection action, and loop detection interval for VLANs on an interface.

MIB file name

hh3c-lpbkdt.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cDldp2Lpbkdt(95)

Scalar objects

OID of this table is: 1.3.6.1.4.1.25506.2.95.2

hh3cLpbkdtVlanID

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLpbkdtVlanID (1.3.6.1.4.1.25506.2.95.2.1)	accessible-for-notify	INTEGER	1..4094	VLAN ID in reported trap messages when a loop is detected or eliminated on an interface.	As per the MIB.

hh3cLpbkdtVlanEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLpbkdtVlanEnable (1.3.6.1.4.1.25506.2.95.2.2)	read-write	OCTETSTRING	SIZE(1..512)	Enable or disable loop detection for VLANs globally.	As per the MIB.

hh3cLpbkdtAction

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLpbkdtAction (1.3.6.1.4.1.25506.2.95.2.3)	read-write	INTEGER	none (1), block(2), nolearning(3), shutdown(4)	Configure the global loop protection action, which is to take on all ports where	In the current software version, only the log and shutdown operations are

				loops are detected.	supported, and the block and nolearning actions are not supported.
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hh3cLpbkdtAction

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLpbkdtIntervalTime (1.3.6.1.4.1.25506.2.95.2.4)	read-write	Integer32	1..300	Loop detection interval.	As per the MIB.

Tabular objects

hh3cLpbkdtPortTable

OID of this table is: 1.3.6.1.4.1.25506.2.95.2.5

About this table

Use this table to configure loop detection on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cLpbkdtPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cLpbkdtPortIndex (1.3.6.1.4.1.25506.2.95.2.5.1.1)	not-accessible	INTEGER	1..2147483647	Interface index.	As per the MIB.
hh3cLpbkdtPortVlanEnable (1.3.6.1.4.1.25506.2.95.2.5.1.2)	read-write	OCTET STRING	SIZE(1..512)	Enable or disable loop detection for VLANs on a port.	As per the MIB.
Not related. Please archive it. hh3cLpbkdtPortAction (1.3.6.1.4.1.25506.2.95.2.5.1.3)	read-write	INTEGER	none (1), block(2), nolearning(3), shutdown(4)	Configure the loop protection action for a port, which is to take on the port when a loop is detected.	An aggregate interface supports only the log and shutdown actions. The other interfaces support all actions.
hh3cLpbkdtPortLoopbacked (1.3.6.1.4.1.25506.2.95.2.5.1.4)	read-only	TruthValue	true(1), false(2)	Check for a loop on a port.	As per the MIB.

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HH3C-LswMAM-MIB

About this MIB

Use this MIB to configure unicast MAC address entries.

MIB file name

hh3c-splat-mam.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswMAM(3)

Tabular objects

hh3cdot1qTpFdbSetTable

About this table

Use this table to configure unicast MAC address entries.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cdot1qVlanIndex and hh3cdot1qTpFdbSetAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qTpFdbSetAddress (1.3.6.1.4.1.25506.8.35.3.2.1.1)	not-accessible	MacAddress	Standard MIB values.	Unicast MAC address entry.	As per the MIB.
hh3cdot1qTpFdbSetPort (1.3.6.1.4.1.25506.8.35.3.2.1.2)	read-write	Interface Index	Standard MIB values.	Index of the interface corresponding to the MAC address entry.	The object value is 0 when the state of the MAC address entry is blackhole.
hh3cdot1qTpFdbSetStatus (1.3.6.1.4.1.25506.8.35.3.2.1.3)	read-write	INTEGER	other(1), learned(3), static(6), dynamic(7), blackhole(9), security(11)	MAC address entry state.	A MAC address entry configured with the dynamic type will be added to the learned MAC address entry list.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qTpFdbSetOperate (1.3.6.1.4.1.25506.8.35.3.2.1.4)	read-write	INTEGER	add(1), delete(2)	Add or delete a MAC address entry.	The object can only be written.

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HH3C-LswMSTP-MIB

About this MIB

Spanning tree protocols eliminate loops by selectively blocking ports to prune the loop structure into a loop-free tree structure.

This MIB defines private MIB objects for MSTP.

MIB file name

hh3c-splat-mstp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).lanSw(23).lswCommon(1).hwdot1sMstp(14)

Scalar objects

hh3cdot1sStpStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sStpStatus (1.3.6.1.4.1.25506.8.35.14.1)	read-write	EnabledStatus	enabled(1) disabled(2)	MSTP status.	As per the MIB.

hh3cdot1sStpForceVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sStpForceVersion (1.3.6.1.4.1.25506.8.35.14.2)	read-write	INTEGER	stp(0) rstp(2) mstp(3)	Spanning tree mode.	Same as MIB definition. The value for PVST is 2.

hh3cdot1sStpDiameter

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sStpDiameter (1.3.6.1.4.1.25506.8.35.14.3)	read-write	INTEGER	2..7	Network diameter.	This object is related to the dot1dStpHelloTime, dot1dStpMaxAge, and dot1dStpForward Delay objects defined in IEEE 802.1d. Modification to the hh3cdot1sStpDiameter object will change the values

Object (OID)	Access	Syntax	Value range	Description	Implementation
					of those objects. Modification to any of the dot1dStpHelloTime, dot1dStpMaxAge, and dot1dStpForward Delay objects will invalidate the value of the hh3cdot1sStpDiameter object.

hh3cdot1sMstBridgeMaxHops

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstBridgeMaxHops (1.3.6.1.4.1.25506.8.35.14.4)	read-write	INTEGER	1..40	Maximum hops of an MST region.	As per the MIB.

hh3cdot1sMstMasterBridgeID

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstMasterBridgeID (1.3.6.1.4.1.25506.8.35.14.5)	read-only	BridgeId	OCTET STRING (8)	Root bridge in an MSTP region.	As per the MIB.

hh3cdot1sMstMasterPathCost

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstMasterPathCost (1.3.6.1.4.1.25506.8.35.14.6)	read-only	INTEGER	Standard MIB values.	Cost of the path to the root bridge.	As per the MIB.

hh3cdot1sMstBpduGuard

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstBpduGuard (1.3.6.1.4.1.25506.8.35.14.7)	read-write	EnabledStatus	enabled(1) disabled(2)	BPDU guard.	As per the MIB.

hh3cdot1sMstAdminFormatSelector

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstAdminFormatSelector (1.3.6.1.4.1.25506.8.35.14.8)	read-write	INTEGER	0.	Bridge selection factor.	This object is configurable, and you can set it only to 0.

hh3cdot1sMstAdminRegionName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstAdminRegionName (1.3.6.1.4.1.25506.8.35.14.9)	read-write	OCTET STRING	SIZE (1..32)	MST region name.	As per the MIB.

hh3cdot1sMstAdminRevisionLevel

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstAdminRevisionLevel (1.3.6.1.4.1.25506.8.35.14.10)	read-write	INTEGER	0..65535	MSTP revision level.	As per the MIB.

hh3cdot1sMstOperFormatSelector

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstOperFormatSelector (1.3.6.1.4.1.25506.8.35.14.11)	read-only	INTEGER	Standard MIB values.	Effective selection factor of an MSTP region.	As per the MIB.

hh3cdot1sMstOperRegionName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstOperRegionName (1.3.6.1.4.1.25506.8.35.14.12)	read-only	OCTET STRING	SIZE (0..32)	Effective MST region name.	As per the MIB.

hh3cdot1sMstOperRevisionLevel

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstOperRevisionLevel (1.3.6.1.4.1.25506.8.35.14.13)	read-only	INTEGER	0..65535	Effective MSTP revision level.	As per the MIB.

hh3cdot1sMstOperConfigDigest

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstOperConfigDigest (1.3.6.1.4.1.25506.8.35.14.14)	read-only	OCTET STRING	SIZE (0..16)	Effective configuration digest of an MST region.	As per the MIB.

hh3cdot1sMstRegionConfActive

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstRegionConfActive (1.3.6.1.4.1.25506.8.35.14.15)	read-write	INTEGER	enable(1) disable(2)	Activate MST region configuration.	Default: Enabled. If you set the value to disable, MST region configuration is read-only and does not take effect.

hh3cdot1sMstDefaultVlanAllo

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstDefaultVlanAllo (1.3.6.1.4.1.25506.8.35.14.16)	read-write	INTEGER	enable(1) unused(65535)	Default VLAN-to-instance mappings in an MST region.	As per the MIB.

hh3cdot1sMstDefaultRegionName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstDefaultRegionName (1.3.6.1.4.1.25506.8.35.14.17)	read-write	INTEGER	enable(1) unused(65535)	Default MST region name.	As per the MIB.

hh3cdot1sStpPathCostStandard

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sStpPathCostStandard (1.3.6.1.4.1.25506.8.35.14.21)	read-write	INTEGER	legacy(0) dot1d-1998(1) dot1t(2)	Standard for calculating the default path costs.	<ul style="list-style-type: none"> legacy—Private standard. dot1d-1998—IEEE 802.1d-1998. dot1t—IEEE 802.1t.

Tabular objects

hh3cdot1sVIDAllocationTable

About this table

Use this table to configure MSTP VLAN settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cdot1sMstVID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstVID (1.3.6.1.4.1.25506 .8.35.14.18.1.1)	read-only	INTEGER	1..4094	VLAN ID	As per the MIB.
hh3cdot1sAdmin MstID (1.3.6.1.4.1.25506 .8.35.14.18.1.2)	read-write	INTEGER	0..4094	Configured MST region mapping.	As per the MIB.
hh3cdot1sOperMs tID (1.3.6.1.4.1.25506 .8.35.14.18.1.3)	read-only	INTEGER	0..4094	Effective MST region mapping.	As per the MIB.

hh3cdot1sInstanceTable

About this table

Use this table to configure MST region settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cdot1sInstanceID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sInstanc eID (1.3.6.1.4.1.25506 .8.35.14.19.1.1)	read-only	INTEGER	0..4094	Instance ID.	As per the MIB.
hh3cdot1sMstiBrid geID (1.3.6.1.4.1.25506	read-only	BridgeID	OCTET STRING (8)	Bridge ID.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.8.35.14.19.1.2)					
hh3cdot1sMstiBridgePriority (1.3.6.1.4.1.25506.8.35.14.19.1.3)	read-write	INTEGER	0..61440	Bridge priority.	As per the MIB.
hh3cdot1sMstiDesignedRoot (1.3.6.1.4.1.25506.8.35.14.19.1.4)	read-only	BridgeId	OCTET STRING (8)	Root bridge.	As per the MIB.
hh3cdot1sMstiRootPathCost (1.3.6.1.4.1.25506.8.35.14.19.1.5)	read-only	INTEGER	Standard MIB values.	Path cost from the MSTI to the root bridge.	As per the MIB.
hh3cdot1sMstiRootPort (1.3.6.1.4.1.25506.8.35.14.19.1.6)	read-only	INTEGER	Standard MIB values.	Root port.	As per the MIB.
hh3cdot1sMstiRootType (1.3.6.1.4.1.25506.8.35.14.19.1.7)	read-write	INTEGER	normal(0) secondary(1) primary(2)	Root bridge type.	As per the MIB.
hh3cdot1sMstiRemainingHops (1.3.6.1.4.1.25506.8.35.14.19.1.8)	read-only	INTEGER	Standard MIB values.	Remaining hops.	As per the MIB.
hh3cdot1sMstiAdminMappedVlanListLow (1.3.6.1.4.1.25506.8.35.14.19.1.9)	read-only	OCTET STRING	SIZE (0..256)	Lower part of the VLAN ID list mapped to the instance.	As per the MIB.
hh3cdot1sMstiAdminMappedVlanListHigh (1.3.6.1.4.1.25506.8.35.14.19.1.10)	read-only	OCTET STRING	SIZE (0..256)	Higher part of the VLAN ID list mapped to the instance.	As per the MIB.
hh3cdot1sMstiOperMappedVlanListLow (1.3.6.1.4.1.25506.8.35.14.19.1.11)	read-only	OCTET STRING	SIZE (0..256)	Lower part of the effective VLAN ID list.	As per the MIB.
hh3cdot1sMstiOperMappedVlanListHigh (1.3.6.1.4.1.25506.8.35.14.19.1.12)	read-only	OCTET STRING	SIZE (0..256)	Higher part of the effective VLAN ID list.	As per the MIB.

hh3cdot1sPortTable

About this table

Use this table to configure MSTP on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cdot1sInstanceID and hh3cdot1sMstiPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstiPortIndex (1.3.6.1.4.1.25506.8.35.14.20.1.1)	read-only	INTEGER	(0..65535)	Port index.	As per the MIB.
hh3cdot1sMstiState (1.3.6.1.4.1.25506.8.35.14.20.1.2)	read-only	INTEGER	disabled(1) discarding(2) learning(4) forwarding(5)	Port status.	Does not support disabled.
hh3cdot1sMstiPortPriority (1.3.6.1.4.1.25506.8.35.14.20.1.3)	read-write	INTEGER	0..240	Port priority.	As per the MIB.
hh3cdot1sMstiPathCost (1.3.6.1.4.1.25506.8.35.14.20.1.4)	read-write	INTEGER	1..200000000	Port path cost.	As per the MIB.
hh3cdot1sMstiDesignatedRoot (1.3.6.1.4.1.25506.8.35.14.20.1.5)	read-only	Bridgeld	OCTET STRING (8)	Root bridge.	As per the MIB.
hh3cdot1sMstiDesignatedCost (1.3.6.1.4.1.25506.8.35.14.20.1.6)	read-only	INTEGER	Standard MIB values.	Path cost of the designated port.	As per the MIB.
hh3cdot1sMstiDesignatedBridge (1.3.6.1.4.1.25506.8.35.14.20.1.7)	read-only	Bridgeld	OCTET STRING (8)	Designated bridge.	As per the MIB.
hh3cdot1sMstiDesignatedPort (1.3.6.1.4.1.25506.8.35.14.20.1.8)	read-only	OCTET STRING	SIZE (2)	Designated port.	As per the MIB.
hh3cdot1sMstiMasterBridgeID (1.3.6.1.4.1.25506.8.35.14.20.1.9)	read-only	Bridgeld	OCTET STRING (8)	Master bridge.	As per the MIB.
hh3cdot1sMstiMasterPortCost (1.3.6.1.4.1.25506.8.35.14.20.1.10)	read-only	INTEGER	Standard MIB values.	Path cost to the master bridge.	As per the MIB.
hh3cdot1sMstiStpPortEdgeport (1.3.6.1.4.1.25506.8.35.14.20.1.11)	read-write	EnabledStatus	enabled(1) disabled(2)	Whether the port is an edge port.	As per the MIB.
hh3cdot1sMstiStp	read-write	INTEGER	forceTrue(1)	Whether to set	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
PortPointToPoint (1.3.6.1.4.1.25506 .8.35.14.20.1.12)			forceFalse(2) auto(3)	the port link type to point-to-point.	
hh3cdot1sMstiStp Mcheck (1.3.6.1.4.1.25506 .8.35.14.20.1.13)	read-write	INTEGER	enable(1) unused(65535)	Perform mCheck.	As per the MIB.
hh3cdot1sMstiStp TransLimit (1.3.6.1.4.1.25506 .8.35.14.20.1.14)	read-write	INTEGER	1..255	BPDU transmission rate.	Default: 10.
hh3cdot1sMstiStp RXStpBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.15)	read-only	Counter32	Standard MIB values.	Incoming BPDU count.	As per the MIB.
hh3cdot1sMstiStp TXStpBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.16)	read-only	Counter32	Standard MIB values.	Outgoing BPDU count.	As per the MIB.
hh3cdot1sMstiStp RXTCNBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.17)	read-only	Counter32	Standard MIB values.	Incoming TCN BPDU count.	As per the MIB.
hh3cdot1sMstiStp TXTCNBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.18)	read-only	Counter32	Standard MIB values.	Outgoing TCN BPDU count.	As per the MIB.
hh3cdot1sMstiStp RXRSTPBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.19)	read-only	Counter32	Standard MIB values.	Incoming RSTP BPDU count.	As per the MIB.
hh3cdot1sMstiStp TXRSTPBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.20)	read-only	Counter32	Standard MIB values.	Outgoing RSTP BPDU count.	As per the MIB.
hh3cdot1sMstiStp RXMSTPBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.21)	read-only	Counter32	Standard MIB values.	Incoming MSTP BPDU count.	As per the MIB.
hh3cdot1sMstiStp TXMSTPBPDU (1.3.6.1.4.1.25506 .8.35.14.20.1.22)	read-only	Counter32	Standard MIB values.	Outgoing MSTP BPDU count.	As per the MIB.
hh3cdot1sMstiStp ClearStatistics (1.3.6.1.4.1.25506 .8.35.14.20.1.23)	read-write	INTEGER	clear(1) unused(65535)	Clear packet statistics.	As per the MIB.
hh3cdot1sMstiStp DefaultPortCost (1.3.6.1.4.1.25506 .8.35.14.20.1.24)	read-write	INTEGER	enable(1) unused(65535)	Default port path cost.	As per the MIB.
hh3cdot1sMstiStp Status (1.3.6.1.4.1.25506 .8.35.14.20.1.25)	read-write	EnabledStatus	enabled(1) disabled(2)	Spanning tree feature status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1sMstiPortRootGuard (1.3.6.1.4.1.25506.8.35.14.20.1.26)	read-write	EnabledStatus	enabled(1) disabled(2)	Root guard status.	As per the MIB.
hh3cdot1sMstiPortLoopGuard (1.3.6.1.4.1.25506.8.35.14.20.1.27)	read-write	EnabledStatus	enabled(1) disabled(2)	Loop guard status.	As per the MIB.
hh3cdot1sMstiStpPortSendingBPDUType (1.3.6.1.4.1.25506.8.35.14.20.1.28)	read-only	INTEGER	stp(1) rstp(2) mstp(3)	BPDU type.	As per the MIB.
hh3cdot1sMstiStpOperPortPointToPoint (1.3.6.1.4.1.25506.8.35.14.20.1.29)	read-only	TruthValue	true(1) false(2)	Whether the port link type is point-to-point.	As per the MIB.
hh3cdot1sMstiStpPortAdminBPDUFormat (1.3.6.1.4.1.25506.8.35.14.20.1.30)	read-write	Hh3cdot1sFormatStatus	legacy(1) dot1s(2) auto(3)	Set the mode used by the port to recognize and send MSTP BPDUs.	<ul style="list-style-type: none"> • legacy—The port receives and sends only compatible-format MSTP BPDUs. • dot1s—The port receives and sends only standard-format (802.1s-compliant) MSTP BPDUs. • auto—The port recognizes the MSTP BPDU format automatically and determines the format of MSTP BPDUs to send accordingly. <p>This mode takes effect only on the CIST.</p>
hh3cdot1sMstiStpPortOperBPDUFormat (1.3.6.1.4.1.25506.8.35.14.20.1.31)	read-only	Hh3cdot1sFormatStatus	legacy(1) dot1s(2) auto(3)	Read the mode used by the port to send MSTP BPDUs.	<ul style="list-style-type: none"> • legacy—The port sends only compatible-format MSTP BPDUs. • dot1s—The port sends only standard-format (802.1s-compliant) MSTP BPDUs. • auto—The port recognizes the MSTP BPDU format automatically and determines the format of MSTP BPDUs to send accordingly. <p>This mode takes effect only on the CIST.</p>
hh3cdot1sMstiStp	read-write	EnabledStatus	enabled(1)	Port role	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
PortRoleRestriction(1.3.6.1.4.1.25506.8.35.14.20.1.32)			disabled(2)	restriction status.	
hh3cdot1sMstiStpPortTcRestriction(1.3.6.1.4.1.25506.8.35.14.20.1.33)	read-write	EnabledStatus	enabled(1) disabled(2)	TC-BPDU transmission restriction status.	As per the MIB.
hh3cdot1sMstiStpPortDisputed(1.3.6.1.4.1.25506.8.35.14.20.1.34)	read-only	TruthValue	true(1) false(2)	Dispute guard status.	As per the MIB.

Notifications

hh3cPortMstiStateForwarding

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.1	A port transits to the forwarding state.	Informational	-	-	OFF

Description

This notification is generated when a port transits to the forwarding state.

Status control

ON

CLI: Use the `stp port-log` command.

OFF

CLI: Use the `undo stp port-log` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceId)	Instance ID.	Yes	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiPortIndex)	Port index.	Yes	INTEGER	1..65535

Recommended action

Check for link failures after the network topology becomes stable.

hh3cPortMstiStateDiscarding

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.2	A port transits to the discarding state.	Informational	-	-	OFF

Description

This notification is generated when a port transits to the discarding state.

Status control

ON

CLI: Use the `stp port-log` command.

OFF

CLI: Use the `undo stp port-log` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceId)	Instance ID.	Yes	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiPortIndex)	Port index.	Yes	INTEGER	1..65535

Recommended action

Check for link failures after the network topology becomes stable.

hh3cBridgeLostRootPrimary

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.3	The device loses its root bridge role after another device is elected as root bridge.	Informational	-	-	ON

This table does not contain indexes. For information about the index or indexes of a MIB object instance, see the section for that MIB object.

Description

This notification is generated when the device loses its root bridge role after another device is elected as root bridge.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	No	INTEGER	0..4094

Recommended action

- Verify the bridge priorities of the devices.
- Check for possible attacks from other devices.

hh3cPortMstiRootGuarded

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.4	A root guard-enabled port receives a configuration BPDU with a higher priority.	Informational	-	-	OFF

Description

This notification is generated when a root guard-enabled port receives a configuration BPDU with a higher priority.

Status control

ON

CLI: Use the `stp root-protection` command.

MIB: Set hh3cdot1sMstiPortRootGuard to true(1).

OFF

MIB: Set hh3cdot1sMstiPortRootGuard to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	Yes	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiPortIndex)	Port index.	Yes	INTEGER	1..65535

Recommended action

- Verify the bridge priorities of the devices.
- Check for possible attacks from other devices.

hh3cPortMstiBpduGuarded

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.5	A BPDU guard-enabled edge port receives configuration BPDUs.	Informational	-	-	OFF

Description

This notification is generated when a BPDU guard-enabled edge port receives configuration BPDUs.

Status control

ON

CLI: Use the `stp bpdu-protection` command.

MIB: Set hh3cdot1sMstBpduGuard to true(1).

OFF

MIB: Set hh3cdot1sMstBpduGuard to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.17.2.15.1.1 (dot1dStpPort)	Port index.	Yes	INTEGER	1..65535

Recommended action

- Verify that the downstream device is an endpoint device.
- Check for possible attacks from other devices.

hh3cPortMstiLoopGuarded

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.6	An alternate port or root port does not receive a BPDU	Informational	-	-	OFF

	upon BPDU reception timeout.				
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Description

This notification is generated when an alternate port or root port does not receive a BPDU upon BPDU reception timeout.

Status control

ON

CLI: Use the `stp loop-protection` command.

MIB: Set hh3cdot1sMstiPortLoopGuard to true(1).

OFF

MIB: Set hh3cdot1sMstiPortLoopGuard to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceId)	Instance ID.	Yes	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiPortIndex)	Port index.	Yes	INTEGER	1..65535

Recommended action

- Verify that the spanning tree status of the upstream device is correct.
- Check for possible attacks from other devices.

hh3cMstiNewRoot

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.7	A new root bridge is elected.	Informational	-	-	OFF

Description

This notification is generated when a new root bridge is elected in the network.

Status control

ON

CLI: Use the `snmp trap enable stp new-root` command.

OFF

CLI: Use the `undo snmp trap enable stp new-root` command.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	Yes	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiDesignedRoot)	Root bridge information.	No	Bridgeld	
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiDesignedRoot)	Root bridge information.	No	Bridgeld	

Recommended action

- Verify the bridge priorities of the devices.
- Check for possible attacks from other devices.

hh3cMstiTopologyChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.9	The network topology changes after the spanning tree state of ports changes.	Informational	-	-	ON

This table does not contain indexes. For information about the index or indexes of a MIB object instance, see the section for that MIB object.

Description

This notification is generated when the spanning tree state changes of ports cause network topology changes.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	No	INTEGER	0..4094

Recommended action

Check the spanning tree state of ports.

hh3cPortMstiLostEdge

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.10	An edge port receives BPDUs.	Informational	Warning	-	ON

This table does not contain indexes. For information about the index or indexes of a MIB object instance, see the section for that MIB object.

Description

This notification is generated when an edge port receives BPDUs and becomes a non-edge port.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.20.1.1 (hh3cdot1sMstiPortIndex)	Port number.	Yes	INTEGER	1..65535
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface name.	Yes	OCTET STRING	OCTET STRING(0..255)

Recommended action

Verify that the peer network attached to the edge port has changed.

hh3cMstiTcGuarded

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.11	The number of TC-BPDUs received by the device exceeds the upper threshold.	Informational	Warning	-	ON

Description

This notification is generated when the number of TC-BPDUs received by the device exceeds the upper threshold.

Status control

ON

CLI: Use the `stp tc-protection` command.

OFF

CLI: Use the **undo stp tc-protection** command.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	Yes	INTEGER	0..4094

hh3cMstiProTcGuarded

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.35.14.0.12	The number of TC-BPDUs received by the device exceeds the upper threshold.	Informational	Warning	-	ON

Description

This notification is generated when the number of TC-BPDUs received by the device exceeds the upper threshold.

Status control

ON

CLI: Use the **stp tc-protection** command.

OFF

CLI: Use the **undo stp tc-protection** command.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.35.14.19.1.1 (hh3cdot1sInstanceID)	Instance ID.	No	INTEGER	0..4094
1.3.6.1.4.1.25506.8.35.14.22.1 (hh3cMstiTcGuardVal)	Upper threshold	No	Integer32	Integer32 (1..255)

Recommended action

Check the STP function of upstream devices and identify whether attacks occur on other devices in the network.

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HH3C-LswVLAN-MIB

About this MIB

Use this MIB to configure basic VLAN settings and obtain basic VLAN information.

MIB file name

hh3c-splat-vlan.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswVlan(2)

Scalar objects

hh3cVLANMibGarpLeaveAllTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibGarpLeaveAllTime (1.3.6.1.4.1.25506.8.35.2.2.14)	read-write	Time-Interval	Standard MIB values.	GARP timer, in centiseconds.	Not supported

hh3cVLANMibSwitchGMRPRXPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchGMRPRXPkt (1.3.6.1.4.1.25506.8.35.2.2.15.1.1)	read-only	COUNTER32	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibSwitchGVRPRXPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchGVRPRXPkt (1.3.6.1.4.1.25506.8.35.2.2.15.1.2)	read-only	COUNTER32	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibSwitchGMRPTXPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchGMRPTXPkt (1.3.6.1.4.1.25506.8.35.2.2.15.1.3)	read-only	COUNTER32	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibSwitchGVRPTXPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchGVRPTXPkt (1.3.6.1.4.1.25506.8.35.2.2.15.1.4)	read-only	COUNTER32	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibSwitchDiscardedPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchDiscardedPkt (1.3.6.1.4.1.25506.8.35.2.2.15.1.5)	read-only	COUNTER32	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibSwitchGarpStatClear

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibSwitchGarpStatClear (1.3.6.1.4.1.25506.8.35.2.2.15.1.6)	read-write	INTEGER	Standard MIB values.	Traffic switch.	Not supported

hh3cVLANMibHoldTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVLANMibHoldTime (1.3.6.1.4.1.25506.8.35.2.2.16.1.1)	read-write	INTEGER	INTEGER (10..32765)	Interface holdtime.	Not supported

Tabular objects

hh3cdot1qVlanMIBTable

About this table

Use this table to manage and monitor VLANs, create and delete VLANs, and configure and obtain the proprietary VLAN data.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cdot1qVlanIndex, which specifies a VLAN ID. Use this table to create and delete VLANs, configure VLAN attributes, and obtain VLAN data.

The leaf objects in the table include configuration objects and query objects. The configuration objects can be written and read, and the query objects can only be read.

The following objects are configuration objects, and the other objects are query objects:

- hh3cdot1qVlanName
- hh3cdot1qVlanPorts
- hh3cdot1qVlanType
- hh3cdot1qVlanPriority
- hh3cdot1qVlanRowStatus
- hh3cdot1qVlanBroadcastSuppression
- hh3cdot1qVlanBcastSuppressionPPS
- hh3cdot1qVlanMulticast (not supported)
- hh3cdot1qVlanStatisticStatus
- hh3cdot1qVlanStatisticClear

hh3cdot1qVlanMIBTable configuration guidelines:

This table supports creating a row, namely, creating a VLAN. When creating a row, as a best practice, first traverse through the table, and use a VLAN ID that does not exist in the table. Available values are active(1), createAndGo(4), and destroy(6). This table involves the following two types of operation:

- hh3cdot1qVlanRowStatus (createAndGo(4)): Create a VLAN and configure the following attribute objects:

- hh3cdot1qVlanName
- hh3cdot1qVlanPorts
- hh3cdot1qVlanType
- hh3cdot1qVlanPriority
- hh3cdot1qVlanBroadcastSuppression
- hh3cdot1qVlanBcastSuppressionPPS
- hh3cdot1qVlanMulticast (Not support)

First check the input string for hh3cdot1qVlanName. Continue to create the VLAN after the check passes. After the VLAN is successfully created, configure the leaf objects listed above. The operation will fail if the configuration of any leaf object has errors. For example:

- hh3cdot1qVlanPorts: This object can only add an access port to or remove an access port from a VLAN. If a configured port is not an access port, the configuration for this object fails.
- hh3cdot1qVlanType: The MIB does not support sub-vlan(3). When the hh3cdot1qVlanRowStatus(createAndGo(4)) and hh3cdot1qVlanType(sub-vlan(3)) are executed in pairs, the operation fails.

As a best practice to avoid such errors, use the hh3cdot1qVlanRowStatus(createAndGo(4)) to create a VLAN and configure the other attribute objects separately.

- When a VLAN already exists, configure the following attribute objects:

- hh3cdot1qVlanName Enter a string of up to 32 bytes.
- hh3cdot1qVlanPorts First obtain the local object data, and then modify the bit corresponding to the interface in the data. Use the modified value as the configured value.
- hh3cdot1qVlanType This MIB does not support the sub-vlan(3) or secondary-vlan(5) type.
- hh3cdot1qVlanPriority
- hh3cdot1qVlanBroadcastSuppression
- hh3cdot1qVlanBcastSuppressionPPS
- hh3cdot1qVlanMulticast (not supported)

Configuration examples

- Configuration success: Use a VLAN ID that does not exist as an index, input **viantest** for the hh3cdot1qVlanName object, and operate the row state object hh3cdot1qVlanRowStatus(createAndGo(4)) to create a VLAN. This operation successfully creates a VLAN and specifies a name for the VLAN.
- Configuration failure: A trunk interface cannot be assigned to a VLAN. Use the hh3cdot1qVlanPorts object to specify the trunk ports, and operate the row state object hh3cdot1qVlanRowStatus(createAndGo(4)) to create a VLAN. This operation fails.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qVlanIndex (1.3.6.1.4.1.25506.8.35.2.1.1.1.1)	read-only	Hh3cVlanIndex	Integer32 (0..2147483647)	VLAN index.	As per the MIB.
hh3cdot1qVlanName (1.3.6.1.4.1.25506.8.35.2.1.1.1.2)	read-write	SnmpAdminString	OCTET STRING (0..80)	VLAN name.	If the VLAN name input starts or ends with spaces, the spaces will be automatically trimmed. The string cannot contain only spaces. If you enter an empty string, the default VLAN description is used.
hh3cdot1qVlanPorts (1.3.6.1.4.1.25506.8.35.2.1.1.1.3)	read-write	PortList	OCTET STRING (0..65535)	List of ports in a VLAN.	This object can only assign access ports to and remove access ports from VLANs.
hh3cdot1qVlanType (1.3.6.1.4.1.25506.8.35.2.1.1.1.4)	read-write	Integer	superVlan(1) common-vlan(2) sub-vlan(3) isolate-user-vlan(4) secondary-vlan(5) primaryVlan(6)	VLAN type.	Not supported
hh3cdot1qVlanMacFilter (1.3.6.1.4.1.25506.8.35.2.1.1.1.5)	read-only	TruthValue	true(1), false(2)	MAC VLAN filtering	Not supported. The default false(2) is displayed.
hh3cdot1qVlanMacastUnknownProtocols (1.3.6.1.4.1.25506.8.35.2.1.1.1.6)	read-only	TruthValue	true(1), false(2)	Whether to broadcast packets.	Not supported. The default false(2) is displayed.
hh3cExistInterface (1.3.6.1.4.1.25506.8.35.2.1.1.1.7)	read-only	TruthValue	true(1), false(2)	Whether the VLAN has a VLAN interface.	As per the MIB.
hh3cVlanInterfaceIndex (1.3.6.1.4.1.25506.8.35.2.1.1.1.8)	read-only	Integer	Integer (1..4094)	Index of the VLAN interface.	As per the MIB.
hh3cdot1qVlanMacLearn (1.3.6.1.4.1.25506.8.35.2.1.1.1.9)	read-only	TruthValue	true(1), false(2)	Whether MAC address learning is supported.	Not supported. The default false(2) is displayed.
hh3cdot1qVlanStatus (1.3.6.1.4.1.25506.8.35.2.1.1.1.10)	read-only	Integer	other(1), static(2), dynamic(3)	VLAN state.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qVlanCr eationTime (1.3.6.1.4.1.25506 .8.35.2.1.1.1.11)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time when the VLAN was created.	As per the MIB.
hh3cdot1qVlanPri ority (1.3.6.1.4.1.25506 .8.35.2.1.1.1.12)	read-write	Integer	Integer□ (0..7)	VLAN priority.	Implementation varies by product.
hh3cdot1qVlanRo wStatus (1.3.6.1.4.1.25506 .8.35.2.1.1.1.13)	read-create	Row-Status	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	VLAN row state.	Only the following operations are supported: □ active(1), createAndGo(4), and destroy(6)
hh3cdot1qVlanBro adcastSuppressio n (1.3.6.1.4.1.25506 .8.35.2.1.1.1.14)	read-write	Integer	Integer□ (0..100)	VLAN broadcast suppression.	The object can only be read.
hh3cdot1qVlanBc astSuppressionPP S (1.3.6.1.4.1.25506 .8.35.2.1.1.1.15)	read-write	Integer	Integer□ (0..148800)	VLAN broadcast suppression in pps.	Not supported
hh3cdot1qVlanMu lticast (1.3.6.1.4.1.25506 .8.35.2.1.1.1.16)	read-write	Integer	disable(0), □ enable(1)	Multicast VLAN.	Not supported
hh3cdot1qVlanTa ggedPorts (1.3.6.1.4.1.25506 .8.35.2.1.1.1.17)	read-only	PortList	OCTET STRING (0..65535)	Tagged ports of a VLAN.	As per the MIB.
hh3cdot1qVlanUnt aggedPorts (1.3.6.1.4.1.25506 .8.35.2.1.1.1.18)	read-only	PortList	OCTET STRING (0..65535)	Untagged ports of a VLAN.	As per the MIB.
hh3cdot1qVlanPor tIndexs (1.3.6.1.4.1.25506 .8.35.2.1.1.1.19)	read-write	OCTET STRING	OCTET STRING (0..65535)	Port index list.	As per the MIB.
hh3cdot1qVlanSta tisticStatus (1.3.6.1.4.1.25506 .8.35.2.1.1.1.20)	read-write	TruthValue	true(1), false(2)	VLAN traffic statistics switch.	Implementation varies by product.
hh3cdot1qVlanSta tisticClear (1.3.6.1.4.1.25506 .8.35.2.1.1.1.21)	read-write	Integer	clear(1)	Clear VLAN traffic statistics.	The object can only be written. Implementation varies by product.
hh3cdot1qVlanSta tisticInTotalPkts (1.3.6.1.4.1.25506 .8.35.2.1.1.1.22)	read-only	Counter64	Counter64 (0..184467440737 09551615)	Total number of incoming packets.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qVlanStatisticInTotalBytes (1.3.6.1.4.1.25506.8.35.2.1.1.1.23)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total bytes of incoming packets.	Implementation varies by product.
hh3cdot1qVlanStatisticInPPS (1.3.6.1.4.1.25506.8.35.2.1.1.1.24)	read-only	Counter64	Counter64 (0..18446744073709551615)	Incoming packet rate in pps.	Implementation varies by product.
hh3cdot1qVlanStatisticInBPS (1.3.6.1.4.1.25506.8.35.2.1.1.1.25)	read-only	Counter64	Counter64 (0..18446744073709551615)	Incoming packet rate in Bps.	Implementation varies by product.
hh3cdot1qVlanStatisticOutTotalPkts (1.3.6.1.4.1.25506.8.35.2.1.1.1.26)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outgoing packets.	Implementation varies by product.
hh3cdot1qVlanStatisticOutTotalBytes (1.3.6.1.4.1.25506.8.35.2.1.1.1.27)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total bytes of outgoing packets.	Implementation varies by product.
hh3cdot1qVlanStatisticOutPPS (1.3.6.1.4.1.25506.8.35.2.1.1.1.28)	read-only	Counter64	Counter64 (0..18446744073709551615)	Outgoing packet rate in pps.	Implementation varies by product.
hh3cdot1qVlanStatisticOutBPS (1.3.6.1.4.1.25506.8.35.2.1.1.1.29)	read-only	Counter64	Counter64 (0..18446744073709551615)	Outgoing packet rate in Bps.	Implementation varies by product.

hh3cVlanInterfaceTable

About this table

Use this table to configure and obtain VLAN interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cdot1qVlanID.

You must specify the hh3cdot1qVlanIpAddress and hh3cdot1qVlanIpAddressMask objects in pairs.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVlanInterfaceID (1.3.6.1.4.1.25506.8.35.2.1.2.1.1)	read-only	Integer	Standard MIB values.	Index.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qVlanID (1.3.6.1.4.1.25506.8.35.2.1.2.1.2)	read-only	Hh3cVlanIndex	Integer32 (0..2147483647)	VLAN ID	As per the MIB.
hh3cdot1qVlanIpAddress (1.3.6.1.4.1.25506.8.35.2.1.2.1.3)	read-write	IpAddress	OCTET STRING (0..65535)	IP address.	As per the MIB.
hh3cdot1qVlanIpAddressMask (1.3.6.1.4.1.25506.8.35.2.1.2.1.4)	read-write	IpAddress	OCTET STRING (0..65535)	IP address and its mask.	As per the MIB.
hh3cVlanInterfaceAdminStatus (1.3.6.1.4.1.25506.8.35.2.1.2.1.5)	read-write	Integer	up(1), down(2)	VLAN interface state.	As per the MIB.
hh3cVlanInterfaceFrameType (1.3.6.1.4.1.25506.8.35.2.1.2.1.6)	read-only	Integer	ethernet-ii(1), ethernet-snap(2), ethernet-8022(3), ethernet-8023(4)	Frame type.	As per the MIB.
hh3cInterfaceRowStatus (1.3.6.1.4.1.25506.8.35.2.1.2.1.7)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Interface row state.	Available values are active(1), createAndGo(4), and destroy(6). When the row is created together with configuring other attribute objects, the VLAN interface is first created, and then other attribute objects are configured. <input type="checkbox"/> If an object fails to be configured, this operation fails. <input type="checkbox"/> As a best practice, use the hh3cInterfaceRowStatus (createAndGo(4)) to create a VLAN interface and configure other attribute objects separately. <input type="checkbox"/> When the row state is active, the createAndGo operation succeeds.
hh3cVlanInterfaceIpMethod (1.3.6.1.4.1.25506.8.35.2.1.2.1.8)	read-write	Integer	assigned-ip(1), dhcp-ip(2), bootp-ip(3)	VLAN interface IP address assignment method.	The object can only be read.
hh3cVlanInterfaceIfIndex (1.3.6.1.4.1.25506.8.35.2.1.2.1.9)	read-only	Integer	Standard MIB values.	Index of the VLAN interface.	As per the MIB.

hh3cifIsolateMappingTable

About this table

Use this table to configure the isolate VLAN feature and configure and obtain the isolate VLAN-to-secondary VLAN mappings. Implementation varies by product.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cifIsolatePrimaryVlanID.

You must specify the hh3cifIsolateSecondaryVlanlistLow and hh3cifIsolateSecondaryVlanlistHigh objects in pairs.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifIsolatePrimaryVlanID (1.3.6.1.4.1.25506.8.35.2.1.4.1.1)	read-only	Hh3cVlanIndex	Integer32 (0..2147483647)	Primary VLAN	Implementation varies by product.
hh3cifIsolateSecondaryVlanlistLow (1.3.6.1.4.1.25506.8.35.2.1.4.1.2)	read-write	OCTET STRING	OCTET STRING (0..256)	Low bit in the secondary VLAN bitmap.	Implementation varies by product.
hh3cifIsolateSecondaryVlanlistHigh (1.3.6.1.4.1.25506.8.35.2.1.4.1.3)	read-write	OCTET STRING	OCTET STRING (0..256)	High bit in the secondary VLAN bitmap.	Implementation varies by product.

hh3cVlanInterfaceAddrTable

About this table

Use this table to configure and obtain VLAN interface IP addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cVlanInterfaceIpIndex and hh3cVlanInterfaceIpAddr.

When the hh3cVlanInterfaceIpRowStatus (createAndGo(4)) operation is executed, you must specify the hh3cVlanInterfaceIpAddr and hh3cVlanInterfaceIpMask objects in pairs. When the hh3cVlanInterfaceIpRowStatus (destroy(6)) operation is executed, you must specify the hh3cVlanInterfaceIpAddr and hh3cVlanInterfaceIpType objects in pairs.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVlanInterface IpIfIndex (1.3.6.1.4.1.25506 .8.35.2.1.5.1.1)	read-only	Integer	Standard MIB values.	Index of the VLAN interface.	As per the MIB.
hh3cVlanInterface IpAddr (1.3.6.1.4.1.25506 .8.35.2.1.5.1.2)	read-only	IpAddress	OCTET STRING (4)	VLAN interface IP address.	As per the MIB.
hh3cVlanInterface IpMask (1.3.6.1.4.1.25506 .8.35.2.1.5.1.3)	read-create	IpAddress	OCTET STRING (4)	VLAN Interface IP address mask.	As per the MIB.
hh3cVlanInterface IpType (1.3.6.1.4.1.25506 .8.35.2.1.5.1.4)	read-create	Integer	primary(1), sub(2), cluster(3), vrrp(4)	VLAN interface IP type.	As per the MIB. Available values are primary(1) and sub(2).
hh3cVlanInterface IpRowStatus (1.3.6.1.4.1.25506 .8.35.2.1.5.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Interface IP address row state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cDot1qVlanBatchMIBTable

About this table

Use this table to bulk configure VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cdot1qVlanBatchStartIndex, hh3cdot1qVlanBatchEndIndex, and hh3cdot1qVlanBatchSetOperate.

To bulk create VLANs, set the hh3cdot1qVlanBatchSetOperate object to 1.

For example, to create VLANs 2 through 4, enter the following values for objects:

hh3cdot1qVlanBatchStartIndex 2,

hh3cdot1qVlanBatchEndIndex 4,

hh3cdot1qVlanBatchSetOperate create(1),

hh3cdot1qVlanBatchRowStatus createAndGo(4).

To bulk delete VLANs, set the hh3cdot1qVlanBatchSetOperate object to 2.

For example, to delete VLANs 10 through 20, enter the following values for objects:

hh3cdot1qVlanBatchStartIndex 10,

hh3cdot1qVlanBatchEndIndex 20,

hh3cdot1qVlanBatchSetOperate delete(2),

hh3cdot1qVlanBatchRowStatus createAndGo(4).

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cdot1qVlanBatchOperIndex (1.3.6.1.4.1.25506.8.35.2.1.6.1.1)	read-only	Integer32	Standard MIB values.	Operation index.	Not supported
hh3cdot1qVlanBatchStartIndex (1.3.6.1.4.1.25506.8.35.2.1.6.1.2)	read-write	Hh3cVlanIndex	Integer32 (0..2147483647)	Start VLAN ID.	Not supported
hh3cdot1qVlanBatchEndIndex (1.3.6.1.4.1.25506.8.35.2.1.6.1.3)	read-write	Hh3cVlanIndex	Integer32 (0..2147483647)	End VLAN ID.	Not supported
hh3cdot1qVlanBatchOperStatus (1.3.6.1.4.1.25506.8.35.2.1.6.1.4)	read-only	Integer	Standard MIB values.	Operation state.	Not supported
hh3cdot1qVlanBatchRowStatus (1.3.6.1.4.1.25506.8.35.2.1.6.1.5)	read-create	Row-Status	Standard MIB values.	Row status.	Not supported
hh3cdot1qVlanBatchSetOperate (1.3.6.1.4.1.25506.8.35.2.1.6.1.6)	read-create	Integer	Standard MIB values.	Set the operation type.	Not supported

hh3cifSuperVlanMappingTable

About this table

Use this table to configure the super VLAN feature and configure and obtain the super VLAN-to-sub VLAN mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cifSuperVlanID.

When setting super VLAN, you must specify the hh3cifSubVlanlistLow and hh3cifSubVlanlistHigh objects in pairs.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cifSuperVlanID (1.3.6.1.4.1.25506.8.35.2.1.7.1.1)	read-only	Hh3cVlanIndex	Integer32 (0..2147483647)	Super VLAN index.	Not supported
hh3cifSubVlanlistLow (1.3.6.1.4.1.25506.8.35.2.1.7.1.2)	read-write	OCTET STRING	OCTET STRING (0..256)	Low bit in the sub VLAN bitmap.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
.8.35.2.1.7.1.2)					
hh3cifSubVlanlist High (1.3.6.1.4.1.25506 .8.35.2.1.7.1.3)	read-write	OCTET STRING	OCTET STRING (0..256)	High bit in the sub VLAN bitmap.	Not supported

hh3cPrivateVlanMappingTable

About this table

Use this table to configure the private VLAN feature and configure and obtain the primary VLAN-to-secondary VLAN mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cPrimaryVlanID.

When setting private VLAN, you must specify the hh3cSecondaryVlanlistLow and hh3cSecondaryVlanlistHigh objects in pairs.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPrimaryVlanID (1.3.6.1.4.1.25506 .8.35.2.1.8.1.1)	read-only	Hh3cVlanIndex	Integer32 (0..2147483647)	Primary VLAN index.	As per the MIB.
hh3cSecondaryVlanlistLow (1.3.6.1.4.1.25506 .8.35.2.1.8.1.2)	read-write	OCTET STRING	OCTET STRING (0..256)	Low bit in the secondary VLAN bitmap.	As per the MIB.
hh3cSecondaryVlanlistHigh (1.3.6.1.4.1.25506 .8.35.2.1.8.1.3)	read-write	OCTET STRING	OCTET STRING (0..256)	High bit in the secondary VLAN bitmap.	As per the MIB.

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HH3C-MAC-INFORMATION-MIB

About this MIB

Use this MIB to configure MAC Information.

MIB file name

hh3c-mac-information.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cMACInformation(87)

Scalar objects

hh3cMACInformationEnabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationEnabled (1.3.6.1.4.1.25506.2.87.1.1.1)	read-write	INTEGER	enabled(1) disabled(2)	Status of the MAC Information feature.	As per the MIB.

hh3cMACInformationcSendInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationcSendInterval (1.3.6.1.4.1.25506.2.87.1.1.2)	read-write	Integer32	Integer32 (1..20000)	MAC change notification interval.	As per the MIB.

hh3cMACInformationLearntMACNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationLearntMACNum (1.3.6.1.4.1.25506.2.87.1.1.3)	read-only	Counter32	Standard MIB values.	Total number of the MAC addresses learned since MAC information is enabled.	As per the MIB.

hh3cMACInformationRemovedMACNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationRemovedMACNum (1.3.6.1.4.1.25506.2.87.1.1.4)	read-only	Counter32	Standard MIB values.	Total number of the MAC addresses deleted or aged since MAC information is enabled.	As per the MIB.

hh3cMACInformationTrapSendNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationTrapSendNum (1.3.6.1.4.1.25506.2.87.1.1.5)	read-only	Counter32	Standard MIB values.	Number of sent SNMP notifications.	As per the MIB.

hh3cMACInformationSyslogSendNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationSyslogSendNum (1.3.6.1.4.1.25506.2.87.1.1.6)	read-write	Counter32	Standard MIB values.	Number of sent syslog messages.	As per the MIB.

hh3cMACInformationCacheLen

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationCacheLen (1.3.6.1.4.1.25506.2.87.1.1.7)	read-write	Integer32	Integer32 (0..1000)	MAC Information queue length.	As per the MIB.

hh3cMACInformationWorkMode

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInformationWorkMode (1.3.6.1.4.1.25506.2.87.1.1.8)	read-write	Hh3cMACInfoWorkMode	trap(1) syslog(2)	MAC Information mode	As per the MIB.

hh3cMACInfoTrapVerExt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInfoTrapVerExt (1.3.6.1.4.1.25506.2.87.1.4.2.1)	accessible-for-notify	Integer32	Standard MIB values.	SNMP version.	As per the MIB.

hh3cMACInfoTrapIndexExt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInfoTrapIndexExt (1.3.6.1.4.1.25506.2.87.1.4.2.2)	accessible-for -notify	Integer32	Integer32 (0..4294967295)	Notification index.	As per the MIB.

hh3cMACInfoTrapCountExt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInfoTrapCountExt (1.3.6.1.4.1.25506.2.87.1.4.2.3)	accessible-for -notify	Integer32	Standard MIB values.	Notification count.	As per the MIB.

hh3cMACInfoTrapMsgExt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACInfoTrapMsgExt (1.3.6.1.4.1.25506.2.87.1.4.2.4)	accessible-for -notify	OCTET STRING	OCTET STRING (0..255)	Notification contents.	As per the MIB.

Tabular objects

hh3cMACInfomationIfTable

About this table

Use this table to configure MAC Information on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACLearntEnable (1.3.6.1.4.1.25506.2.87.1.2.1.1.1)	read-write	INTEGER	enabled(1) disabled(2)	MAC learning event reporting.	As per the MIB.
hh3cMACRemovedEnable (1.3.6.1.4.1.25506.2.87.1.2.1.1.2)	read-write	INTEGER	enabled(1) disabled(2)	MAC aging or deletion event reporting.	As per the MIB.

Notifications

This table contains notifications output by HH3C-MAC-INFORMATION-MIB.

hh3cMACInformationChangedTrapExt

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.87.1.4.0.1	MAC changes.	Informational	-	-	ON

Description

This notification is generated when MAC addresses change.

If the number of cached MAC notifications reaches the limit set with hh3cMACInformationCacheLen while the amount of time that has elapsed since last notification transmission is shorter than the interval set with hh3cMACInformationcSendInterval, the device uses a new MAC notification to overwrite the oldest one. If the elapsed time is longer than the interval and at least one cached MAC address has been learned or deleted, the device sends notifications.

Status control

This notification cannot be disabled.

Objects

OID (Object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.87.1.4.2.1 (hh3cMACInfoTrapVerExt)	SNMP version.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.87.1.4.2.2 (hh3cMACInfoTrapIndexExt)	Notification index.	N	Unsigned32	Unsigned32 (1..2147483647)
1.3.6.1.4.1.25506.2.87.1.4.2.3 (hh3cMACInfoTrapCountExt)	Notification count.	N	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.87.1.4.2.4 (hh3cMACInfoTrapMsgExt)	Notification contents.	N	OCTET STRING	OCTET STRING (1..254)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cMACInformationMovedTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.87.1.4.0.2	A MAC address moves.	Informational	-	-	OFF

Description

This notification is generated when a MAC address moves.

After you enable notifications for the MAC address table, the MAC address table module generates notifications for important events and sends the notifications to the SNMP module. You can configure SNMP to output those notifications. When notifications are disabled for the MAC address table, the device sends the generated logs to the information center. To display the logs, configure the log destination and output rules in the information center.

Status control

This notification can be disabled.

Objects

OID (Object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.87.1.4.2.5.0 (hh3cMACInfoTrapMsgMovedAddress)	MAC address.	N	OCTET STRING	Standard MIB values.
1.3.6.1.4.1.25506.2.87.1.4.2.6.0 (hh3cMACInfoTrapMsgMovedVlan)	VLAN ID.	N	Unsigned32	Unsigned32 (1..4094)
1.3.6.1.4.1.25506.2.87.1.4.2.7.0 (hh3cMACInfoTrapMsgMovedFromIf)	Source port for the MAC address move.	N	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.4.1.25506.2.87.1.4.2.8.0 (hh3cMACInfoTrapMsgMovedToIf)	Destination port for the MAC address move.	N	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.4.1.25506.2.87.1.4.2.9.0 (hh3cMACInfoTrapMsgMovedCount)	MAC address move count.	N	Counter32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-MLAG-MIB

About this MIB

Multichassis Link Aggregation Group (M-LAG) virtualizes two physical devices into one system through multichassis link aggregation to provide node redundancy in addition to link redundancy.

HH3C-MLAG-MIB is a private MIB for managing M-LAG from an NMS. This MIB offers following functions: 1. Obtain and modify M-LAG system settings such as the M-LAG system MAC address, priority, and number. 2. Obtain and modify M-LAG keepalive settings. 3. Obtain information about and configure peer-link interfaces and M-LAG interfaces.

MIB file name

hh3c-mlag.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cMLag(176)

Scalar objects

hh3cMLagSystemMac

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagSystemMac (1.3.6.1.4.1.25506.2.176.1.1.1)	read-write	MacAddress	OCTET STRING(6)	M-LAG system MAC address.	Default value: 0-0-0-0-0-0.

hh3cMLagSystemPriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagSystemPriority (1.3.6.1.4.1.25506.2.176.1.1.2)	read-write	Integer32	Integer32 (0..65535)	M-LAG system priority.	You must configure the same M-LAG system priority for the M-LAG member devices in an M-LAG system.

hh3cMLagSystemNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagSystemNumber (1.3.6.1.4.1.25506.2.176.1.1.3)	read-write	Integer32	Integer32 (0..2)	M-LAG system number.	Default value: 0.

hh3cMLagRestoreDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRestoreDelay (1.3.6.1.4.1.25506.2.176.1.1.4)	read-write	Integer32	Integer32 (1..3600)	Data restoration interval.	As per the MIB.

hh3cMLagAutoRecoveryReloadDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagAutoRecoveryReloadDelay (1.3.6.1.4.1.25506.2.176.1.1.5)	read-write	Integer32	Integer32 (0 240..3600)	Reload delay for M-LAG system auto-recovery.	A value of 0 indicates that M-LAG system auto-recovery is disabled.

hh3cMLagRoleLocalRolePriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRoleLocalRolePriority (1.3.6.1.4.1.25506.2.176.1.2.1)	read-write	Integer32	Integer32 (0..65535)	The role priority of the local M-LAG member device.	The smaller the priority value, the higher the priority.

hh3cMLagRolePeerRolePriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRolePeerRolePriority (1.3.6.1.4.1.25506.2.176.1.2.2)	read-only	Integer32	Integer32 (0..65535)	Role priority of the peer M-LAG member device.	The smaller the priority value, the higher the priority.

hh3cMLagRoleLocalBridgeMac

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRoleLocalBridgeMac (1.3.6.1.4.1.25506.2.176.1.2.3)	read-only	MacAddress	OCTET STRING(6)	Bridge MAC address of the local M-LAG member device.	Default value: 0-0-0-0-0-0

hh3cMLagRolePeerBridgeMac

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRolePeerBridgeMac (1.3.6.1.4.1.25506.2.176.1.2.4)	read-only	MacAddress	OCTET STRING(6)	Bridge MAC address of the peer M-LAG member device.	Default value: 0-0-0-0-0-0

hh3cMLagRoleLocalConfiguredRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRoleLocalConfiguredRole (1.3.6.1.4.1.25506.2.176.1.2.5)	read-only	INTEGER	none(0), primary(1), secondary(2)	Specified role for the local M-LAG member device.	As per the MIB.

hh3cMLagRolePeerConfiguredRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRolePeerConfiguredRole (1.3.6.1.4.1.25506.2.176.1.2.6)	read-only	INTEGER	none(0), primary(1), secondary(2)	Specified role for the peer M-LAG member device.	As per the MIB.

hh3cMLagRoleLocalEffectiveRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRoleLocalEffectiveRole (1.3.6.1.4.1.25506.2.176.1.2.7)	read-only	INTEGER	none(0), primary(1), secondary(2)	Effective role for the local M-LAG member device.	As per the MIB.

hh3cMLagRolePeerEffectiveRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRolePeerEffectiveRole (1.3.6.1.4.1.25506.2.176.1.2.8)	read-only	INTEGER	none(0), primary(1), secondary(2)	Effective role for the peer M-LAG member device.	As per the MIB.

hh3cMLagKeepaliveDestIpv4

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveDestIpv4 (1.3.6.1.4.1.25506.2.176.1.3.1)	read-write	InetAddressIPv4	OCTET STRING(4)	Destination IP address of keepalive packets.	Default value: 0.0.0.0.

hh3cMLagKeepaliveSourceIpv4

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveSourceIpv4 (1.3.6.1.4.1.25506.2.176.1.3.2)	read-write	InetAddressIPv4	OCTET STRING(4)	Source IP address of keepalive packets.	Default value: 0.0.0.0. Configured with the destination IP address of keepalive packets.

hh3cMLagKeepaliveDestIpv6

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveDestIpv6 (1.3.6.1.4.1.25506.2.176.1.3.3)	read-write	InetAddressIPv6	OCTET STRING(16)	Destination IPv6 address of keepalive packets.	Default value: 0: 0: : 0: 0.

hh3cMLagKeepaliveSourceIpv6

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveSourceIpv6 (1.3.6.1.4.1.25506.2.176.1.3.4)	read-write	InetAddressIPv6	OCTET STRING(16)	Source IPv6 address of keepalive packets.	Default value: 0.0: : 0.0. Configured with the destination IPv6 address of keepalive packets.

hh3cMLagKeepaliveUdpPort

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveUdpPort (1.3.6.1.4.1.25506.2.176.1.3.5)	read-write	Integer32	Integer32 (1..65535)	Destination UDP port of keepalive packets.	The destination UDP port is also deleted when the keepalive source and destination IP addresses are deleted.

hh3cMLagKeepaliveInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveInterval (1.3.6.1.4.1.25506.2.176.1.3.6)	read-write	Integer32	Integer32 (100..10000)	M-LAG keepalive interval.	As per the MIB.

hh3cMLagKeepaliveTimeout

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveTimeout (1.3.6.1.4.1.25506.2.176.1.3.7)	read-write	Integer32	Integer32 (3..20)	M-LAG keepalive timeout timer.	The local M-LAG keepalive timeout timer must be at least two times the M-LAG keepalive interval of the peer.

hh3cMLagKeepaliveHoldTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveHoldTime (1.3.6.1.4.1.25506.2.176.1.3.8)	read-write	Integer32	Integer32 (3..10)	Keepalive hold timer.	As per the MIB.

hh3cMLagKeepaliveLinkStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepaliveLinkStatus (1.3.6.1.4.1.25506.2.176.1.3.9)	read-only	INTEGER	unknown(1), up(2), down(3)	Keepalive link status.	As per the MIB.

hh3cMLagConsistencyType

Object (OID)	Access	Syntax	Value range	Description	Implementation
1.3.6.1.4.1.25506.2.176.2.1.1 (hh3cMLagConsistencyType)	accessible-for-notify	Integer32	type1(1) type2(2)	Configuration consistency check.	As per the MIB.

hh3cMLagGroupIdForNotify

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagGroupIdForNotify(1.3.6.1.4.1.25506.2.176.2.1.2)	accessible-for-notify	Integer32	Integer32 (1..1024)	M-LAG group ID.	As per the MIB.

hh3cMLagKeepAliveDownReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagKeepAliveDownReason(1.3.6.1.4.1.25506.2.176.2.1.4)	accessible-for-notify	OCTET STRING	OCTET STRING(0..255)	Reason why the keepalive link goes down.	As per the MIB.

hh3cMLagMadDownReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagMadDownReason(1.3.6.1.4.1.25506.2.176.2.1.5)	accessible-for-notify	OCTET STRING	OCTET STRING(0..255)	Reason why the device is placed in M-LAG MAD DOWN state.	As per the MIB.

hh3cMLagOldRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagOldRole(1.3.6.1.4.1.25506.2.176.2.1.6)	accessible-for-notify	INTEGER	none(0), primary(1), secondary(2)	Previous role for the device.	As per the MIB.

hh3cMLagNewRole

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagNewRole(1.3.6.1.4.1.25506.2.176.2.1.7)	accessible-for-notify	INTEGER	none(0), primary(1), secondary(2)	New role for the device.	As per the MIB.

hh3cMLagRoleChangeReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagRoleChangeReason(1.3.6.1.4.1.25506.2.176.2.1.8)	accessible-for-notify	OCTET STRING	OCTET STRING(0..255)	Reason for the device role switching.	As per the MIB.

Tabular objects

hh3cMLagPeerLinkTable

About this table

Use this table to obtain and configure parameters for peer-link interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table index is hh3cMLagPeerLinkNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagPeerLinkNumber(1.3.6.1.4.1.25506.2.176.1.4.1.1.1)	not-accessible	Integer32	Integer32 (1..2)	Peer-link interface number.	The peer-link interface number can only be 1.
hh3cMLagPeerLinkIfIndex(1.3.6.1.4.1.25506.2.176.1.4.1.1.2)	read-write	InterfaceIndex	Integer32 (1..2147483647)	Index of the aggregate interface acting as the peer-link interface.	As per the MIB.
hh3cMLagPeerLinkRowStatus(1.3.6.1.4.1.25506.2.176.1.4.1.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only destroy(6).

hh3cMLagPortTable

About this table

Use this table to configure and obtain parameters for M-LAG interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table index is hh3cMLagGroupId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagGroupId (1.3.6.1.4.1.25506.2.176.1.4.2.1.1)	not-accessible	Integer32	Integer32 (1..1024)	M-LAG group ID.	As per the MIB.
hh3cMLagPortIfIndex (1.3.6.1.4.1.25506.2.176.1.4.2.1.2)	read-write	InterfaceIndex	Integer32 (1..2147483647)	Index of the aggregate interface acting as the M-LAG interface.	As per the MIB.
hh3cMLagPortRowStatus (1.3.6.1.4.1.25506.2.176.1.4.2.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only destroy(6).

hh3cMLagAllPortTable

About this table

Use this table to obtain and configure selected member port information, DRCP state, and the short DRCP timeout timer for peer-link interfaces and M-LAG interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cMLagAllPortIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMLagAllPortIfIndex (1.3.6.1.4.1.25506.2.176.1.4.3.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	Interface index	As per the MIB.
hh3cMLagPortDrpShortPeriod (1.3.6.1.4.1.25506.2.176.1.4.3.1.2)	read-write	TruthValue	true(1), false(2)	Whether the short DRCP timeout timer is enabled.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.176.1.4.3.1.2)					
hh3cMLagPortPortStatus (1.3.6.1.4.1.25506.2.176.1.4.3.1.3)	read-only	INTEGER	up(1), down(2)	Interface status	As per the MIB.
hh3cMLagPortLocalDRCPState (1.3.6.1.4.1.25506.2.176.1.4.3.1.4)	read-only	OCTET STRING	OCTET STRING(1)	DRCP status on the local end.	As per the MIB.
hh3cMLagPortPeerDRCPState (1.3.6.1.4.1.25506.2.176.1.4.3.1.5)	read-only	OCTET STRING	OCTET STRING(1)	DRCP status on the peer end.	As per the MIB.
hh3cMLagPortLocalMemberList (1.3.6.1.4.1.25506.2.176.1.4.3.1.6)	read-only	PortList	OCTET STRING(0..255)	Member list of the local aggregate interface.	As per the MIB.
hh3cMLagPortPeerMemberList (1.3.6.1.4.1.25506.2.176.1.4.3.1.7)	read-only	PortList	OCTET STRING(0..255)	Member list of the peer aggregate interface.	As per the MIB.

Notifications

hh3cMLagGlobalCheckConsistency

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.1	No inconsistency is detected during the global consistency check.	Informational	-	-	OFF

Description

This notification is generated if the consistency check result for global M-LAG settings is consistent.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.1 (hh3cMLagConsistencyType)	Consistency check type.	No	Integer32	type1(1) type2(2)

Recommended action

No action is required.

hh3cMLagGlobalCheckInConsistency

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.2	Inconsistency is detected during the global consistency check.	Informational	-	-	OFF

Description

This notification is generated if the consistency check result for global M-LAG settings is inconsistent.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.1 (hh3cMLagConsistencyType)	Consistency check type.	No	Integer32	type1(1) type2(2)

Recommended action

To resolve the issue: 1. If the global consistency check for the type 1 configuration is inconsistent, use the display m-lag consistency command to view configuration information on the M-LAG member devices, and modify their configuration to ensure consistency.

2. If the global consistency check for the type 2 configuration is inconsistent, modify the configuration on the M-LAG member devices to ensure consistency.

hh3cMLagIfCheckConsistency

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.3	Consistency is detected during the consistency check on M-LAG interfaces.	Informational	-	-	OFF

Description

This notification is generated if the consistency check result for M-LAG interfaces is consistent.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.1 hh3cMLagConsistencyType	Consistency check type.	No	Integer32	type1(1) type2(2)
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)

Recommended action

No action is required.

hh3cMLagIfCheckInConsistency

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.4	Inconsistency is detected during the consistency check on M-LAG interfaces.	Informational	-	-	OFF

Description

This notification is generated if the consistency check result for M-LAG interfaces is inconsistent.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.1 hh3cMLagConsistencyType	Consistency check type.	No	Integer32	type1(1) type2(2)
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)

6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)
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Recommended action

To resolve the issue: 1. If the consistency check on M-LAG interfaces for the type 1 configuration is inconsistent, use the display m-lag consistency command to view configuration information on the M-LAG member devices, and modify their configuration to ensure consistency.

2. If the consistency check on M-LAG interfaces for the type 2 configuration is inconsistent, modify the configuration on the M-LAG member devices to ensure consistency.

hh3cMLagPortGlobalDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.5	M-LAG group goes down.	Informational	-	-	OFF

Description

This notification is generated when all member ports of the M-LAG interfaces in the same M-LAG group become unselected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.2 hh3cMLagGroupIdForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)

Recommended action

To resolve the issue, verify that the M-LAG system settings are configured and consistent, such as the M-LAG system MAC address, priority, and number.

hh3cMLagPortGlobalUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.6	M-LAG group comes up.	Informational	-	-	OFF

Description

This notification is generated when member ports of the M-LAG interfaces in the same M-LAG group become selected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.2 hh3cMLagGroupIdForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)

Recommended action

No action is required.

hh3cMLagPortSelected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.7	A local M-LAG interface has selected member ports.	Informational	-	-	OFF

Description

This notification is generated when member ports of a local M-LAG interface become selected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.2 hh3cMLagGroupIdxForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)

Recommended action

No action is required.

hh3cMLagPortNoSelected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.8	All member ports of a local M-LAG interface become unselected.	Informational	-	-	OFF

Description

This notification is generated when all member ports of a local M-LAG interface become unselected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)
1.3.6.1.4.1.25506.2.176.2.1.2 hh3cMLagGroupIdxForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)
1.3.6.1.4.1.25506.2.176.2.1.3 (hh3cMLagPortNotSelectedReason)	Reason why no selected member port exists for the M-LAG interface.	No	OCTET STRING	OCTET STRING(0..255)

Recommended action

To resolve the issue, check settings on member ports of the aggregation group and the cable connection status.

hh3cMLagPortPeerNoSelected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.9	All member ports of a peer M-LAG interface become unselected.	Informational	-	-	OFF

Description

This notification is generated when all member ports of a peer M-LAG interface become unselected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.9 hh3cMLagGroupIdForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)

Recommended action

To resolve the issue, check settings on member ports of the peer aggregation group and the cable connection status.

hh3cMLagPortPeerSelected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.10	A peer M-LAG interface has selected member ports.	Informational	-	-	OFF

Description

This notification is generated when member ports of a peer M-LAG interface become selected.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.9 hh3cMLagGroupIdxForNotify	M-LAG group ID.	No	Integer32	Integer32 (1..1024)

Recommended action

To resolve the issue, check settings on member ports of the peer aggregation group and the cable connection status.

hh3cMLagPeerLinkUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.11	The peer-link interface comes up.	Informational	-	-	OFF

Description

This notification is generated if DRCPDUs can be sent and received correctly between the M-LAG member devices.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)

Recommended action

No action is required.

hh3cMLagPeerLinkDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.12	The peer-link interface goes down.	Informational	-	-	OFF

Description

This notification is generated when the peer-link interface goes down.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
6.1.4.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
6.1.4.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING(0..255)

Recommended action

- To resolve the issue: 1. Verify that the M-LAG system settings are configured and consistent, such as the M-LAG system MAC address, priority, number, authentication password, and sequence number check.
2. Check the state of Layer 2 aggregate interface configured as the peer-link interface.

hh3cMLagKeepaliveDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.13	The keepalive link goes down.	Informational	-	-	OFF

Description

This notification is generated when the keepalive link goes down.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.4 hh3cMLagKeepAliveDownReason	Reason why the keepalive link goes down.	No	OCTET STRING	OCTET STRING(0..255)

Recommended action

To resolve the issue: 1. Check the device role.

2. Verify that the source and destination IP addresses of keepalive packets are consistent between the M-LAG member devices.

3. Check the state of the Layer 3 link used for keepalive detection.

hh3cMLagKeepaliveUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.14	The keepalive link comes up.	Informational	-	-	OFF

Description

This notification is generated if keepalive packets can be sent and received correctly between the M-LAG member devices.

Status control

This notification cannot be disabled.

Objects

No action is required.

Recommended action

No action is required.

hh3cMLagDeviceMadDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.15	The device is placed in M-LAG MAD DOWN	Informational	-	-	OFF

	state.				
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Description

This notification is generated when service interfaces are shut down by M-LAG MAD.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.5 hh3cMLagMadDownReason	Reason why the device is placed in M-LAG MAD DOWN state.	No	OCTET STRING	OCTET STRING(0..255)

Recommended action

To resolve the issue, check settings on both ends of the peer link.

hh3cMLagDeviceMadRecovery

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.16	The device brings up service interfaces that are placed in M-LAG MAD DOWN state.	Informational	-	-	OFF

Description

This notification is generated when the device brings up service interfaces that are placed in M-LAG MAD DOWN state.

Status control

This notification cannot be disabled.

Objects

No action is required.

Recommended action

No action is required.

hh3cMLagDeviceRoleChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.176.2.0.17	The M-LAG member device role is changed.	Informational	-	-	OFF

Description

This notification is generated when the M-LAG member device role is changed.

Status control

This notification cannot be disabled.

Objects

OID	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.176.2.1.6 hh3cMLagOldRole	Previous role for the device.	No	INTEGER	none(0), primary(1), secondary(2)
1.3.6.1.4.1.25506.2.176.2.1.7 hh3cMLagNewRole	New role for the device.	No	INTEGER	none(0), primary(1), secondary(2)
1.3.6.1.4.1.25506.2.176.2.1.8 hh3cMLagRoleChangeReason	Reason for the device role change.	No	OCTET STRING	OCTET STRING(0..255)

Recommended action

No action is required.

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HH3C-PROTOCOL-VLAN-MIB

About this MIB

Use this MIB to configure protocol-based VLANs, for example, assign packets from a protocol to a VLAN, bind ports to protocol templates, and query protocol-based VLAN data. This MIB is available only on devices that support the protocol-based VLAN feature.

MIB file name

hh3c-protocol-vlan.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cProtocolVlan(16)

Scalar objects

hh3cProtocolNumAllVlan

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cProtocolNumAllVlan (1.3.6.1.4.1.25506.2.16.1.1)	read-only	Integer32	Standard MIB values.	Maximum number of protocols that can be configured for all VLANs.	Implementation varies by product.

hh3cProtocolNumPerVlan

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cProtocolNumPerVlan (1.3.6.1.4.1.25506.2.16.1.2)	read-only	Integer32	Standard MIB values.	Maximum number of protocols that can be configured for a single VLAN.	Implementation varies by product.

Tabular objects

hh3cProtocolVlanTable

About this table

Use this table to configure the protocol-based VLAN feature, associate a VLAN with a protocol, and isolate packets from different protocols at Layer 2 through assigning them to different VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cProtocolVlanVlanId and hh3cProtocolVlanProtocolIndex.

When creating a protocol-based VLAN, the index objects hh3cProtocolVlanVlanId and hh3cProtocolVlanProtocolIndex must be specified together with the following objects: hh3cProtocolVlanProtocolType, hh3cProtocolVlanProtocolSubType, hh3cProtocolVlanProtocolTypeValue, and hh3cProtocolVlanRowStatus. The relationship among them is as follows:

hh3cProtocolVlanProtocolType	hh3cProtocolVlanProtocolSubType	hh3cProtocolVlanProtocolTypeValue
ip	notused	notused (creation)
ipv6	notused	notused (creation)
at	notused	notused (creation)
ipx	ethernetii	notused (creation)
	llc	
	raw	
	snap	
mode-snap	etype	Hexadecimal string, for example, 600 (0x0600). Value range: [0x600..0xffff].
mode-ethernetii	etype	Hexadecimal string, for example, 600 (0x0600). Value range: [0x600..0xffff].
mode-llc	notused	Different parts are in the following order: [dsap value][:ssap value][dsap value;ssap value] The value ranges are both [0x00..0xff]. For example, the dsap is 0x09, and the ssap is 0x0a. If neither dsap nor ssap is specified, the string length is 0. If the dsap is specified, the string is 09; or 09. If the ssap is specified, the string is ;0a. If both dsap and ssap are specified and, the string is 09;0a.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cProtocolVlanVlanId (1.3.6.1.4.1.25506.2.16.1.5.1.1)	not-accessible	Integer32	Standard MIB values.	ID of a protocol-based VLAN.	As per the MIB.
hh3cProtocolVlanProtocolIndex (1.3.6.1.4.1.25506.2.16.1.5.1.2)	not-accessible	Integer32	Integer32 (0..hh3cProtocolNumPerVlan-1)	Protocol template of a protocol-based VLAN.	As per the MIB.
hh3cProtocolVlanProtocolType (1.3.6.1.4.1.25506.2.16.1.5.1.3)	read-create	Hh3cvProtocolVlanProtocolType	Layer 3 protocols: ip(1), ipx(2), at(3), ipv6(4), □ Layer 2 protocols: mode-llc(101), mode-snap(102),	Protocol types specified in the protocol template.	This object cannot be separately modified after the VLAN-to-protocol mapping is configured.

			mode-ethernetii(103), □ □ Protocol no configure: notConfigure(201)		
hh3cProtocolVlanProtocolSubType (1.3.6.1.4.1.25506.2.16.1.5.1.4)	read-create	Hh3cvProtocolVlanProtocolSubType	notused(1), ethernetii(2), llc(3), raw(4), snap(5), etype(6)	Protocol subtypes specified in the protocol template.	This object cannot be separately modified after the VLAN-to-protocol mapping is configured.
hh3cProtocolVlanProtocolTypeValue (1.3.6.1.4.1.25506.2.16.1.5.1.5)	read-create	OCTET STRING	OCTET STRING (0..255)	Protocol type values specified in the protocol template.	This object cannot be separately modified after the VLAN-to-protocol mapping is configured.
hh3cProtocolVlanRowStatus (1.3.6.1.4.1.25506.2.16.1.5.1.6)	read-create	RowStatus	Standard MIB values.	Whether a protocol-based VLAN takes effect on a port.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cProtocolVlanPortTable

About this table

Use this table to bind a port to a protocol-based VLAN template.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cProtocolVlanPortIndex, hh3cProtocolVlanPortVlanId, and hh3cProtocolVlanPortProtocolId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cProtocolVlanPortIndex (1.3.6.1.4.1.25506.2.16.1.6.1.1)	not-accessible	Integer32	Standard MIB values.	Index of a port configured with a protocol-based VLAN.	As per the MIB.
hh3cProtocolVlanPortVlanId (1.3.6.1.4.1.25506.2.16.1.6.1.2)	not-accessible	Integer32	Standard MIB values.	ID of a protocol-based VLAN configured on a port.	As per the MIB.
hh3cProtocolVlanPortProtocolId (1.3.6.1.4.1.25506.2.16.1.6.1.3)	not-accessible	Integer32	Standard MIB values.	Index of a protocol template on a port.	As per the MIB.
hh3cProtocolVlanPortProtocolType (1.3.6.1.4.1.25506)	read-only	Hh3cvProtocolVlanProtocolType	Layer 3 protocols: ip(1), ipx(2), at(3), ipv6(4), □ □	Protocol types specified on a port.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.16.1.6.1.4)			Layer 2 protocols: mode-llc(101), mode-snap(102), mode-ethernetii(103), <input type="checkbox"/> Protocol no configure: notConfigure(201)		
hh3cProtocolVlanPortProtocolSubType (1.3.6.1.4.1.25506.2.16.1.6.1.5)	read-only	Hh3cvProtocolVlanProtocolSubType	notused(1), <input type="checkbox"/> ethernetii(2), <input type="checkbox"/> llc(3), <input type="checkbox"/> raw(4), <input type="checkbox"/> snap(5), <input type="checkbox"/> etype(6)	Protocol subtypes specified on a port.	As per the MIB.
hh3cProtocolVlanPortTypeValue (1.3.6.1.4.1.25506.2.16.1.6.1.6)	read-only	OCTET STRING	Standard MIB values.	Protocol type values specified on a port.	As per the MIB.
hh3cProtocolVlanPortRowStatus (1.3.6.1.4.1.25506.2.16.1.6.1.7)	read-create	RowStatus	Standard MIB values.	Operating state of a protocol-based VLAN associated with a port.	Available values are active(1), createAndGo(4), and destroy(6).
hh3cProtocolVlanPortStatus (1.3.6.1.4.1.25506.2.16.1.6.1.8)	read-only	Integer	active (1), <input type="checkbox"/> inactive (2)	State of a protocol-based VLAN configured on a port.	active(1): The protocol template on the port is associated with a protocol-based VLAN (the hh3cProtocolVlanPortProtocolId object has the corresponding data in the hh3cProtocolVlanTable table), and the port is configured as hybrid port and assigned to the protocol-based VLAN.

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HH3C-QINQV2-MIB

About this MIB

Use this MIB to manage, configure, and obtain 802.1Q in 802.1Q (QinQ) information.

MIB file name

hh3c-qinqv2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cQinQv2(137)

Scalar objects

hh3cQinQv2ServiceTPID

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQinQv2ServiceTPID (1.3.6.1.4.1.25506.2.137.1.1.1)	read-write	Integer32	Integer32 (1..65535)	SVLAN TPID	Implementation varies by product

hh3cQinQv2CustomerTPID

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQinQv2CustomerTPID (1.3.6.1.4.1.25506.2.137.1.1.2)	read-write	Integer32	Integer32 (1..65535)	CVLAN TPID	Implementation varies by product

Tabular objects

hh3cQinQv2IfConfigTable

About this table

Use this table to enable QinQ, set the CVLAN TPID and SVLAN TPID, and configure VLAN transparent transmission on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQinQv2IfState (1.3.6.1.4.1.25506.2.137.1.2.1.1)	read-write	TruthValue	true(1), false(2)	This variable is used to enable or disable QinQ on the port.	Implementation varies by product
hh3cQinQv2IfServiceTPID (1.3.6.1.4.1.25506.2.137.1.2.1.2)	read-write	Integer32	Integer32 (1..65535)	SVLAN TPID on the port.	Implementation varies by product
hh3cQinQv2IfCustomerTPID (1.3.6.1.4.1.25506.2.137.1.2.1.3)	read-write	Integer32	Integer32 (1..65535)	CVLAN TPID on the port.	Implementation varies by product
hh3cQinQv2IfTransparentVlanList (1.3.6.1.4.1.25506.2.137.1.2.1.4)	read-write	OCTET STRING	OCTET STRING (512)	List of transparent VLANs the port.	Implementation varies by product

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HH3C-SUBNET-VLAN-MIB

About this MIB

Use this MIB to manage and obtain information about IP subnet-based VLANs on a device that supports the subnet-based VLAN feature.

MIB file name

hh3c-subnet-vlan.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cSubnetVlan(61)

Scalar objects

hh3cSubnetNumAllVlan

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetNumAllVlan (1.3.6.1.4.1.25506.2.61.1.1.1)	read-only	Integer32	Standard MIB values.	Maximum number of subnets that can be configured for all VLANs.	Implementation varies by product.

hh3cSubnetNumPerVlan

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetNumPerVlan (1.3.6.1.4.1.25506.2.61.1.1.2)	read-only	Integer32	Standard MIB values.	Maximum number of subnets that can be configured for a single VLAN.	Implementation varies by product.

hh3cSubnetNumAllPort

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetNumAllPort (1.3.6.1.4.1.25506.2.61.1.1.3)	read-only	Integer32	Standard MIB values.	Maximum number of subnets that can be configured for all ports.	Implementation varies by product.

hh3cSubnetNumPerPort

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetNumPerPort (1.3.6.1.4.1.25506.2.61.1.1.4)	read-only	Integer32	Standard MIB values.	Maximum number of subnets that can be configured for a single port.	Implementation varies by product.

Tabular objects

hh3cSubnetVlanTable

About this table

Use this table to configure and obtain information about VLAN-to-IP subnet or address mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cSubnetVlanVlanId and hh3cSubnetVlanSubnetIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetVlanVlanId (1.3.6.1.4.1.25506.2.61.1.2.1.1)	not-accessible	Integer32	Standard MIB values.	Subnet-based VLAN ID.	As per the MIB.
hh3cSubnetVlanSubnetIndex (1.3.6.1.4.1.25506.2.61.1.2.1.2)	not-accessible	Integer32	Standard MIB values.	IP subnet index.	As per the MIB.
hh3cSubnetVlanVlanIpAddressType (1.3.6.1.4.1.25506.2.61.1.2.1.3)	read-create	InetAddressType	Standard MIB values.	IP subnet address type.	This object cannot be separately modified after the VLAN-to-IP subnet mapping is configured.
hh3cSubnetVlanIpAddressValue (1.3.6.1.4.1.25506.2.61.1.2.1.4)	read-create	InetAddress	OCTET STRING (0..255)	IP subnet address.	This object cannot be separately modified after the VLAN-to-IP subnet mapping is configured.
hh3cSubnetVlanNetMaskValue (1.3.6.1.4.1.25506.2.61.1.2.1.5)	read-create	InetAddress	OCTET STRING (0..255)	IP subnet mask.	This object cannot be separately modified after the VLAN-to-IP subnet mapping is configured. When no value is specified, the default is 255.255.255.0.
hh3cSubnetVlanRowStatus (1.3.6.1.4.1.25506.2.61.1.2.1.6)	read-create	RowStatus	Standard MIB values.	Subnet-based VLAN row state.	Only the following operations are supported: <input type="checkbox"/> active(1), createAndGo(4), and destroy(6)

hh3cSubnetVlanPortCreateTable

About this table

Use this table to configure and obtain information about port-to-IP subnet-based VLAN mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cSubnetVlanPortCreateIndex and hh3cSubnetVlanPortCreateVlanId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSubnetVlanPortCreateIndex (1.3.6.1.4.1.25506.2.61.1.3.1.1)	not-accessible	Integer32	Standard MIB values.	Port index.	As per the MIB.
hh3cSubnetVlanPortCreateVlanId (1.3.6.1.4.1.25506.2.61.1.3.1.2)	not-accessible	Integer32	Standard MIB values.	ID of an IP subnet-based VLAN created on a port.	As per the MIB.
hh3cSubnetVlanPortInfoVlanId (1.3.6.1.4.1.25506.2.61.1.3.1.3)	read-only	Integer32	Standard MIB values.	ID of an IP subnet-based VLAN on a port.	As per the MIB.
hh3cSubnetVlanPortRowStatus (1.3.6.1.4.1.25506.2.61.1.3.1.4)	read-create	RowStatus	Standard MIB values.	Port's subnet-based VLAN row state.	As per the MIB.
hh3cSubnetVlanPortStatus (1.3.6.1.4.1.25506.2.61.1.3.1.5)	read-only	INTEGER	active (1), inactive (2)	Subnet-based VLAN state on a port.	Active: <input type="checkbox"/> The subnet-based VLAN has been associated with the specified IP address. The hh3cSubnetVlanPortCreateVlanId object has the corresponding data in the hh3cSubnetVlanTable table, the link type of the port is hybrid, and the port is assigned to the VLAN.

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HH3C-VMAP-MIB

About this MIB

Use this MIB to configure VLAN mapping features, for example, one-to-one VLAN mapping, many-to-one VLAN mapping, one-to-two VLAN mapping, two-to-two VLAN mapping, and two-to-one VLAN mapping. VLAN mapping re-marks VLAN traffic with new VLAN IDs. Implementation varies by product.

MIB file name

hh3c-vmap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cVmap(138)

Tabular objects

hh3cVMAPNNITable

About this table

Use this table to configure many-to-one VLAN mapping on the network side.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAPNNITable (1.3.6.1.4.1.25506.2.138.1.1.1)	read-write	TruthValue	true(1), false(2)	Configure VLAN mapping.	Implementation varies by product.

hh3cVMAP1to1Table

About this table

Use this table to configure one-to-one VLAN mapping.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cVMAP1to1Vlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAP1to1Vlan (1.3.6.1.4.1.25506.2.138.2.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Configure one-to-one VLAN mapping.	As per the MIB.
hh3cVMAP1to1TranslatedVlan (1.3.6.1.4.1.25506.2.138.2.1.2)	read-create	Integer32	Integer32 (1..65535)	Translated VLAN for one-to-one VLAN mapping.	Implementation varies by product.
hh3cVMAP1to1RowStatus (1.3.6.1.4.1.25506.2.138.2.1.3)	read-create	RowStatus	Standard MIB values.	One-to-one VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cVMAPNto1RangeTable

About this table

Use this table to configure many-to-one VLAN mapping on the user side. The original VLANs are specified in a list, for example, VLANs 20 through 30.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cVMAPNto1StartVlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAPNto1StartVlan (1.3.6.1.4.1.25506.2.138.3.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Start VLAN of the original VLAN list for many-to-one VLAN mapping.	As per the MIB.
hh3cVMAPNto1EndVlan (1.3.6.1.4.1.25506.2.138.3.1.2)	read-create	Integer32	Integer32 (1..65535)	End VLAN of the original VLAN list for many-to-one VLAN mapping.	Implementation varies by product.
hh3cVMAPNto1RangeTranslatedVlan (1.3.6.1.4.1.25506.2.138.3.1.3)	read-create	Integer32	Integer32 (1..65535)	Translated VLAN for many-to-one VLAN mapping.	Implementation varies by product.
hh3cVMAPNto1RangeRowStatus (1.3.6.1.4.1.25506.2.138.3.1.4)	read-create	RowStatus	Standard MIB values.	Many-to-one VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cVMAPNto1SingleTable

About this table

Use this table to configure many-to-one VLAN mapping on the user side. The original VLANs are single VLANs, for example, VLAN 20 and VLAN 30.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cVMAPNto1Vlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAPNto1Vlan (1.3.6.1.4.1.25506.2.138.4.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Many-to-one VLAN mapping.	As per the MIB.
hh3cVMAPNto1SingleTranslatedVlan (1.3.6.1.4.1.25506.2.138.4.1.2)	read-create	Integer32	Integer32 (1..65535)	Translated VLAN for many-to-one VLAN mapping.	Implementation varies by product.
hh3cVMAPNto1SingleRowStatus (1.3.6.1.4.1.25506.2.138.4.1.3)	read-create	RowStatus	Standard MIB values.	Many-to-one VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cVMAP1to2RangeTable

About this table

Use this table to configure two-to-one VLAN mapping. The original VLANs are specified in a list, for example, VLANs 20 through 30.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cVMAP1to2StartVlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAP1to2StartVlan (1.3.6.1.4.1.25506.2.138.5.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Start VLAN of the original VLAN list for one-to-two VLAN mapping.	As per the MIB.
hh3cVMAP1to2EndVlan	read-create	Integer32	Integer32	End VLAN of the original VLAN list	Implementation

(1.3.6.1.4.1.25506.2.138.5.1.2)			(1..65535)	for one-to-two VLAN mapping.	varies by product.
hh3cVMAP1to2RangeNestedVlan (1.3.6.1.4.1.25506.2.138.5.1.3)	read-create	Integer32	Integer32 (1..65535)	Outer VLAN for one-to-two VLAN mapping.	Implementation varies by product.
hh3cVMAP1to2RangeRowStatus (1.3.6.1.4.1.25506.2.138.5.1.4)	read-create	RowStatus	Standard MIB values.	One-to-two VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).
hh3cVMAP1to2RangeNestedPrio (1.3.6.1.4.1.25506.2.138.5.1.5)	read-create	Integer32	Standard MIB values.	Outer VLAN priority for one-to-two VLAN mapping.	The value range is 0 to 7. If no priority is configured, the default is 65535.

hh3cVMAP1to2SingleTable

About this table

Use this table to configure one-to-two VLAN mapping. The original VLANs are single VLANs, for example, VLAN 20 and VLAN 30.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cVMAP1to2StartVlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAP1to2Vlan (1.3.6.1.4.1.25506.2.138.6.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Configure one-to-two VLAN mapping.	As per the MIB.
hh3cVMAP1to2SingleNestedVlan (1.3.6.1.4.1.25506.2.138.6.1.2)	read-create	Integer32	Integer32 (1..65535)	Single outer VLAN for one-to-two VLAN mapping.	Implementation varies by product.
hh3cVMAP1to2SingleRowStatus (1.3.6.1.4.1.25506.2.138.6.1.3)	read-create	RowStatus	Standard MIB values.	One-to-two VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).
hh3cVMAP1to2SingleNestedPrio (1.3.6.1.4.1.25506.2.138.6.1.4)	read-create	Integer32	Standard MIB values.	Single outer VLAN priority for one-to-two VLAN mapping.	The value range is 0 to 7. If no priority is configured, the default is 65535.

hh3cVMAP2to2Table

About this table

Use this table to configure two-to-two VLAN mapping.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3cVMAP2to2OuterVlan, and hh3cVMAP2to2InnerVlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAP2to2OuterVlan (1.3.6.1.4.1.25506.2.138.7.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Original outer VLAN for two-to-two VLAN mapping.	As per the MIB.
hh3cVMAP2to2InnerVlan (1.3.6.1.4.1.25506.2.138.7.1.2)	not-accessible	Integer32	Integer32 (1..65535)	Original inner VLAN for two-to-two VLAN mapping.	As per the MIB.
hh3cVMAP2to2TranslatedOuterVlan (1.3.6.1.4.1.25506.2.138.7.1.3)	read-create	Integer32	Integer32 (1..65535)	Translated outer VLAN for two-to-two VLAN mapping.	Implementation varies by product.
hh3cVMAP2to2TranslatedInnerVlan (1.3.6.1.4.1.25506.2.138.7.1.4)	read-create	Integer32	Integer32 (1..65535)	Translated inner VLAN for two-to-two VLAN mapping.	Implementation varies by product.
hh3cVMAP2to2RowStatus (1.3.6.1.4.1.25506.2.138.7.1.5)	read-create	RowStatus	Standard MIB values.	Two-to-two VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).

hh3cVMAP2to1Table

About this table

Use this table to configure two-to-one VLAN mapping.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3cVMAP2to1OuterVlan, and hh3cVMAP2to1InnerVlan.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVMAP2to1OuterVlan (1.3.6.1.4.1.25506.2.138.8.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Original outer VLAN for two-to-one VLAN mapping.	As per the MIB.
hh3cVMAP2to1InnerVlan (1.3.6.1.4.1.25506.2.138.8.1.2)	not-accessible	Integer32	Integer32 (1..65535)	Original inner VLAN for two-to-one VLAN mapping.	As per the MIB.
hh3cVMAP2to1TranslatedOuterVlan (1.3.6.1.4.1.25506.2.138.8.1.3)	read-create	Integer32	Integer32 (1..65535)	Translated outer VLAN for two-to-one VLAN mapping.	Implementation varies by product.
hh3cVMAP2to1RowStatus (1.3.6.1.4.1.25506.2.138.8.1.4)	read-create	RowStatus	Standard MIB values.	Two-to-one VLAN mapping row state.	Available values are active(1), createAndGo(4), and destroy(6).

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HH3C-VOICE-VLAN-MIB

About this MIB

Use this MIB to configure voice VLAN. You can assign interfaces connecting to voice devices to a voice VLAN. Then, the system automatically modifies the QoS parameters for the voice packets to improve the priority of voice packets and ensure voice quality. Implementation varies by product.

MIB file name

hh3c-voice-vlan.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cVoiceVlan(9)

Scalar objects

hh3cVoiceVlanAgingTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVoiceVlanAgingTime (1.3.6.1.4.1.25506.2.9.4)	read-write	Integer32	Integer32 (0 5..43200)	Voice VLAN aging time.	As per the MIB.

hh3cVoiceVlanSecurityState

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVoiceVlanSecurityState (1.3.6.1.4.1.25506.2.9.6)	read-write	INTEGER	security (1), normal (2)	Voice VLAN security mode state.	As per the MIB.

Tabular objects

hh3cvoiceVlanOuiTable

About this table

Use this table to configure the OUI addresses that can be recognized by the voice VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cVoiceVlanOuiAddress. When you use the hh3cVoiceVlanOuiRowStatus to create a row, you must specify the hh3cVoiceVlanOuiMask object and can leave the hh3cVoiceVlanOuiDescription object empty.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVoiceVlanOuiAddress (1.3.6.1.4.1.25506.2.9.1.1.1)	read-only	MacAddress	OCTET STRING (6)	OUI address of the voice VLAN.	As per the MIB.
hh3cVoiceVlanOuiMask (1.3.6.1.4.1.25506.2.9.1.1.2)	read-write	MacAddress	OCTET STRING (6)	Mask for the OUI address of the voice VLAN.	This object cannot be specified separately.
hh3cVoiceVlanOuiDescription (1.3.6.1.4.1.25506.2.9.1.1.3)	read-write	OCTET STRING	OCTET STRING (0..30)	Description on the OUI address of the voice VLAN.	The first letter of the description cannot be a space.
hh3cVoiceVlanOuiRowStatus (1.3.6.1.4.1.25506.2.9.1.1.4)	read-create	RowStatus	Standard MIB values.	Row state of the OUI address of the voice VLAN.	As per the MIB.

hh3cvoiceVlanPortTable

About this table

Use this table to configure the voice VLAN features, for example, configure the voice VLAN operating mode, configure an interface to trust the priority of packets in a voice VLAN, and modify the CoS and DSCP values for packets in a voice VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cVoiceVlanPortifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVoiceVlanPortifIndex (1.3.6.1.4.1.25506.2.9.7.1.1)	not-accessible	Integer32	Integer32(1..2147483647)	Index of a port in a voice VLAN.	As per the MIB.
hh3cVoiceVlanPortMode (1.3.6.1.4.1.25506.2.9.7.1.2)	read-write	INTEGER	auto (1), manual (2)	Voice VLAN assignment mode of a port.	As per the MIB.
hh3cVoiceVlanPortLegacy (1.3.6.1.4.1.25506.2.9.7.1.3)	read-write	TruthValue	Standard MIB values.	Voice VLAN configuration legacy status on a port.	Not supported
hh3cVoiceVlanPort	read-write	TruthValue	Standard MIB	QoS settings on a port in a voice	Not supported

tQosTrust (1.3.6.1.4.1.25506 .2.9.7.1.4)			values.	VLAN.	
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IEEE8021-CFM-MIB

About this MIB

Connectivity Fault Management (CFM) is the name of the feature defined in IEEE 802.1ag for end-to-end Operations, Administration and Maintenance (OAM) for Ethernet. In the Comware platform, the feature is called Connectivity Fault Detection (CFD).

CFD is an end-to-end per-VLAN link layer OAM mechanism. CFD is used for link connectivity detection, fault verification, and fault location.

This MIB defines how to implement CFD. Use this MIB to configure CFD on managed devices.

MIB file name

ieee8021-cfm.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbered-series-standards(2).lan-man-stds(802).ieee802dot1(1).ieee802dot1mibs(1).ieee8021CfmMib(8)

Scalar objects

dot1agCfmMdTableNextIndex

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMdTableNextIndex (1.3.111.2.802.1.1.8.1.5.1)	read-only	Dot1afCfmIndexIntegerNextFree	Unsigned32 (1..4294967295)	Value to be used as a new index in the MD table.	As per the MIB.

Tabular objects

dot1agCfmMdTable

About this table

Use this table to obtain the MD information.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none">The dot1agCfmMdIndex index must be configured. The index is provided by the dot1agCfmMdTableNextIndex object.The dot1agCfmMdMdLevel object must be configured.The dot1agCfmMdFormat object is optional. If it is not configured, the default value is charString(4).The dot1agCfmMdName object is optional. When the dot1agCfmMdFormat object is set to none(1), the MIB will automatically ignore the input value no	Not supported	Supported	Supported

Create	Edit/Modify	Delete	Read
<p>matter whether the dot1agCfmMdName object is configured. When the dot1agCfmMdFormat object is set to any other value, you must configure the dot1agCfmMdName object, and the MIB will read the input value.</p> <ul style="list-style-type: none"> The dot1agCfmMdMhfCreation object is optional. If it is not configured, the default value is defMHFnone(1), and only the value is available. The dot1agCfmMdMhfIdPermission object is optional. If it is not configured, the default value is sendIdNone(1), and only the value is available. 			

Columns

The table index is dot1agCfmMdIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMdIndex (1.3.111.2.802.1.1.8.1.5.2.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	MD table index.	As per the MIB.
dot1agCfmMdFormat (1.3.111.2.802.1.1.8.1.5.2.1.2)	read-create	Dot1agCfmMaintDomainNameType	INTEGER { none (1) dnsLikeName(2) macAddressAndUint (3) charString (4) }	MD name type.	As per the MIB.
dot1agCfmMdName (1.3.111.2.802.1.1.8.1.5.2.1.3)	read-create	Dot1agCfmMaintDomainName	OCTET STRING(1..43)	MD name.	The MD name must be unique. After an MD is created, its name cannot be modified. When the format is set to macAddressAndUint(3), you must enter eight bytes, where the first fix bytes specify the MAC address and the last two bytes specify the subnumber.
dot1agCfmMdMdLevel (1.3.111.2.802.1.1.8.1.5.2.1.4)	read-create	Dot1agCfmMDLevel	Integer32 (0..7)	MD level.	Eight MD levels are available, 0 to 7. The MD level cannot be modified after an MD is created.
dot1agCfmMdMhfCreation (1.3.111.2.802.1.1.8.1.5.2.1.5)	read-create	Dot1agCfmMhfCreation	INTEGER { defMHFnone(1), defMHFdefault(2), defMHFexplicit(3) }	Enumerated value indicating whether the management entity can create	This object is insignificant. This object cannot be modified after an MD is created. The

Object (OID)	Access	Syntax	Value range	Description	Implementation
				MHFs (MIP Half Function) for this MD.	default is defMHFnone(1), and only the value is supported.
dot1agCfmMdMhFldPermissi on (1.3.111.2.802.1.1.8.1.5.2.1. 6)	read-create	Dot1agCfmIdP ermission	INTEGER { sendIdNone(1), sendIdChassis(2), sendIdManage(3), sendIdChassisManage(4) }	Enumerated value indicating what, if anything, is to be included in the Sender ID TLV (21.5.3) transmitted by MPs configured in this MD.	The default value is sendIdNone(1) , and only the value is available.
dot1agCfmMdMaNextIndex (1.3.111.2.802.1.1.8.1.5.2.1. 7)	read-only	Dot1afCfmInd exIntegerNext Free,	Unsigned32 (1..4294967295)	Index of the next MA to be created.	As per the MIB.
dot1agCfmMdRowStatus (1.3.111.2.802.1.1.8.1.5.2.1. 8)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Available values are active(1), createAndGo(4), and destroy(6).

dot1agCfmMaNetTable

About this table

Use this table to obtain the MA network information.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none"> The dot1agCfmMdIndex must be configured. The index is provided by dot1agCfmMdIndex in the dot1agCfmMdTable object. The dot1agCfmMaIndex and dot1agCfmMaNetName indexes are required. When configuring the dot1agCfmMaIndex index, the index is provided by the dot1agCfmMdMaNextIndex in the dot1agCfmMdTable table. When you use the dot1agCfmMaNetName object to configure a name, the name can contain only digits, letters, and underscores (_). The dot1agCfmMaNetFormat object must be configured. The dot1agCfmMaNetCcmInterval object is optional. If it is not configured, the default value is interval1s (4). 	<p>Only the dot1agCfmMaNetCcmInterval object value can be modified.</p> <p>The values of the other objects cannot be modified. To modify them, first delete this row, and then create a new one.</p>	Supported	Supported

Columns

The table indexes are dot1agCfmMdIndex and dot1agCfmMaIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMaIndex (1.3.111.2.802.1.1.8.1.6.1.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	MA index.	This object cannot be modified after being created.
dot1agCfmMaNetFormat (1.3.111.2.802.1.1.8.1.6.1.1.2)	read-create	Dot1agCfmMaintAssocName Type	INTEGER { primaryVid (1), charString (2), unsignedInt16 (3), iccFormat (32) }	MA name format.	This object cannot be modified after being created.
dot1agCfmMaNetName (1.3.111.2.802.1.1.8.1.6.1.1.3)	read-create	Dot1agCfmMaintAssocName	OCTET STRING (1..45)	MA name.	This object cannot be modified after being created. The total length of the MA name and its MD name cannot exceed 44 bytes.
dot1agCfmMaNetCcmInterval (1.3.111.2.802.1.1.8.1.6.1.1.4)	read-create	Dot1agCfmCcmInterval	INTEGER { intervalInvalid (0), interval300Hz (1), interval10ms (2), interval100ms (3), interval1s (4), interval10s (5), interval1min (6), interval10min (7) }	CCM transmission interval.	As per the MIB.
dot1agCfmMaNetRowStatus (1.3.111.2.802.1.1.8.1.6.1.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Available values are active(1), createAndGo(4), and destroy(6).

dot1agCfmMaMepListTable

About this table

Use this table to obtain the MA network information.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none"> The dot1agCfmMdIndex must be configured. The index is provided by the dot1agCfmMdIndex in the dot1agCfmMdTable object. The dot1agCfmMaIndex must be configured. The index is provided by the 	Not supported	Supported	Supported

dot1agCfmMaIndex in the dot1agCfmMaNetTable object.			
<ul style="list-style-type: none"> The dot1agCfmMaMepListIdentifier object must be configured. 			

Columns

The table indexes are dot1agCfmMdIndex, dot1agCfmMaIndex, and dot1agCfmMaMepListIdentifier.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMaMepListIdentifier (1.3.111.2.802.1.1.8.1.6.3.1.1)	not-accessible	Dot1agCfmMepId	Unsigned32 (1..8191)	MEP ID.	This object cannot be modified after being created.
dot1agCfmMaMepListRowStatus (1.3.111.2.802.1.1.8.1.6.3.1.2)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Available values are active(1), createAndGo(4), and destroy(6).

dot1agCfmMepTable

About this table

Use this table to obtain the MEP information.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none"> The dot1agCfmMdIndex must be configured. The index is provided by the dot1agCfmMdIndex in the dot1agCfmMdTable object. The dot1agCfmMaIndex must be configured. The index is provided by the dot1dot1agCfmMaIndex in the dot1agCfmMaNetTable object. Indexes dot1agCfmMepIdentifier and dot1agCfmMepIfIndex and non-index dot1agCfmMepDirection must be configured. 	<p>The dot1agCfmMepActive and dot1agCfmMepCciEnabled object values can be modified.</p> <p>The values of the other objects cannot be modified. To modify them, first delete this row, and then create a new one.</p>	Supported	Supported

Columns

The table indexes are dot1agCfmMdIndex, dot1agCfmMaIndex, and dot1agCfmMepIdentifier.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMepIdentifier (1.3.111.2.802.1.1.8.1.7.1.1.1)	not-accessible	Dot1agCfmMepId	Unsigned32 (1..8191)	MEP ID.	This object cannot be modified after being created.
dot1agCfmMepIfIndex (1.3.111.2.802.1.1.8.1.7.1.1.2)	read-create	InterfaceIndexOrZero	Integer32 (0..2147483647)	Interface index of an MEP.	As per the MIB.
dot1agCfmMepDirection (1.3.111.2.802.1.1.8.1.7.1.1.3)	read-create	Dot1agCfmMepDirection	INTEGER { down (1),	MEP direction.	This object cannot be

Object (OID)	Access	Syntax	Value range	Description	Implementation
			up (2) }		modified after being created.
dot1agCfmMepPrimaryVid (1.3.111.2.802.1.1.8.1.7.1.1.4)	read-create	Unsigned32	Unsigned32(0..16777215)	VLAN of the MEP.	The value 0 indicates that either the primary VID is that of the MEP's MA, or that the MEP's MA is associated with no VID.
dot1agCfmMepActive (1.3.111.2.802.1.1.8.1.7.1.1.5)	read-create	TruthValue	true(1), false(2)	Enabling state of the MEP.	The value must be true (1), and cannot be modified once the MEP is created.
dot1agCfmMepFngState (1.3.111.2.802.1.1.8.1.7.1.1.6)	read-only	Dot1agCfmFngState	INTEGER { fngReset (1), fngDefect (2), fngReportDefect (3), fngDefectReported(4), fngDefectClearing(5) }	FNG state machine state of the MEP.	As per the MIB.
dot1agCfmMepCciEnabled (1.3.111.2.802.1.1.8.1.7.1.1.7)	read-create	TruthValue	true(1), false(2)	Whether to enable the MEP to send CCM packets.	As per the MIB.
dot1agCfmMepCcmLtmPriority (1.3.111.2.802.1.1.8.1.7.1.1.8)	read-create	Unsigned32	Unsigned32(0..7)	Priority of CCM packets sent by the MEP.	Not supported
dot1agCfmMepMacAddress (1.3.111.2.802.1.1.8.1.7.1.1.9)	read-only	MacAddress	OCTET STRING(6)	MEP MAC address.	Not supported
dot1agCfmMepLowPrDef (1.3.111.2.802.1.1.8.1.7.1.1.10)	read-create	Dot1agCfmLowestAlarmPri	INTEGER { allDef (1), macRemErrXcon(2), remErrXcon (3), errXcon (4), xcon (5), noXcon (6) }	Lowest priority defect that is allowed to generate fault alarms.	Not supported
dot1agCfmMepFngAlarmTime (1.3.111.2.802.1.1.8.1.7.1.1.11)	read-create	TimeInterval	250..1000	The time that defects must be	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				present before a fault alarm is issued.	
dot1agCfmMepFngResetTime (1.3.111.2.802.1.1.8.1.7.1.1.12)	read-create	TimeInterval	250..1000	The time that defects must be absent before resetting a fault alarm.	Not supported
dot1agCfmMepHighestPrDefect (1.3.111.2.802.1.1.8.1.7.1.1.13)	read-only	Dot1agCfmHighestDefectPri	INTEGER { none (0), defRDICCM (1), defMACstatus (2), defRemoteCCM (3), defErrorCCM (4), defXconCCM (5) }	Highest-priority fault of the MEP.	In the current software version, only fault types defRemoteCCM(3), defErrorCCM(4), and defXconCCM(5) are supported.
dot1agCfmMepDefects (1.3.111.2.802.1.1.8.1.7.1.1.14)	read-only	Dot1agCfmMepDefects	BITS { bDefRDICCM(0), bDefMACstatus(1), bDefRemoteCCM(2), bDefErrorCCM(3), bDefXconCCM(4) }	MEP fault state.	Not supported
dot1agCfmMepErrorCcmLastFailure (1.3.111.2.802.1.1.8.1.7.1.1.15)	read-only	OCTET STRING	OCTET STRING (1..1522)	Last-received CCM packet that triggered a DefErrorCCM fault.	Not supported
dot1agCfmMepXconCcmLastFailure (1.3.111.2.802.1.1.8.1.7.1.1.16)	read-only	OCTET STRING	OCTET STRING (1..1522)	Last-received CCM packet that triggered a DefXconCCM fault.	Not supported
dot1agCfmMepCcmSequenceErrors (1.3.111.2.802.1.1.8.1.7.1.1.17)	read-only	Counter32	Standard MIB values.	Total number of out-of-sequence CCM packets received.	Not supported
dot1agCfmMepCciSentCcms (1.3.111.2.802.1.1.8.1.7.1.1.18)	read-only	Counter32	Standard MIB values.	Total number of CCM packets sent.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMepNextLbmTransId (1.3.111.2.802.1.1.8.1.7.1.1.19)	read-only	Unsigned32	Standard MIB values.	Next sequence number.	Not supported
dot1agCfmMepLbrIn (1.3.111.2.802.1.1.8.1.7.1.1.20)	read-only	Counter32	Standard MIB values.	Total number of LBR packets received.	Not supported
dot1agCfmMepLbrInOutOfOrder (1.3.111.2.802.1.1.8.1.7.1.1.21)	read-only	Counter32	Standard MIB values.	Total number of out-of-sequence LBR packets received.	Not supported
dot1agCfmMepLbrBadMsdu (1.3.111.2.802.1.1.8.1.7.1.1.22)	read-only	Counter32	Standard MIB values.	Total number of bad LBR packets.	Not supported
dot1agCfmMepLtmNextSeqNumber (1.3.111.2.802.1.1.8.1.7.1.1.23)	read-only	Unsigned32	Standard MIB values.	Next sequence number of the LT packet.	Not supported
dot1agCfmMepUnexpLtrIn (1.3.111.2.802.1.1.8.1.7.1.1.24)	read-only	Counter32	Standard MIB values.	Total number of LTR packets	Not supported
dot1agCfmMepLbrOut (1.3.111.2.802.1.1.8.1.7.1.1.25)	read-only	Counter32	Standard MIB values.	Total number of LBR packets sent.	Not supported
dot1agCfmMepTransmitLbmStatus (1.3.111.2.802.1.1.8.1.7.1.1.26)	read-create	TruthValue	true(1), false(2)	Whether to forward LBM packets.	Not supported
dot1agCfmMepTransmitLbmDestMacAddress (1.3.111.2.802.1.1.8.1.7.1.1.27)	read-create	MacAddress	OCTET STRING(6)	Destination MAC address of LBM packets.	Not supported
dot1agCfmMepTransmitLbmDestMepld (1.3.111.2.802.1.1.8.1.7.1.1.28)	read-create	Dot1agCfmMepldOrZero	Integer32 (0..2147483647)	MEP ID.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1agCfmMepTransmitLbmDestinationMepId (1.3.111.2.802.1.1.8.1.7.1.1.29)	read-create	TruthValue	true(1), false(2)	Whether the LBM packets are transmitted by using the MEP ID or destination MAC address.	Not supported
dot1agCfmMepTransmitLbmMessages (1.3.111.2.802.1.1.8.1.7.1.1.30)	read-create	Integer32	Integer32(1..1024)	Total number of LBM packets sent.	Not supported
dot1agCfmMepTransmitLbmDataTlv (1.3.111.2.802.1.1.8.1.7.1.1.31)	read-create	OCTET STRING	OCTET STRING (0..1500)	Data in TLVs.	Not supported
dot1agCfmMepTransmitLbmVlanPriority (1.3.111.2.802.1.1.8.1.7.1.1.32)	read-create	Integer32	OCTET STRING (0..7)	Priority.	Not supported
dot1agCfmMepTransmitLbmVlanDropEnable (1.3.111.2.802.1.1.8.1.7.1.1.33)	read-create	TruthValue	true(1), false(2)	Whether to enable dropping packets.	Not supported
dot1agCfmMepTransmitLbmResultOK (1.3.111.2.802.1.1.8.1.7.1.1.34)	read-only	TruthValue	true(1), false(2)	Whether to send LBM packets.	Not supported
dot1agCfmMepTransmitLbmSequenceNumber (1.3.111.2.802.1.1.8.1.7.1.1.35)	read-only	Unsigned32	Standard MIB values.	ID of the first LBM packet sent.	Not supported
dot1agCfmMepTransmitLtmStatus (1.3.111.2.802.1.1.8.1.7.1.1.36)	read-create	TruthValue	true(1), false(2)	Whether to send the next LTM packet.	Not supported
dot1agCfmMepTransmitLtmFlags (1.3.111.2.802.1.1.8.1.7.1.1.37)	read-create	BITS	useFDBOnly (0)	Flag field in LTM packets.	Not supported
dot1agCfmMepTransmitLtmTargetMacAddress (1.3.111.2.802.1.1.8.1.7.1.1.38)	read-create	MacAddress	OCTET STRING(6)	Destination MAC address.	Not supported
dot1agCfmMepTransmitLtmTargetMepId (1.3.111.2.802.1.1.8.1.7.1.1.39)	read-create	Dot1agCfmMepIdOrZero	Integer32 (0..2147483647)	Whether the sent packets carry the destination MAC address.	Not supported
dot1agCfmMepTransmitLtmTargetMepId (1.3.111.2.802.1.1.8.1.7.1.1.40)	read-create	TruthValue	true(1), false(2)	Whether the LTM packets use the	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				MEP ID.	
dot1agCfmMepTransmitLtmTtl (1.3.111.2.802.1.1.8.1.7.1.1.41)	read-create	Unsigned32	Unsigned32(0..255)	TTL	Not supported
dot1agCfmMepTransmitLtmResult (1.3.111.2.802.1.1.8.1.7.1.1.42)	read-only	TruthValue	true(1), false(2)	Whether to send LTM packets.	Not supported
dot1agCfmMepTransmitLtmSeqNumber (1.3.111.2.802.1.1.8.1.7.1.1.43)	read-only	Unsigned32	Standard MIB values.	LTM transaction identifier of the LTM sent.	Not supported
dot1agCfmMepTransmitLtmEgressIdentifier (1.3.111.2.802.1.1.8.1.7.1.1.44)	read-create	OCTET STRING	OCTET STRING(8)	ID of the egress of the LTM packets.	Not supported
dot1agCfmMepRowStatus (1.3.111.2.802.1.1.8.1.7.1.1.45)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Available values are active(1), createAndGo(4), and destroy(6).
dot1agCfmMepPbbTeCanReportPbbTePresence (1.3.111.2.802.1.1.8.1.7.1.1.46)	read-create	TruthValue	true(1), false(2)	Whether the PBB-TE reporting capability is supported.	Not supported
dot1agCfmMepPbbTeTrafficMismatchDefect (1.3.111.2.802.1.1.8.1.7.1.1.47)	read-only	TruthValue	true(1), false(2)	Whether traffic mismatch errors have been detected.	Not supported
dot1agCfmMepPbbTransmitLbmLtmReverseVid (1.3.111.2.802.1.1.8.1.7.1.1.48)	read-create	IEEE8021VlanIndex	Unsigned32 (1..4094 4096..4294967295)	PBB VID carried in LTM packets.	Not supported
dot1agCfmMepPbbTeMismatchAlarm (1.3.111.2.802.1.1.8.1.7.1.1.49)	read-create	TruthValue	true(1), false(2)	Whether PBB-TE errors or PBB-TE alarms are detected.	Not supported
dot1agCfmMepPbbTeLocalMismatchDefect (1.3.111.2.802.1.1.8.1.7.1.1.50)	read-only	TruthValue	true(1), false(2)	Whether local PBB-TE errors have been detected.	Not supported
dot1agCfmMepPbbTeLocalMismatchSinceReset (1.3.111.2.802.1.1.8.1.7.1.1.51)	read-only	TruthValue	true(1), false(2)	Whether the local PBB-TE	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				errors start from the reset state.	

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IEEE8021-CFM-V2-MIB

About this MIB

This document describes the IEEE8021-CFM-V2-MIB. This document includes the MIB tree structure description, non-table child object description, tabular object description, leaf object description, and trap definitions. This document is for the use of network administrators, device developers, testers, documentation staff, and maintenance staff.

MIB file name

ieee8021-cfm-v2.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbered-series-standards(2).lan-man-stds(802).ieee802dot1(1).ieee802dot1mibs(1).ieee8021CfmV2Mib(7)

Tabular objects

ieee8021CfmMaCompTable

About this table

Use this table to configure the MA component table.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ieee8021CfmMaComponentId, dot1CfmMdIndex, and dot1CfmMalIndex.

OID of this table is: 1.3.111.2.802.1.1.8.1.6.4

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CfmMaComponentId (1.3.111.2.802.1.1.8.1.6.4.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	MA component ID.	The value is fixed at 1.
ieee8021CfmMaCompPrimarySelectorType (1.3.111.2.802.1.1.8.1.6.4.1.2)	read-create	IEEE8021ServiceSelectorValueOrNone	vlanId(1), isid(2), tesid(3), segid(4)	Service selector type.	In the current software version, only the value vlanId(1) is supported.
ieee8021CfmMaCompPrimarySelectorOrNone (1.3.111.2.802.1.1.8.1.6.4.1.3)	read-create	SelectorOrNone		Service Selector identifier to which the MP is attached.	This object cannot be modified after being created.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CfmMaCompMhfCreation (1.3.111.2.802.1.1.8.1.6.4.1.4)	read-create	INTEGER	defMHFnone (1), defMHFdefault (2), defMHFexplicit (3), defMHFdefer (4)	Indicates whether the management entity can create MHFs (MIP Half Function) for this MA.	As per the MIB.
ieee8021CfmMaCompIdPermission (1.3.111.2.802.1.1.8.1.6.4.1.5)	read-create	Dot1agCfmIdPermission	sendIdNone (1), sendIdChassis (2), sendIdManagement (3), sendIdChassisManagement (4), sendIdDeferred (5)	Enumerated value indicating what, if anything, is to be included in the Sender ID TLV.	In the current software version, only sendIdNone (1) and sendIdDeferred (5) are supported.
ieee8021CfmMaCompNumberOfVids (1.3.111.2.802.1.1.8.1.6.4.1.6)	read-only	Unsigned32	Standard MIB values.	Number of VIDs associated with the MA.	The object can only be read and the value is fixed at 1.
ieee8021CfmMaCompRowStatus (1.3.111.2.802.1.1.8.1.6.4.1.7)	read-create	RowStatus	active(1),notInService(2),notReady(3),createAndGo(4),createAndWait(5),destroy(6)	Row status.	Available values are active(1), createAndGo(4), and destroy(6).

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IEEE8023-LAG-MIB

About this MIB

This MIB defines MIB objects for the following information:

- Aggregate interface configuration.
- Aggregation member port list.
- Aggregation member port configuration.
- Traffic statistics.
- State machine information about aggregation member ports.

MIB file name

ieee8023-lag.mib

Root object

iso(1).member-body(2).us(840).802dot3(10006).snmpmibs(300).lagMIB(43)

Scalar objects

dot3adTablesLastChanged

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adTablesLastChanged (1.2.840.10006.300.43.1.3)	Read-only	TimeTicks	Standard MIB values.	The time of the most recent change to the dot3adAggTable, dot3adAggPortListTable, or dot3adAggPortTable.	Not supported

Tabular objects

dot3adAggTable

About this table

Use this table to configure aggregate interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is dot3adAggIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggIndex (1.2.840.10006.300.43.1.1.1.1.1)	not-accessible	Interface Index	Integer32 (1..2147483647)	Unique identifier allocated to an aggregate interface by the local system, table index.	N/A
dot3adAggMACAddress (1.2.840.10006.300.43.1.1.1.1.2)	read-only	MacAddress	OCTET STRING (6)	MAC address of the aggregate interface.	Default: 0.
dot3adAggActorSystemPriority (1.2.840.10006.300.43.1.1.1.1.3)	read-write	INTEGER	INTEGER (0..65535)	Local system priority.	N/A
dot3adAggActorSystemID (1.2.840.10006.300.43.1.1.1.1.4)	read-only	MacAddress	OCTET STRING (6)	Local system ID.	Default: 0.
dot3adAggAggregateOrIndividual (1.2.840.10006.300.43.1.1.1.1.5)	read-only	TruthValue	true(1) false(2)	Aggregation flag.	The value is fixed at true.
dot3adAggActorAdminKey (1.2.840.10006.300.43.1.1.1.1.6)	read-write	LacpKey	INTEGER (0..65535)	Administrative key.	Only the read operation is supported.
dot3adAggActorOperKey (1.2.840.10006.300.43.1.1.1.1.7)	read-only	LacpKey	INTEGER (0..65535)	Operational key.	N/A
dot3adAggPartnerSystemID (1.2.840.10006.300.43.1.1.1.1.8)	read-only	MacAddress	OCTET STRING (6)	Peer system ID.	Default: 0.
dot3adAggPartnerSystemPriority (1.2.840.10006.300.43.1.1.1.1.9)	read-only	INTEGER	INTEGER (0..65535)	Peer system priority.	N/A
dot3adAggPartnerOperKey (1.2.840.10006.300.43.1.1.1.1.10)	read-only	LacpKey	INTEGER (0..65535)	Peer operational key.	N/A
dot3adAggCollectorMaxDelay (1.2.840.10006.300.43.1.1.1.1.11)	read-write	INTEGER	INTEGER (0..65535)	Maximum delay.	A value of 0 is returned for read operations. Only the read operation is supported.

dot3adAggPortListTable

About this table

Use this table to obtain the member port list for an aggregate interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3adAggIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggPortListPorts (1.2.840.10006.300.43.1.1.2.1.1)	read-only	PortList	OCTET STRING (0..255)	Member port list.	Each bit set in this list represents a member port.

dot3adAggPortTable

About this table

Use this table to configure an aggregation member port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is dot3adAggPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggPortIndex (1.2.840.10006.300.43.1.2.1.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	Member port index.	As per the MIB.
dot3adAggPortActorSystemPriority (1.2.840.10006.300.43.1.2.1.1.2)	read-write	INTEGER	INTEGER (0..65535)	Local system priority.	As per the MIB.
dot3adAggPortActorSystemID (1.2.840.10006.300.43.1.2.1.1.3)	read-only	MacAddress	OCTET STRING (6)	Local system ID.	As per the MIB.
dot3adAggPortActorAdminKey (1.2.840.10006.300.43.1.2.1.1.4)	read-write	LacpKey	INTEGER (0..65535)	Administrative key.	As per the MIB.
dot3adAggPortActorOperKey (1.2.840.10006.300.43.1.2.1.1.5)	read-write	LacpKey	INTEGER (0..65535)	Operational key.	Only the read operation is supported.
dot3adAggPortPartnerAdminSystemPriority (1.2.840.10006.300.43.1.2.1.1.6)	read-write	INTEGER	INTEGER (0..65535)	Administrative priority of the peer port.	Only the read operation is supported.
dot3adAggPortPartnerOperSystemPriority (1.2.840.10006.300.43.1.2.1.1.7)	read-only	INTEGER	INTEGER (0..65535)	Peer operational priority.	As per the MIB.
dot3adAggPortPartnerAdminSystemID (1.2.840.10006.300.43.1.2.1.1.8)	read-write	MacAddress	OCTET STRING (6)	Peer administrative system ID.	Only the read operation is supported.
dot3adAggPortPartnerOperSystemID	read-only	MacAddress	OCTET STRING (6)	Peer operational	Default: 0.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.2.840.10006.300.43.1.2.1.1.9)		ss		system ID.	
dot3adAggPortPartnerAdminKey (1.2.840.10006.300.43.1.2.1.1.10)	read-write	LacpKey	INTEGER (0..65535)	Peer administrative key.	Only the read operation is supported.
dot3adAggPortPartnerOperKey (1.2.840.10006.300.43.1.2.1.1.11)	read-only	LacpKey	INTEGER (0..65535)	Peer operational key.	As per the MIB.
dot3adAggPortSelectedAggID (1.2.840.10006.300.43.1.2.1.1.12)	read-only	InterfaceIndexOrZero	Integer32 (0..2147483647)	Selected aggregate interface index.	As per the MIB.
dot3adAggPortAttachedAggID (1.2.840.10006.300.43.1.2.1.1.13)	read-only	InterfaceIndexOrZero	Integer32 (0..2147483647)	Joined aggregate interface index.	As per the MIB.
dot3adAggPortActorPort (1.2.840.10006.300.43.1.2.1.1.14)	read-only	INTEGER	INTEGER (0..65535)	Local port index.	As per the MIB.
dot3adAggPortActorPortPriority (1.2.840.10006.300.43.1.2.1.1.15)	read-write	INTEGER	INTEGER (0..65535)	Local port priority.	As per the MIB.
dot3adAggPortPartnerAdminPort (1.2.840.10006.300.43.1.2.1.1.16)	read-write	INTEGER	INTEGER (0..65535)	Peer administrative port number.	Only the read operation is supported.
dot3adAggPortPartnerOperPort (1.2.840.10006.300.43.1.2.1.1.17)	read-only	INTEGER	INTEGER (0..65535)	Peer operational port number.	As per the MIB.
dot3adAggPortPartnerAdminPortPriority (1.2.840.10006.300.43.1.2.1.1.18)	read-write	INTEGER	INTEGER (0..65535)	Peer administrative port priority.	Only the read operation is supported.
dot3adAggPortPartnerOperPortPriority (1.2.840.10006.300.43.1.2.1.1.19)	read-only	INTEGER	INTEGER (0..65535)	Peer operational port priority.	As per the MIB.
dot3adAggPortActorAdminState (1.2.840.10006.300.43.1.2.1.1.20)	read-write	LacpState	BITS { lacpActivity(0) lacpTimeout(1) aggregation(2) synchronization(3) collecting(4) distributing(5) defaulted(6) expired(7) }	Local administrative status.	The write operation processes only bit 1.
dot3adAggPortActorOperState (1.2.840.10006.300.43.1.2.1.1.21)	read-only	LacpState	BITS { lacpActivity(0) lacpTimeout(1) aggregation(2) synchronization(3) collecting(4) distributing(5)	Local operational status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			defaulted(6) expired(7) }		
dot3adAggPortPartnerAdminState (1.2.840.10006.300.43.1.2.1.1.22)	read-write	LacpState	BITS { lacpActivity(0) lacpTimeout(1) aggregation(2) synchronization(3) collecting(4) distributing(5) defaulted(6) expired(7) }	Peer administrative status.	Only the read operation is supported.
dot3adAggPortPartnerOperState (1.2.840.10006.300.43.1.2.1.1.23)	read-only	LacpState	BITS { lacpActivity(0) lacpTimeout(1) aggregation(2) synchronization(3) collecting(4) distributing(5) defaulted(6) expired(7) }	Peer operational status.	As per the MIB.
dot3adAggPortAggregateOrIndividual (1.2.840.10006.300.43.1.2.1.1.24)	read-only	TruthValue	true(1) false(2)	Aggregation status.	The return value is fixed at true.

dot3adAggPortStatsTable

About this table

Use this table to obtain traffic statistics about aggregate interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3adAggPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggPortStatsLACPDU Rx (1.2.840.10006.300.43.1.2.2.1.1)	read-only	Counter 32	Standard MIB values.	Valid incoming LACPDU count.	As per the MIB.
dot3adAggPortStatsMarkerPDUs Rx	read-only	Counter	Standard	Valid incoming	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.2.840.10006.300.43.1.2.2.1.2)		32	MIB values.	Maker PDU count.	
dot3adAggPortStatsMarkerResponsePDUsRx (1.2.840.10006.300.43.1.2.2.1.3)	read-only	Counter 32	Standard MIB values.	Valid incoming Maker response PDU count.	As per the MIB.
dot3adAggPortStatsUnknownRx (1.2.840.10006.300.43.1.2.2.1.4)	read-only	Counter 32	Standard MIB values.	Unknown incoming packet count.	As per the MIB.
dot3adAggPortStatsIllegalRx (1.2.840.10006.300.43.1.2.2.1.5)	read-only	Counter 32	Standard MIB values.	Invalid incoming packet count.	As per the MIB.
dot3adAggPortStatsLACPDUsTx (1.2.840.10006.300.43.1.2.2.1.6)	read-only	Counter 32	Standard MIB values.	Outgoing LACPDU count.	As per the MIB.
dot3adAggPortStatsMarkerPDUsTx (1.2.840.10006.300.43.1.2.2.1.7)	read-only	Counter 32	Standard MIB values.	Outgoing Maker PDU count.	As per the MIB.
dot3adAggPortStatsMarkerResponsePDUsTx (1.2.840.10006.300.43.1.2.2.1.8)	read-only	Counter 32	Standard MIB values.	Outgoing Maker response PDU count.	As per the MIB.

dot3adAggPortDebugTable

About this table

Use this table to obtain state machine information about aggregation member ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot3adAggPortDebugRxState.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggPortDebugRxState (1.2.840.10006.300.43.1.2.3.1.1)	read-only	INTEGER	currentRx(1) expired(2) defaulted(3) initialize(4) lACPDisabled(5) portDisabled(6)	Receive state machine.	As per the MIB.
dot3adAggPortDebugLastRxTime (1.2.840.10006.300.43.1.2.3.1.2)	read-only	TimeTicks	Standard MIB values.	Time when the last LACPDU was received.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3adAggPortDebugMuxState (1.2.840.10006.300.43.1.2.3.1.3)	read-only	INTEGER	detached(1) waiting(2) attached(3) collecting(4) distributing(5) collectingDistributing(6)	Mux state machine.	As per the MIB.
dot3adAggPortDebugMuxReason (1.2.840.10006.300.43.1.2.3.1.4)	read-only	DisplayString	OCTET STRING (0..255)	Cause for the last Mux state machine change.	As per the MIB.
dot3adAggPortDebugActorChurnState (1.2.840.10006.300.43.1.2.3.1.5)	read-only	ChurnState	INTEGER { noChurn(1) churn(2) churnMonitor(3) }	Actor Churn state machine.	As per the MIB.
dot3adAggPortDebugPartnerChurnState (1.2.840.10006.300.43.1.2.3.1.6)	read-only	ChurnState	INTEGER { noChurn(1) churn(2) churnMonitor(3) }	Partner Churn state machine.	As per the MIB.
dot3adAggPortDebugActorChurnCount (1.2.840.10006.300.43.1.2.3.1.7)	read-only	Counter32	Standard MIB values.	Number of times the Actor Churn state machine has entered the ACTOR_CHURN state.	As per the MIB.
dot3adAggPortDebugPartnerChurnCount (1.2.840.10006.300.43.1.2.3.1.8)	read-only	Counter32	Standard MIB values.	Number of times the Partner Churn state machine has entered the PARTNER_CHURN state.	As per the MIB.
dot3adAggPortDebugActorSyncTransitionCount (1.2.840.10006.300.43.1.2.3.1.9)	read-only	Counter32	Standard MIB values.	Number of times the Mux state machine has entered the IN_SYNC state on the local port.	Not supported
dot3adAggPortDebugPartnerSyncTransitionCount (1.2.840.10006.300.43.1.2.3.1.10)	read-only	Counter32	Standard MIB values.	Number of times the Mux state machine has entered the IN_SYNC state on the peer port.	Not supported
dot3adAggPortDebugActorChangeCount (1.2.840.10006.300.43.1.2.3.1.11)	read-only	Counter32	Standard MIB values.	Number of times the Actor Churn state machine has changed status.	As per the MIB.
dot3adAggPortDebugPartnerChangeCount (1.2.840.10006.300.43.1.2.3.1.12)	read-only	Counter32	Standard MIB values.	Number of times the Partner Churn state machine has changed status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
2)				machine has changed status.	

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LLDP-EXT-DOT1-EVB-EXTENSIONS-MIB

About this MIB

Use this MIB to obtain information about EVB TLV configuration.

MIB file name

lldp-ext-dot1-evb-extensions.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbers-series-standards(2).lan-man-stds(802).ieee802dot1mibs(1).lldpV2MIB(13).lldpV2Objects(1).lldpV2Extensions(5).lldpV2Xdot1MIB(32962).lldpXdot1StandAloneExtensions(7).lldpXdot1EvbExtensions(1)

This MIB is LLDP Management Information Base extension module for IEEE 802.1 organizationally defined discovery information for the EVB extension objects.

Tabular objects

lldpXdot1EvbConfigEvbTable

About this table

This table configures the transmission of EVB TLVs on a set of ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are lldpV2PortConfigIfIndex and lldpV2PortConfigDestAddressIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1EvbConfigEvbTxEnable(1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable EVB TLV transmission.	As per the MIB.

lldpXdot1EvbConfigCdcTable

About this table

This table configures the transmission of CDCP TLVs on a set of ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1EvbConfigCdcpxEnable(1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.2.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable CDCP TLV transmission.	As per the MIB.

IldpV2Xdot1LocEvbTlvTable

About this table

This table contains information about local EVB TLVs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocEvbTlvString(1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.2.1.1)	read-only	OCTET STRING	OCTET STRING (0..514)	Local EVB TLV information.	As per the MIB.

IldpV2Xdot1LocCdcpxTlvTable

About this table

This table contains information about local CDCP TLVs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is lldpV2LocPortIfIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2Xdot1LocC dcpTlvString (1.3.111.2.802.1.1 .13.1.5.32962.7.1. 1.1.2.2.1.1)	read-only	OCTET STRING	OCTET STRING (0..514)	Local CDCP TLV information.	As per the MIB.

lldpV2Xdot1RemEvbTlvTable

About this table

This table contains information about EVB TLVs received from the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2RemTimeMark, lldpV2RemLocalIfIndex, lldpV2RemLocalDestMACAddress, and lldpV2RemIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2Xdot1RemE vbTlvString (1.3.111.2.802.1.1 .13.1.5.32962.7.1. 1.1.3.1.1.1)	read-only	OCTET STRING	OCTET STRING (0..514)	Information about EVB TLVs from neighboring devices.	As per the MIB.

lldpV2Xdot1RemCdcPtlvTable

About this table

This table contains information about CDCP TLVs received from the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2RemTimeMark, lldpV2RemLocalIfIndex, lldpV2RemLocalDestMACAddress, and lldpV2RemIndex.

The OID of the table is 1.3.111.2.802.1.1.13.1.5.32962.7.1.1.1.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemC dcpTlvString (1.3.111.2.802.1.1 .13.1.5.32962.7.1. 1.1.3.2.1.1)	read-only	OCTET STRING	OCTET STRING (0..514)	Information about CDCP TLVs from neighboring devices.	As per the MIB.

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LLDP-EXT-DOT1-MIB

About this MIB

For network managers to discover inconsistent or incorrect VLAN configurations and different supported protocols on interconnected ports, LLDP must implement the IEEE 802.1 organizationally specific extended features.

LLDP-EXT-DOT1-MIB is one of the four MIBs available for LLDP, which also include LLDP-MIB, LLDP-EXT-DOT3-MIB, and LLDP-MED-MIB. This MIB is a standard public MIB, which contains LLDP configuration, local and neighboring LLDP information.

MIB file name

lldp-ext-dot1.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).lldpMIB(2).lldpObjects(1).lldpExtnsions(5).lldpXdot1MIB(32962)

This MIB is the LLDP Management Information Base extension module for IEEE 802.1 organizationally defined discovery information.

Tabular objects

lldpXdot1ConfigPortVlanTable

About this table

This table controls selection of LLDP Port VLAN-ID TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is lldpPortConfigPortNum.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1ConfigPortVlanTxEnable (1.0.8802.1.1.2.1.5.32962.1.1.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable port VLAN TLV transmission on a given LLDP transmission capable port.	Default: true.

IldpXdot1ConfigVlanNameTable

About this table

This table controls selection of LLDP VLAN name TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Not supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1ConfigVlanNameTxEnable (1.0.8802.1.1.2.1.5.32962.1.1.2.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable VLAN name TLV transmission on a given LLDP transmission capable port.	Default: false. As a best practice, do not perform the walk operation from the MIB browser, because it takes a long time to walk through all ports and VLANs.

IldpXdot1ConfigProtoVlanTable

About this table

This table controls selection of LLDP port and protocol VLAN ID TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocProtoVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1ConfigProtoVlanTxEnable (1.0.8802.1.1.2.1.5.32962.1.1.3.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable Port and Protocol VLAN ID TLV transmission on a given LLDP transmission capable port.	Default: false. As a best practice, do not perform the walk operation from the MIB browser, because it takes a long time to walk through all ports and VLANs.

IldpXdot1ConfigProtocolTable

About this table

This table controls selection of LLDP Protocol TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocProtocolIndex.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1ConfigProtocolTxEnable (1.0.8802.1.1.2.1.5.32962.1.1.4.1.1)	read-write	TruthValue	true(1), false(2)	Selects whether to enable Protocol Identity TLV transmission on a given LLDP transmission capable port.	Not supported. The default is false if the port is operating in bridge mode.

IldpXdot1LocTable

About this table

This table contains one row per port for IEEE 802.1 organizationally defined LLDP extension on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1LocPortVlanId (1.0.8802.1.1.2.1.5.32962.1.2.1.1.1)	read-only	Integer32	Integer32(0 1..4094)	PPVID.	As per the MIB.

IldpXdot1LocProtoVlanTable

About this table

This table contains one or more rows per Port and Protocol VLAN information about the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocProtoVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1LocProtoVlanId (1.0.8802.1.1.2.1.5.32962.1.2.2.1.1)	not-accessible	Integer32	Integer32(0 1..4094)	Port and protocol VLAN ID.	As per the MIB.
IldpXdot1LocProtoVlanSupported (1.0.8802.1.1.2.1.5.32962.1.2.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port (associated with the local system) supports port and protocol VLANs.	As per the MIB.
IldpXdot1LocProtoVlanEnabled (1.0.8802.1.1.2.1.5.32962.1.2.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the port and protocol VLANs are enabled on the given port associated with the local system.	As per the MIB.

IldpXdot1LocVlanNameTable

About this table

This table contains one or more rows of VLAN name information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.2.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1LocVlanId	not-accessible	VlanId	Standard MIB	ID of the VLAN to which the port	As per the MIB.

(1.0.8802.1.1.2.1.5.32962.1.2.3.1.1)			values.	belongs.	
IldpXdot1LocVlanName (1.0.8802.1.1.2.1.5.32962.1.2.3.1.2)	read-only	SnmpAdminString	OCTET STRING (1..32)	VLAN name identified by the VLAN ID associated with the given port on the local system.	As per the MIB.

IldpXdot1LocProtocolTable

About this table

This table contains one or more rows per protocol identity information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are IldpLocPortNum and IldpXdot1LocProtocolIndex.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.2.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1LocProtocolIndex (1.0.8802.1.1.2.1.5.32962.1.2.4.1.1)	not-accessible	Integer32	Integer32(1..2147483647)	Protocol index.	Not supported. The value is 1 if the port is operating in bridge mode.

IldpXdot1RemTable

About this table

This table contains one or more rows per physical network connection.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1RemPortVlanId (1.0.8802.1.1.2.1.5.32962.1.3.1.1)	read-only	Integer32	Integer32(0 1..4094)	PVID of the given port on a neighboring	As per the MIB.

5.32962.1.3.1.1.1)				device.	
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IldpXdot1RemProtoVlanTable

About this table

This table contains one or more rows per port and protocol VLAN information about the neighboring devices received on the given port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, and IldpXdot1RemProtoVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1RemProtoVlanId (1.0.8802.1.1.2.1.5.32962.1.3.2.1.1)	not-accessible	Integer32	Integer32(0 1..4094)	Port and protocol VLAN ID of the given port on a neighboring device.	As per the MIB.
IldpXdot1RemProtoVlanSupported (1.0.8802.1.1.2.1.5.32962.1.3.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port on the neighboring device supports port and protocol VLANs.	As per the MIB.
IldpXdot1RemProtoVlanEnabled (1.0.8802.1.1.2.1.5.32962.1.3.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the port and protocol VLANs are enabled for the given port on the neighboring device.	As per the MIB.

IldpXdot1RemVlanNameTable

About this table

This table contains one or more rows per IEEE 802.1Q VLAN name information about the neighboring devices, received on the given port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, IldpXdot1RemVlanId.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.3.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1RemVlanId (1.0.8802.1.1.2.1.5.32962.1.3.3.1.1)	not-accessible	VlanId	Standard MIB values.	ID of the VLAN to which the given port on a neighboring device belongs.	As per the MIB.
IldpXdot1RemVlanName (1.0.8802.1.1.2.1.5.32962.1.3.3.1.2)	read-only	SnmpAdminString	OCTET STRING (1..32)	VLAN name identified by the VLAN ID on the neighboring device.	As per the MIB.

IldpXdot1RemProtocolTable

About this table

This table contains one or more rows per protocol information about the neighbor, received on the given port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, IldpXdot1RemProtocolIndex.

The table OID is 1.0.8802.1.1.2.1.5.32962.1.3.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1RemProtocolIndex (1.0.8802.1.1.2.1.5.32962.1.3.4.1.1)	not-accessible	Integer32	Integer32(1..2147483647)	Protocol index.	As per the MIB.
IldpXdot1RemProtocolId (1.0.8802.1.1.2.1.5.32962.1.3.4.1.2)	read-only	OCTET STRING	OCTET STRING (1..255)	ID of the protocol associated with the given port of a neighboring device.	As per the MIB.

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LLDP-EXT-DOT1-V2-MIB

About this MIB

LLDP facilitates network management to discover and use network physical topology in a standard way, and enables network management to discover configuration inconsistencies or errors that affect the upper-layer applications. Although H3C products already support the LLDP 2009 version, they still use the MIBs of the LLDP 2005 version.

The MIB of the LLDP 2009 version is also referred to as LLDP-V2-MIB. This MIB is a standard public MIB, which contains LLDP configuration, LLDP statistics, local LLDP information, neighboring LLDP information, and IEEE 802.1 extended configuration, DCBX extended configuration, IEEE 802.3 extended configuration. The CNP extended configuration is not supported in Comware V700R001.

MIB file name

lldp-ext-dot1-v2.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbers-series-standards(2).lan-man-stds(802).ieee802dot1(1).ieee802dot1mibs(1).lldpV2MIB(13).lldpV2Objects(1).lldpV2Extensions(5).lldpV2Xdot1MIB(32962)

This MIB is the LLDP Management Information Base extension module for IEEE 802.1 organizationally defined discovery information.

Tabular objects

lldpV2Xdot1ConfigPortVlanTable

About this table

This table controls selection of LLDP port VLAN TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are lldpV2PortConfigIfIndex and lldpV2PortConfigDestAddressIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2Xdot1ConfigPortVlanTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.1.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the port VLAN TLV transmission is enabled on a given LLDP transmission capable port.	The default is true for the following agents: Nearest bridge agents and nearest customer bridge agents on the Layer 2 Ethernet interfaces. Nearest customer bridge agents on

					Layer 2 aggregate interfaces.
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IldpV2Xdot1ConfigVlanNameTable

About this table

This table controls selection of LLDP VLAN name TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1ConfigVlanNameTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.2.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the agents on the ports of the device can send VLAN name TLVs.	By default, the value is 0 and the status is FALSE. If this object is set to TRUE, the VLAN with the minimum VLAN ID is enabled. To delete an enabled VLAN, set the VLAN status to FALSE. Only one VLAN name TLV is supported in an LLDP packet. As a best practice, do not perform the walk operation from the MIB browser, because it takes a long time to walk through all ports and VLANs.

IldpV2Xdot1ConfigProtoVlanTable

About this table

This table controls selection of LLDP port and protocol VLAN ID TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocProtoVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1ConfigProtoVlanTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.3.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the transmission of port and protocol VLAN ID TLVs is enabled on a given LLDP transmission capable port.	By default, the value is 0 and the status is FALSE. If this object is set to TRUE, the VLAN with the minimum VLAN ID is enabled. To delete an enabled VLAN, set the VLAN status to FALSE. Only one protocol VLAN TLV is supported in an LLDP packet. As a best practice, do not perform the walk operation from the MIB browser, because it takes a long time to scan all ports and VLANs.

IldpV2Xdot1ConfigProtocolTable

About this table

This table controls selection of LLDP protocol identity TLV instances to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocProtocolIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1ConfigProtocolTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.4.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the agents on the ports of the device can send protocol identity TLVs.	Not supported.

IldpV2Xdot1ConfigVidUsageDigestTable

About this table

This table controls selection of LLDP VID usage digest TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.5.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1ConfigVidUsageDigestTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.5.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the agents on the ports of the device can send VID usage digest TLVs.	Not supported.

IldpV2Xdot1ConfigManVidTable

About this table

This table controls selection of management VID TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.1.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1ConfigManVidTxEnable (1.3.111.2.802.1.1.13.1.5.32962.1.1.6.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the management VID TLV transmission is enabled on a given LLDP transmission capable port.	As per the MIB.

IldpV2Xdot1LocTable

About this table

This table contains local VLAN ID information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocPortVlanId (1.3.111.2.802.1.1.13.1.5.32962.1.2.1.1.1)	read-only	Unsigned32	Unsigned32(0 1..4094)	Local VLAN ID.	As per the MIB.

IldpV2Xdot1LocProtoVlanTable

About this table

This table contains information about local port and protocol VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocProtoVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocProtoVlanId (1.3.111.2.802.1.1.13.1.5.32962.1.2.2.1.1)	not-accessible	Unsigned32	Unsigned32(0 1..4094)	Port and protocol VLAN ID.	As per the MIB.
IldpV2Xdot1LocProtoVlanSupported (1.3.111.2.802.1.1.13.1.5.32962.1.2.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the given local port supports port and protocol VLANs.	As per the MIB.
IldpV2Xdot1LocProtoVlanEnabled (1.3.111.2.802.1.1.13.1.5.32962.1.2.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the port and protocol VLANs are enabled on the given local port.	As per the MIB.

IldpV2Xdot1LocVlanNameTable

About this table

This table contains information about VLAN names on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocVlanId (1.3.111.2.802.1.1.13.1.5.32962.1.2.3.1.1)	not-accessible	VlanId	Standard MIB values.	ID of the VLAN to which the port belongs.	As per the MIB.
IldpV2Xdot1LocVlanName (1.3.111.2.802.1.1.13.1.5.32962.1.2.3.1.2)	read-only	SnmpAdminString	OCTET STRING (1..32)	VLAN name identified by the VLAN ID associated with the given local port.	As per the MIB.

IldpV2Xdot1LocProtocolTable

About this table

This table contains protocol identity information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpV2Xdot1LocProtocolIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocProtocolIndex (1.3.111.2.802.1.1.13.1.5.32962.1.2.4.1.1)	not-accessible	Unsigned32	Unsigned32(1..2147483647)	Protocol index.	Not supported.
IldpV2Xdot1LocProtocolId (1.3.111.2.802.1.1.13.1.5.32962.1.2.4.1.2)	read-only	OCTET STRING	OCTET STRING (1..255)	IDs of the protocols associated with	Not supported.

.13.1.5.32962.1.2.4.1.2)				the given port.	
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IldpV2Xdot1LocManVidTable

About this table

This table contains management TLV information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocManVid (1.3.111.2.802.1.1.13.1.5.32962.1.2.6.1.1)	read-only	Unsigned32	Unsigned32(0 1..4094)	Local management TLV information.	As per the MIB.

IldpV2Xdot1LocLinkAggTable

About this table

This table contains link aggregation information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.2.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1LocLinkAggStatus (1.3.111.2.802.1.1.13.1.5.32962.1.2.7.1.1)	read-only	IldpV2LinkAggStatusMap	Standard MIB values.	The link aggregation capabilities and the current aggregation status of the system.	As per the MIB.
IldpV2Xdot1LocLinkAggPortId (1.3.111.2.802.1.1.13.1.5.32962.1.2.7.1.2)	read-only	Unsigned32	Unsigned32(0 1..2147483647)	Aggregate interface ID.	As per the MIB.

.13.1.5.32962.1.2.7.1.2)					
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IldpV2Xdot1RemTable

About this table

This table contains information about physical network connections.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemPortVlanId (1.3.111.2.802.1.1.13.1.5.32962.1.3.1.1.1)	read-only	Unsigned32	Unsigned32(0 1..4094)	PVID of the given port on a neighboring device.	As per the MIB.

IldpV2Xdot1RemProtoVlanTable

About this table

This table contains port and protocol VLAN information about the neighboring devices, received on the given port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpV2Xdot1RemProtoVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemProtoVlanId (1.3.111.2.802.1.1.13.1.5.32962.1.3.2.1.1)	not-accessible	Unsigned32	Unsigned32(0 1..4094)	Port and protocol VLAN ID of a neighboring device.	As per the MIB.
IldpV2Xdot1RemProtoVlanSupport	read-only	TruthValue	true(1),	Indicates whether the given port of	As per the MIB.

d (1.3.111.2.802.1.1 .13.1.5.32962.1.3. 2.1.2)			false(2)	the neighboring device supports port and protocol VLANs.	
IldpV2Xdot1RemP rotoVlanEnabled (1.3.111.2.802.1.1 .13.1.5.32962.1.3. 2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether port and protocol VLANs are enabled on the given port of the neighboring device.	As per the MIB.

IldpV2Xdot1RemVlanNameTable

About this table

This table contains information about VLAN names on the ports of the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpV2Xdot1RemVlanId.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemV lanId (1.3.111.2.802.1.1 .13.1.5.32962.1.3. 3.1.1)	not-accessible	VlanId	Standard MIB values.	ID of the VLAN to which a port on a neighboring device belongs.	As per the MIB.
IldpV2Xdot1RemV lanName (1.3.111.2.802.1.1 .13.1.5.32962.1.3. 3.1.2)	read-only	SnmpAdminString	OCTET STRING (1..32)	VLAN name identified by the VLAN ID associated with the neighboring device.	As per the MIB.

IldpV2Xdot1RemProtocolTable

About this table

This table contains neighboring protocol information received on the given port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpV2Xdot1RemProtocolIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemProtocolIndex (1.3.111.2.802.1.1.13.1.5.32962.1.3.4.1.1)	not-accessible	Unsigned32	Unsigned32(1..2147483647)	Protocol index.	As per the MIB.
IldpV2Xdot1RemProtocolId (1.3.111.2.802.1.1.13.1.5.32962.1.3.4.1.2)	read-only	OCTET STRING	OCTET STRING (1..255)	IDs of the protocols associated with the ports of the neighboring devices.	As per the MIB.

IldpV2Xdot1RemVidUsageDigestTable

About this table

This table contains VID usage information of the agents on the ports of the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, and IldpV2RemLocalDestMACAddress.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.5.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemVidUsageDigest (1.3.111.2.802.1.1.13.1.5.32962.1.3.5.1.1)	read-only	Unsigned32	Standard MIB values.	VID usage information on the given port of a neighboring device.	As per the MIB.

IldpV2Xdot1RemManVidTable

About this table

This table contains management VLAN information received from the neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, and IldpV2RemLocalDestMACAddress.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemManVid (1.3.111.2.802.1.1.13.1.5.32962.1.3.6.1.1)	read-only	Unsigned32	Unsigned32(0 1..4094)	Management VLAN information on the given port of a neighboring device.	As per the MIB.

IldpV2Xdot1RemLinkAggTable

About this table

This table contains port link aggregation information of the agents on the ports of the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.1.3.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot1RemLinkAggStatus (1.3.111.2.802.1.1.13.1.5.32962.1.3.7.1.1)	read-only	IldpV2LinkAggStatusMap	Standard MIB values.	Link aggregation capabilities and current aggregation status of a neighboring device.	As per the MIB.
IldpV2Xdot1RemLinkAggPortId (1.3.111.2.802.1.1.13.1.5.32962.1.3.7.1.2)	read-only	Unsigned32	Unsigned32(0 1..2147483647)	Aggregate interface ID.	As per the MIB.

IldpXdot1dcbxConfigETSTConfigurationTable

About this table

The table controls selection of ETS configuration TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex .

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxConfigETSTransmissionTxEnable (1.3.111.2.802.1.1.13.1.5.32962.5.1.1.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the ETS Configuration TLV transmission is enabled on the agents of a given LLDP transmission capable port.	The configuration for this object also applies to the following objects: IldpXdot1dcbxConfigETSTransmissionTxEnable, IldpXdot1dcbxConfigPFCTxEnable, and IldpXdot1dcbxConfigApplicationPriorityTxEnable.

IldpXdot1dcbxConfigETSTransmissionTable

About this table

The table controls selection of ETS recommendation TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxConfigETSTransmissionTxEnable (1.3.111.2.802.1.1.13.1.5.32962.5.1.1.2.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the ETS recommendation TLV transmission is enabled on the agents of a given LLDP transmission capable port.	The configuration for this object also applies to the following objects: IldpXdot1dcbxConfigETSTransmissionTxEnable, IldpXdot1dcbxConfigPFCTxEnable, and IldpXdot1dcbxConfigApplicationPriorityTxEnable.

IldpXdot1dcbxConfigPFCTable

About this table

The table controls selection of priority-based Flow Control TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxConfigPFCTxEnable (1.3.111.2.802.1.1.13.1.5.32962.5.1.1.3.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the Flow Control TLV transmission is enabled on the agents of a given LLDP transmission capable port.	The configuration for this object also applies to the following objects: IldpXdot1dcbxConfigETSTransmissionTxEnable, IldpXdot1dcbxConfigETSTransmissionTxEnable, IldpXdot1dcbxConfigApplicationPriorityTxEnable, and IldpXdot1dcbxConfigApplicationPriorityTxEnable.

IldpXdot1dcbxConfigApplicationPriorityTable

About this table

The table configures the transmission of the Application Priority TLV on a set of ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxCon figApplicationPrior ityTxEnable (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 1.4.1.1)	read-write	TruthValue	true(1), false(2)	Indicates whether the Application Priority TLV transmission is enabled on the agents of a given LLDP transmission capable port.	The configuration for this object also applies to the following objects: IldpXdot1dcbxCon figETSTransmission TxEnable, IldpXdot1dcbxCon figETSTransmission TxEnable, and IldpXdot1dcbxCon figPFCTxEnable.

IldpXdot1dcbxLocETSTBasicConfigurationTable

About this table

This table contains information about ETS configuration TLVs on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLoc ETSTConCreditBas edShaperSupport (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 2.1.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates if the credit-based shaper traffic selection algorithm is supported on the local system.	As per the MIB.
IldpXdot1dcbxLoc ETSTConTrafficCla ssesSupported (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 2.1.1.1.2)	read-only	IldpXdot1dcbxSu pportedCapacity	Standard MIB values.	Indicates the supported capacity of a given feature.	As per the MIB.
IldpXdot1dcbxLoc ETSTConWilling (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 2.1.1.1.3)	read-only	TruthValue	true(1), false(2)	Indicates if the local system is willing to accept the ETS configuration recommended by a neighboring device.	As per the MIB.

IldpXdot1dcbxLocETSConPriorityAssignmentTable

About this table

This table contains one row per priority. The entry in each row indicates the traffic class to which the priority is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocETSConPriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSConPriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.2.1.1)	not-accessible	IEEE8021PriorityValue	Standard MIB values.	Indicates the priority that is assigned to a traffic class.	As per the MIB.
IldpXdot1dcbxLocETSConPriTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.2.1.2)	read-only	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this priority is to be assigned.	As per the MIB.

IldpXdot1dcbxLocETSConTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocETSConTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSConTrafficClasses (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.3.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSTrafficClassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.3.1.2)	read-only	IldpXdot1dcbxTrafficClassBandwidthValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	As per the MIB.

IldpXdot1dcbxLocETSTrafficSelectionAlgorithmTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocETSTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.4.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
IldpXdot1dcbxLocETSTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.1.4.1.2)	read-only	IldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	As per the MIB.

IldpXdot1dcbxLocETSTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocETSRecoTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSRecoTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
IldpXdot1dcbxLocETSRecoTrafficClassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.1.1.2)	read-only	IldpXdot1dcbxTrafficClassBandwidthValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	As per the MIB.

IldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmTable

About this table

This table contains one row per priority. The entry in each row indicates the traffic selection algorithm to be used by the traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocETSRecoTSATrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocETSRecoTSATrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.2.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
IldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.2.2.1.2)	read-only	IldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	As per the MIB.

IldpXdot1dcbxLocPFCBasicTable

About this table

This table contains information about local PFC TLVs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocPFCWilling (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.1.1)	read-only	TruthValue	true(1), false(2)	Indicates if the local system is willing to accept the PFC configuration of a neighboring device.	As per the MIB.
IldpXdot1dcbxLocPFCMBC (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.1.2)	read-only	TruthValue	true(1), false(2)	Indicates if the local system is capable of bypassing MACsec processing when MACsec is disabled.	As per the MIB.
IldpXdot1dcbxLocPFCCap (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.1.3)	read-only	IldpXdot1dcbxSupportedCapacity	Standard MIB values.	Indicates the number of traffic classes on the local device that might simultaneously have PFC enabled.	As per the MIB.

IldpXdot1dcbxLocPFCEnableTable

About this table

This table indicates if PFC is enabled on the corresponding priority on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxLocPFCEnablePriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocPFCEnablePriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.2.1.1)	not-accessible	IEEE8021Priority Value	Standard MIB values.	Priority for which PFC is enabled or disabled.	As per the MIB.
IldpXdot1dcbxLocPFCEnableEnabled (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.3.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates if PFC is enabled on the corresponding priority.	As per the MIB.

IldpXdot1dcbxLocApplicationPriorityAppTable

About this table

This table contains entries that indicate the priority to be used for a given application.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex, IldpXdot1dcbxLocApplicationPriorityAESelector, and IldpXdot1dcbxLocApplicationPriorityAEProtocol.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.2.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxLocApplicationPriorityAESelector (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.4.1.1)	not-accessible	IldpXdot1dcbxAppSelector	Standard MIB values.	Protocol object index.	As per the MIB.
IldpXdot1dcbxLocApplicationPriorityAEProtocol (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.4.1.2)	not-accessible	IldpXdot1dcbxAppProtocol	Standard MIB values.	Protocol ID index.	If the DCBX protocol version is the pre-standard version 1.0, the value of this object is fixed at 35078.
IldpXdot1dcbxLocApplicationPriorityAEPriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.2.4.1.3)	read-only	IEEE8021Priority Value	Standard MIB values.	The priority code point that should be used in frames transporting the specified protocol.	As per the MIB.

IldpXdot1dcbxRemETSTBasicConfigurationTable

About this table

This table contains information about ETS configuration TLVs on the neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemETSTConCreditBasedShaperSupport (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates if the credit-based shaper traffic selection algorithm is supported on a neighboring device.	As per the MIB.
IldpXdot1dcbxRemETSTConTrafficClassesSupported (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.1.2)	read-only	IldpXdot1dcbxSupportedCapacity	Standard MIB values.	Indicates the number of traffic classes supported.	As per the MIB.
IldpXdot1dcbxRemETSTConWilling (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.1.3)	read-only	TruthValue	true(1), false(2)	Indicates if the remote system is willing to accept the ETS configuration recommended by the neighboring device.	As per the MIB.

IldpXdot1dcbxRemETSTConPriorityAssignmentTable

About this table

This table contains one row per priority. The entry in each row indicates the traffic class to which the priority is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpXdot1dcbxRemETSConPriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemETSConPriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.2.1.1)	not-accessible	IEEE8021Priority Value	Standard MIB values.	Indicates the priority that is assigned to a traffic class.	As per the MIB.
IldpXdot1dcbxRemETSConPriTraffi cClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.2.1.2)	read-only	IldpXdot1dcbxTra fficClassValue	Standard MIB values.	Indicates the traffic class to which this priority is to be assigned.	As per the MIB.

IldpXdot1dcbxRemETSConTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpXdot1dcbxRemETSConTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemETSConTrafficC lass (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.3.1.1)	not-accessible	IldpXdot1dcbxTra fficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
IldpXdot1dcbxRemETSConTrafficC lassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.3.1.2)	read-only	IldpXdot1dcbxTra fficClassBandwid thValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	As per the MIB.

IldpXdot1dcbxRemETSTrafficSelectionAlgorithmTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpXdot1dcbxRemETSTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemETSTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.4.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class that is assigned to a traffic selection algorithm.	As per the MIB.
IldpXdot1dcbxRemETSTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.1.4.1.2)	read-only	IldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	As per the MIB.

IldpXdot1dcbxRemETSRecoTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpXdot1dcbxRemETSRecoTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemETSRecoTrafficClass	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.1.1.1)				bandwidth applies.	
lldpXdot1dcbxRemETSRcoTrafficClassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.1.1.2)	read-only	LldpXdot1dcbxTrafficClassBandwidthValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	As per the MIB.

lldpXdot1dcbxRemETSRcoTrafficSelectionAlgorithmTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the priority.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2RemTimeMark, lldpV2RemLocalIfIndex, lldpV2RemLocalDestMACAddress, lldpV2RemIndex, and lldpXdot1dcbxRemETSRcoTSATrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxRemETSRcoTSATrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.2.1.1)	not-accessible	LldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class that is assigned to a traffic selection algorithm.	As per the MIB.
lldpXdot1dcbxRemETSRcoTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.2.2.1.2)	read-only	LldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	As per the MIB.

lldpXdot1dcbxRemPFCBasicTable

About this table

This table contains information about PFC TLVs on the neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are lldpV2RemTimeMark, lldpV2RemLocalIfIndex, lldpV2RemLocalDestMACAddress, and lldpV2RemIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxRemPFCWilling (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.3.1.1)	read-only	TruthValue	true(1), false(2)	Indicates if a neighboring device is willing to accept the PFC configuration of the local system.	As per the MIB.
lldpXdot1dcbxRemPFCMBC (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.3.1.2)	read-only	TruthValue	true(1), false(2)	Indicates if a neighboring device is capable of bypassing MACsec processing when MACsec is disabled.	As per the MIB.
lldpXdot1dcbxRemPFCCap (1.3.111.2.802.1.1.13.1.5.32962.5.1.3.3.1.3)	read-only	lldpXdot1dcbxSupportedCapacity	Standard MIB values.	Indicates the number of traffic classes on the neighboring device that might simultaneously have PFC enabled.	As per the MIB.

lldpXdot1dcbxRemPFCEnableTable

About this table

This table indicates if PFC is enabled on the corresponding priority on the neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2RemTimeMark, lldpV2RemLocalIfIndex, lldpV2RemLocalDestMACAddress, lldpV2RemIndex, and lldpXdot1dcbxRemPFCEnablePriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxRemPFCEnablePriority	not-accessible	IEEE8021Priority Value	Standard MIB values.	Priority for which PFC is enabled or	As per the MIB.

ity (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 3.3.2.1.1)				disabled.	
IldpXdot1dcbxRemPFCEnableEnabled (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 3.3.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates if PFC is enabled on the corresponding priority.	As per the MIB.

IldpXdot1dcbxRemApplicationPriorityAppTable

About this table

This table contains entries that indicate the priority to be used for a given application.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, IldpXdot1dcbxRemApplicationPriorityAESelector, and IldpXdot1dcbxRemApplicationPriorityAEProtocol.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.3.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxRemApplicationPriorityAESelector (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 3.4.1.1)	not-accessible	IldpXdot1dcbxAppSelector	Standard MIB values.	Protocol object index.	As per the MIB.
IldpXdot1dcbxRemApplicationPriorityAEProtocol (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 3.4.1.2)	not-accessible	IldpXdot1dcbxAppProtocol	Standard MIB values.	Protocol ID index.	As per the MIB.
IldpXdot1dcbxRemApplicationPriorityAEPriority (1.3.111.2.802.1.1 .13.1.5.32962.5.1. 3.4.1.3)	read-only	IEEE8021PriorityValue	Standard MIB values.	The priority code point that should be used in frames transporting the specified protocol.	As per the MIB.

IldpXdot1dcbxAdminETSTBasicConfigurationTable

About this table

This table contains information about ETS configuration TLV configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is lldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxAdminETSConCreditBasedShaperSupport (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates if the credit-based shaper traffic selection algorithm is supported.	As per the MIB.
lldpXdot1dcbxAdminETSConTrafficClassesSupported (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.1.1.2)	read-only	lldpXdot1dcbxSupportedCapacity	Standard MIB values.	Indicates the number of traffic classes supported.	As per the MIB.
lldpXdot1dcbxAdminETSConWillin g (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.1.1.3)	read-write	TruthValue	true(1), false(2)	Indicates if the local system is willing to accept the ETS configuration recommended by the remote system.	Supports only the read operation.

lldpXdot1dcbxAdminETSConPriorityAssignmentTable

About this table

This table contains one row per priority. The entry in each row indicates the traffic class to which the priority is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2LocPortIfIndex and lldpXdot1dcbxAdminETSConPriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxAdminETSConPriority (1.3.111.2.802.1.1	not-accessible	IEEE8021Priority Value	Standard MIB values.	Indicates the priority that is assigned to a traffic class.	As per the MIB.

.13.1.5.32962.5.1.4.1.2.1.1)					
lldpXdot1dcbxAdminETSTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.2.1.2)	read-write	LldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this priority is to be assigned.	Supports only the read operation.

lldpXdot1dcbxAdminETSTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are lldpV2LocPortIfIndex and lldpXdot1dcbxAdminETSTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot1dcbxAdminETSTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.3.1.1)	not-accessible	LldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
lldpXdot1dcbxAdminETSTrafficClassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.3.1.2)	read-write	LldpXdot1dcbxTrafficClassBandwidthValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	Supports only the read operation.

lldpXdot1dcbxAdminETSTrafficSelectionAlgorithmTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the priority.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxAdminETSTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminETSTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.4.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class that is assigned to a traffic selection algorithm.	As per the MIB.
IldpXdot1dcbxAdminETSTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.1.4.1.2)	read-write	IldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	Supports only the read operation.

IldpXdot1dcbxAdminETSRecoTrafficClassBandwidthTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic class to which the bandwidth is assigned.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxAdminETSRecoTrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminETSRecoTrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.1.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class to which this bandwidth applies.	As per the MIB.
IldpXdot1dcbxAdminETSRecoTrafficClassBandwidth (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.1.1.2)	read-write	IldpXdot1dcbxTrafficClassBandwidthValue	Standard MIB values.	Indicates the bandwidth assigned to this traffic class.	Supports only the read operation.

IldpXdot1dcbxAdminETSRcoTrafficSelectionAlgorithmTable

About this table

This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxAdminETSRcoTSATrafficClass.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminETSRcoTSATrafficClass (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.2.1.1)	not-accessible	IldpXdot1dcbxTrafficClassValue	Standard MIB values.	Indicates the traffic class that is assigned to a traffic selection algorithm.	As per the MIB.
IldpXdot1dcbxAdminETSRcoTrafficSelectionAlgorithm (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.2.2.1.2)	read-write	IldpXdot1dcbxTrafficSelectionAlgorithm	Standard MIB values.	Indicates the traffic selection algorithm to which this traffic class is to be assigned.	Supports only the read operation.

IldpXdot1dcbxAdminPFCBasicTable

About this table

This table contains information about local PFC TLV configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminPFCWilling (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.1.1.1)	read-write	TruthValue	true(1), false(2)	Indicates if the local system is willing to accept the PFC configuration of a	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				neighboring device.	
IldpXdot1dcbxAdminPFCMBC (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.1.1.2)	read-only	TruthValue	true(1), false(2)	Indicates if the local system is capable of bypassing MACsec processing when MACsec is disabled.	As per the MIB.
IldpXdot1dcbxAdminPFCap (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.1.1.3)	read-only	IldpXdot1dcbxSupportedCapacity	Standard MIB values.	Indicates the number of traffic classes on the local device that might simultaneously have PFC enabled.	As per the MIB.

IldpXdot1dcbxAdminPFCEnableTable

About this table

This table lists the configuration about whether PFC is enabled on the corresponding priority on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex and IldpXdot1dcbxAdminPFCEnablePriority.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminPFCEnablePriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.2.1.1)	not-accessible	IEEE8021PriorityValue	Standard MIB values.	Priority for which PFC is enabled or disabled.	As per the MIB.
IldpXdot1dcbxAdminPFCEnableEnabled (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.3.2.1.2)	read-write	TruthValue	true(1), false(2)	Indicates if PFC is enabled on the corresponding priority.	Supports only the read operation.

IldpXdot1dcbxAdminApplicationPriorityAppTable

About this table

This table contains entries indicating the priority to be used for a given application.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocPortIfIndex, IldpXdot1dcbxAdminApplicationPriorityAESelector, and IldpXdot1dcbxAdminApplicationPriorityAEProtocol.

The table OID is 1.3.111.2.802.1.1.13.1.5.32962.5.1.4.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot1dcbxAdminApplicationPriorityAESelector (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.4.1.1)	not-accessible	IldpXdot1dcbxAppSelector	Standard MIB values.	Protocol object index.	As per the MIB.
IldpXdot1dcbxAdminApplicationPriorityAEProtocol (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.4.1.2)	not-accessible	IldpXdot1dcbxAppProtocol	Standard MIB values.	Protocol ID index.	As per the MIB.
IldpXdot1dcbxAdminApplicationPriorityAEPriority (1.3.111.2.802.1.1.13.1.5.32962.5.1.4.4.1.3)	read-create	IEEE8021Priority Value	Standard MIB values.	The priority code point that should be used in frames transporting the specified protocol.	Supports only the read operation.

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LLDP-EXT-DOT3-MIB

About this MIB

LLDP facilitates network management to discover and use network physical topology in a standard way, and enables network management to discover configuration inconsistencies or errors that affect the upper-layer applications. H3C products support LLDP.

LLDP-EXT-DOT3-MIB is a standard public MIB, one of the four MIBs available for LLDP, which also include LLDP-MIB, LLDP-EXT-DOT1-MIB, and LLDP-MED-MIB. This MIB is the IEEE 802.3 organizationally defined neighbor discovery MIB, an extension for LLDP-MIB. This MIB contains IEEE 802.3 organizationally specific LLDP configuration, IEEE 802.3 organizationally specific local LLDP information, and IEEE 802.3 organizationally specific LLDP information received from the neighboring devices.

MIB file name

lldp-ext-dot3.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).lldpMIB(2).lldpObjects(1).lldpExtnsions(5).lldpXdot3MIB(4623)

The root object is the LLDP management information base extension module for discovery information defined by the IEEE 802.3 organization.

Tabular objects

lldpXdot3PortConfigTable

About this table

This table controls selection of LLDP TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is lldpPortConfigPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXdot3PortConfigTLVsTxEnable (1.0.8802.1.1.2.1.5.4623.1.1.1.1)	read-write	BITS	BITS {macPhyConfigStatus(0), powerViaMDI(1), linkAggregation(2), maxFrameSize(3)} }	IEEE 802.3 organizationally specific optional TLVs whose transmission is enabled on the ports.	By default, each bit is set to 1, which indicates that all IEEE 802.3 organizationally specific TLVs can be transmitted on a given port. Link aggregation

					TLVs are defined as 802.1 organizationally specific TLVs.
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IldpXdot3LocPortTable

About this table

This table contains information about 802.3 organizationally specific TLVs on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3LocPortAutoNegSupported (1.0.8802.1.1.2.1.5.4623.1.2.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates whether the given local port supports autonegotiation.	As per the MIB.
IldpXdot3LocPortAutoNegEnabled (1.0.8802.1.1.2.1.5.4623.1.2.1.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether autonegotiation is enabled on the given local port.	As per the MIB.
IldpXdot3LocPortAutoNegAdvertiseCap (1.0.8802.1.1.2.1.5.4623.1.2.1.1.3)	read-only	OCTET STRING	OCTET STRING (2)	Autonegotiation capability on the given local port.	As per the MIB.
IldpXdot3LocPortOperMauType (1.0.8802.1.1.2.1.5.4623.1.2.1.1.4)	read-only	Integer32	Integer32(0..2147483647)	Operational MAU type of the given local port.	As per the MIB.

IldpXdot3LocPowerTable

About this table

This table contains information about power supply capabilities of the local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.2.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3LocPowerPortClass (1.0.8802.1.1.2.1.5.4623.1.2.2.1.1)	read-only	IldpPowerPortClass	Standard MIB values.	Port class (PSE or PD) of the local port.	As per the MIB.
IldpXdot3LocPowerMDISupported (1.0.8802.1.1.2.1.5.4623.1.2.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is supported on the given local port.	As per the MIB.
IldpXdot3LocPowerMDIEnabled (1.0.8802.1.1.2.1.5.4623.1.2.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is enabled on the given local port.	As per the MIB.
IldpXdot3LocPowerPairControlable (1.0.8802.1.1.2.1.5.4623.1.2.2.1.4)	read-only	TruthValue	true(1), false(2)	Indicates whether the pair selection can be controlled on the given local port.	As per the MIB.
IldpXdot3LocPowerPairs (1.0.8802.1.1.2.1.5.4623.1.2.2.1.5)	read-only	Integer32	Integer32(1 2)	Current pair on the given local port.	As per the MIB.
IldpXdot3LocPowerClass (1.0.8802.1.1.2.1.5.4623.1.2.2.1.6)	read-only	Integer32	Integer32(1 2 3 4 5)	Power supply capability or power consumption on the given local port.	As per the MIB.

IldpXdot3LocLinkAggTable

About this table

This table contains information about link aggregation information on the local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.2.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3LocLinkAggStatus (1.0.8802.1.1.2.1.5.4623.1.2.3.1.1)	read-only	IldpLinkAggStatusMap	Standard MIB values.	Link aggregation capabilities and current aggregation status of the link.	As per the MIB.

IldpXdot3LocLink AggPortId (1.0.8802.1.1.2.1. 5.4623.1.2.3.1.2)	read-only	Integer32	Integer32(0 1..214 7483647)	Aggregate interface ID.	As per the MIB.
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IldpXdot3LocMaxFrameSizeTable

About this table

This table contains one row per port of maximum frame size information on the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.2.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3LocMax FrameSize (1.0.8802.1.1.2.1. 5.4623.1.2.4.1.1)	read-only	Integer32	Integer32(0..6553 5)	The maximum supported frame size on the given local port.	As per the MIB.

IldpXdot3RemPortTable

About this table

This table contains port information of the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3RemPort AutoNegSupporte d (1.0.8802.1.1.2.1. 5.4623.1.3.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port of a neighboring device supports autonegotiation.	As per the MIB.
IldpXdot3RemPort AutoNegEnabled (1.0.8802.1.1.2.1.	read-only	TruthValue	true(1), false(2)	Indicates whether autonegotiation is enabled on the	As per the MIB.

5.4623.1.3.1.1.2)				given port of the neighboring device.	
IldpXdot3RemPortAutoNegAdvertiseCap (1.0.8802.1.1.2.1.5.4623.1.3.1.1.3)	read-only	OCTET STRING	SIZE(2)	Autonegotiation capability on the given port of the neighboring device.	As per the MIB.
IldpXdot3RemPortOperMauType (1.0.8802.1.1.2.1.5.4623.1.3.1.1.4)	read-only	Integer32	Integer32(0..2147483647)	Operational MAU type of the given port of the neighboring device.	As per the MIB.

IldpXdot3RemPowerTable

About this table

This table contains power supply information of the ports on the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3RemPowerPortClass (1.0.8802.1.1.2.1.5.4623.1.3.2.1.1)	read-only	IldpPowerPortClass	Standard MIB values.	Port class (PSE or PD) of the given port on a neighboring device.	As per the MIB.
IldpXdot3RemPowerMDISupported (1.0.8802.1.1.2.1.5.4623.1.3.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port on the neighboring device supports the MDI power.	As per the MIB.
IldpXdot3RemPowerMDIEnabled (1.0.8802.1.1.2.1.5.4623.1.3.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is enabled on the given port of the neighboring device.	As per the MIB.
IldpXdot3RemPowerPairControlable (1.0.8802.1.1.2.1.5.4623.1.3.2.1.4)	read-only	TruthValue	true(1), false(2)	Indicates whether the pair selection can be controlled on the given port of the neighboring device.	As per the MIB.

IldpXdot3RemPowerPairs (1.0.8802.1.1.2.1.5.4623.1.3.2.1.5)	read-only	Integer32	Integer32(1 2)	Current pair on the given port of the neighboring device.	As per the MIB.
IldpXdot3RemPowerClass (1.0.8802.1.1.2.1.5.4623.1.3.2.1.6)	read-only	Integer32	Integer32(1 2 3 4 5)	Power supply capability or power consumption on the given port of the neighboring device.	As per the MIB.

IldpXdot3RemLinkAggTable

About this table

This table contains information about link aggregation information on the ports of the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.3.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3RemLinkAggStatus (1.0.8802.1.1.2.1.5.4623.1.3.3.1.1)	read-only	IldpLinkAggStatusMap	Standard MIB values.	Link aggregation capabilities and current aggregation status of the link.	As per the MIB.
IldpXdot3RemLinkAggPortId (1.0.8802.1.1.2.1.5.4623.1.3.3.1.2)	read-only	Integer32	Integer32(0 1..2147483647)	Aggregate interface ID on the neighboring devices.	As per the MIB.

IldpXdot3RemMaxFrameSizeTable

About this table

This table contains one row per port of maximum frame size information on the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4623.1.3.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXdot3RemMax FrameSize (1.0.8802.1.1.2.1. 5.4623.1.3.4.1.1)	read-only	Integer32	Integer32(0..6553 5)	The maximum supported frame size on the given port of the neighboring device.	As per the MIB.

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LLDP-EXT-DOT3-V2-MIB

About this MIB

This MIB is the LLDP management information base extension module for discovery information defined by the IEEE 802.3 organization.

LLDP facilitates network management to discover and use network physical topology in a standard way, and enables network management to discover configuration inconsistencies or errors that affect the upper-layer applications. Although H3C products support the LLDP 2009 version, they still use the MIBs of the LLDP 2005 version.

The MIB of the LLDP 2009 version is also referred to as LLDP-V2-MIB. This MIB is a standard public MIB, which contains LLDP configuration, LLDP statistics, local LLDP information, neighboring LLDP information, and IEEE 802.1 extended configuration, DCBX extended configuration, and IEEE 802.3 extended configuration. The CNP extended configuration is not supported in Comware V700R001.

MIB file name

lldp-ext-dot3-v2.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbers-series-standards(2).lan-man-stds(802).ieee802dot1(1).ieee802dot1mibs(1).lldpV2MIB(13).lldpV2Objects(1).lldpV2Extensions(5).lldpV2Xdot3MIB(4623)

Tabular objects

lldpV2Xdot3PortConfigTable

About this table

This table controls selection of LLDP TLVs to be transmitted on individual ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are lldpV2PortConfigIfIndex and lldpV2PortConfigDestAddressIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2Xdot3PortConfigTLVsTxEnable (1.3.111.2.802.1.1.13.1.5.4623.1.1.1.1.1)	read-write	BITS	BITS{macPhyConfigStatus(0), powerViaMDI(1), unused(2), maxFrameSize(3)}	IEEE 802.3 organizationally specific optional TLVs whose transmission is enabled on the ports.	By default, each bit is set to 1 on the nearest bridge agents of Layer 2 and Layer 3 Ethernet ports. It indicates that all IEEE 802.3 organizationally specific TLVs can be transmitted on a given port.

					Link aggregation TLVs no longer belong to the 802.3 organizationally specific TLV set, and the bit for unused(2) will not be set for these TLVs.
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IldpV2Xdot3LocPortTable

About this table

This table contains 802.3 extended information on the local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3LocPortAutoNegSupported (1.3.111.2.802.1.1.13.1.5.4623.1.2.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates whether the given local port supports autonegotiation.	As per the MIB.
IldpV2Xdot3LocPortAutoNegEnabled (1.3.111.2.802.1.1.13.1.5.4623.1.2.1.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether autonegotiation is enabled on the given local port.	As per the MIB.
IldpV2Xdot3LocPortAutoNegAdvertisedCap (1.3.111.2.802.1.1.13.1.5.4623.1.2.1.1.3)	read-only	OCTET STRING	OCTET STRING (2)	Autonegotiation capability on the given local port.	As per the MIB.
IldpV2Xdot3LocPortOperMauType (1.3.111.2.802.1.1.13.1.5.4623.1.2.1.1.4)	read-only	Unsigned32	Unsigned32(0~2147483647)	Operational MAU type of the given local port.	As per the MIB.

IldpV2Xdot3LocPowerTable

About this table

This table contains information about power supply capabilities of the local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3LocPowerPortClass (1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.1)	read-only	IldpV2PowerPortClass	Standard MIB values.	Port class (PSE or PD) of the given local port.	As per the MIB.
IldpV2Xdot3LocPowerMDISupported (1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is supported on the given local port.	As per the MIB.
IldpV2Xdot3LocPowerMDIEnabled(1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is enabled on the given local port.	As per the MIB.
IldpV2Xdot3LocPowerPairControlable (1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.4)	read-only	TruthValue	true(1), false(2)	Indicates whether the pair selection can be controlled on the given local port.	As per the MIB.
IldpV2Xdot3LocPowerPairs (1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.5)	read-only	Unsigned32	Unsigned32(1 2)	Current pair on the given local port.	As per the MIB.
IldpV2Xdot3LocPowerClass (1.3.111.2.802.1.1.13.1.5.4623.1.2.2.1.6)	read-only	Unsigned32	Unsigned32(1 2 3 4 5)	Power supply capability or power consumption on the given local port.	As per the MIB.

IldpV2Xdot3LocMaxFrameSizeTable

About this table

This table contains one row per port of maximum frame size information on the local device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3LocMaxFrameSize (1.3.111.2.802.1.1.13.1.5.4623.1.2.3.1.1)	read-only	Unsigned32	Unsigned32(0..65535)	The maximum supported frame size on the given local port.	As per the MIB.

IldpV2Xdot3RemPortTable

About this table

This table contains port information on the given port of a neighboring device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3RemPortAutoNegSupported (1.3.111.2.802.1.1.13.1.5.4623.1.3.1.1.1)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port on the neighboring device supports autonegotiation.	As per the MIB.
IldpV2Xdot3RemPortAutoNegEnabled (1.3.111.2.802.1.1.13.1.5.4623.1.3.1.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether autonegotiation is enabled on the given port of the neighboring device.	As per the MIB.
IldpV2Xdot3RemPortAutoNegAdvertisedCap (1.3.111.2.802.1.1.13.1.5.4623.1.3.1.1.3)	read-only	OCTET STRING	OCTET STRING (2)	Autonegotiation capability on the given port of the neighboring device.	As per the MIB.
IldpV2Xdot3RemPortOperMauType (1.3.111.2.802.1.1.13.1.5.4623.1.3.1.1.4)	read-only	Unsigned32	Unsigned32(0..2147483647)	Operational MAU type of the given port of the neighboring device.	As per the MIB.

IldpV2Xdot3RemPowerTable

About this table

This table contains information about power supply capabilities of the ports on the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3RemPowerPortClass (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.1)	read-only	IldpV2PowerPort Class	Standard MIB values.	Port class (PSE or PD) of the given port of a neighboring device.	As per the MIB.
IldpV2Xdot3RemPowerMDISupported (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.2)	read-only	TruthValue	true(1), false(2)	Indicates whether the given port on the neighboring device supports the MDI power.	As per the MIB.
IldpV2Xdot3RemPowerMDIEnabled (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.3)	read-only	TruthValue	true(1), false(2)	Indicates whether the MDI power is enabled on the given port of the neighboring device.	As per the MIB.
IldpV2Xdot3RemPowerPairControllable (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.4)	read-only	TruthValue	true(1), false(2)	Indicates whether the pair selection can be controlled on the given port of the neighboring device.	As per the MIB.
IldpV2Xdot3RemPowerPairs (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.5)	read-only	Unsigned32	Unsigned32(1 2)	Current pair on the given port of the neighboring device.	As per the MIB.
IldpV2Xdot3RemPowerClass (1.3.111.2.802.1.1.13.1.5.4623.1.3.2.1.6)	read-only	Unsigned32	Unsigned32(1 2 3 4 5)	Power supply capability or power consumption on the given port of the neighboring device.	As per the MIB.

IldpV2Xdot3RemMaxFrameSizeTable

About this table

This table contains one row per port of maximum frame size information on the neighboring devices.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2Xdot3Rem MaxFrameSize (1.3.111.2.802.1.1 .13.1.5.4623.1.3.3 .1.1)	read-only	Unsigned32	Unsigned32(0..65 535)	The maximum supported frame size on the given port of a neighboring device.	As per the MIB.

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LLDP-EXT-MED-MIB

About this MIB

Use this MIB to obtain TIA-TR41.4 Media Endpoint Discovery (MED) information.

MIB file name

lldp-ext-med.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).lldpMIB(2).lldpObjects(1).lldpExtnesions(5).lldpXM
edMIB(4795)

Scalar objects

lldpXMedLocDeviceClass

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXMedLocDevi ceClass (1.0.8802.1.1.2.1. 5.4795.1.1.1)	read-only	LldpXMedDevice Class	Standard MIB values.	MED device class.	As per the MIB.

lldpXMedFastStartRepeatCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXMedFastStart RepeatCount (1.0.8802.1.1.2.1. 5.4795.1.1.3)	read-write	Unsigned32	Unsigned32 (1..8)	Number of times the fast start LLDPDU are being sent.	As per the MIB.

lldpXMedLocHardwareRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXMedLocHard wareRev (1.0.8802.1.1.2.1. 5.4795.1.2.2)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local hardware revision.	As per the MIB.

lldpXMedLocFirmwareRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXMedLocFirm	read-only	SnmpAdminString	OCTET STRING	Local firmware	As per the MIB.

wareRev (1.0.8802.1.1.2.1. 5.4795.1.2.3)			(0..32)	revision.	
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IldpXMedLocSoftwareRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocSoftwareRev (1.0.8802.1.1.2.1. 5.4795.1.2.4)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local software revision.	As per the MIB.

IldpXMedLocSerialNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocSerialNum (1.0.8802.1.1.2.1. 5.4795.1.2.5)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local serial number.	As per the MIB.

IldpXMedLocMfgName

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocMfgName (1.0.8802.1.1.2.1. 5.4795.1.2.6)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local manufacturer name.	As per the MIB.

IldpXMedLocModelName

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocModelName (1.0.8802.1.1.2.1. 5.4795.1.2.7)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local model name.	As per the MIB.

IldpXMedLocAssetID

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocAssetID (1.0.8802.1.1.2.1. 5.4795.1.2.8)	read-only	SnmpAdminString	OCTET STRING (0..32)	Local asset tracking identifier.	As per the MIB.

IldpXMedLocXPoEDeviceType

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpxMedLocXPoE DeviceType (1.0.8802.1.1.2.1. 5.4795.1.2.10)	read-only	INTEGER	unknown(1) pseDevice(2) pdDevice(3) none(4)	Local PoE type.	As per the MIB.

IldpXMedLocXPoEPSEPowerSource

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocXPo EPSEPowerSource (1.0.8802.1.1.2.1. 5.4795.1.2.12)	read-only	INTEGER	unknown(1) primary(2) backup(3)	Local PSE power supply type.	As per the MIB.

IldpXMedLocXPoEPDPowerReq

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocXPo EPDPowerReq (1.0.8802.1.1.2.1. 5.4795.1.2.13)	read-only	Gauge32	Standard MIB values.	Power required by a PD.	As per the MIB.

IldpXMedLocXPoEPDPowerSource

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocXPo EPDPowerSource (1.0.8802.1.1.2.1. 5.4795.1.2.14)	read-only	INTEGER	unknown(1) fromPSE(2) local(3) localAndPSE(4)	Local PD power supply type.	As per the MIB.

IldpXMedLocXPoEPDPowerPriority

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocXPo EPDPowerPriority (1.0.8802.1.1.2.1. 5.4795.1.2.15)	read-only	INTEGER	unknown(1) critical(2) high(3) low(4)	Local PD power priority.	As per the MIB.

Tabular objects

IldpXMedPortConfigEntry

About this table

Use this table to configure MED on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is IldpPortConfigPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedPortCapSupported (1.0.8802.1.1.2.1.5.4795.1.1.2.1.1)	read-only	IldpXMedCapabilities	Standard MIB values.	Supported MED TLVs.	As per the MIB.
IldpXMedPortConfigTLVsTxEnable (1.0.8802.1.1.2.1.5.4795.1.1.2.1.2)	read-write	IldpXMedCapabilities	Standard MIB values.	Enabled MED TLVs.	By default, the networkPolicy bit is set to 0. On a port operating in bridging mode, the networkPolicy bit is set to 1. By default, the location and extendedPD bits are set to 0, and the other bits are set to 1. If the extendedPSE bit is set to 1 but a port does not support a capability, the bridge agents on the port does not send the related TLVs, and this bit is read-only.
IldpXMedPortConfigNotifEnable (1.0.8802.1.1.2.1.5.4795.1.1.2.1.3)	read-write	TruthValue	true(1) false(2)	LLDP-MED trapping status.	As per the MIB.

IldpXMedLocMediaPolicyTable

About this table

Use this table to obtain local media policy configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpLocPortNum and IldpXMedLocMediaPolicyAppType.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.2.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocMediaPolicyAppType (1.0.8802.1.1.2.1.5.4795.1.2.1.1.1)	not-accessible	PolicyAppType	Standard MIB values.	Media policy type.	As per the MIB.
IldpXMedLocMediaPolicyVlanID (1.0.8802.1.1.2.1.5.4795.1.2.1.1.2)	read-only	Integer32	Integer32 (0 1..4094 4095)	Media VLAN ID.	As per the MIB.
IldpXMedLocMediaPolicyPriority (1.0.8802.1.1.2.1.5.4795.1.2.1.1.3)	read-only	Integer32	Integer32 (0..7)	Media policy priority.	As per the MIB.
IldpXMedLocMediaPolicyDscp (1.0.8802.1.1.2.1.5.4795.1.2.1.1.4)	read-only	Dscp	Standard MIB values.	DSCP value.	As per the MIB.
IldpXMedLocMediaPolicyUnknown (1.0.8802.1.1.2.1.5.4795.1.2.1.1.5)	read-only	TruthValue	true(1) false(2)	Whether the media policy type is unknown.	As per the MIB.
IldpXMedLocMediaPolicyTagged (1.0.8802.1.1.2.1.5.4795.1.2.1.1.6)	read-only	TruthValue	true(1) false(2)	Whether packets of the media VLAN are tagged.	As per the MIB.

IldpXMedLocLocationTable

About this table

Use this table to configure the local location information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpLocPortNum and IldpXMedLocLocationSubtype.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.2.9.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocLocationSubtype (1.0.8802.1.1.2.1.5.4795.1.2.9.1.1)	not-accessible	LocationSubtype	Standard MIB values.	Local MED location type.	Supports only civicAddress(3) and elin(4).
IldpXMedLocLocationInfo (1.0.8802.1.1.2.1.5.4795.1.2.9.1.2)	read-write	OCTET STRING	OCTET STRING (0..256)	Local MED location information.	As per the MIB.

IldpXMedLocXPoEPSEPortTable

About this table

Use this table to obtain PSE information on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.2.11.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedLocXPoEPSEPortPowerAv (1.0.8802.1.1.2.1.5.4795.1.2.11.1.1)	read-only	Gauge32	Standard MIB values.	Available PoE power on PSE ports.	As per the MIB.
IldpXMedLocXPoEPSEPortPDPriority (1.0.8802.1.1.2.1.5.4795.1.2.11.1.2)	read-only	INTEGER	Unknown(1) Critical(2) High(3) Low(4)	PSE port power priority.	As per the MIB.

IldpXMedRemCapabilitiesTable

About this table

Use this table to obtain the LLDP-MED capabilities of a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemCapSupported (1.0.8802.1.1.2.1.5.4795.1.3.1.1.1)	read-only	LldpXMedCapabilities	Standard MIB values.	Supported MED TLVs.	As per the MIB.
IldpXMedRemCapCurrent (1.0.8802.1.1.2.1.5.4795.1.3.1.1.2)	read-only	LldpXMedCapabilities	Standard MIB values.	Sent MED TLVs.	As per the MIB.
IldpXMedRemDeviceClass (1.0.8802.1.1.2.1.5.4795.1.3.1.1.3)	read-only	LldpXMedDeviceClass	Standard MIB values.	MED device type.	As per the MIB.

IldpXMedRemMediaPolicyTable

About this table

Use this table to obtain the media policy configuration of a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, and IldpXMedRemMediaPolicyAppType.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemMediaPolicyAppType (1.0.8802.1.1.2.1.5.4795.1.3.2.1.1)	not-accessible	PolicyAppType	Standard MIB values.	Media policy type.	As per the MIB.
IldpXMedRemMediaPolicyVlanID (1.0.8802.1.1.2.1.5.4795.1.3.2.1.2)	read-only	Integer32	Integer32 (0 1..4094 4095)	Media VLAN ID.	As per the MIB.
IldpXMedRemMediaPolicyPriority (1.0.8802.1.1.2.1.5.4795.1.3.2.1.3)	read-only	Integer32	Integer32 (0..7)	Media policy priority.	As per the MIB.
IldpXMedRemMediaPolicyDscp (1.0.8802.1.1.2.1.5.4795.1.3.2.1.4)	read-only	Dscp	Standard MIB values.	DSCP value.	As per the MIB.
IldpXMedRemMediaPolicyTruthValue (1.0.8802.1.1.2.1.5.4795.1.3.2.1.5)	read-only	TruthValue	true(1)	Whether the	As per the MIB.

iaPolicyUnknown (1.0.8802.1.1.2.1.5.4795.1.3.2.1.5)			false(2)	media policy type is unknown.	
IldpXMedRemMediaPolicyTagged (1.0.8802.1.1.2.1.5.4795.1.3.2.1.6)	read-only	TruthValue	true(1) false(2)	Whether packets of the media VLAN are tagged.	As per the MIB.

IldpXMedRemInventoryTable

About this table

Use this table to obtain the inventory information about a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemHardwareRev (1.0.8802.1.1.2.1.5.4795.1.3.3.1.1)	read-only	SnmpAdminString	OCTET STRING (0..32)	Hardware revision.	As per the MIB.
IldpXMedRemFirmwareRev (1.0.8802.1.1.2.1.5.4795.1.3.3.1.2)	read-only	SnmpAdminString	OCTET STRING (0..32)	Firmware revision.	As per the MIB.
IldpXMedRemSoftwareRev (1.0.8802.1.1.2.1.5.4795.1.3.3.1.3)	read-only	SnmpAdminString	OCTET STRING (0..32)	Software revision.	As per the MIB.
IldpXMedRemSerialNum (1.0.8802.1.1.2.1.5.4795.1.3.3.1.4)	read-only	SnmpAdminString	OCTET STRING (0..32)	Serial number.	As per the MIB.
IldpXMedRemMfgName (1.0.8802.1.1.2.1.5.4795.1.3.3.1.5)	read-only	SnmpAdminString	OCTET STRING (0..32)	Manufacturer name.	As per the MIB.
IldpXMedRemModelName (1.0.8802.1.1.2.1.5.4795.1.3.3.1.6)	read-only	SnmpAdminString	OCTET STRING (0..32)	Model name.	As per the MIB.
IldpXMedRemAssetID (1.0.8802.1.1.2.1.5.4795.1.3.3.1.7)	read-only	SnmpAdminString	OCTET STRING (0..32)	Asset tracking identifier.	As per the MIB.

IldpXMedRemLocationTable

About this table

Use this table to obtain the location information about a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, and IldpXMedRemLocationSubtype.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemLocationSubtype(1.0.8802.1.1.2.1.5.4795.1.3.4.1.1)	not-accessible	LocationSubtype	Standard MIB values.	MED location type.	As per the MIB.
IldpXMedRemLocationInfo(1.0.8802.1.1.2.1.5.4795.1.3.4.1.2)	read-only	OCTET STRING	OCTET STRING (0..256)	MED location information.	As per the MIB.

IldpXMedRemXPoETable

About this table

Use this table to obtain the PoE type of a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.5.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemXPoEDeviceType(1.0.8802.1.1.2.1.5.4795.1.3.5.1.1)	read-only	INTEGER	unknown(1) pseDevice(2) pdDevice(3) none(4)	PoE type.	As per the MIB.

IldpXMedRemXPoEPSETable

About this table

Use this table to obtain the PSE information about a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemXPoEPSEPowerAv (1.0.8802.1.1.2.1.5.4795.1.3.6.1.1)	read-only	Gauge32	Standard MIB values.	Available PoE power on PSE ports.	As per the MIB.
IldpXMedRemXPoEPSEPowerSource (1.0.8802.1.1.2.1.5.4795.1.3.6.1.2)	read-only	INTEGER	unknown(1) primary(2) backup(3)	PSE power supply type.	As per the MIB.
IldpXMedRemXPoEPSEPowerPriority (1.0.8802.1.1.2.1.5.4795.1.3.6.1.3)	read-only	INTEGER	unknown(1) critical(2) high(3) low(4)	PSE port power priority.	As per the MIB.

IldpXMedRemXPoEPDTable

About this table

Use this table to obtain the PD information about a neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, and IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.5.4795.1.3.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpXMedRemXPoEPDPowerReq (1.0.8802.1.1.2.1.5.4795.1.3.7.1.1)	read-only	Gauge32	Standard MIB values.	Power required by a PD.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpXMedRemXPoEPDPowerSource (1.0.8802.1.1.2.1.5.4795.1.3.7.1.2)	read-only	INTEGER	unknown(1) fromPSE(2) local(3) localAndPSE(4)	PD power supply type.	As per the MIB.
lldpXMedRemXPoEPDPowerPriority (1.0.8802.1.1.2.1.5.4795.1.3.7.1.3)	read-only	INTEGER	unknown(1) critical(2) high(3) low(4)	PD power priority.	As per the MIB.

Notifications

lldpXMedTopologyChangeDetected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.0.8802.1.1.2.1.5.4795.0.1	MED neighbor topology changes.	Informational	-	-	OFF

Description

This notification is set when the device detects topology changes, such as attaching a peer device to the local device, disconnecting a peer device, or moving a peer device from one port to another port.

Status control

ON

CLI: Use the `lldp notification med-topology-change enable` command.

MIB: Set the `lldpXMedPortConfigNotifEnable` object to true (1).

OFF

CLI: Use the `undo lldp notification med-topology-change enable` command.

MIB: Set the `lldpXMedPortConfigNotifEnable` object to false (2).

Objects

OID (object name)	Description	Index	Type	Value range
1.0.8802.1.1.2.1.4.1.1.4 (lldpRemChassisIdSubtype)	Neighbor chassis ID type.	No	LldpChassisIdSubtype	Standard MIB values.
1.0.8802.1.1.2.1.4.1.1.5 (lldpRemChassisId)	Neighbor chassis ID.	No	LldpChassisId	Standard MIB values.
1.0.8802.1.1.2.1.5.4795.1.3.1.1.3 (lldpXMedRemDeviceClass)	Neighbor MED device class.	No	LldpXMedDeviceClass	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the topology changes are as expected.

If you cannot resolve the issue, contact H3C Support.

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LLDP-MIB

About this MIB

Use this MIB to configure the following LLDP information:

- LLDP configuration.
- LLDP statistics.
- LLDP local system information.
- LLDP neighbor system information.

MIB file name

lldp.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).lldpMIB(2)

Scalar objects

lldpMessageTxInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpMessageTxInterval (1.0.8802.1.1.2.1.1.1)	read-write	Integer32	Integer32 (5..32768)	LLDP frame transmission interval.	As per the MIB.

lldpMessageTxHoldMultiplier

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpMessageTxHoldMultiplier (1.0.8802.1.1.2.1.1.2)	read-write	Integer32	Integer32 (2..10)	TTL multiplier.	As per the MIB.

lldpReinitDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpReinitDelay (1.0.8802.1.1.2.1.1.3)	read-write	Integer32	Integer32 (1..10)	LLDP reinitialization delay.	As per the MIB.

IldpTxDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpTxDelay (1.0.8802.1.1.2.1.1.4)	read-write	Integer32	Integer32 (1..8192)	LLDP frame transmission delay.	The value is fixed at 2, which indicates that this delay is not supported.

IldpNotificationInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpNotificationInterval (1.0.8802.1.1.2.1.1.5)	read-write	Integer32	Integer32 (5..3600)	Trap transmission interval.	As per the MIB.

IldpStatsRemTablesLastChangeTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRemTablesLastChangeTime (1.0.8802.1.1.2.1.2.1)	read-only	TimeStamp	Standard MIB values.	Time when LLDP information about a neighboring device was last updated.	As per the MIB.

IldpStatsRemTablesInserts

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRemTablesInserts (1.0.8802.1.1.2.1.2.2)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors added by LLDP.	As per the MIB.

IldpStatsRemTablesDeletes

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRemTablesDeletes (1.0.8802.1.1.2.1.2.3)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors deleted by LLDP.	As per the MIB.

IldpStatsRemTablesDrops

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRemTablesDrops (1.0.8802.1.1.2.1.2.4)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors discarded by LLDP.	As per the MIB.

IldpStatsRemTablesAgeouts

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRemTablesAgeouts (1.0.8802.1.1.2.1.2.5)	read-only	ZeroBasedCounter32	Standard MIB values.	Neighbor ageout count.	As per the MIB.

IldpLocChassisIdSubtype

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocChassisIdSubtype (1.0.8802.1.1.2.1.3.1)	read-only	LldpChassisIdSubtype	Standard MIB values.	Local chassis ID subtype.	As per the MIB.

IldpLocChassisId

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocChassisId (1.0.8802.1.1.2.1.3.2)	read-only	LldpChassisId	Standard MIB values.	Local chassis ID.	As per the MIB.

IldpLocSysName

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocSysName (1.0.8802.1.1.2.1.3.3)	read-only	SnmpAdminString	OCTET STRING (0..255)	Local system name.	As per the MIB.

IldpLocSysDesc

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocSysDesc (1.0.8802.1.1.2.1.3.4)	read-only	SnmpAdminString	OCTET STRING (0..255)	Local system description.	As per the MIB.

IldpLocSysCapSupported

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocSysCapSupported (1.0.8802.1.1.2.1.3.5)	read-only	LdpSystemCapabilitiesMap	Standard MIB values.	Capabilities supported by the local system.	As per the MIB.

IldpLocSysCapEnabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocSysCapEnabled (1.0.8802.1.1.2.1.3.6)	read-only	LdpSystemCapabilitiesMap	Standard MIB values.	Capabilities enabled on the local system.	As per the MIB.

Tabular objects

IldpPortConfigTable

About this table

Use this table to configure LLDP on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is IldpPortConfigPortNum.

The table OID is 1.0.8802.1.1.2.1.1.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpPortConfigPortNum (1.0.8802.1.1.2.1.1.6.1.1)	not-accessible	LdpPortNumber	Standard MIB values.	Port number.	As per the MIB.
IldpPortConfigAdminStatus (1.0.8802.1.1.2.1.1.6.1.2)	read-write	INTEGER	txOnly(1) rxOnly(2) txAndRx(3) disabled(4)	LLDP operating mode.	As per the MIB.
IldpPortConfigNotificationEnable (1.0.8802.1.1.2.1.1.6.1.3)	read-write	TruthValue	Standard MIB values.	Trapping status.	As per the MIB.
IldpPortConfigTLVsTxEnable (1.0.8802.1.1.2.1.1.6.1.4)	read-write	BITS	BITS { portDesc(0)	Optional TLVs that the port can send.	Default: All bits are set to 1, which indicates that all

1.6.1.4)			sysName(1) sysDesc(2) sysCap(3) }		basic optional TLVs are enabled.
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IldpConfigManAddrTable

About this table

Use this table to configure management addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpLocManAddrSubtype and IldpLocManAddr.

The table OID is 1.0.8802.1.1.2.1.1.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpConfigManAddrPortsTxEnable (1.0.8802.1.1.2.1.1.7.1.1)	read-write	LldpPortList	Standard MIB values.	Ports that can send management addresses.	Each bit set in this list represents a port. By default, all bits are set to 1, which indicates that all ports can send management addresses.

IldpStatsTxPortTable

About this table

Use this table to obtain outgoing LLDP packet statistics about ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpStatsTxPortNum.

The table OID is 1.0.8802.1.1.2.1.2.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsTxPortNum (1.0.8802.1.1.2.1.2.6.1)	not-accessible	LldpPortNumber	Standard MIB values.	Port number.	As per the MIB.

2.6.1.1)					
IldpStatsTxPortFramesTotal (1.0.8802.1.1.2.1.2.6.1.2)	read-only	Counter32	Standard MIB values.	Total outgoing frame count.	As per the MIB.

IldpStatsRxPortTable

About this table

Use this table to obtain incoming LLDP packet statistics about ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpStatsRxPortNum.

The table OID is 1.0.8802.1.1.2.1.2.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpStatsRxPortNum (1.0.8802.1.1.2.1.2.7.1.1)	not-accessible	LldpPortNumber	Standard MIB values.	Port number.	As per the MIB.
IldpStatsRxPortFramesDiscardedTotal (1.0.8802.1.1.2.1.2.7.1.2)	read-only	Counter32	Standard MIB values.	Discarded incoming frame count.	As per the MIB.
IldpStatsRxPortFramesErrors (1.0.8802.1.1.2.1.2.7.1.3)	read-only	Counter32	Standard MIB values.	Error incoming frame count.	As per the MIB.
IldpStatsRxPortFramesTotal (1.0.8802.1.1.2.1.2.7.1.4)	read-only	Counter32	Standard MIB values.	Total incoming frame count.	As per the MIB.
IldpStatsRxPortTLVsDiscardedTotal (1.0.8802.1.1.2.1.2.7.1.5)	read-only	Counter32	Standard MIB values.	Discarded incoming TLV count.	As per the MIB.
IldpStatsRxPortTLVsUnrecognizedTotal (1.0.8802.1.1.2.1.2.7.1.6)	read-only	Counter32	Standard MIB values.	Unrecognized incoming TLV count.	As per the MIB.
IldpStatsRxPortAgeoutsTotal (1.0.8802.1.1.2.1.2.7.1.7)	read-only	ZeroBasedCounter32	Standard MIB values.	Neighbor ageout count.	As per the MIB.

IldpLocPortTable

About this table

Use this table to obtain LLDP information about local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpLocPortNum.

The table OID is 1.0.8802.1.1.2.1.3.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocPortNum (1.0.8802.1.1.2.1.3.7.1.1)	not-accessible	LdpPortNumber	Standard MIB values.	Port number.	As per the MIB.
IldpLocPortIdSubtype (1.0.8802.1.1.2.1.3.7.1.2)	read-only	LdpPortIdSubtype	Standard MIB values.	Port ID subtype.	As per the MIB.
IldpLocPortId (1.0.8802.1.1.2.1.3.7.1.3)	read-only	LdpPortId	Standard MIB values.	Port ID.	If the port has a MED neighbor, the port ID is the MAC address of the port. If the port does not have a MED neighbor, the port ID is the name of the port.
IldpLocPortDesc (1.0.8802.1.1.2.1.3.7.1.4)	read-only	SnmpAdminString	OCTET STRING (0..255)	Port description.	As per the MIB.

IldpLocManAddrTable

About this table

Use this table to obtain local management address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpLocManAddrSubtype, IldpLocManAddr.

The table OID is 1.0.8802.1.1.2.1.3.8.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpLocManAddrSubtype (1.0.8802.1.1.2.1.3.8.1.1)	not-accessible	AddressFamilyNumbers	Standard MIB values.	Management address subtype.	As per the MIB.
IldpLocManAddr (1.0.8802.1.1.2.1.3.8.1.2)	not-accessible	LldpManAddress	Standard MIB values.	Management address.	As per the MIB.
IldpLocManAddrLength (1.0.8802.1.1.2.1.3.8.1.3)	read-only	Integer32	Standard MIB values.	Management address length.	As per the MIB.
IldpLocManAddrIfSubtype (1.0.8802.1.1.2.1.3.8.1.4)	read-only	LldpManAddrIfSubtype	Standard MIB values.	The enumeration value that identifies the port numbering method used for defining the port number associated with the local system.	The subtype is IfIndex.
IldpLocManAddrIfId (1.0.8802.1.1.2.1.3.8.1.5)	read-only	Integer32	Standard MIB values.	Index of the port associated with the management address.	If no port is associated with the management address, the value of this object is 0.
IldpLocManAddrOID (1.0.8802.1.1.2.1.3.8.1.6)	read-only	OBJECT IDENTIFIER	Standard MIB values.	The OID value used to identify the type of hardware component or protocol entity associated with the management address advertised by the local system agent.	Not supported.

IldpRemTable

About this table

Use this table to obtain neighbor configuration and related local indexes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex.

The table OID is 1.0.8802.1.1.2.1.4.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpRemTimeMark (1.0.8802.1.1.2.1.4.1.1.1)	not-accessible	TimeFilter	Standard MIB values.	Time mark for a neighbor.	The time mark is the time when this object is created or the remote system is updated. You can use the time mark to search for remote system records.
IldpRemLocalPortNum (1.0.8802.1.1.2.1.4.1.1.2)	not-accessible	LldpPortNumber	Standard MIB values.	Local port receiving the neighbor information.	As per the MIB.
IldpRemIndex (1.0.8802.1.1.2.1.4.1.1.3)	not-accessible	Integer32	Integer32 (1..2147483647)	Neighbor index.	As per the MIB.
IldpRemChassisIdSubtype (1.0.8802.1.1.2.1.4.1.1.4)	read-only	LldpChassisIdSubtype	Standard MIB values.	Neighbor chassis ID subtype.	As per the MIB.
IldpRemChassisId (1.0.8802.1.1.2.1.4.1.1.5)	read-only	LldpChassisId	Standard MIB values.	Neighbor chassis ID.	As per the MIB.
IldpRemPortIdSubtype (1.0.8802.1.1.2.1.4.1.1.6)	read-only	LldpPortIdSubtype	Standard MIB values.	Neighbor port ID subtype.	As per the MIB.
IldpRemPortId (1.0.8802.1.1.2.1.4.1.1.7)	read-only	LldpPortId	Standard MIB values.	Neighbor port ID.	As per the MIB.
IldpRemPortDesc (1.0.8802.1.1.2.1.4.1.1.8)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor port description.	As per the MIB.
IldpRemSysName (1.0.8802.1.1.2.1.4.1.1.9)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor system name.	As per the MIB.
IldpRemSysDesc (1.0.8802.1.1.2.1.4.1.1.10)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor system description.	As per the MIB.
IldpRemSysCapSupported (1.0.8802.1.1.2.1.4.1.1.11)	read-only	LldpSystemCapabilitiesMap	Standard MIB values.	Capabilities supported by the neighbor system.	As per the MIB.
IldpRemSysCapEnabled (1.0.8802.1.1.2.1.4.1.1.12)	read-only	LldpSystemCapabilitiesMap	Standard MIB values.	Capabilities enabled on the neighbor system.	As per the MIB.

IldpRemManAddrTable

About this table

Use this table to obtain neighbor management address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, IldpRemManAddrSubtype, and IldpRemManAddr.

The table OID is 1.0.8802.1.1.2.1.4.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpRemManAddrSubtype (1.0.8802.1.1.2.1.4.2.1.1)	not-accessible	AddressFamilyNumbers	Standard MIB values.	Management address subtype.	As per the MIB.
IldpRemManAddr (1.0.8802.1.1.2.1.4.2.1.2)	not-accessible	IldpManAddress	Standard MIB values.	Management address.	As per the MIB.
IldpRemManAddrIrfSubtype (1.0.8802.1.1.2.1.4.2.1.3)	read-only	IldpManAddrIrfSubtype	Standard MIB values.	The enumeration value that identifies the port numbering method used for defining the port number associated with the remote system.	As per the MIB.
IldpRemManAddrIrfId (1.0.8802.1.1.2.1.4.2.1.4)	read-only	Integer32	Standard MIB values.	Index of the port associated with the management address.	As per the MIB.
IldpRemManAddrOID (1.0.8802.1.1.2.1.4.2.1.5)	read-only	OBJECT IDENTIFIER	Standard MIB values.	The OID value used to identify the type of hardware component or protocol entity associated with the management address advertised by the remote system agent.	Not supported

IldpRemUnknownTLVTable

About this table

Use this table to display the unrecognized TLVs received from neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, and IldpRemunknownTLVType. The table OID is 1.0.8802.1.1.2.1.4.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpRemUnknownTLVType (1.0.8802.1.1.2.1.4.3.1.1)	not-accessible	Integer32	Integer32 (9..126)	TLV type.	As per the MIB.
IldpRemUnknownTLVInfo (1.0.8802.1.1.2.1.4.3.1.2)	read-only	OCTET STRING	OCTET STRING (0..511)	TLV string.	As per the MIB.

IldpRemOrgDefInfoTable

About this table

Use this table to display the neighbor organizationally defined information not recognized by the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpRemTimeMark, IldpRemLocalPortNum, IldpRemIndex, IldpRemOrgDefInfoOUI, IldpRemOrgDefInfoSubtype, and IldpRemOrgDefInfoIndex.

The table OID is 1.0.8802.1.1.2.1.4.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpRemOrgDefInfoOUI (1.0.8802.1.1.2.1.4.4.1.1)	not-accessible	OCTET STRING	OCTET STRING (3)	Organizationally Unique Identifier (OUI).	As per the MIB.
IldpRemOrgDefInfoSubtype (1.0.8802.1.1.2.1.4.4.1.2)	not-accessible	Integer32	Integer32 (1..255)	Subtype of the organizationally defined information.	As per the MIB.
IldpRemOrgDefInfoIndex (1.0.8802.1.1.2.1.4.4.1.3)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of the organizationally defined information.	As per the MIB.
IldpRemOrgDefInfoO (1.0.8802.1.1.2.1.4.4.1.4)	read-only	OCTET STRING	OCTET STRING (0..507)	Organizationally defined information.	As per the MIB.

Notifications

IldpRemTablesChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.0.8802.1.1.2.0.0.1	Neighbor events.	Informational	-	-	OFF

Description

This notification is generated when the value of the `IldpStatsRemTableLastChangeTime` object changes. You can set the notification transmission interval by configuring the `IldpNotificationInterval` object.

Status control

ON

CLI: Use the `lldp notification remote-change enable` command.

MIB: Set the `IldpPortConfigNotificationEnable` object to `true(1)`.

OFF

CLI: Use the `undo lldp notification remote-change enable` command.

MIB: Set the `IldpPortConfigNotificationEnable` object to `false(2)`.

Objects

OID (object name)	Description	Index	Type	Value range
1.0.8802.1.1.2.1.2.2 (IldpStatsRemTablesInserts)	Neighbor creation.	No	ZeroBasedCounter32	Standard MIB values.
1.0.8802.1.1.2.1.2.3 (IldpStatsRemTablesDeletes)	Neighbor deletion.	No	ZeroBasedCounter32	Standard MIB values.
1.0.8802.1.1.2.1.2.4 (IldpStatsRemTablesDrops)	Neighbor discard.	No	ZeroBasedCounter32	Standard MIB values.
1.0.8802.1.1.2.1.2.5 (IldpStatsRemTablesAgeouts)	Neighbor ageout.	No	ZeroBasedCounter32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the topology changes are as expected.

If you cannot resolve the issue, contact H3C Support.

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LLDP-V2-MIB

About this MIB

This MIB is compliant with IEEE 802.1AB-2009. It defines MIB objects for the following LLDP information:

- LLDP configuration.
- LLDP statistics.
- LLDP local system information.
- LLDP neighbor system information.
- 802.1 extension.
- DCBX extension.
- 802.3 extension.

MIB file name

lldp-v2.mib

Root object

iso(1).org(3).ieee(111).standards-association-numbers-series-standards(2).lan-man-stds(802).ieee802dot1(1).ieee802dot1mibs(1).lldpV2MIB(13)

Scalar objects

lldpV2MessageTxInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2MessageTxInterval (1.3.111.2.802.1.1.13.1.1.1)	read-write	Unsigned32	Unsigned32 (5..32768)	LLDP frame transmission interval.	As per the MIB.

lldpV2MessageTxHoldMultiplier

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2MessageTxHoldMultiplier (1.3.111.2.802.1.1.13.1.1.2)	read-write	Unsigned32	Unsigned32 (2..10)	TTL multiplier.	As per the MIB.

lldpV2ReinitDelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2ReinitDelay (1.3.111.2.802.1.1)	read-write	Unsigned32	Unsigned32 (1..10)	LLDP reinitialization	As per the MIB.

.13.1.1.3)				delay.	
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IldpV2NotificationInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2NotificationInterval (1.3.111.2.802.1.1.13.1.1.4)	read-write	Unsigned32	Unsigned32 (5..3600)	Trap transmission interval.	As per the MIB.

IldpV2TxCreditMax

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2TxCreditMax (1.3.111.2.802.1.1.13.1.1.5)	read-write	Unsigned32	Unsigned32 (1..100)	Token bucket size for sending LLDP frames.	As per the MIB.

IldpV2MessageFastTx

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2MessageFastTx (1.3.111.2.802.1.1.13.1.1.6)	read-write	Unsigned32	Unsigned32 (1..3600)	Fast LLDP frame transmission interval.	As per the MIB.

IldpV2TxFastInit

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2TxFastInit (1.3.111.2.802.1.1.13.1.1.7)	read-write	Unsigned32	Unsigned32 (1..8)	Number of LLDP frames sent each time fast LLDP frame transmission is triggered.	As per the MIB.

IldpV2StatsRemTablesLastChangeTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRemTablesLastChangeTime (1.3.111.2.802.1.1.13.1.2.1)	read-only	TimeStamp	Standard MIB values.	Time when LLDP information about a neighboring device was last updated.	As per the MIB.

IldpV2StatsRemTablesInserts

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRemTablesInserts (1.3.111.2.802.1.1.13.1.2.2)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors added by LLDP.	As per the MIB.

IldpV2StatsRemTablesDeletes

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRemTablesDeletes (1.3.111.2.802.1.1.13.1.2.3)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors deleted by LLDP.	As per the MIB.

IldpV2StatsRemTablesDrops

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRemTablesDrops (1.3.111.2.802.1.1.13.1.2.4)	read-only	ZeroBasedCounter32	Standard MIB values.	Number of neighbors discarded by LLDP.	As per the MIB.

IldpV2StatsRemTablesAgeouts

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRemTablesAgeouts (1.3.111.2.802.1.1.13.1.2.5)	read-only	ZeroBasedCounter32	Standard MIB values.	Neighbor ageout count.	As per the MIB.

IldpV2LocChassisIdSubtype

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocChassisIdSubtype (1.3.111.2.802.1.1.13.1.3.1)	read-only	IldpV2ChassisIdSubtype	Standard MIB values.	Local chassis ID subtype.	As per the MIB.

IldpV2LocChassisId

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocChassisId	read-only	IldpV2ChassisId	Standard MIB	Local chassis ID.	As per the MIB.

(1.3.111.2.802.1.1 .13.1.3.2)			values.		
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IldpV2LocSysName

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocSysName (1.3.111.2.802.1.1 .13.1.3.3)	read-only	SnmpAdminString	OCTET STRING (0..255)	Local system name.	As per the MIB.

IldpV2LocSysDesc

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocSysDesc (1.3.111.2.802.1.1 .13.1.3.4)	read-only	SnmpAdminString	OCTET STRING (0..255)	Local system description.	As per the MIB.

IldpV2LocSysCapSupported

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocSysCapSupported (1.3.111.2.802.1.1 .13.1.3.5)	read-only	IldpV2SystemCapabilitiesMap	Standard MIB values.	Capabilities supported by the local system.	As per the MIB.

IldpV2LocSysCapEnabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocSysCapEnabled (1.3.111.2.802.1.1 .13.1.3.6)	read-only	IldpV2SystemCapabilitiesMap	Standard MIB values.	Capabilities enabled on the local system.	As per the MIB.

Tabular objects

IldpV2PortConfigTable

About this table

Use this table to configure LLDP on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are IldpV2PortConfigIfIndex and IldpV2PortConfigDestAddressIndex.

The table OID is 1.3.111.2.802.1.1.13.1.1.8.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2PortConfigIfIndex (1.3.111.2.802.1.1.13.1.1.8.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Port number.	As per the MIB.
IldpV2PortConfigDestAddressIndex (1.3.111.2.802.1.1.13.1.1.8.1.2)	not-accessible	IldpV2DestAddressTableIndex	Standard MIB values.	Agent index.	As per the MIB.
IldpV2PortConfigAdminStatus (1.3.111.2.802.1.1.13.1.1.8.1.3)	read-write	INTEGER	txOnly(1) rxOnly(2) txAndRx(3) disabled(4)	LLDP operating mode.	Default: Disabled for the following agents: <ul style="list-style-type: none"> The nearest customer bridge agent and nearest non-TPMR bridge agent on a Layer 2 Ethernet interface. The nearest customer bridge agent and nearest non-TPMR bridge agent on a Layer 2 or Layer 3 aggregate interface. The nearest non-TPMR bridge agent on a Layer 3 Ethernet interface.
IldpV2PortConfigNotificationEnable (1.3.111.2.802.1.1.13.1.1.8.1.4)	read-write	TruthValue	Standard MIB values.	Trapping status.	As per the MIB.
IldpV2PortConfigTLVsTxEnable (1.3.111.2.802.1.1.13.1.1.8.1.5)	read-write	BITS	BITS { portDesc(0), sysName(1), sysDesc(2), sysCap(3) }	Optional TLVs that the port can send.	Default: 0xf0 for the following agents: <ul style="list-style-type: none"> The nearest bridge agent and nearest customer bridge agent

Object (OID)	Access	Syntax	Value range	Description	Implementation
					on a Layer 2 or Layer 3 Ethernet interface. <ul style="list-style-type: none"> The nearest customer bridge agent on a Layer 2 aggregate interface. The default is 0x40 for the nearest customer bridge agent on a Layer 3 aggregate interface or S-channel interface.

lldpV2DestAddressTable

About this table

Use this table to obtain the destination MAC address of LLDP frames.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is lldpV2AddressTableIndex.

The table OID is 1.3.111.2.802.1.1.13.1.1.9.

Object (OID)	Access	Syntax	Value range	Description	Implementation
lldpV2AddressTableIndex (1.3.111.2.802.1.1.13.1.1.9.1.1)	not-accessible	lldpV2DestAddressTableIndex	Standard MIB values.	Index used to identify the destination MAC address associated with this entry.	As per the MIB.
lldpV2DestMacAddress (1.3.111.2.802.1.1.13.1.1.9.1.2)	read-only	MacAddress	Standard MIB values.	Destination MAC address.	As per the MIB.

lldpV2ManAddrConfigTxPortsTable

About this table

Use this table to configure a management address for agents on interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are IldpV2ManAddrConfigIfIndex, IldpV2ManAddrConfigDestAddressIndex, IldpV2ManAddrConfigLocManAddrSubtype, IldpV2ManAddrConfigLocManAddr.

The table OID is 1.3.111.2.802.1.1.13.1.1.10.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2ManAddrConfigIfIndex (1.3.111.2.802.1.1.13.1.1.10.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
IldpV2ManAddrConfigDestAddressIndex (1.3.111.2.802.1.1.13.1.1.10.1.2)	not-accessible	IldpV2DestAddressTableIndex	Standard MIB values.	Agent ID.	As per the MIB.
IldpV2ManAddrConfigLocManAddrSubtype (1.3.111.2.802.1.1.13.1.1.10.1.3)	not-accessible	AddressFamilyNumbers	Standard MIB values.	Management address subtype.	As per the MIB.
IldpV2ManAddrConfigLocManAddr (1.3.111.2.802.1.1.13.1.1.10.1.4)	not-accessible	IldpV2ManAddresses	Standard MIB values.	Management address string.	The subtypes of the management address TLV are IPv4 and IPv6.
IldpV2ManAddrConfigTxEnable (1.3.111.2.802.1.1.13.1.1.10.1.5)	read-create	TruthValue	Standard MIB values.	Whether the management address TLV is enabled.	Default: Disabled for the following agents: <ul style="list-style-type: none"> The nearest bridge agent and nearest customer bridge agent on a Layer 2 or Layer 3 Ethernet interface. The nearest customer bridge agent on a Layer 2 or Layer 3 aggregate interface.
IldpV2ManAddrConfigRowStatus (1.3.111.2.802.1.1.13.1.1.10.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

IldpV2StatsTxPortTable

About this table

Use this table to obtain outgoing LLDP packet statistics about agents.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2StatsTxIfIndex and IldpV2StatsTxDestMACAddress.

The table OID is 1.3.111.2.802.1.1.13.1.2.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsTxIfIndex (1.3.111.2.802.1.1.13.1.2.6.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
IldpV2StatsTxDestMACAddress (1.3.111.2.802.1.1.13.1.2.6.1.2)	not-accessible	IldpV2DestAddressTableIndex	Standard MIB values.	Agent ID.	As per the MIB.
IldpV2StatsTxPortFramesTotal (1.3.111.2.802.1.1.13.1.2.6.1.3)	read-only	Counter32	Standard MIB values.	Total outgoing frame count.	As per the MIB.
IldpV2StatsTxLLDPDULengthErrors (1.3.111.2.802.1.1.13.1.2.6.1.4)	read-only	Counter32	Standard MIB values.	Frame length error count.	As per the MIB.

IldpV2StatsRxPortTable

About this table

Use this table to obtain incoming LLDP packet statistics about agents.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2StatsRxDestIfIndex and IldpV2StatsRxDestMACAddress.

The table OID is 1.3.111.2.802.1.1.13.1.2.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2StatsRxDes tIfIndex (1.3.111.2.802.1.1 .13.1.2.7.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
IldpV2StatsRxDes tMACAddress(1.3. 111.2.802.1.1.13. 1.2.7.1.2)	not-accessible	LldpV2DestAddre ssTableIndex	Standard MIB values.	Agent ID.	As per the MIB.
IldpV2StatsRxPort FramesDiscarded Total (1.3.111.2.802.1.1 .13.1.2.7.1.3)	read-only	Counter32	Standard MIB values.	Discarded incoming frame count.	As per the MIB.
IldpV2StatsRxPort FramesErrors(1.3. 111.2.802.1.1.13. 1.2.7.1.4)	read-only	Counter32	Standard MIB values.	Error incoming frame count.	As per the MIB.
IldpV2StatsRxPort FramesTotal (1.3.111.2.802.1.1 .13.1.2.7.1.5)	read-only	Counter32	Standard MIB values.	Total incoming frame count.	As per the MIB.
IldpV2StatsRxPort TLVsDiscardedTo tal (1.3.111.2.802.1.1 .13.1.2.7.1.6)	read-only	Counter32	Standard MIB values.	Discarded incoming TLV count.	As per the MIB.
IldpV2StatsRxPort TLVsUnrecognize dTotal (1.3.111.2.802.1.1 .13.1.2.7.1.7)	read-only	Counter32	Standard MIB values.	Unrecognized incoming TLV count.	As per the MIB.
IldpV2StatsRxPort AgeoutsTotal (1.3.111.2.802.1.1 .13.1.2.7.1.8)	read-only	ZeroBasedCounte r32	Standard MIB values.	Neighbor ageout count.	As per the MIB.

IldpV2LocPortTable

About this table

Use this table to obtain LLDP information about local ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is IldpV2LocPortIfIndex.

The table OID is 1.3.111.2.802.1.1.13.1.3.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocPortIfIndex (1.3.111.2.802.1.1.13.1.3.7.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
IldpV2LocPortIdSubtype (1.3.111.2.802.1.1.13.1.3.7.1.2)	read-only	LldpV2PortIdSubtype	Standard MIB values.	Port ID subtype.	As per the MIB.
IldpV2LocPortId (1.3.111.2.802.1.1.13.1.3.7.1.3)	read-only	LldpV2PortId	Standard MIB values.	Port ID.	As per the MIB.
IldpV2LocPortDesc (1.3.111.2.802.1.1.13.1.3.7.1.4)	read-only	SnmpAdminString	OCTET STRING (0..255)	Port description.	As per the MIB.

IldpV2LocManAddrTable

About this table

Use this table to obtain local management address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2LocManAddrSubtype and IldpV2LocManAddr.

The table OID is 1.3.111.2.802.1.1.13.1.3.8.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2LocManAddrSubtype (1.3.111.2.802.1.1.13.1.3.8.1.1)	not-accessible	AddressFamilyNumbers	Standard MIB values.	Management address subtype.	As per the MIB.
IldpV2LocManAddr (1.3.111.2.802.1.1.13.1.3.8.1.2)	not-accessible	LldpV2ManAddresses	Standard MIB values.	Management address.	The subtypes of the management address TLV are IPv4 and IPv6.
IldpV2LocManAddrLen (1.3.111.2.802.1.1.13.1.3.8.1.3)	read-only	Unsigned32	Standard MIB values.	Management address length.	As per the MIB.
IldpV2LocManAddrIfSubtype (1.3.111.2.802.1.1.13.1.3.8.1.4)	read-only	LldpV2ManAddrIfSubtype	Standard MIB values.	The enumeration value that identifies the port numbering method used for defining the port number associated with	As per the MIB.

				the local system.	
IldpV2LocManAdd rIfid (1.3.111.2.802.1.1 .13.1.3.8.1.5)	read-only	Unsigned32	Standard MIB values.	Interface index.	As per the MIB.
IldpV2LocManAdd rOID (1.3.111.2.802.1.1 .13.1.3.8.1.6)	read-only	OBJECT IDENTIFIER	Standard MIB values.	The OID value used to identify the type of hardware component or protocol entity associated with the management address advertised by the local system agent.	Not supported

IldpV2RemTable

About this table

Use this table to obtain neighbor configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, and IldpV2RemIndex.

The table OID is 1.3.111.2.802.1.1.13.1.4.1

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2RemTimeM ark (1.3.111.2.802.1.1 .13.1.4.1.1.1)	not-accessible	TimeFilter	Standard MIB values.	Time mark for a neighbor.	The time mark is the time when this object is created or the remote system is updated. You can use the time mark to search for remote system records.
IldpV2RemLocalIfI ndex (1.3.111.2.802.1.1 .13.1.4.1.1.2)	not-accessible	InterfaceIndex	Standard MIB values.	Local interface receiving the neighbor information.	As per the MIB.
IldpV2RemLocalD estMACAddress (1.3.111.2.802.1.1 .13.1.4.1.1.3)	not-accessible	IldpV2DestAddre ssTableIndex	Standard MIB values.	Neighbor agent ID.	As per the MIB.
IldpV2RemIndex (1.3.111.2.802.1.1 .13.1.4.1.1.4)	not-accessible	Unsigned32	Unsigned32 (1..2147483647)	Neighbor index.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2RemChassisIdSubtype (1.3.111.2.802.1.1.13.1.4.1.1.5)	read-only	LldpV2ChassisIdSubtype	Standard MIB values.	Neighbor chassis ID subtype.	As per the MIB.
IldpV2RemChassisId (1.3.111.2.802.1.1.13.1.4.1.1.6)	read-only	LldpV2ChassisId	Standard MIB values.	Neighbor chassis ID.	As per the MIB.
IldpV2RemPortIdSubtype (1.3.111.2.802.1.1.13.1.4.1.1.7)	read-only	LldpV2PortIdSubtype	Standard MIB values.	Neighbor port ID subtype.	As per the MIB.
IldpV2RemPortId (1.3.111.2.802.1.1.13.1.4.1.1.8)	read-only	LldpV2PortId	Standard MIB values.	Neighbor port ID.	As per the MIB.
IldpV2RemPortDescription (1.3.111.2.802.1.1.13.1.4.1.1.9)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor port description.	As per the MIB.
IldpV2RemSystemName (1.3.111.2.802.1.1.13.1.4.1.1.10)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor system name.	As per the MIB.
IldpV2RemSystemDescription (1.3.111.2.802.1.1.13.1.4.1.1.11)	read-only	SnmpAdminString	OCTET STRING (0..255)	Neighbor system description.	As per the MIB.
IldpV2RemSystemCapabilitiesSupported (1.3.111.2.802.1.1.13.1.4.1.1.12)	read-only	LldpV2SystemCapabilitiesMap	Standard MIB values.	Capabilities supported by the neighbor system.	As per the MIB.
IldpV2RemSystemCapabilitiesEnabled (1.3.111.2.802.1.1.13.1.4.1.1.13)	read-only	LldpV2SystemCapabilitiesMap	Standard MIB values.	Capabilities enabled on the neighbor system.	As per the MIB.
IldpV2RemRemoteChanges (1.3.111.2.802.1.1.13.1.4.1.1.14)	read-only	TruthValue	Standard MIB values.	Whether there are changes in the remote system's MIB.	As per the MIB.
IldpV2RemTooManyNeighbors (1.3.111.2.802.1.1.13.1.4.1.1.15)	read-only	TruthValue	Standard MIB values.	Whether there are too many neighbors.	As per the MIB.

IldpV2RemManAddrTable

About this table

Use this table to obtain neighbor management address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, IldpV2RemManAddrSubtype, and IldpV2RemManAddr.

The table OID is 1.3.111.2.802.1.1.13.1.4.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2RemManAddrSubtype (1.3.111.2.802.1.1.13.1.4.2.1.1)	not-accessible	AddressFamilyNumbers	Standard MIB values.	Management address subtype.	As per the MIB.
IldpV2RemManAddr (1.3.111.2.802.1.1.13.1.4.2.1.2)	not-accessible	IldpV2ManAddresses	OCTET STRING (1..31)	Management address.	As per the MIB.
IldpV2RemManAddrIfSubtype (1.3.111.2.802.1.1.13.1.4.2.1.3)	read-only	IldpV2ManAddrIfSubtype	Standard MIB values.	The enumeration value that identifies the interface numbering method used for defining the interface number associated with the remote system.	As per the MIB.
IldpV2RemManAddrIfId (1.3.111.2.802.1.1.13.1.4.2.1.4)	read-only	Unsigned32	Standard MIB values.	Index of the interface associated with the management address.	As per the MIB.
IldpV2RemManAddrOID (1.3.111.2.802.1.1.13.1.4.2.1.5)	read-only	OBJECT IDENTIFIER	Standard MIB values.	The OID value used to identify the type of hardware component or protocol entity associated with the management address advertised by the remote system agent.	Not supported

IldpV2RemUnknownTLVTable

About this table

Use this table to display the unrecognized TLVs received from neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, and IldpV2RemUnknownTLVType.

The table OID is 1.3.111.2.802.1.1.13.1.4.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2RemUnknownTLVType (1.3.111.2.802.1.1.13.1.4.3.1.1)	not-accessible	Unsigned32	Unsigned32 (9..126)	TLV type.	As per the MIB.
IldpV2RemUnknownTLVInfo (1.3.111.2.802.1.1.13.1.4.3.1.2)	read-only	OCTET STRING	OCTET STRING (0..511)	TLV string.	As per the MIB.

IldpV2RemOrgDefInfoTable

About this table

Use this table to display the neighbor organizationally defined information not recognized by the local system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are IldpV2RemTimeMark, IldpV2RemLocalIfIndex, IldpV2RemLocalDestMACAddress, IldpV2RemIndex, IldpV2RemOrgDefInfoOUI, IldpV2RemOrgDefInfoSubtype, and IldpV2RemOrgDefInfoIndex.

The table OID is 1.3.111.2.802.1.1.13.1.4.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
IldpV2RemOrgDefInfoOUI (1.3.111.2.802.1.1.13.1.4.4.1.1)	not-accessible	OCTET STRING	OCTET STRING (3)	Organizationally Unique Identifier (OUI).	As per the MIB.
IldpV2RemOrgDefInfoSubtype (1.3.111.2.802.1.1.13.1.4.4.1.2)	not-accessible	Unsigned32	Unsigned32 (1..255)	Subtype of the organizationally defined information.	As per the MIB.
IldpV2RemOrgDefInfoIndex (1.3.111.2.802.1.1.13.1.4.4.1.3)	not-accessible	Unsigned32	Unsigned32 (1..2147483647)	Index of the organizationally defined information.	As per the MIB.

IldpV2RemOrgDef Info (1.3.111.2.802.1.1.13.1.4.4.1.4)	read-only	OCTET STRING	OCTET STRING (0..507)	Organizationally defined information.	As per the MIB.
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Notifications

IldpV2RemTablesChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.111.2.802.1.1.13.0.0.1	Neighbor events.	Informational	-	-	OFF

Description

This notification is generated when the value of the IldpV2StatsRemTableLastChangeTime object changes. You can set the notification transmission interval by configuring the IldpV2NotificationInterval object.

Status control

ON

CLI: Use the `lldp notification remote-change enable` command.

MIB: Set the IldpV2PortConfigNotificationEnable object to true(1).

OFF

CLI: Use the `undo lldp notification remote-change enable` command.

MIB: Set the IldpV2PortConfigNotificationEnable object to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
IldpV2StatsRemTablesInserts (1.3.111.2.802.1.1.13.1.2.2)	Neighbor creation.	No	ZeroBasedCounter32	Standard MIB values.
IldpV2StatsRemTablesDeletes (1.3.111.2.802.1.1.13.1.2.3)	Neighbor deletion.	No	ZeroBasedCounter32	Standard MIB values.
IldpV2StatsRemTablesDrops (1.3.111.2.802.1.1.13.1.2.4)	Neighbor discard.	No	ZeroBasedCounter32	Standard MIB values.
IldpV2StatsRemTablesAgeouts (1.3.111.2.802.1.1.13.1.2.5)	Neighbor ageout.	No	ZeroBasedCounter32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the topology changes are as expected.

If you cannot resolve the issue, contact H3C Support.

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MAU-MIB

About this MIB

This MIB is defined in RFC 3636 and contains interface media attachment unit (MAU) information.

The document might not be updated in time. For the latest detailed information, see the official document at <https://www.iana.org/assignments/ianamau-mib/ianamau-mib>.

MIB file name

rfc3636-mau.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).snmpDot3MauMgt(26)

Tabular objects

ifMauTable

About this table

Use this table to obtain the interface MAU state.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifMauIfIndex and ifMauIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifMauIfIndex (1.3.6.1.2.1.26.2.1.1)	read-only	InterfaceIndex	Standard MIB values.	Index of the interface in this entry.	As per the MIB.
ifMauIndex (1.3.6.1.2.1.26.2.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Interface MAU index.	As per the MIB.
ifMauType (1.3.6.1.2.1.26.2.1.3)	read-only	AutonomousType	Standard MIB values.	Interface MAU operation type. The value (1) indicates autonegotiation. The value (2) indicates autonegotiation is not enabled or applied on an interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifMauStatus (1.3.6.1.2.1.26.2.1.1.4)	read-write	INTEGER	other(1), unknown(2), operational(3), standby(4), shutdown(5), reset(6)	Current state of the interface MAU.	The object can only be read.
ifMauMediaAvailable (1.3.6.1.2.1.26.2.1.1.5)	read-only	INTEGER	other(1), unknown(2), available(3), notAvailable(4), remoteFault(5), invalidSignal(6), remoteJabber(7), remoteLinkLoss(8), remoteTest(9), offline(10), autoNegError(11), pmdLinkFault(12), wisFrameLoss(13), , wisSignalLoss(14), , pcsLinkFault(15), excessiveBER(16), , dxsLinkFault(17), pxsLinkFault(18)	Current availability state of the interface MAU.	As per the MIB.
ifMauMediaAvailableStateExits (1.3.6.1.2.1.26.2.1.1.6)	read-only	Counter32	Standard MIB values.	Number of switchovers from state available(3) to another state on an interface MAU.	As per the MIB.
ifMauJabberState (1.3.6.1.2.1.26.2.1.1.7)	read-only	INTEGER	other(1), unknown(2), noJabber(3), jabbering(4)	Jabber state of an interface MAU.	As per the MIB.
ifMauJabberingStateEnters (1.3.6.1.2.1.26.2.1.1.8)	read-only	Counter32	Standard MIB values.	Number of the jabber state switchovers to the jabbering(4) state on an interface MAU.	As per the MIB.
ifMauFalseCarriers (1.3.6.1.2.1.26.2.1.1.9)	read-only	Counter32	Standard MIB values.	Number of false carrier events on an interface MAU.	As per the MIB.
ifMauTypeList (1.3.6.1.2.1.26.2.1.1.10)	read-only	Integer32	Standard MIB values.	Interface MAU type list (as a best practice, do not use this object).	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifMauDefaultType (1.3.6.1.2.1.26.2.1.11)	read-write	AutonomousType	Standard MIB values.	Default interface MAU type.	The object can only be read.
ifMauAutoNegSupported (1.3.6.1.2.1.26.2.1.12)	read-only	TruthValue	true(1), false(2)	Whether an interface MAU supports autonegotiation.	As per the MIB.
ifMauTypeListBits (1.3.6.1.2.1.26.2.1.13)	read-only	BITS	bOther(0), bAUI(1), b10base5(2), bFoil(3), b10base2(4), b10baseT(5), b10baseFP(6), b10baseFB(7), b10baseFL(8), b10broad36(9), b10baseTHD(10), b10baseTFD(11), b10baseFLHD(12), , b10baseFLFD(13), , b100baseT4(14), b100baseTXHD(15), b100baseTXFD(16), b100baseFXHD(17), b100baseFXFD(18), b100baseT2HD(19), b100baseT2FD(20), b1000baseXHD(21), b1000baseXFD(22), b1000baseLXHD(23), b1000baseLXFD(24), b1000baseSXHD(25), b1000baseSXFD(26), b1000baseCXHD(27), b1000baseCXFD(28), b1000baseTHD(29)	Set of possible IEEE 802.3 types that the MAU could be.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			9), b1000baseTFD(30), b10GbaseX(31), b10GbaseLX4(32), , b10GbaseR(33), b10GbaseER(34), b10GbaseLR(35), b10GbaseSR(36), b10GbaseW(37), b10GbaseEW(38), , b10GbaseLW(39), b10GbaseSW(40), , -- new since RFC 3636 b10GbaseCX4(41), b2BaseTL(42), b10PassTS(43), b100BaseBX10D(44), b100BaseBX10U(45), b100BaseLX10(46), b1000BaseBX10D(47), b1000BaseBX10U(48), b1000BaseLX10(49), b1000BasePX10D(50), b1000BasePX10U(51), b1000BasePX20D(52), b1000BasePX20U(53), b10GbaseT(54), b10GbaseLRM(55), b1000baseKX(56), , b10GbaseKX4(57), , b10GbaseKR(58), b10G1GbasePRXD1(59), b10G1GbasePRXD2(60),		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			b10G1GbasePRX D3(61), b10G1GbasePRX U1(62), b10G1GbasePRX U2(63), b10G1GbasePRX U3(64), b10GbasePRD1(6 5), b10GbasePRD2(6 6), b10GbasePRD3(6 7), b10GbasePRU1(6 8), b10GbasePRU3(6 9), b40GbaseKR4(70), b40GbaseCR4(71), b40GbaseSR4(72), b40GbaseFR(73), b40GbaseLR4(74) , b100GbaseCR10(75), b100GbaseSR10(76), b100GbaseLR4(7 7), b100GbaseER4(7 8), b1000baseT1(79), b1000basePX30D (80), b1000basePX30U (81), b1000basePX40D (82), b1000basePX40U (83), b10G1GbasePRX D4(84), b10G1GbasePRX U4(85), b10GbasePRD4(8 6), b10GbasePRU4(8 7), b25GbaseCR(88), b25GbaseCRS(89) ,		

Object (OID)	Access	Syntax	Value range	Description	Implementation
			b25GbaseKR(90), b25GbaseKRS(91), b25GbaseR(92), b25GbaseSR(93), b25GbaseT(94), b40GbaseER4(95), b40GbaseR(96), b40GbaseT(97), b100GbaseCR4(98), b100GbaseKR4(99), b100GbaseKP4(100), b100GbaseR(101), ', b100GbaseSR4(102), b2p5GbaseT(103), ', b5GbaseT(104), b100baseT1(105), b1000baseRHA(106), b1000baseRHB(107), b1000baseRHC(108), b2p5GbaseKX(109), b2p5GbaseX(110), ', b5GbaseKR(111), b5GbaseR(112), b10GpassXR(113), b25GbaseLR(114), ', b25GbaseER(115), b50GbaseR(116), b50GbaseCR(117), b50GbaseKR(118), b50GbaseSR(119), b50GbaseFR(120), b50GbaseLR(121), ', b50GbaseER(122)		

Object (OID)	Access	Syntax	Value range	Description	Implementation
), b100GbaseCR2(123), b100GbaseKR2(124), b100GbaseSR2(125), b100GbaseDR(126), b200GbaseR(127), , b200GbaseDR4(128), b200GbaseFR4(129), b200GbaseLR4(130), b200GbaseCR4(131), b200GbaseKR4(132), b200GbaseSR4(133), b200GbaseER4(134), b400GbaseR(135), , b400GbaseSR16(136), b400GbaseDR4(137), b400GbaseFR8(138), b400GbaseLR8(139), b400GbaseER8(140), b10baseT1L(141), b10baseT1SHD(142), b10baseT1SMD(143), b10baseT1SFD(144),		
ifMauHCFALSECarriers (1.3.6.1.2.1.26.2.1.1.14)	read-only	Counter64	Standard MIB values.	Number of false carrier events on an interface MAU. A 64-bit counter is used to avoid counter rollover.	As per the MIB.

ifJackTable

About this table

Use this table to obtain the external jack information of an interface MAU.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifMauIfIndex, ifMauIndex, and ifJackIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifJackIndex (1.3.6.1.2.1.26.2.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of the external jack of an interface MAU.	As per the MIB.
ifJackType (1.3.6.1.2.1.26.2.2.1.2)	read-only	JackType	Standard MIB values.	Type of the external jack of an interface MAU.	As per the MIB.

ifMauAutoNegTable

About this table

Use this table to obtain the autonegotiation information of an interface MAU.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifMauIfIndex and ifMauIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ifMauAutoNegAdminStatus (1.3.6.1.2.1.26.5.1.1.1)	read-write	INTEGER	enabled(1), disabled(2)	Autonegotiation enabling state of an interface MAU.	The object can only be read.
ifMauAutoNegRemoteSignaling (1.3.6.1.2.1.26.5.1.1.2)	read-only	INTEGER	detected(1), notdetected(2)	Whether the remote end of the link is using autonegotiation signaling.	As per the MIB.
ifMauAutoNegConfig (1.3.6.1.2.1.26.5.1.1.4)	read-only	INTEGER	other(1), configuring(2), complete(3), disabled(4), parallelDetectFail(5)	Current autonegotiation state of an interface MAU.	As per the MIB.
ifMauAutoNegCapability (1.3.6.1.2.1.26.5.1.1.5)	read-only	Integer32	Standard MIB values.	Autonegotiation type list of an interface MAU.	As per the MIB.
ifMauAutoNegCapAdvertised	read-write	Integer32	Standard MIB values.	Autonegotiation type list advertised	The object can only be read.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.26.5.1.1.6)				by an interface MAU.	
ifMauAutoNegCapReceived (1.3.6.1.2.1.26.5.1.1.7)	read-only	Integer32	Standard MIB values.	Received autonegotiation type list from a remote autonegotiation entity.	As per the MIB.
ifMauAutoNegRestart (1.3.6.1.2.1.26.5.1.1.8)	read-write	INTEGER	restart(1), norestart(2)	Whether autonegotiation will be restarted on an interface MAU.	The object can only be read.
ifMauAutoNegCapabilityBits (1.3.6.1.2.1.26.5.1.1.9)	read-only	BITS	bOther(0), b10baseT(1), b10baseTFD(2), b100baseT4(3), b100baseTX(4), b100baseTXFD(5), , b100baseT2(6), b100baseT2FD(7), , bfxPause(8), bfxAPause(9), bfxSPause(10), bfxBPAuse(11), b1000baseX(12), b1000baseXFD(13), b1000baseT(14), b1000baseTFD(15), b10GbaseT(16), b1000baseKX(17), , b10GbaseKX4(18), , b10GbaseKR(19), b40GbaseKR4(20), b40GbaseCR4(21), , b100GbaseCR10(22), b1000baseT1(23), b25GbaseRS(24), b25GbaseR(25), bRSFEC25Greq(26), bBaseFEC25Greq(27), b25GbaseT(28), b40GbaseT(29),	Set of capabilities of the local autonegotiation entity.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			b100GbaseCR4(30), b100GbaseKR4(31), b100GbaseKP4(32), bForceMS(33), b2p5GbaseT(34), b5GBaseT(35), b2p5GbaseKX(36), b5GbaseKR(37), b50GbaseR(38), b100GbaseR2(39), , b200GbaseR4(40), , b10baseT1L(41), b10baseT1S(42),		
ifMauAutoNegCap AdvertisedBits (1.3.6.1.2.1.26.5.1.1.10)	read-write	BITS	bOther(0), b10baseT(1), b10baseTFD(2), b100baseT4(3), b100baseTX(4), b100baseTXFD(5), , b100baseT2(6), b100baseT2FD(7), , bFdxPause(8), bFdxAPause(9), bFdxSPause(10), bFdxBPAuse(11), b1000baseX(12), b1000baseXFD(13), b1000baseT(14), b1000baseTFD(15), b10GbaseT(16), b1000baseKX(17), , b10GbaseKX4(18), , b10GbaseKR(19), b40GbaseKR4(20), , b40GbaseCR4(21), , b100GbaseCR10(22), b1000baseT1(23),	Set of capabilities advertised by the local autonegotiation entity.	The object can only be read.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			b25GbaseRS(24), b25GbaseR(25), bRSFEC25Greq(26), bBaseFEC25Greq(27), b25GbaseT(28), b40GbaseT(29), b100GbaseCR4(30), b100GbaseKR4(31), b100GbaseKP4(32), bForceMS(33), b2p5GbaseT(34), b5GBaseT(35), b2p5GbaseKX(36), b5GbaseKR(37), b50GbaseR(38), b100GbaseR2(39), b200GbaseR4(40), b10baseT1L(41), b10baseT1S(42),		
ifMauAutoNegCap ReceivedBits (1.3.6.1.2.1.26.5.1.11)	read-only	BITS	bOther(0), b10baseT(1), b10baseTFD(2), b100baseT4(3), b100baseTX(4), b100baseTXFD(5), b100baseT2(6), b100baseT2FD(7), bFdxPause(8), bFdxAPause(9), bFdxSPause(10), bFdxBPause(11), b1000baseX(12), b1000baseXFD(13), b1000baseT(14), b1000baseTFD(15), b10GbaseT(16), b1000baseKX(17), b10GbaseKX4(18),	Set of capabilities received from the remote autonegotiation entity.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			b10GbaseKR(19), b40GbaseKR4(20), b40GbaseCR4(21), b100GbaseCR10(22), b1000baseT1(23), b25GbaseRS(24), b25GbaseR(25), bRSFEC25Greq(26), bBaseFEC25Greq(27), b25GbaseT(28), b40GbaseT(29), b100GbaseCR4(30), b100GbaseKR4(31), b100GbaseKP4(32), bForceMS(33), b2p5GbaseT(34), b5GBaseT(35), b2p5GbaseKX(36), b5GbaseKR(37), b50GbaseR(38), b100GbaseR2(39), b200GbaseR4(40), b10baseT1L(41), b10baseT1S(42),		
ifMauAutoNegRemoteFaultAdvertised (1.3.6.1.2.1.26.5.1.1.12)	read-write	INTEGER	noError(1), offline(2), linkFailure(3), autoNegError(4)	Local fault indications that this MAU has detected and will advertise at the next autonegotiation interaction.	The object can only be read.
ifMauAutoNegRemoteFaultReceived (1.3.6.1.2.1.26.5.1.1.13)	read-only	INTEGER	noError(1), offline(2), linkFailure(3), autoNegError(4)	Fault indications received by the local end from the far end.	As per the MIB.

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P-BRIDGE-MIB

About this MIB

Use this table to manage the priorities and multicast filtering defined in IEEE 802.1D-1998.

MIB file name

Rfc4363-pbridge.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2().dod1dBridge(17).pBridgeMIB(6)

Scalar objects

OID of this table is: 1.3.6.1.2.1.17.6.1.1

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dDeviceCapabilities (1.3.6.1.2.1.17.6.1.1)	read-only	BITS	dot1dExtendedFilteringServices(0), dot1dTrafficClasses(1), dot1qStaticEntryIndividualPort(2), dot1qVLCapable(3), dot1qSVLCapable(4), dot1qHybridCapable(5), dot1qConfigurablePvidTagging(6), dot1dLocalVlanCapable(7)	Device capabilities.	As per the MIB.
dot1dTrafficClassesEnabled (1.3.6.1.2.1.17.6.1.1.2)	read-write	TruthValue	true(1), false(2)	Whether traffic classification is supported.	Read-only.
dot1dGmrpStatus (1.3.6.1.2.1.17.6.1.1.3)	read-write	EnabledStatus	enabled(1), disabled(2)	GMRP enabling state.	Not supported

Tabular objects

dot1dPortCapabilitiesTable

OID of this table is: 1.3.6.1.2.1.17.6.1.1.4

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1dPortCapabilities (1.3.6.1.2.1.17.6.1.1.4.1.1)	read-only	BITS	dot1qDot1qTagging(0) , dot1qConfigurableAcceptableFrameTypes(1) , dot1qIngressFiltering(2)	Port capabilities.	As per the MIB.

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Q-BRIDGE-MIB

About this MIB

Use this MIB to manage Virtual Bridged Local Area Networks, as defined by IEEE 802.1Q-2003.

MIB file name

rfc4363-qbridge.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).dot1dBridge(17).qBridgeMIB(7)

Scalar objects

dot1qVlanNumDeletes

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qVlanNumDeletes (1.3.6.1.2.1.17.7.1.4.1)	read-only	Counter32	Standard MIB values.	The number of times a VLAN entry has been deleted from the dot1qVlanCurrentTable (for any reason).	Not supported

dot1qNextFreeLocalVlanIndex

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qNextFreeLocalVlanIndex (1.3.6.1.2.1.17.7.1.4.4)	read-only	Integer32	Integer32 (0 4096..2147483647)	The next available value for dot1qVlanIndex of a local VLAN entry in dot1qVlanStaticTable.	Not supported

dot1qConstraintSetDefault

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qConstraintSetDefault (1.3.6.1.2.1.17.7.1.4.9)	read-write	Integer32	Integer32 (0..65535)	The identity of the constraint set to which a VLAN belongs, if there is not an explicit entry for that VLAN in dot1qLearningConstraintsTable.	Not supported

dot1qConstraintTypeDefault

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qConstraintTypeDefault (1.3.6.1.2.1.17.7.1.4.10)	read-write	INTEGER	independent(1) shared(2)	The type of constraint set to which a VLAN belongs.	Supports only the read operation.

dot1qVlanVersionNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qVlanVersionNumber (1.3.6.1.2.1.17.7.1.1.1)	read-only	INTEGER	version1(1)	The version number of IEEE 802.1Q that this device supports.	As per the MIB.

dot1qMaxVlanId

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qMaxVlanId (1.3.6.1.2.1.17.7.1.1.2)	read-only	VlanId	Standard MIB values.	The maximum IEEE 802.1Q VLAN ID that this device supports.	As per the MIB.

dot1qMaxSupportedVlans

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qMaxSupportedVlans (1.3.6.1.2.1.17.7.1.1.3)	read-only	Unsigned32	Standard MIB values.	The maximum number of IEEE 802.1Q VLANs that this device supports.	As per the MIB.

dot1qNumVlans

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qNumVlans (1.3.6.1.2.1.17.7.1.1.4)	read-only	Unsigned32	Standard MIB values.	The current number of IEEE 802.1Q VLANs that are configured in this device.	As per the MIB.

dot1qGvrpStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qGvrpStatus (1.3.6.1.2.1.17.7.1.1.5)	read-write	EnabledStatus	enabled(1) disabled(2)	The administrative status requested by management for GVRP: <ul style="list-style-type: none">enable(1)—GVRP should be enabled on this device, on all ports for which it has not been specifically disabled.disable(2)—GVRP is disabled on all ports.	Not supported

Tabular objects

dot1qFdbTable

About this table

Use this table to display configuration and control information for each filtering database currently operating on this device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot1qFdbId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qFdbId (1.3.6.1.2.1.17.7.1.2.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	The identity of this filtering database.	As per the MIB.
dot1qFdbDynamicCount (1.3.6.1.2.1.17.7.1.2.1.1.2)	read-only	Counter32	Standard MIB values.	The current number of dynamic entries in this filtering database.	As per the MIB.

dot1qTpFdbTable

About this table

Use this table to display information about unicast entries for which the device has forwarding and/or filtering information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are dot1qFdbId and dot1qTpFdbAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qTpFdbAddress (1.3.6.1.2.1.17.7.1.2.2.1.1)	not-accessible	MacAddress	Standard MIB values.	A unicast MAC address for which the device has forwarding and/or filtering information.	As per the MIB.
dot1qTpFdbPort (1.3.6.1.2.1.17.7.1.2.2.1.2)	read-only	Integer32	Integer32 (0..65535)	The port number of the port on which a frame having a source address equal to the value of the corresponding instance of dot1qTpFdbAddress has been seen. A value of 0 indicates that the port number has not been learned but that the device does have some forwarding/filtering information about this address.	As per the MIB.
dot1qTpFdbStatus (1.3.6.1.2.1.17.7.1.2.2.1.3)	read-only	INTEGER	other(1) invalid(2) learned(3) self(4) mgmt(5)	The status of this entry.	Manually added dynamic MAC address entries are counted as learned MAC address entries.

dot1qTpGroupTable

About this table

Use this table to obtain filtering information for VLANs configured into the bridge by (local or network) management, or learned dynamically.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are dot1qVlanIndex and dot1qTpGroupAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qTpGroupAddresses (1.3.6.1.2.1.17.7.1.2.3.1.1)	not-accessible	MacAddress	Standard MIB values.	The destination group MAC address in a frame to which this entry's filtering information applies.	As per the MIB.
dot1qTpGroupEgressPorts (1.3.6.1.2.1.17.7.1.2.3.1.2)	read-only	PortList	Standard MIB values.	The complete set of ports, in this VLAN, to which frames destined for this Group MAC address are currently being explicitly forwarded.	As per the MIB.
dot1qTpGroupLearnt (1.3.6.1.2.1.17.7.1.2.3.1.3)	read-only	PortList	Standard MIB values.	The subset of ports in dot1qTpGroupEgressPorts that were learned by GMRP or some other dynamic mechanism, in this filtering database.	As per the MIB.

dot1qForwardAllTable

About this table

Use this table to obtain forwarding information for each VLAN, specifying the set of ports to which forwarding of all multicasts applies.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qForwardAllPorts (1.3.6.1.2.1.17.7.1.2.4.1.1)	read-only	PortList	Standard MIB values.	The complete set of ports in this VLAN to which all multicast group-addressed frames are to be forwarded. This includes ports for which this need has been determined dynamically by GMRP, or configured statically by management.	Not supported
dot1qForwardAllStaticPorts (1.3.6.1.2.1.17.7.1.2.4.1.2)	read-write	PortList	Standard MIB values.	The set of ports configured by management in this VLAN to which all multicast group-addressed frames are to be forwarded.	Not supported
dot1qForwardAllForbiddenPorts	read-write	PortList	Standard MIB	The set of ports configured by management in this VLAN for which the Service	Not supported

(1.3.6.1.2.1.17.7.1.2.4.1.3)			values.	Requirement attribute Forward All Multicast Groups may not be dynamically registered by GMRP.	
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dot1qForwardUnregisteredTable

About this table

Use this table to obtain forwarding information for each VLAN, specifying the set of ports to which forwarding of multicast group-addressed frames for which no more specific forwarding information applies.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qForwardUnregistered Ports (1.3.6.1.2.1.17.7.1.2.5.1.1)	read-only	PortList	Standard MIB values.	The complete set of ports in this VLAN to which multicast group-addressed frames for which there is no more specific forwarding information will be forwarded. This includes ports for which this need has been determined dynamically by GMRP, or configured statically by management.	Not supported
dot1qForwardUnregistered StaticPorts (1.3.6.1.2.1.17.7.1.2.5.1.2)	read-write	PortList	Standard MIB values.	The set of ports configured by management, in this VLAN, to which multicast group-addressed frames for which there is no more specific forwarding information.	Not supported
dot1qForwardUnregistered ForbiddenPorts (1.3.6.1.2.1.17.7.1.2.5.1.3)	read-write	PortList	Standard MIB values.	The set of ports configured by management in this VLAN for which the Service Requirement attribute Forward Unregistered Multicast Groups may not be dynamically registered by GMRP.	Not supported

dot1qStaticUnicastTable

About this table

Use this table to obtain filtering information for unicast MAC addresses for each filtering database.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1qFdbId, dot1qStaticUnicastAddress, and dot1qStaticUnicastReceivePort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qStaticUnicastAddress (1.3.6.1.2.1.17.7.1.3.1.1.1)	not-accessible	MacAddress	Standard MIB values.	The destination MAC address in a frame to which this entry's filtering information applies.	Not supported
dot1qStaticUnicastReceivePort (1.3.6.1.2.1.17.7.1.3.1.1.2)	not-accessible	Integer32	Integer32 (0..65535)	The port number of the port from which a frame must be received in order for this entry's filtering information to apply. A value of 0 indicates that this entry applies on all ports of the device for which there is no other applicable entry.	Not supported
dot1qStaticUnicastAllowedToGoTo (1.3.6.1.2.1.17.7.1.3.1.1.3)	read-write	PortList	Standard MIB values.	The set of ports for which a frame with a specific unicast address will be flooded in the event that it has not been learned.	Not supported
dot1qStaticUnicastStatus (1.3.6.1.2.1.17.7.1.3.1.1.4)	read-write	INTEGER	other(1) invalid(2) permanent(3) deleteOnReset(4) deleteOnTimeout(5)	Status of this entry.	Not supported

dot1qStaticMulticastTable

About this table

Use this table to obtain filtering information for multicast and broadcast MAC addresses for each VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1qVlanIndex, dot1qStaticMulticastAddress, and dot1qStaticMulticastReceivePort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qStaticMulticastAddress (1.3.6.1.2.1.17.7.1.3.2.1.1)	not-accessible	MacAddress	Standard MIB values.	The destination MAC address in a frame to which this entry's filtering information applies.	Not supported
dot1qStaticMulticastReceivePort (1.3.6.1.2.1.17.7.1.3.2.1.2)	not-accessible	Integer32	Integer32 (0..65535)	The port number of the port from which a frame must be received in order for this entry's filtering information to apply. A value of 0 indicates that this entry applies on all ports of the device for which there is no other applicable entry.	Not supported
dot1qStaticMulticastStaticEgressPorts (1.3.6.1.2.1.17.7.1.3.2.1.3)	read-write	PortList	Standard MIB values.	The set of ports to which frames received from a specific port and destined for a specific multicast or broadcast MAC address must be forwarded.	Not supported
dot1qStaticMulticastForbiddenEgressPorts (1.3.6.1.2.1.17.7.1.3.2.1.4)	read-write	PortList	Standard MIB values.	The set of ports to which frames received from a specific port and destined for a specific multicast or broadcast MAC address must not be forwarded.	Not supported
dot1qStaticMulticastStatus (1.3.6.1.2.1.17.7.1.3.2.1.5)	read-write	INTEGER	other(1) invalid(2) permanent(3) deleteOnReset(4) deleteOnTimeout(5)	Status of this entry.	Not supported

dot1qVlanCurrentTable

About this table

Use this table to obtain current configuration information for each VLAN currently configured into the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are dot1qVlanTimeMark and dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qVlanTimeMark (1.3.6.1.2.1.17.7.1.4.2.1.1)	not-accessible	TimeFilter	Standard MIB values.	A time filter for this entry.	As per the MIB.
dot1qVlanIndex (1.3.6.1.2.1.17.7.1.4.2.1.2)	not-accessible	VlanIndex	Standard MIB values.	The VLAN-ID or other identifier referring to this VLAN.	As per the MIB.
dot1qVlanFdbld (1.3.6.1.2.1.17.7.1.4.2.1.3)	read-only	Unsigned32	Standard MIB values.	The filtering database used by this VLAN.	As per the MIB.
dot1qVlanCurrentEgressPorts (1.3.6.1.2.1.17.7.1.4.2.1.4)	read-only	PortList	Standard MIB values.	The set of ports that are transmitting traffic for this VLAN as either tagged or untagged frames.	As per the MIB.
dot1qVlanCurrentUntaggedPorts (1.3.6.1.2.1.17.7.1.4.2.1.5)	read-only	PortList	Standard MIB values.	The set of ports that are transmitting traffic for this VLAN as untagged frames.	As per the MIB.
dot1qVlanStatus (1.3.6.1.2.1.17.7.1.4.2.1.6)	read-only	INTEGER	other(1) permanent (2) dynamicGvrp(3)	Status of this VLAN.	As per the MIB.
dot1qVlanCreationTime (1.3.6.1.2.1.17.7.1.4.2.1.7)	read-only	TimeTicks	Standard MIB values.	Time when this VLAN was created.	As per the MIB.

dot1qVlanStaticTable

About this table

Use this table to obtain static configuration information for each VLAN configured into the device.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Not supported	Supported

Columns

The table index is dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qVlanStaticName (1.3.6.1.2.1.17.7.1.4.3.1.1)	read-create	SnmpAdminString	OCTET STRING (0..32)	VLAN name.	If the name string is too long or empty, a default name in the vlan <i>VLAN ID</i> format applies.
dot1qVlanStaticEgressPorts (1.3.6.1.2.1.17.7.1.4.3.1.2)	read-create	PortList	Standard MIB values.	The set of ports that are permanently assigned to the egress list for this VLAN by management.	As per the MIB.
dot1qVlanForbiddenEgressPorts (1.3.6.1.2.1.17.7.1.4.3.1.3)	read-create	PortList	Standard MIB values.	The set of ports that are prohibited by management from being included in the egress list for this VLAN.	Not supported
dot1qVlanStaticUntaggedPorts (1.3.6.1.2.1.17.7.1.4.3.1.4)	read-create	PortList	Standard MIB values.	The set of ports that should transmit egress packets for this VLAN as untagged.	As per the MIB.
dot1qVlanStaticRowStatus (1.3.6.1.2.1.17.7.1.4.3.1.5)	read-create	RowStatus	Standard MIB values.	Status of this VLAN.	Supports only active(1), createAndGo(4) and destroy(6). You cannot delete the default VLAN.

dot1qPortVlanTable

About this table

Use this table to obtain per-port control and status information for VLAN configuration in the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qPvid (1.3.6.1.2.1.17.7.1.4.5.1.1)	read-write	VlanIndex	Standard MIB values.	The PVID, the VLAN ID assigned to untagged frames received on this port.	Does not support the write operation on an access port.

dot1qPortAcceptableFrameTypes (1.3.6.1.2.1.17.7.1.4.5.1.2)	read-write	INTEGER	admitAll(1) admitOnlyVlanTagged(2)	Packet types that this port can receive: <ul style="list-style-type: none"> • admitOnlyVlanTagged(2)—Drop untagged packets. • admitAll(1)—Accept untagged packets and assign them the PVID. 	Supports only the read operation.
dot1qPortIngressFiltering (1.3.6.1.2.1.17.7.1.4.5.1.3)	read-write	TruthValue	true(1), false(2)	When this is true(1), the device will discard incoming frames for VLANs that do not include this port in its member set. When false(2), the port will accept all incoming frames.	Supports only the read operation.
dot1qPortGvrpStatus (1.3.6.1.2.1.17.7.1.4.5.1.4)	read-write	EnabledStatus	enabled(1), disabled(2)	The state of GVRP operation on this port: <ul style="list-style-type: none"> • enabled(1)—GVRP is enabled. • disabled(2)—GVRP is disabled. This port drops any incoming GVRP frames. 	Not supported
dot1qPortGvrpFailedRegistrations (1.3.6.1.2.1.17.7.1.4.5.1.5)	read-only	Counter32	Standard MIB values.	The total number of failed GVRP registrations, for any reason, on this port.	Not supported
dot1qPortGvrpLastPduOrigin (1.3.6.1.2.1.17.7.1.4.5.1.6)	read-only	MacAddresses	Standard MIB values.	The source MAC address of the last GVRP message received on this port.	Not supported
dot1qPortRestrictedVlanRegistration (1.3.6.1.2.1.17.7.1.4.5.1.7)	read-write	TruthValue	true(1), false(2)	The state of restricted vlan registration on this port. If the value of this object is true(1), then creation of a new dynamic VLAN entry is permitted only if there is a static vlan registration entry for the VLAN concerned, in which the registrar administrative control value for this port is normal registration.	Not supported

dot1qPortVlanStatisticsTable

About this table

Use this table to obtain per-port, per-VLAN statistics for traffic received. Separate objects are provided for both the most-significant and least-significant bits of statistics counters for ports that are associated with this transparent bridge. The most-significant bit objects are only required on high-capacity interfaces, as defined in the conformance clauses for these objects. This mechanism is provided as a way to read 64-bit counters for agents that support only SNMPv1.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1dBasePort and dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qTpVlanPortInFrames (1.3.6.1.2.1.17.7.1.4.6.1.1)	read-only	Counter32	Standard MIB values.	The number of valid frames received by this port from its segment that were classified as belonging to this VLAN.	Not supported
dot1qTpVlanPortOutFrames (1.3.6.1.2.1.17.7.1.4.6.1.2)	read-only	Counter32	Standard MIB values.	The number of valid frames transmitted by this port to its segment from the local forwarding process for this VLAN.	Not supported
dot1qTpVlanPortInDiscards (1.3.6.1.2.1.17.7.1.4.6.1.3)	read-only	Counter32	Standard MIB values.	The number of valid frames received by this port from its segment that were classified as belonging to this VLAN and that were discarded due to VLAN-related reasons.	Not supported
dot1qTpVlanPortInOverflowFrames (1.3.6.1.2.1.17.7.1.4.6.1.4)	read-only	Counter32	Standard MIB values.	The number of times the associated dot1qTpVlanPortInFrames counter has overflowed.	Not supported
dot1qTpVlanPortOutOverflowFrames (1.3.6.1.2.1.17.7.1.4.6.1.5)	read-only	Counter32	Standard MIB values.	The number of times the associated dot1qTpVlanPortOutFrames counter has overflowed.	Not supported
dot1qTpVlanPortInOverflowDiscards (1.3.6.1.2.1.17.7.1.4.6.1.6)	read-only	Counter32	Standard MIB values.	The number of times the associated dot1qTpVlanPortInDiscards counter has overflowed.	Not supported

dot1qPortVlanHCStatisticsTable

About this table

Use this table to obtain per-port, per-VLAN statistics for traffic on high-capacity interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1dBasePort and dot1qVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qTpVlanPortHCInFrames (1.3.6.1.2.1.17.7.1.4.7.1.1)	read-only	Counter64	Standard MIB values.	The number of valid frames received by this port from its segment that were classified as belonging to this VLAN.	Not supported
dot1qTpVlanPortHCOutFrames (1.3.6.1.2.1.17.7.1.4.7.1.2)	read-only	Counter64	Standard MIB values.	The number of valid frames transmitted by this port to its segment from the local forwarding process for this VLAN.	Not supported
dot1qTpVlanPortHCInDiscards (1.3.6.1.2.1.17.7.1.4.7.1.3)	read-only	Counter64	Standard MIB values.	The number of valid frames received by this port from its segment that were classified as belonging to this VLAN and that were discarded due to VLAN-related reasons.	Not supported

dot1qLearningConstraintsTable

About this table

Use this table to obtain learning constraints for sets of shared and independent VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1qConstraintVlan and dot1qConstraintSet.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1qConstraintVlan (1.3.6.1.2.1.17.7.1.4.8.1.1)	not-accessible	VlanIndex	Standard MIB values.	The index of the row in this table for the VLAN constrained by this entry.	Not supported
dot1qConstraintSet	not-accessible	Integer32	Integer32	The identity of the	Not supported

(1.3.6.1.2.1.17.7.1.4.8.1.2)			(0..65535)	constraint set to which dot1qConstraintVlan belongs.	
dot1qConstraintType (1.3.6.1.2.1.17.7.1.4.8.1.3)	read-create	INTEGER	independent(1), shared(2)	<p>The type of constraint this entry defines:</p> <ul style="list-style-type: none"> independent(1)—The VLAN uses a filtering database independent from all other VLANs in the same set. shared(2)—The VLAN shares the same filtering database as all other VLANs in the same set. 	Not supported
dot1qConstraintStatus (1.3.6.1.2.1.17.7.1.4.8.1.4)	read-create	RowStatus	Standard MIB values.	Status of this row.	Not supported

dot1vProtocolGroupTable

About this table

Use this table to obtain mappings from protocol templates to protocol group identifiers used for port-and-protocol-based VLAN classification.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1vProtocolTemplateFrameType and dot1vProtocolTemplateProtocolValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1vProtocolTemplateFrameType (1.3.6.1.2.1.17.7.1.5.1.1.1)	not-accessible	INTEGER	ethernet(1) rfc1042(2) snap8021H(3) snapOther(4) llcOther(5)	Data-link encapsulation format.	Not supported
dot1vProtocolTemplateProtocolValue (1.3.6.1.2.1.17.7.1.5.1.1.2)	not-accessible	OCTET STRING	OCTET STRING SIZE (2 5)	The identification of the protocol above the data-link layer in a protocol template.	Not supported
dot1vProtocolGroupId (1.3.6.1.2.1.17.7.1.5.1.1.3)	read-create	Integer32	Integer32 (0..2147483647)	A group of protocols that are associated together when assigning a VID to a frame.	Not supported
dot1vProtocolGroupRowStatus	read-create	RowStatus	Standard MIB	Status of this row.	Not supported

(1.3.6.1.2.1.17.7.1.5.1.1.4)			values.		
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dot1vProtocolPortTable

About this table

Use this table to obtain VID sets used for port-and-protocol-based VLAN classification.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are dot1dBasePort and dot1vProtocolPortGroupId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1vProtocolPortGroupId (1.3.6.1.2.1.17.7.1.5.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	A group of protocols in the protocol group database.	Not supported
dot1vProtocolPortGroupVid (1.3.6.1.2.1.17.7.1.5.2.1.2)	read-create	Integer32	Integer32 (1..4094)	The VID associated with a group of protocols for each port.	Not supported
dot1vProtocolPortRowStatus (1.3.6.1.2.1.17.7.1.5.2.1.3)	read-create	RowStatus	Standard MIB values.	Status of this row.	Not supported

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HH3C-ARP-RATELIMIT-MIB

About this MIB

This MIB contains ARP rate limiting notifications.

MIB file name

hh3c-arp-ratelimit.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cARPRatelimit(110)

Notifications

hh3cARPRatelimitOverspeedTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.110.1.1.0.1	Rate of ARP packets delivered to the CPU on a device exceeded the threshold.	Informational	Warning	N/A	OFF

Description

This notification is generated when the rate of ARP packets delivered to the CPU on a device exceeds the threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp rate-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp rate-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.110.1.1.1.1 (hh3cARPRatelimitTrapVer)	Version of the trap.	No	Unsigned32	1
1.3.6.1.4.1.25506.2.110.1.1.1.2 (hh3cARPRatelimitTrapCount)	Alarm threshold that the ARP packet rate exceeded.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.110.1.1.1.3 (hh3cARPRatelimitTrapMsg)	Trap messages.	No	OCTET STRING	SIZE (1..254)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-ARP-SUPPRESSION-MIB

About this MIB

Use this MIB to realize the ARP suppression feature.

MIB file name

hh3c-arp-suppression.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cARPSuppression(220)

Tabular objects

hh3cARPSuppressionVsiTable

About this table

This table obtains ARP suppression entries based on VSIs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cARPSuppressionChassis, hh3cARPSuppressionSlot, hh3cARPSuppressionVsiName, and hh3cARPSuppressionIpAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cARPSuppressionChassis (1.3.6.1.4.1.25506.2.220.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number.	As per the MIB.
hh3cARPSuppressionSlot (1.3.6.1.4.1.25506.2.220.1.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number.	As per the MIB.
hh3cARPSuppressionVsiName (1.3.6.1.4.1.25506.2.220.1.1.3)	not-accessible	DisplayString	OCTET STRING(31)	VSI instance name.	As per the MIB.
hh3cARPSuppressionIpAddr (1.3.6.1.4.1.25506.2.220.1.1.4)	not-accessible	IpAddress	Standard MIB values.	IP address.	As per the MIB.
hh3cARPSuppressionMacAddr (1.3.6.1.4.1.25506.2.220.1.1.5)	read-only	MacAddress	OCTET STRING (6)	MAC address.	As per the MIB.
hh3cARPSuppressionLinkID (1.3.6.1.4.1.25506.2.220.1.1.6)	read-only	Unsigned32	Standard MIB values.	Link ID.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementati on
hh3cARPSuppressionAging (1.3.6.1.4.1.25506.2.220.1.1.7)	read-only	Unsigned32	Standard MIB values.	Aging timer.	As per the MIB.

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HH3C-ARP-TRAP-MIB

About this MIB

Use this MIB to output notifications for the ARP module.

MIB file name

hh3c-arp-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cARPTrap(217)

Notifications

hh3cARPTrapThresholdAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.1	Number of global ARP entries exceeded the alarm threshold.	Informational	Major	1.3.6.1.4.1.25506.2.217.1.0.2 (hh3cARPTrapThresholdResume)	OFF

Description

This notification is generated when the number of ARP entries on the device exceeds the alarm threshold, which means that the number of ARP entries on the device has approached the specification limit. Please check the ARP entries.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of global ARP entries.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.2.6 (hh3cARPTrapStaticEntryNum)	Number of static ARP entries.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.7 (hh3cARPTrapOtherEntryNum)	Number of other ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

Delete the useless dynamic ARP entries on the device. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cARPTrapThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.2	The number of ARP entries dropped below the alarm threshold.	Informational	Major	N/A	OFF

Description

This notification is generated when the number of ARP entries on the device drops below the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of global ARP entries.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.6 (hh3cARPTrapStaticEntryNum)	Number of static ARP entries.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.7 (hh3cARPTrapOtherEntryNum)	Number of other ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cARPTrapSlotThresholdAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.3	The number of ARP entries on the card exceeded the alarm threshold.	Informational	Major	1.3.6.1.4.1.25506.2.217.1.0.4(hh3cARPTrapSlotThresholdResume)	OFF

Description

This notification is generated when the number of the ARP entries on a card exceeds the threshold, which means that the number of ARP entries on the card has approached the specification limit. Please check the ARP entries.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.1 (hh3cARPTrapEntryChassis)	Chassis number.	No	No	INTEGER
1.3.6.1.4.1.25506.2.217.1.1.2 (hh3cARPTrapEntrySlot)	Slot number.	No	No	INTEGER
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP entries on the card.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

Delete the useless dynamic ARP entries on the card. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cARPTrapSlotThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.4	The number of ARP entries on the card dropped below the alarm threshold.	Informational	Major	N/A	OFF

Description

This notification is generated when the number of ARP entries on the card drops below the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.1 (hh3cARPTrapEntryChassis)	Chassis number.	No	No	INTEGER
1.3.6.1.4.1.25506.2.217.1.1.2 (hh3cARPTrapEntrySlot)	Slot number.	No	No	INTEGER
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP entries on the card.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cARPTrapIfThresholdAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.5	The number of ARP entries on the interface exceeded the	Informational	Major	1.3.6.1.4.1.25506.2.217.1.0.6(hh3cARPTrapIfThresholdResume)	OFF

	alarm threshold.				
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Description

This notification is generated when the number of ARP entries on an interface exceeds the alarm threshold, which means that the number of ARP entries on the interface has approached the specification limit. Please check the ARP entries.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.3 (hh3cARPTrapEntryIfName)	Interface name.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP entries on the interface.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

Delete the useless dynamic ARP entries on the interface. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cARPTrapIfThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.6	The number of ARP entries on the interface dropped below the alarm threshold.	Informational	Major	N/A	OFF

Description

This notification is generated when the number of ARP entries on an interface drops below the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.3 (hh3cARPTrapEntryIfName)	Interface name	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP entries on the interface.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.5 (hh3cARPTrapDynamicEntryNum)	Number of dynamic ARP entries.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cARPTrapSuppThresholdAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.0.7	The number of ARP suppression entries on the device exceeded the alarm threshold.	Informational	Major	1.3.6.1.4.1.25506.2.217.1.0.8(hh3cARPTrapSuppThresholdResume)	OFF

Description

This notification is generated when the number of ARP suppression entries on the device exceeds the alarm threshold, which means that the number of ARP suppression entries has approached the specification limit. Please check the ARP suppression entries.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP suppression entries on the device.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.8 (hh3cARPTrapSuppEntryNum)	Number of ARP suppression entries on the device.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

Delete the useless ARP suppression entries on the device. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cARPTrapSuppThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.1.1.8	The number of ARP suppression entries on the device dropped below the alarm threshold.	Informational	Major	N/A	OFF

Description

This notification is generated when the number of ARP suppression entries on the device drops below the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp entry-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp entry-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.1.1.4 (hh3cARPTrapEntryThreshold)	Alarm threshold for the number of ARP suppression entries on the device.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.1.1.8 (hh3cARPTrapSuppEntryNum)	Number of ARP suppression entries on the device.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cARPTrapMACConflictAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.1	Local MAC address conflicted.	Informational	Major	1.3.6.1.4.1.25506.2.217.2.1.0.2(hh3cARPTrapMACConflictResume)	OFF

Description

This notification is generated when the sender MAC address in the received ARP packet is the same as the MAC address of the local device.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTrapLocalConflictIf)	Interface that received the ARP packet with a duplicate MAC address.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.2 (hh3cARPTrapLocalConflictMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.5 (hh3cARPTrapLocalSrcIp)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTrapLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTrapLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.10 (hh3cARPTrapLocalInboundIf)	Physical interface corresponding to the VLAN interface that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)

Recommended action

No action is required.

hh3cARPTrapMACConflictResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.2	The local MAC address conflict was removed.	Informational	Major	N/A	OFF

Description

This notification is generated when the local MAC address conflict is removed.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTrapLocalConflictIf)	Interface that received the ARP packet with a duplicate MAC address.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.2 (hh3cARPTrapLocalConflictMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.5 (hh3cARPTrapLocalSrcIp)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTrapLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTrapLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.10 (hh3cARPTrapLocalInboundIf)	Physical interface corresponding to the VLAN interface that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTrapMACIPConflictAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.3	Local MAC and IP address conflicted.	Informational	Major	1.3.6.1.4.1.25506.2.217.2.1.0.4(hh3cARPTrapMACIPConflictResume)	OFF

Description

This notification is generated when the sender MAC and IP addresses in the ARP packet are the same as the MAC and IP addresses of the local device.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTrapLocalConflictIf)	Interface that received the ARP packet with duplicate MAC and IP addresses.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.2 (hh3cARPTrapLocalConflictMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.3 (hh3cARPLocalTrapConflictIP)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.6 (hh3cARPTrapLocalDstMac)	Target MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.7 (hh3cARPTrapLocalDstIP)	Target IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTrapLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTrapLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.10 (hh3cARPTrapLocalInboundIf)	Physical interface corresponding to the VLAN interface that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTrapMACIPConflictResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.4	The local MAC and IP address conflict was removed.	Informational	Major	N/A	OFF

Description

This notification is generated when the local MAC and IP address conflict is removed.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTrapLocalConflictIf)	Interface that received the ARP packet with duplicate MAC and IP addresses.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.2 (hh3cARPTrapLocalConflictMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.3 (hh3cARPLocalTrapConflictIP)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.6 (hh3cARPTrapLocalDstMac)	Target MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.7 (hh3cARPTrapLocalDstIP)	Target IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTrapLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTrapLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.10 (hh3cARPTrapLocalInboundIf)	Physical interface corresponding to the VLAN interface that received the ARP	No	OCTET STRING	OCTET STRING (1..47)

OID (object name)	Description	Index	Type	Value range
	packet.			

hh3cARPTrapIPConflictAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.5	Local IP address conflicted.	Informational	Major	1.3.6.1.4.1.25506.2.217.2.1.0.6(hh3cARPTrapMACIPConflictResume)	OFF

Description

This notification is generated when the sender IP address in the ARP packet is the same as the IP address of the local device.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTrapLocalConflictIf)	Interface that received the ARP packet with a duplicate IP address.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.3 (hh3cARPTrapLocalConflictIP)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.5 (hh3cARPTrapLocalSrcMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTrapLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTrapLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTripIPConflictResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.1.0.6	The local IP address conflict was removed.	Informational	Major	N/A	OFF

Description

This notification is generated when the local IP address conflict is removed.

Status control

ON

CLI: Use the `snmp-agent trap enable arp local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.1.1.1 (hh3cARPTripLocalConflictIf)	Interface that received the ARP packet with a duplicate IP address.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.1.1.3 (hh3cARPTripLocalConflictIP)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.1.1.5 (hh3cARPTripLocalSrcMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.1.1.8 (hh3cARPTripLocalPeVlan)	Outer VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.217.2.1.1.9 (hh3cARPTripLocalCeVlan)	Inner VLAN of the ARP packet.	No	INTEGER	Integer32 (1..2147483647)

Recommended action

No action is required.

hh3cARPTripHostMoveAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.2.0.1	The access ports changed	Error	Warning	N/A	OFF

	frequently.				
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Description

This notification is generated when the user port migrates frequently.

Status control

ON

CLI: Use the `snmp-agent trap enable arp user-move` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp user-move` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.2.1.1 (hh3cARPTrapMoveUserIP)	Sender IP address in the ARP packet with a different ingress port.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.2.1.2 (hh3cARPTrapMoveUserMAC)	Sender MAC address in the ARP packet with a different ingress port.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.2.1.3 (hh3cARPTrapMoveLocalIf)	Port name before migration.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.2.1.4 (hh3cARPTrapMoveLocalPeVlan)	Outer VLAN of the ARP packet before port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.5 (hh3cARPTrapMoveLocalCeVlan)	Inner VLAN of the ARP packet before port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.6 (hh3cARPTrapMoveRemoteIf)	Port name after migration.	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.217.2.2.1.7 (hh3cARPTrapMoveRemotePeVlan)	Outer VLAN of the ARP packet after port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.8 (hh3cARPTrapMoveRemoteCeVlan)	Inner VLAN of the ARP packet after port migration.	No	INTEGER	Integer32(1..2147483647)

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTrapHostMoveResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.2.0.2	The host recovered from a frequent access port change alarm.	Informational	N/A	N/A	OFF

Description

This notification is generated when the host recovers from a frequent access port change alarm.

Status control

ON

CLI: Use the `snmp-agent trap enable arp user-move` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp user-move` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.2.1.1 (hh3cARPTrapMoveUserIP)	Sender IP address in the ARP packet with a different ingress port.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.2.1.2 (hh3cARPTrapMoveUserMAC)	Sender MAC address in the ARP packet with a different ingress port.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.2.1.3 (hh3cARPTrapMoveLocalIf)	Port name before migration.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.2.1.4 (hh3cARPTrapMoveLocalPeVlan)	Outer VLAN of the ARP packet before port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.5 (hh3cARPTrapMoveLocalCeVlan)	Inner VLAN of the ARP packet before port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.6 (hh3cARPTrapMoveRemoteIf)	Port name after migration.	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.217.2.2.1.7 (hh3cARPTrapMoveRemotePeVlan)	Outer VLAN of the ARP packet after port migration.	No	INTEGER	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.217.2.2.1.8 (hh3cARPTrapMoveRemoteCeVlan)	Inner VLAN of the ARP packet after port migration.	No	INTEGER	Integer32(1..2147483647)

Recommended action

No action is required.

hh3cARPTrapUserIpConflictAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.3.0.1	User IP address conflicted.	Error	Warning	N/A	OFF

Description

This notification is generated when a user IP address conflict occurs. A conflict occurs if an incoming ARP packet has the same sender IP address as an existing ARP entry but a different sender MAC address.

Status control

ON

CLI: Use the `snmp-agent trap enable arp user-ip-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp user-ip-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.3.1.1 (hh3cARPTrapUIPCPRcvMac)	Sender MAC address in the incoming ARP entry.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.3.1.2 (hh3cARPTrapUIPCPRcvPVid)	Outer VLAN of the local interface on which the conflict occurred.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.3.1.3 (hh3cARPTrapUIPCPRcvCVid)	Inner VLAN of the local interface on which the conflict occurred.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.3.1.4 (hh3cARPTrapUIPCPRcvIf)	Local interface on which the conflict occurred.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.3.1.5 (hh3cARPTrapUIPCPLocalMac)	Sender MAC address in the local existing ARP entry.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.3.1.6 (hh3cARPTrapUIPCPLocalPVid)	Outer VLAN of the incoming ARP packet.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.3.1.7 (hh3cARPTrapUIPCPLocalCVid)	Inner VLAN of the incoming ARP	No	Unsigned32	Standard MIB values.

	packet.			
1.3.6.1.4.1.25506.2.217.2.3.1.8 (hh3cARPTrapUIPCPLocalIf)	Interface name that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.3.1.9 (hh3cARPTrapUIPCPIpAddr)	IP address in the local existing ARP entry.	No	IpAddress	Standard MIB values.

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTrapAckStrictCheckAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.4.0.1	The ARP packet received on the device was not the ARP reply to the ARP request sent by the device.	Error	Warning	N/A	OFF

Description

This notification is generated when the device does not send an ARP request to the source IP address in the received ARP reply within the probe interval after ARP active acknowledgement in strict mode is configured.

Status control

ON

CLI: Use the `snmp-agent trap enable arp active-ack` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp active-ack` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.4.1.1 (217)	Interface that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.4.1.2 (hh3cARPTrapAckSourceIP)	Sender IP address in the received ARP packet.	No	IpAddress	Standard MIB values.

Recommended action

Check whether an ARP packet attack exists on the network.

hh3cARPTrapSpeedLimitAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.5.0.1	The ARP packets or ARP Miss packets sending rate exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.217.2.5.1.2(hh3cARPTrapSpeedLimitResume)	OFF

Description

This notification is generated when the ARP packets or ARP Miss packets sending rate exceeds the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable arp rate-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp rate-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.5.1.1 (hh3cARPTrapSpeedLimitChassis)	Chassis number	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.2 (hh3cARPTrapSpeedLimitSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.3 (hh3cARPTrapSpeedLimitSupValue)	Alarm threshold of packet sending rate (pps).	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.4 (hh3cARPTrapSpeedLimitCurValue)	Current packet sending rate (pps).	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.5 (hh3cARPTrapSpeedLimitSupType)	Packet type.	No	INTEGER	packet(1) miss(2)

Recommended action

Check whether an ARP packet attack or a loop exists on the network.

hh3cARPTrapSpeedLimitResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.	The ARP packets	Informational	Event	N/A	OFF

2.217.2.5.0.2	or ARP Miss packets recovered from a sending rate alarm.				
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Description

This notification is generated when the ARP packets or ARP Miss packets recover from a sending rate alarm.

Status control

ON

CLI: Use the `snmp-agent trap enable arp rate-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp rate-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.5.1.1 (hh3cARPTrapSpeedLimitChassis)	Chassis number	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.2 (hh3cARPTrapSpeedLimitSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.3 (hh3cARPTrapSpeedLimitSupValue)	Alarm threshold of packet sending rate (pps).	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.4 (hh3cARPTrapSpeedLimitCurValue)	Current packet sending rate (pps).	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.5.1.5 (hh3cARPTrapSpeedLimitSupType)	Packet type.	No	INTEGER	packet(1) miss(2)

Recommended action

No action is required.

hh3cARPTrapPacketValidCheckAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.6.0.1	The device received an invalid ARP packet.	Error	Warning	N/A	OFF

Description

This notification is generated when the device receives an invalid ARP packet.

Status control

ON

CLI: Use the `snmp-agent trap enable arp packet-check` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp packet-check` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.6.1.1 (hh3cARPTrapPktValidCheckIf)	Interface that received the ARP packet.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.6.1.2 (hh3cARPTrapPktValidCheckMac)	Sender MAC address in the ARP packet.	No	OCTET STRING	OCTET STRING (1..15)
1.3.6.1.4.1.25506.2.217.2.6.1.3 (hh3cARPTrapPktValidCheckIp)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.6.1.4 (hh3cARPTrapPktValidCheckVlan)	VLAN ID of the ARP packet.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.6.1.5 (hh3cARPTrapPktValidCheckSvlan)	Service VLAN ID of the ARP packet.	No	Unsigned32	Standard MIB values.

Recommended action

No action is required.

hh3cARPTrapGatewayCheckAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.7.0.1	The device intercepted an ARP packet with a forged gateway MAC address.	Error	Warning	N/A	OFF

Description

This notification is generated when the device intercepts an ARP packet with a forged gateway MAC address.

Status control

ON

CLI: Use the `snmp-agent trap enable arp gateway-check` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp gateway-check` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.7.1.1 (hh3cARPTrapGateWayCheckIf)	Interface that received the ARP attack packet.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.7.1.2 (hh3cARPTrapGateWayCheckSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.7.1.3 (hh3cARPTrapGateWayCheckIp)	Sender IP address in the ARP attack packet.	No	IpAddress	Standard MIB values.

Recommended action

No action is required.

hh3cARPTrapGatewayCheckResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.217.2.7.0.2	The device recovered from a gateway spoofing attack.	Informational	N/A	N/A	OFF

Description

This notification is generated when the device recovers from a gateway spoofing attack.

Status control

ON

CLI: Use the `snmp-agent trap enable arp gateway-check` command.

OFF

CLI: Use the `undo snmp-agent trap enable arp gateway-check` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.217.2.7.1.1 (hh3cARPTrapGateWayCheckIf)	Interface that received the ARP attack packet.	No	OCTET STRING	OCTET STRING (1..47)
1.3.6.1.4.1.25506.2.217.2.7.1.2 (hh3cARPTrapGateWayCheckSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.217.2.7.1.3 (hh3cARPTrapGateWayCheckIp)	Sender IP address in the ARP packet.	No	IpAddress	Standard MIB values.

Recommended action

No action is required.

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HH3C-DHCP4-MIB

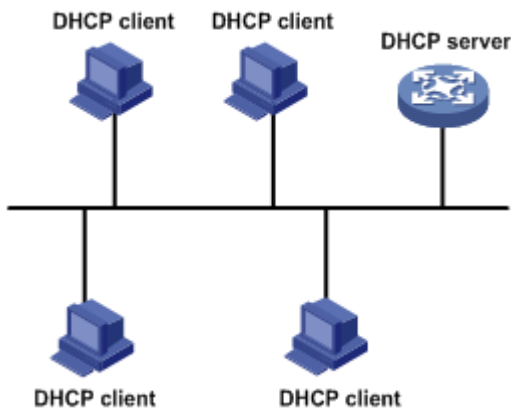
About this MIB

The Dynamic Host Configuration Protocol (DHCP) provides a framework to assign configuration information to network devices.

DHCP adopts a client/server model. A DHCP client initiates a request for configuration parameters such as IP address, subnet mask, and the gateway address, and the DHCP server replies with the requested parameters.

Both BOOTP and DHCP use UDP protocols for packet encapsulation and use the same packet format. The major difference between BOOTP and DHCP is that BOOTP supports static configuration of the IP addresses while DHCP supports dynamic configuration.

The following figure shows a typical DHCP application scenario where the DHCP clients and the DHCP server reside on the same subnet.



The DHCP relay agent enables clients to get IP addresses and configuration parameters from a DHCP server on another subnet.

Typically, a DHCP relay agent can be a host or a router enabled with the DHCP relay agent feature.

MIB file name

hh3c-dhcp4.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cDhcp4(122)

Scalar objects

hh3cDhcpServer2Enabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2Enabled (1.3.6.1.4.1.25506.2.122.1.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of the DHCP server.	As per the MIB.

hh3cDhcpServer2AlwaysBroadcast

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2AlwaysBroadcast (1.3.6.1.4.1.25506.2.122.1.1.2)	read-write	TruthValue	true(1), false(2)	Whether to enable the DHCP server to always broadcast responses.	As per the MIB.

hh3cDhcpServer2IgnoreBootp

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2IgnoreBootp (1.3.6.1.4.1.25506.2.122.1.1.3)	read-write	TruthValue	true(1), false(2)	Whether to ignore BOOTP requests.	As per the MIB.

hh3cDhcpServer2BootpReplyRfc1048

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2BootpReplyRfc1048 (1.3.6.1.4.1.25506.2.122.1.1.4)	read-write	TruthValue	true(1), false(2)	Whether to enable the sending of BOOTP responses in RFC 1048 format.	As per the MIB.

hh3cDhcpServer2Opt82Enabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2Opt82Enabled (1.3.6.1.4.1.25506.2.122.1.1.5)	read-write	TruthValue	true(1), false(2)	Whether to enable the DHCP server to handle Option 82.	As per the MIB.

hh3cDhcpServer2PingNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PingNumber (1.3.6.1.4.1.25506.2.122.1.1.6)	read-write	Unsigned32	Unsigned32(0..10)	Maximum number of attempts that the DHCP server pings an IP address before assigning the IP address to a DHCP client.	As per the MIB.

hh3cDhcpServer2PingTimeout

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PingTimeout (1.3.6.1.4.1.25506.2.122.1.1.7)	read-write	Unsigned32	Unsigned32(0..10000)	Ping response timeout time for the DHCP server to ping an IP address.	As per the MIB.

hh3cDhcpServer2InformNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2InformNum (1.3.6.1.4.1.25506.2.122.1.2.7)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-INFORM messages that the DHCP server receives.	As per the MIB.

hh3cDhcpServer2BootpReplyNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2BootpReplyNum (1.3.6.1.4.1.25506.2.122.1.2.8)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of BOOTP-REPLY messages that the DHCP server sends.	As per the MIB.

hh3cDhcpServer2OfferNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2OfferNum (1.3.6.1.4.1.25506.2.122.1.2.9)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-OFFER messages that the DHCP server sends.	As per the MIB.

hh3cDhcpServer2AckNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2AckNum (1.3.6.1.4.1.25506.2.122.1.2.10)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-ACK messages that the DHCP server sends.	As per the MIB.

hh3cDhcpServer2NakNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2NakNum (1.3.6.1.4.1.25506.2.122.1.2.11)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-NAK messages that the DHCP server sends.	As per the MIB.

hh3cDhcpServer2TotalPoolUsage

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2TotalPoolUsage (1.3.6.1.4.1.25506.2.122.1.2.12)	read-only	Unsigned32	Unsigned32(0..100)	DHCP address pool usage.	As per the MIB.

hh3cDhcpServer2PoolNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolNumber (1.3.6.1.4.1.25506.2.122.1.2.13)	read-only	Unsigned32	Standard MIB values.	Total number of DHCP address pools.	As per the MIB.

h3cDhcpServer2ConflictNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3cDhcpServer2ConflictNum (1.3.6.1.4.1.25506.2.122.1.2.14)	read-only	Unsigned32	Standard MIB values.	Total number of conflicting IP addresses on the DHCP server.	As per the MIB.

hh3cDhcpServer2AutoBindNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2AutoBindNum (1.3.6.1.4.1.25506.2.122.1.2.15)	read-only	Unsigned32	Standard MIB values.	Number of dynamic DHCP bindings.	As per the MIB.

hh3cDhcpServer2ManualBindNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ManualBindNum (1.3.6.1.4.1.25506.2.122.1.2.16)	read-only	Unsigned32	Standard MIB values.	Number of static DHCP bindings.	As per the MIB.

hh3cDhcpServer2ExpiredBindNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ExpiredBindNum (1.3.6.1.4.1.25506.2.122.1.2.17)	read-only	Unsigned32	Standard MIB values.	Number of expired DHCP bindings.	As per the MIB.

hh3cDhcpServer2OnlineFailReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2OnlineFailReason (1.3.6.1.4.1.25506.2.122.1.2.24)	accessible-for-notify	OCTET STRING	Standard MIB values.	Reason for the DHCP server online failure.	not support

Tabular objects

hh3cDhcpServer2PoolTable

About this table

This table records the address pool configuration on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported. When you create a new address pool, this table automatically creates an instance for the pool.	Supported	Supported	Supported

Columns

The table index is h3cDhcpServer2PoolIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolInd	not-accessible	Unsigned32	Standard	DHCP address pool	Implementation varies

Object (OID)	Access	Syntax	Value range	Description	Implementation
ex (1.3.6.1.4.1.25506.2.122.2.1.1.1)			MIB values.	index.	by product.
hh3cDhcpServer2PoolName (1.3.6.1.4.1.25506.2.122.2.1.1.2)	read-create	OCTET STRING	OCTET STRING (1..63)	DHCP address pool name.	As per the MIB.
hh3cDhcpServer2PoolVpnName (1.3.6.1.4.1.25506.2.122.2.1.1.3)	read-create	OCTET STRING	OCTET STRING (0..31)	VPN to which the DHCP address pool is bound.	As per the MIB.
hh3cDhcpServer2PoolNetwork (1.3.6.1.4.1.25506.2.122.2.1.1.4)	read-create	InetAddressIPv4	OCTET STRING (4)	Primary network address of the DHCP address pool.	As per the MIB.
hh3cDhcpServer2PoolNetworkMask (1.3.6.1.4.1.25506.2.122.2.1.1.5)	read-create	InetAddressIPv4	OCTET STRING (4)	Mask for the primary network address.	As per the MIB.
hh3cDhcpServer2PoolStartAddr (1.3.6.1.4.1.25506.2.122.2.1.1.6)	read-create	InetAddressIPv4	OCTET STRING (4)	Start IP address of an IP address range in the DHCP address pool.	As per the MIB.
hh3cDhcpServer2PoolEndAddr (1.3.6.1.4.1.25506.2.122.2.1.1.7)	read-create	InetAddressIPv4	OCTET STRING (4)	End IP address of an IP address range in the DHCP address pool.	As per the MIB.
hh3cDhcpServer2PoolLeaseDay (1.3.6.1.4.1.25506.2.122.2.1.1.8)	read-create	Integer32	Integer32(0..365)	Lease duration in days.	As per the MIB.
hh3cDhcpServer2PoolLeaseHour (1.3.6.1.4.1.25506.2.122.2.1.1.9)	read-create	Integer32	Integer32(0..23)	Lease duration in hours.	As per the MIB.
hh3cDhcpServer2PoolLeaseMinute (1.3.6.1.4.1.25506.2.122.2.1.1.10)	read-create	Integer32	Integer32(0..59)	Lease duration in minutes.	As per the MIB.
hh3cDhcpServer2PoolLeaseSecond (1.3.6.1.4.1.25506.2.122.2.1.1.11)	read-create	Integer32	Integer32(0..59)	Lease duration in seconds.	As per the MIB.
hh3cDhcpServer2PoolLeaseUnlimit (1.3.6.1.4.1.25506.2.122.2.1.1.12)	read-create	TruthValue	true(1), false(2)	Whether the lease duration is unlimited.	As per the MIB.
hh3cDhcpServer2PoolLeaseTime (1.3.6.1.4.1.25506.2.122.2.1.1.13)	read-create	TimeTicks	Standard MIB values.	DHCP lease time in TimeTicks	As per the MIB.
hh3cDhcpServer2PoolDomainName (1.3.6.1.4.1.25506.2.122.2.1.1.14)	read-create	OCTET STRING	Standard MIB values.	Domain name suffix assigned to DHCP clients.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolGatewayIP (1.3.6.1.4.1.25506.2.122.2.1.1.15)	read-create	OCTET STRING	OCTET STRING (0..127)	Gateway IP address.	As per the MIB.
hh3cDhcpServer2PoolDNSIP (1.3.6.1.4.1.25506.2.122.2.1.1.16)	read-create	OCTET STRING	OCTET STRING (0..127)	DNS server IP address.	As per the MIB.
hh3cDhcpServer2PoolPrimaryDNSIP (1.3.6.1.4.1.25506.2.122.2.1.1.17)	read-create	InetAddressIPv4	OCTET STRING (4)	Primary DNS server IP address.	As per the MIB.
hh3cDhcpServer2PoolSecondaryDNSIP (1.3.6.1.4.1.25506.2.122.2.1.1.18)	read-create	InetAddressIPv4	OCTET STRING (4)	Secondary DNS server IP address.	As per the MIB.
hh3cDhcpServer2PoolNetbiosType (1.3.6.1.4.1.25506.2.122.2.1.1.19)	read-create	INTEGER	null(0), bnode(1) pnode(2), mnode(4), hnode(8)	NETBIOS node type.	As per the MIB.
hh3cDhcpServer2PoolNetbiosIP (1.3.6.1.4.1.25506.2.122.2.1.1.20)	read-create	OCTET STRING	SIZE(0..127)	NETBIOS server IP address.	As per the MIB.
hh3cDhcpServer2PoolBootFileName (1.3.6.1.4.1.25506.2.122.2.1.1.21)	read-create	OCTET STRING	SIZE(0..63)	Name of a configuration file to be assigned to DHCP clients.	As per the MIB.
hh3cDhcpServer2PoolBIMServerIP (1.3.6.1.4.1.25506.2.122.2.1.1.22)	read-create	InetAddressIPv4	OCTET STRING (4)	BIMS server IP address.	As per the MIB.
hh3cDhcpServer2PoolBIMServerPort (1.3.6.1.4.1.25506.2.122.2.1.1.23)	read-create	Unsigned32	Unsigned32(0..65534)	BIMS server port number.	As per the MIB.
hh3cDhcpServer2PoolBIMServerKeyStr (1.3.6.1.4.1.25506.2.122.2.1.1.24)	read-create	OCTET STRING	OCTET STRING (0..16)	Shared key for the DHCP clients to encrypt packets sent to the BIMS server.	Does not support GET.
hh3cDhcpServer2PoolNextServer (1.3.6.1.4.1.25506.2.122.2.1.1.25)	read-create	InetAddressIPv4	OCTET STRING (4)	IP address of the next DHCP server.	As per the MIB.
hh3cDhcpServer2PoolTFTPDomainName (1.3.6.1.4.1.25506.2.122.2.1.1.26)	read-create	OCTET STRING	OCTET STRING (0..63)	TFTP server domain name.	As per the MIB.
hh3cDhcpServer2PoolTFTPIP (1.3.6.1.4.1.25506.2.122.2.1.1.27)	read-create	InetAddressIPv4	OCTET STRING (4)	TFTP server IP address.	As per the MIB.
hh3cDhcpServer2PoolVoiceAsIP (1.3.6.1.4.1.25506.2.122.2.1.1.28)	read-create	InetAddressIPv4	OCTET STRING (4)	IP address of the backup network calling processor.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolVoiceFailIP (1.3.6.1.4.1.25506.2.122.2.1.1.29)	read-create	InetAddressIPv4	OCTET STRING (4)	Failover IP address.	As per the MIB.
hh3cDhcpServer2PoolVoiceFailStr (1.3.6.1.4.1.25506.2.122.2.1.1.30)	read-create	OCTET STRING	OCTET STRING (0..39)	Failover dialer string.	As per the MIB.
hh3cDhcpServer2PoolVoiceNCPIP (1.3.6.1.4.1.25506.2.122.2.1.1.31)	read-create	InetAddressIPv4	OCTET STRING (4)	IP address of the primary network calling processor.	As per the MIB.
hh3cDhcpServer2PoolVoiceVlanId (1.3.6.1.4.1.25506.2.122.2.1.1.32)	read-create	Unsigned32	Unsigned32(2..4094 65535)	Voice VLAN ID.	As per the MIB.
hh3cDhcpServer2PoolVoiceVlanEnbl (1.3.6.1.4.1.25506.2.122.2.1.1.33)	read-create	TruthValue	true(1), false(2)	Enabling status of the voice VLAN.	As per the MIB.
hh3cDhcpServer2PoolRowStatus (1.3.6.1.4.1.25506.2.122.2.1.1.34)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.
hh3cDhcpServer2PoolVerifyClass (1.3.6.1.4.1.25506.2.122.2.1.1.35)	read-create	TruthValue	true(1), false(2)	Enabling status of the user class whitelist.	As per the MIB.

hh3cDhcpServer2IfApplyPoolTable

About this table

This table records the address pool bound to an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2IfApplyPoolName (1.3.6.1.4.1.25506.2.122.2.2.1.1)	read-write	OCTET STRING	OCTET STRING (0..63)	Name of the address pool bound to an interface.	As per the MIB.

hh3cDhcpServer2PoolSecNwTable

About this table

This table records the secondary network configuration in the DHCP address pool.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex, h3cDhcpServer2PoolSecNw, and h3cDhcpServer2PoolSecNwMask.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolSecNw(1.3.6.1.4.1.25506.2.122.2.3.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (4)	Secondary network IP address.	As per the MIB.
hh3cDhcpServer2PoolSecNwMask(1.3.6.1.4.1.25506.2.122.2.3.1.2)	not-accessible	InetAddressIPv4	OCTET STRING (4)	Mask of the secondary network IP address.	As per the MIB.
hh3cDhcpServer2PoolSecNwGwIP(1.3.6.1.4.1.25506.2.122.2.3.1.3)	read-create	OCTET STRING	OCTET STRING (0..127)	Gateway IP address for the secondary network.	As per the MIB.
hh3cDhcpServer2PoolSecNwStatus(1.3.6.1.4.1.25506.2.122.2.3.1.4)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2PoolClassTable

About this table

This table records address ranges for DHCP user classes in a DHCP address pool on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2PoolClassName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolClassName(1.3.6.1.4.1.25506.2.122.2.4.1.1)	not-accessible	OCTET STRING	OCTET STRING (1..63)	User class name.	As per the MIB.

hh3cDhcpServer2PoolClassStart (1.3.6.1.4.1.25506.2.122.2.4.1.2)	read-create	InetAddressIPv4	OCTET STRING (4)	Start IP address of an address range for a DHCP user class.	As per the MIB.
hh3cDhcpServer2PoolClassEnd (1.3.6.1.4.1.25506.2.122.2.4.1.3)	read-create	InetAddressIPv4	OCTET STRING (4)	End IP address of an address range for a DHCP user class.	As per the MIB.
hh3cDhcpServer2PoolClassStatus (1.3.6.1.4.1.25506.2.122.2.4.1.4)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2PoolStaticTable

About this table

This table records static bindings in a DHCP address pool.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2PoolStaticIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolStaticIP (1.3.6.1.4.1.25506.2.122.2.5.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (4)	IP address in a static binding.	As per the MIB.
hh3cDhcpServer2PoolStaticMask (1.3.6.1.4.1.25506.2.122.2.5.1.2)	read-create	InetAddressIPv4	OCTET STRING (4)	IP address mask in the static binding.	As per the MIB.
hh3cDhcpServer2PoolStaticCID (1.3.6.1.4.1.25506.2.122.2.5.1.3)	read-create	OCTET STRING	OCTET STRING (0 4..254)	Client identifier in the static binding.	As per the MIB.
hh3cDhcpServer2PoolStaticHAddr (1.3.6.1.4.1.25506.2.122.2.5.1.4)	read-create	OCTET STRING	OCTET STRING (0 4..39)	Hardware address in the static binding.	As per the MIB.
hh3cDhcpServer2PoolStaticHType (1.3.6.1.4.1.25506.2.122.2.5.1.5)	read-create	INTEGER	default(1), ethernet(2), tokenRing(3)	Hardware address type.	As per the MIB.
hh3cDhcpServer2PoolStaticStatus (1.3.6.1.4.1.25506.2.122.2.5.1.6)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2PoolOptionTable

About this table

This table records user-defined options in the DHCP address pool.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDhcpServer2PoolIndex and hh3cDhcpServer2PoolOptCode.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolOptCode (1.3.6.1.4.1.25506.2.122.2.6.1.1)	not-accessible	Integer32	Integer32(2..254), excluding 50..54, 56, 58, 59, 61, 82.	Option code.	As per the MIB.
hh3cDhcpServer2PoolOptType (1.3.6.1.4.1.25506.2.122.2.6.1.2)	read-create	INTEGER	ascii(1), hex(2), ip(3)	Option type.	As per the MIB.
hh3cDhcpServer2PoolOptAscii (1.3.6.1.4.1.25506.2.122.2.6.1.3)	read-create	OCTET STRING	OCTET STRING (0..255)	ASCII string as the option content.	As per the MIB.
hh3cDhcpServer2PoolOptHexStr (1.3.6.1.4.1.25506.2.122.2.6.1.4)	read-create	OCTET STRING	OCTET STRING (0..510)	Hexadecimal number as the option content.	The string length cannot exceed 256.
hh3cDhcpServer2PoolOptIPStr (1.3.6.1.4.1.25506.2.122.2.6.1.5)	read-create	OCTET STRING	OCTET STRING (0..127)	IP address as the option content.	As per the MIB.
hh3cDhcpServer2PoolOptRowStatus (1.3.6.1.4.1.25506.2.122.2.6.1.6)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2PoolForbidTable

About this table

This table records excluded IP addresses in a DHCP address pool.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDhcpServer2PoolIndex and hh3cDhcpServer2PoolForbidIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2PoolForbidIP (1.3.6.1.4.1.25506.2.122.2.7.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (0..255)	IP address excluded from dynamic allocation.	As per the MIB.
hh3cDhcpServer2PoolForbidStatus (1.3.6.1.4.1.25506.2.122.2.7.1.2)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2ClassTable

About this table

This table records DHCP user class information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cDhcpServer2ClassName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ClassName (1.3.6.1.4.1.25506.2.122.2.8.1.1)	not-accessible	OCTET STRING	OCTET STRING (1..63)	User class name.	As per the MIB.
hh3cDhcpServer2ClassRowStatus (1.3.6.1.4.1.25506.2.122.2.8.1.2)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2RuleTable

About this table

This table records DHCP user class match rules.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDhcpServer2ClassName and hh3cDhcpServer2RuleNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2RuleNumber (1.3.6.1.4.1.25506.2.122.2.9.1.1)	not-accessible	Integer32	Integer32(1..16)	Rule ID.	As per the MIB.
hh3cDhcpServer2RuleOptCode (1.3.6.1.4.1.25506.2.122.2.9.1.2)	read-create	Integer32	Integer32(1..254)	Option code.	As per the MIB.
hh3cDhcpServer2RuleOptHexStr (1.3.6.1.4.1.25506.2.122.2.9.1.3)	read-create	OCTET STRING	OCTET STRING (0..510)	Content to match specific options in packets.	The length of the content cannot exceed 256.
hh3cDhcpServer2RuleOptMask (1.3.6.1.4.1.25506.2.122.2.9.1.4)	read-create	OCTET STRING	OCTET STRING (0..510)	Hexadecimal mask for the match operation.	If it is bound to hh3cDhcpServer2RuleOptHexStr, the entire command length cannot exceed 512.
hh3cDhcpServer2RuleOptOffset (1.3.6.1.4.1.25506.2.122.2.9.1.5)	read-create	Integer32	Integer32(0..254)	Offset in bytes after which the match operation starts	As per the MIB.
hh3cDhcpServer2RuleOptLength (1.3.6.1.4.1.25506.2.122.2.9.1.6)	read-create	Integer32	Integer32(0..128)	Length of the option content to be matched.	As per the MIB.
hh3cDhcpServer2RuleRowStatus (1.3.6.1.4.1.25506.2.122.2.9.1.7)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2ForbidTable

About this table

This table records excluded IP address ranges.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDhcpServer2ForbidVpnName, hh3cDhcpServer2ForbidStart, and hh3cDhcpServer2ForbidEnd.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ForbidVpnName (1.3.6.1.4.1.25506.2.122.2.10.1.1)	not-accessible	OCTET STRING	OCTET STRING (1..31)	Name of the VPN to which the excluded IP address belongs.	As per the MIB.
hh3cDhcpServer2ForbidStart	not-accessible	InetAddressIPv4	OCTET STRING	Start IP address of the excluded IP	As per the MIB.

(1.3.6.1.4.1.25506.2.122.2.10.1.2)			(4)	address range.	
hh3cDhcpServer2ForbidEnd (1.3.6.1.4.1.25506.2.122.2.10.1.3)	not-accessible	InetAddressIPv4	OCTET STRING (4)	End IP address of the excluded IP address range.	As per the MIB.
hh3cDhcpServer2ForbidRowStatus (1.3.6.1.4.1.25506.2.122.2.10.1.4)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2FreeTable

About this table

This table records free IP address ranges on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2FreeStart.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2FreeStart (1.3.6.1.4.1.25506.2.122.2.11.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (0..255)	Start IP address of a free IP address range.	As per the MIB.
hh3cDhcpServer2FreeEnd (1.3.6.1.4.1.25506.2.122.2.11.1.2)	read-only	InetAddressIPv4	OCTET STRING (0..255)	End IP address of a free IP address range.	As per the MIB.

hh3cDhcpServer2ConflictTable

About this table

This table records conflicting IP addresses on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2ConflictIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ConflictIP (1.3.6.1.4.1.25506	not-accessible	InetAddressIPv4	OCTET STRING (0..255)	Conflicting IP address.	As per the MIB.

.2.122.2.12.1.1)					
hh3cDhcpServer2 ConflictType (1.3.6.1.4.1.25506 .2.122.2.12.1.2)	read-only	INTEGER	detectByServer(1) , detectByClient(2)	Conflict type.	As per the MIB.
hh3cDhcpServer2 ConflictTime (1.3.6.1.4.1.25506 .2.122.2.12.1.3)	read-only	OCTET STRING	OCTET STRING (1..19)	Time when the conflict was detected.	As per the MIB.
hh3cDhcpServer2 ConflictRowStatus (1.3.6.1.4.1.25506 .2.122.2.12.1.4)	read-create	RowStatus	destroy	Row status.	As per the MIB.

hh3cDhcpServer2ExpiredTable

About this table

This table records lease expiration information on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2ExpiredIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2 ExpiredIP (1.3.6.1.4.1.25506 .2.122.2.13.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (0..255)	Expired IP address.	As per the MIB.
hh3cDhcpServer2 ExpiredClientId (1.3.6.1.4.1.25506 .2.122.2.13.1.2)	read-only	OCTET STRING	OCTET STRING (4..254)	ID of the DHCP client of the expired IP address.	As per the MIB.
hh3cDhcpServer2 ExpiredTime (1.3.6.1.4.1.25506 .2.122.2.13.1.3)	read-only	OCTET STRING	OCTET STRING (1..19), a time string in the format of MM/DD/YYYY hh:mm:ss.	Time when the lease expired.	As per the MIB.
hh3cDhcpServer2 ExpiredRowStatus (1.3.6.1.4.1.25506 .2.122.2.13.1.4)	read-create	RowStatus	destroy	Row status.	As per the MIB.

hh3cDhcpServer2IPInUseTable

About this table

This table records binding information about IP addresses in use on a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDhcpServer2PoolIndex and hh3cDhcpServer2IPInUseIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2IPInUseIP (1.3.6.1.4.1.25506.2.122.2.14.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (4)	IP address in use.	As per the MIB.
hh3cDhcpServer2IPInUseClientId (1.3.6.1.4.1.25506.2.122.2.14.1.2)	read-only	OCTET STRING	OCTET STRING (0 4..254)	Client ID of the IP address.	As per the MIB.
hh3cDhcpServer2IPInUseHardAddr (1.3.6.1.4.1.25506.2.122.2.14.1.3)	read-only	OCTET STRING	OCTET STRING (0 4..39)	Hardware address of the DHCP client.	As per the MIB.
hh3cDhcpServer2IPInUseHardType (1.3.6.1.4.1.25506.2.122.2.14.1.4)	read-only	INTEGER	default(1), ethernet(2), tokenRing(3)	Hardware address type.	As per the MIB.
hh3cDhcpServer2IPInUseVlanId (1.3.6.1.4.1.25506.2.122.2.14.1.5)	read-only	Unsigned32	Unsigned32(1..4094 65535)	VLAN where the DHCP client resides.	As per the MIB.
hh3cDhcpServer2IPInUseEndLease (1.3.6.1.4.1.25506.2.122.2.14.1.6)	read-only	OCTET STRING	OCTET STRING (1..19)	Lease expiration time.	As per the MIB.
hh3cDhcpServer2IPInUseType (1.3.6.1.4.1.25506.2.122.2.14.1.7)	read-only	INTEGER	staticUnallocated(1), staticOffered(2), staticCommitted(3), autoOffered(4), autoCommitted(5)	Binding type.	As per the MIB.
hh3cDhcpServer2IPInUseIfIndex (1.3.6.1.4.1.25506.2.122.2.14.1.8)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the interface that connects to the DHCP client.	As per the MIB.
hh3cDhcpServer2IPInUseRowStatus (1.3.6.1.4.1.25506.2.122.2.14.1.9)	read-create	RowStatus	destroy	Row status.	As per the MIB.

hh3cDhcpServer2DefOptGrpTable

About this table

This table defines option information associated with the DHCP user class.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2DefOptGrpClass.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2DefOptGrpClass (1.3.6.1.4.1.25506.2.122.2.15.1.1)	not-accessible	OCTET STRING	OCTET STRING (1..63)	User class name.	As per the MIB.
hh3cDhcpServer2DefOptGrpId (1.3.6.1.4.1.25506.2.122.2.15.1.2)	read-create	Integer32	Integer32(1..32768)	Option group ID.	As per the MIB.
hh3cDhcpServer2DefOptGrpStatus (1.3.6.1.4.1.25506.2.122.2.15.1.3)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2ValidClassTable

About this table

This table defines user class whitelist.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2PoolIndex and h3cDhcpServer2ValidClassName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2ValidClassName (1.3.6.1.4.1.25506.2.122.2.16.1.1)	not-accessible	OCTET STRING	OCTET STRING (1..63)	User class name.	As per the MIB.
hh3cDhcpServer2ValidClassStatus (1.3.6.1.4.1.25506.2.122.2.16.1.2)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2RuleHwAddrTable

About this table

This table defines the user class hardware address match rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2ClassName and h3cDhcpServer2RuleHwAddrNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2RuleHwAddrNumber (1.3.6.1.4.1.25506.2.122.2.17.1.1)	not-accessible	Integer32	Integer32 (1..16)	Rule ID.	As per the MIB.
hh3cDhcpServer2RuleHwAddress (1.3.6.1.4.1.25506.2.122.2.17.1.2)	read-create	OCTET STRING	OCTET STRING (4..39)	Hardware address.	As per the MIB.
hh3cDhcpServer2RuleHwAddrMask (1.3.6.1.4.1.25506.2.122.2.17.1.3)	read-create	OCTET STRING	OCTET STRING (4..39)	Hardware address mask.	As per the MIB.
hh3cDhcpServer2RuleHwAddrType (1.3.6.1.4.1.25506.2.122.2.17.1.4)	read-create	Integer32	1, representing the Ethernet	Hardware address type.	As per the MIB.
hh3cDhcpServer2RuleHwAddrStatus (1.3.6.1.4.1.25506.2.122.2.17.1.5)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpServer2OptionGroupTable

About this table

This table defines a DHCP option group for a DHCP user class.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is h3cDhcpServer2OptionGroupId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2OptionGroupId (1.3.6.1.4.1.25506.2.122.2.18.1.1)	not-accessible	Integer32	Integer32(1..32768)	Option group ID.	As per the MIB.
hh3cDhcpServer2OptionGroupStatus	read-create	RowStatus	Active(1) createAndGo(4)	Row status.	As per the MIB.

(1.3.6.1.4.1.25506.2.122.2.18.1.2)			destroy(6)		
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hh3cDhcpServer2OptionTable

About this table

This table defines user option information in a DHCP option group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cDhcpServer2OptionGroupId and h3cDhcpServer2OptionCode.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpServer2OptionCode (1.3.6.1.4.1.25506.2.122.2.19.1.1)	not-accessible	Integer32	Integer32(2..254), excluding 50..54, 56, 58, 59, 61, 82	Option code.	As per the MIB.
hh3cDhcpServer2OptionType (1.3.6.1.4.1.25506.2.122.2.19.1.2)	read-create	INTEGER	ascii(1), hex(2), ip(3)	Option type.	As per the MIB.
hh3cDhcpServer2OptionAscii (1.3.6.1.4.1.25506.2.122.2.19.1.3)	read-create	OCTET STRING	OCTET STRING(0 2..256)	ASCII string as the option content.	The value read from this object is 0 if ascii(1) is specified as the option type but no ASCII string is specified.
hh3cDhcpServer2OptionHexStr (1.3.6.1.4.1.25506.2.122.2.19.1.4)	read-create	OCTET STRING	OCTET STRING(0..510)	Hexadecimal number as the option content.	The value read from this object is 0 if hex(2) is specified as the option type but no hexadecimal string is specified.
hh3cDhcpServer2OptionIPStr (1.3.6.1.4.1.25506.2.122.2.19.1.5)	read-create	OCTET STRING	OCTET STRING(0..127)	IP address as the option content.	As per the MIB.
hh3cDhcpServer2OptionRowStatus (1.3.6.1.4.1.25506.2.122.2.19.1.6)	read-create	RowStatus	Active(1) createAndGo(4) destroy(6)	Row status.	As per the MIB.

hh3cDhcpRelay2ConfigGroup

About this table

This table configures global DHCP relay agent settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2 UserInfoRecord (1.3.6.1.4.1.25506 .2.122.3.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of recording client information in relay entries.	As per the MIB.
hh3cDhcpRelay2 UserInfoRefresh (1.3.6.1.4.1.25506 .2.122.3.1.2)	read-write	TruthValue	true(1), false(2)	Enabling status of refreshing relay entries.	As per the MIB.
hh3cDhcpRelay2 UserInfoFlushTim e (1.3.6.1.4.1.25506 .2.122.3.1.3)	read-write	Unsigned32	Unsigned32(0..12 0)	Interval at which the DHCP relay agent refreshes relay entries.	As per the MIB.
hh3cDhcpRelay2 ReleaseAddr (1.3.6.1.4.1.25506 .2.122.3.1.4)	read-write	OCTET STRING	OCTET STRING (0..47)	IP address release request sent to the server.	The set operation enables the relay agent to send a release request for the specified IP address to the DHCP server. When you perform a get operation on this object, a value of 0 is returned.

hh3cDhcpRelay2StatisticsGroup

About this table

This table records the global statistics on a DHCP relay agent.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2 RxClientNum (1.3.6.1.4.1.25506 .2.122.3.2.1)	read-only	Counter64	INTEGER(0..1844 67440737095516 15)	Number of received packets that are sent by the DHCP clients.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2TxClientNum (1.3.6.1.4.1.25506.2.122.3.2.2)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets sent to the DHCP clients.	As per the MIB.
hh3cDhcpRelay2RxServerNum (1.3.6.1.4.1.25506.2.122.3.2.3)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of received packets sent by DHCP servers.	As per the MIB.
hh3cDhcpRelay2TxServerNum (1.3.6.1.4.1.25506.2.122.3.2.4)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets sent to the DHCP servers.	As per the MIB.
hh3cDhcpRelay2BadNum (1.3.6.1.4.1.25506.2.122.3.2.5)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of error packets processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2BootpRequestNum (1.3.6.1.4.1.25506.2.122.3.2.6)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of BOOTP requests processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2DiscoverNum (1.3.6.1.4.1.25506.2.122.3.2.7)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-DISCOVER messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2RequestNum (1.3.6.1.4.1.25506.2.122.3.2.8)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-REQUEST messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2DeclineNum (1.3.6.1.4.1.25506.2.122.3.2.9)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-DECLINE messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2ReleaseNum (1.3.6.1.4.1.25506.2.122.3.2.10)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-RELEASE messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2InformNum (1.3.6.1.4.1.25506.2.122.3.2.11)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-INFORM messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2BootpReplyNum (1.3.6.1.4.1.25506.2.122.3.2.12)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of BOOTP replies processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2OfferNum (1.3.6.1.4.1.25506.2.122.3.2.13)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-OFFER messages processed by the DHCP relay agent.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2AckNum (1.3.6.1.4.1.25506.2.122.3.2.14)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-ACK messages processed by the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2NakNum (1.3.6.1.4.1.25506.2.122.3.2.15)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of DHCP-NAK messages processed by the DHCP relay agent.	As per the MIB.

hh3cDhcpRelay2IfConfigTable

About this table

This table records the DHCP relay agent configuration on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2IfSelectRelay (1.3.6.1.4.1.25506.2.122.4.1.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of the DHCP relay agent.	As per the MIB.
hh3cDhcpRelay2IfCheckMac (1.3.6.1.4.1.25506.2.122.4.1.1.2)	read-write	TruthValue	true(1), false(2)	Enabling status of MAC address check.	As per the MIB.
hh3cDhcpRelay2IfOpt82Enable (1.3.6.1.4.1.25506.2.122.4.1.1.3)	read-write	TruthValue	true(1), false(2)	Enabling status of support for option 82.	As per the MIB.
hh3cDhcpRelay2IfOpt82Strategy (1.3.6.1.4.1.25506.2.122.4.1.1.4)	read-write	INTEGER	drop(1), keep(2), replace(3)	Strategy for handling DHCP requests that contain Option 82.	As per the MIB.
hh3cDhcpRelay2IfOpt82CIDMode (1.3.6.1.4.1.25506.2.122.4.1.1.5)	read-write	INTEGER	normal(1), verbose(2), userDefine(3)	Mode of the circuit ID sub-option in option 82.	The return value is normal(1) if the system reads an unsupported mode.
hh3cDhcpRelay2IfOpt82CIDNodeType (1.3.6.1.4.1.25506.2.122.4.1.1.6)	read-write	INTEGER	invalid(1), mac(2), sysname(3), userDefine(4)	Access node identifier for the circuit ID sub-option in verbose mode.	If no access node identifier is specified, the value read from this object is invalid(1).

hh3cDhcpRelay2If Opt82CIDNodeStr (1.3.6.1.4.1.25506 .2.122.4.1.1.7)	read-write	OCTET STRING	OCTET STRING (0..50)	User-defined string as the access node identifier for the circuit ID sub-option in verbose mode.	As per the MIB.
hh3cDhcpRelay2If Opt82CIDStr (1.3.6.1.4.1.25506 .2.122.4.1.1.8)	read-write	OCTET STRING	OCTET STRING (0 3..63)	User-defined string as the access node identifier for the circuit ID sub-option in userDefine mode.	As per the MIB.
hh3cDhcpRelay2If Opt82CIDFormat (1.3.6.1.4.1.25506 .2.122.4.1.1.9)	read-write	INTEGER	hex(1), ascii(2), undefine(3)	Padding format of the circuit ID sub-option in option 82.	As per the MIB.
hh3cDhcpRelay2If Opt82RIDMode (1.3.6.1.4.1.25506 .2.122.4.1.1.10)	read-write	INTEGER	normal(1), sysname(2), userDefine(3)	Mode of the remote ID sub-option in option 82.	As per the MIB.
hh3cDhcpRelay2If Opt82RIDStr (1.3.6.1.4.1.25506 .2.122.4.1.1.11)	read-write	OCTET STRING	OCTET STRING (0..63)	User-defined string as the access node identifier for the remote ID sub-option in userDefine mode.	If the mode of the remote ID sub-option is sysname(2), the value read from this object is 0.
hh3cDhcpRelay2If Opt82RIDFormat (1.3.6.1.4.1.25506 .2.122.4.1.1.12)	read-write	INTEGER	hex(1), ascii(2)	Padding format of the remote ID sub-option in normal mode.	As per the MIB.

hh3cDhcpRelay2SrvAddrTable

About this table

This table describes the IP address of a DHCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and h3cDhcpRelay2SrvAddrIP.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2 SrvAddrIP (1.3.6.1.4.1.25506 .2.122.4.2.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (4)	DHCP server IP address.	As per the MIB.
hh3cDhcpRelay2 SrvAddrRowStatu	read-create	RowStatus	Active createAndGo	Row status.	As per the MIB.

s (1.3.6.1.4.1.25506 .2.122.4.2.1.2)			destroy		
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hh3cDhcpRelay2UserInfoTable

About this table

Use this table to delete DHCP relay entries.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table indexes are h3cDhcpRelay2UserInfoVpnIndex and h3cDhcpRelay2UserInfoIpAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpRelay2 UserInfoVpnIndex (1.3.6.1.4.1.25506 .2.122.4.3.1.1)	not-accessible	Unsigned32	Unsigned32 (0 . 65534), 0 represents the public network.	VPN to which the IP address of the relay entry belongs.	As per the MIB.
hh3cDhcpRelay2 UserInfoIpAddr (1.3.6.1.4.1.25506 .2.122.4.3.1.2)	not-accessible	InetAddressIPv4	OCTET STRING (0.255)	Client IP address in the relay entry.	As per the MIB.
hh3cDhcpRelay2 UserInfoMacAddr (1.3.6.1.4.1.25506 .2.122.4.3.1.3)	read-only	MacAddress	OCTET STRING (6)	Client MAC address in the relay entry.	As per the MIB.
hh3cDhcpRelay2 UserInfoIndex (1.3.6.1.4.1.25506 .2.122.4.3.1.4)	read-only	InterfaceIndexOrZero	Integer32(0..2147 483647)	Index of the Layer 3 interface that connects to the DHCP client.	As per the MIB.
hh3cDhcpRelay2 UserInfoRowStatus (1.3.6.1.4.1.25506 .2.122.4.3.1.5)	read-create	RowStatus	destroy	Row status.	As per the MIB.

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HH3C-DHCP-SNOOP2-MIB

About this MIB

DHCP snooping is a security feature for DHCP.

DHCP snooping provides the following security features:

- Guarantees that DHCP clients obtain IP addresses from authorized DHCP servers.
- Records IP-to-MAC bindings of DHCP clients (called DHCP snooping entries) for security purposes.

MIB file name

hh3c-dhcp-snoop2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cDhcpSnoop2(124)

Scalar objects

hh3cDhcpSnoop2Enabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2Enabled (1.3.6.1.4.1.25506.2.124.1.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of DHCP snooping.	As per the MIB.

hh3cDhcpSnoop2BindDbName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2BindDbName (1.3.6.1.4.1.25506.2.124.1.1.2)	read-write	OCTET STRING	OCTET STRING (0.. 255)	Name of the file for saving DHCP snooping entries.	The name string cannot exceed the product-specific upper limit.

hh3cDhcpSnoop2BindRefreshIntvl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2BindRefreshIntvl (1.3.6.1.4.1.25506.2.124.1.1.3)	read-write	Unsigned32	Unsigned32(60..864000)	DHCPv6 snooping entry refreshing interval.	As per the MIB.

hh3cDhcpSnoop2BindRefresh

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2BindRefresh (1.3.6.1.4.1.25506.2.124.1.1.4)	read-write	INTEGER	on(1)	Immediate saving of DHCP snooping entries.	As per the MIB.

hh3cDhcpSnoop2PktSentNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2PktSentNum (1.3.6.1.4.1.25506.2.124.1.2.1)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets forwarded by DHCP snooping.	As per the MIB.

hh3cDhcpSnoop2PktRcvNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2PktRcvNum (1.3.6.1.4.1.25506.2.124.1.2.2)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets received by DHCP snooping.	As per the MIB.

hh3cDhcpSnoop2PktDropNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2PktDropNum (1.3.6.1.4.1.25506.2.124.1.2.3)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets dropped by DHCP snooping.	As per the MIB.

Tabular objects

hh3cDhcpSnoop2BindTable

About this table

This table describes a DHCP snooping entry.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table indexes are h3cDhcpSnoop2BindIpAddr, h3cDhcpSnoop2BindVlanId, and h3cDhcpSnoop2BindSecVlanId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2BindIpAddr (1.3.6.1.4.1.25506.2.124.2.1.1.1)	not-accessible	InetAddressIPv4	OCTET STRING (4)	IP address assigned to a DHCP client.	As per the MIB.
hh3cDhcpSnoop2BindVlanId (1.3.6.1.4.1.25506.2.124.2.1.1.2)	not-accessible	Unsigned32	Unsigned32(1..4094)	Outer VLAN tag of the DHCP packet.	As per the MIB.
hh3cDhcpSnoop2BindSecVlanId (1.3.6.1.4.1.25506.2.124.2.1.1.3)	not-accessible	Unsigned32	Unsigned32(1..4094 65535)	Inner VLAN tag of the DHCP packet.	As per the MIB.
hh3cDhcpSnoop2BindMacAddr (1.3.6.1.4.1.25506.2.124.2.1.1.4)	read-only	MacAddress	OCTET STRING (6)	MAC address of the DHCP client.	As per the MIB.
hh3cDhcpSnoop2BindLease (1.3.6.1.4.1.25506.2.124.2.1.1.5)	read-only	Unsigned32	Standard MIB values.	Remaining time of the lease for the DHCP client.	As per the MIB.
hh3cDhcpSnoop2BindPortIndex (1.3.6.1.4.1.25506.2.124.2.1.1.6)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Interface that connects to the DHCP client.	As per the MIB.
hh3cDhcpSnoop2BindRowStatus (1.3.6.1.4.1.25506.2.124.2.1.1.7)	read-create	RowStatus	Support only the destroy operation	Row status.	As per the MIB.

hh3cDhcpSnoop2IfConfigTable

About this table

This table describes the DHCP snooping configuration on interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifindex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2IfTrustStatus (1.3.6.1.4.1.25506.2.124.2.2.1.1)	read-write	INTEGER	untrusted(0), trusted(1)	Enabling status of the DHCP snooping trusted interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2IfCheckMac (1.3.6.1.4.1.25506.2.124.2.2.1.2)	read-write	TruthValue	true(1), false(2)	Enabling status of the MAC address check.	As per the MIB.
hh3cDhcpSnoop2IfCheckRequest (1.3.6.1.4.1.25506.2.124.2.2.1.3)	read-write	TruthValue	true(1), false(2)	Enabling status of the DHCP-REQUEST check.	As per the MIB.
hh3cDhcpSnoop2IfRateLimit (1.3.6.1.4.1.25506.2.124.2.2.1.4)	read-write	Unsigned32	Standard MIB values.	DHCP snooping packet rate limit on the interface.	As per the MIB.
hh3cDhcpSnoop2IfRecordBind (1.3.6.1.4.1.25506.2.124.2.2.1.5)	read-write	TruthValue	true(1), false(2)	Recording DHCP snooping entries.	As per the MIB.
hh3cDhcpSnoop2IfMaxLearnNum (1.3.6.1.4.1.25506.2.124.2.2.1.6)	read-write	Unsigned32	Unsigned32(0..4294967295)	Maximum number of DHCP snooping entries that the interface can learn.	As per the MIB.
hh3cDhcpSnoop2IfOpt82Enable (1.3.6.1.4.1.25506.2.124.2.2.1.7)	read-write	TruthValue	true(1), false(2)	Enabling status of Option 82 support	As per the MIB.
hh3cDhcpSnoop2IfOpt82Strategy (1.3.6.1.4.1.25506.2.124.2.2.1.8)	read-write	INTEGER	drop(1), keep(2), replace(3)	Option 82 strategy	As per the MIB.
hh3cDhcpSnoop2IfOpt82CIDMode (1.3.6.1.4.1.25506.2.124.2.2.1.9)	read-write	INTEGER	normal(1), verbose(2), userDefine(3)	Mode of the Circuit ID sub-option in Option 82.	As per the MIB.
hh3cDhcpSnoop2IfOpt82CIDNodeType (1.3.6.1.4.1.25506.2.124.2.2.1.10)	read-write	INTEGER	invalid(1), mac(2), sysname(3), userDefine(4)	Format of the Circuit ID sub-option in verbose mode.	As per the MIB.
hh3cDhcpSnoop2IfOpt82CIDNodeStr (1.3.6.1.4.1.25506.2.124.2.2.1.11)	read-write	OCTET STRING	OCTET STRING (0..50)	User-defined string for the Circuit ID sub-option in verbose mode.	As per the MIB.
hh3cDhcpSnoop2IfOpt82CIDStr (1.3.6.1.4.1.25506.2.124.2.2.1.12)	read-write	OCTET STRING	OCTET STRING (0 3..63)	User-defined string for the Circuit ID sub-option in user-defined mode.	As per the MIB.
hh3cDhcpSnoop2IfOpt82CIDFormat (1.3.6.1.4.1.25506.2.124.2.2.1.13)	read-write	INTEGER	hex(1), ascii(2), undefine(3)	Padding format of the Circuit ID sub-option.	As per the MIB.
hh3cDhcpSnoop2IfOpt82RIDMode (1.3.6.1.4.1.25506.2.124.2.2.1.14)	read-write	INTEGER	normal(1), sysname(2), userDefine(3)	Mode of the Remote ID sub-option in	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.124.2.2.1.14)			userDefine(3)	Option 82.	
hh3cDhcpSnoop2IfOpt82RIDStr (1.3.6.1.4.1.25506.2.124.2.2.1.15)	read-write	OCTET STRING	OCTET STRING (0..63)	User-defined string for the Remote ID sub-option in user-defined mode.	As per the MIB.
hh3cDhcpSnoop2IfOpt82RIDFormat (1.3.6.1.4.1.25506.2.124.2.2.1.16)	read-write	INTEGER	hex(1), ascii(2)	Padding format of the Remote ID sub-option.	As per the MIB.

hh3cDhcpSnoop2IfVlanCIDTable

About this table

This table describes Option 82 Circuit ID sub-option configuration in VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and hh3cDhcpSnoop2IfVlanCIDVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2IfVlanCIDVlanIndex (1.3.6.1.4.1.25506.2.124.2.3.1.1)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID.	As per the MIB.
hh3cDhcpSnoop2IfVlanCIDStr (1.3.6.1.4.1.25506.2.124.2.3.1.2)	read-create	OCTET STRING	OCTET STRING (3..63)	User-defined string for padding the Circuit ID sub-option.	As per the MIB.
hh3cDhcpSnoop2IfVlanCIDRowStatus (1.3.6.1.4.1.25506.2.124.2.3.1.3)	read-create	RowStatus	Active(1), createAndGo(4), destroy(6).	Row status.	As per the MIB.

hh3cDhcpSnoop2IfVlanRIDTable

About this table

This table describes Option 82 Remote ID sub-option configuration in VLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported. It must be bound to h3cDhcpSnoop2IfVlanRIDMode when you create an entry.	Supported. It must be bound to h3cDhcpSnoop2IfVlanRIDMode when you modify an entry.	Supported	Supported

Columns

The table indexes are ifIndex and h3cDhcpSnoop2IfVlanRIDVlanIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDhcpSnoop2IfVlanRIDVlanIndex (1.3.6.1.4.1.25506.2.124.2.4.1.1)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID.	As per the MIB.
hh3cDhcpSnoop2IfVlanRIDMode (1.3.6.1.4.1.25506.2.124.2.4.1.2)	read-create	INTEGER	sysname(1), userDefine(2)	Padding mode of the Remote ID sub-option.	As per the MIB.
hh3cDhcpSnoop2IfVlanRIDStr (1.3.6.1.4.1.25506.2.124.2.4.1.3)	read-create	OCTET STRING	OCTET STRING (0..63)	User-defined string for padding the Remote ID sub-option.	If the padding mode for the Remote ID sub-option is sysname(1), the value read from this object is 0.
hh3cDhcpSnoop2IfVlanRIDRowStatus (1.3.6.1.4.1.25506.2.124.2.4.1.4)	read-create	RowStatus	Active(1), createAndGo(4), destroy(6).	Row status.	As per the MIB.

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HH3C-DNS-MIB

About this MIB

Use this MIB to obtain and configure DNS server settings.

MIB file name

hh3c-dns.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cDns (97)

Tabular objects

hh3cDnsStaticSrvIpTable

About this table

This table allows manual configuration of static DNS servers for the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cDnsStaticSrvIpType and hh3cDnsStaticSrvIpAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDnsStaticSrvIpType (1.3.6.1.4.1.25506.2.97.1.1.1.1)	not-accessible	InetAddressType	Standard MIB values.	IP address type of the static DNS server.	Only support IPv4.
hh3cDnsStaticSrvIpAddr (1.3.6.1.4.1.25506.2.97.1.1.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the static DNS server.	As per the MIB.
hh3cDnsStaticSrvIpPriority (1.3.6.1.4.1.25506.2.97.1.1.1.3)	read-only	Integer32	Integer32(0..2147483647)	Priority of the static DNS server.	As per the MIB.
hh3cDnsStaticSrvIpRowStatus (1.3.6.1.4.1.25506.2.97.1.1.1.4)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status of the static DNS server.	As per the MIB.

hh3cDnsDynamicSrvIpTable

About this table

This table queries dynamic DNS servers in the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cDnsDynamicSrvIpType and hh3cDnsDynamicSrvIpAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDnsDynamicSrvIpType (1.3.6.1.4.1.25506.2.97.1.2.1.1)	not-accessible	InetAddressType	Standard MIB values.	IP address type of the dynamic DNS server.	As per the MIB.
hh3cDnsDynamicSrvIpAddr (1.3.6.1.4.1.25506.2.97.1.2.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the dynamic DNS server.	As per the MIB.
hh3cDnsDynamicSrvIpPriority (1.3.6.1.4.1.25506.2.97.1.2.1.3)	read-only	Integer32	Integer32(0.2147483647)	Priority of the dynamic DNS server.	As per the MIB.

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HH3C-FIB-MIB

About this MIB

Use this MIB to detect whether the number of FIB entries reaches the threshold and whether the messages to be forwarded on the module are congested.

MIB file name

hh3c-fib.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cFibTrap(216)

Notifications

hh3cFibBoardMsgCongestResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.216.1.0.2	The module recovered from a message congestion alarm.	Informational	Event	N/A	On

Description

This notification is generated when the module recovers from a message congestion alarm.

Status control

ON

CLI: Use the `snmp-agent trap enable fib` command.

OFF

CLI: Use the `undo snmp-agent trap enable fib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.216.1.1.1 (hh3cFibChassisID)	Chassis number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.216.1.1.2 (hh3cFibSlotID)	Slot number.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cFibOverloadForward

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.216.2.0.1	The number of FIB entries on the device exceeded the threshold.	Error	Warning	1.3.6.1.4.1.25506.2.216.2.0.2 (hh3cFibOverloadForwardResume)	On

Description

This notification is generated when the number of FIB entries on the device exceeds the threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable fib` command.

OFF

CLI: Use the `undo snmp-agent trap enable fib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.216.2.1.1 (hh3cFibOverloadModule)	Module name (FIB4/FIB6)	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check whether the network is attacked.

hh3cFibOverloadForwardResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.216.2.0.2	The device recovered from a FIB entry capacity usage alarm.	Informational	Event	N/A	On

Description

This notification is generated when the device recovers from a FIB entry capacity usage alarm.

Status control

ON

CLI: Use the `snmp-agent trap enable fib` command.

OFF

CLI: Use the `undo snmp-agent trap enable fib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.216.2.1.1 (hh3cFibOverloadModule)	Module name (FIB4/FIB6).	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-IP-ADDRESS-MIB

About this MIB

Use this MIB to obtain and configure IPv4 addresses.

MIB file name

hh3c-ip-address.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3clpAddrMIB(67)

Scalar objects

hh3clpAddrNotifyIfIndex

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrNotifyIfIndex (1.3.6.1.4.1.25506.2.67.2.1.1)	accessible-for-notification	Integer32	Integer32 (1..2147483647)	Interface index.	As per the MIB.

hh3clpAddrOldIpAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrOldIpAddress (1.3.6.1.4.1.25506.2.67.2.1.2)	accessible-for-notification	InetAddress	OCTET STRING (0..255)	Old IP address.	As per the MIB.

hh3clpAddrNewIpAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrNewIpAddress (1.3.6.1.4.1.25506.2.67.2.1.3)	accessible-for-notification	InetAddress	OCTET STRING (0..255)	New IP address.	As per the MIB.

hh3clpAddrFirstTrapTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrFirstTrapTime (1.3.6.1.4.1.25506.2.67.2.1.4)	accessible-for-notification	TimeTicks	TimeTicks (0~4294967295)	Time when the first SNMP notification was sent.	As per the MIB.

Tabular objects

hh3clpAddrSetTable

About this table

Use this table to configure IPv4 addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3clpAddrSetIfIndex, hh3clpAddrSetAddrType, and hh3clpAddrSetAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrSetIfIndex (1.3.6.1.4.1.25506.2.67.1.1.1.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Interface index.	As per the MIB.
hh3clpAddrSetAddrType (1.3.6.1.4.1.25506.2.67.1.1.1.1.2)	not-accessible	InetAddressType	ipv4(1)	IP address version.	Only support ipv4(1)
hh3clpAddrSetAddr (1.3.6.1.4.1.25506.2.67.1.1.1.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address.	As per the MIB.
hh3clpAddrSetMask (1.3.6.1.4.1.25506.2.67.1.1.1.1.4)	read-create	IpAddress	OCTET STRING (4)	Address mask.	As per the MIB.
hh3clpAddrSetSourceType (1.3.6.1.4.1.25506.2.67.1.1.1.1.5)	read-create	INTEGER	assignedIp(1)	Source type of the IPv4 address.	As per the MIB.
hh3clpAddrSetCatalog (1.3.6.1.4.1.25506.2.67.1.1.1.1.6)	read-create	INTEGER	primary(1), sub(2)	Type of the IPv4 address.	As per the MIB.
hh3clpAddrSetRowStatus (1.3.6.1.4.1.25506.2.67.1.1.1.1.7)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status of the IPv4 address.	Support active(1), createAndGo(4), and destroy(6) The value active(1) is read only.

hh3clpAddrReadTable

About this table

Use this table to obtain IPv4 addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3clpAddrReadIfIndex, hh3clpAddrReadAddrType, hh3clpAddrReadAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpAddrReadIfIndex (1.3.6.1.4.1.25506.2.67.1.1.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Interface index.	As per the MIB.
hh3clpAddrReadAddrType (1.3.6.1.4.1.25506.2.67.1.1.2.1.2)	not-accessible	InetAddressType	ipv4(1)	IP address version.	Only support ipv4(1).
hh3clpAddrReadAddr (1.3.6.1.4.1.25506.2.67.1.1.2.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address.	As per the MIB.
hh3clpAddrReadMask (1.3.6.1.4.1.25506.2.67.1.1.2.1.4)	read-only	IpAddress	OCTET STRING (4)	Address mask.	As per the MIB.
hh3clpAddrReadSourceType (1.3.6.1.4.1.25506.2.67.1.1.2.1.5)	read-only	INTEGER	assignedIp(1), cluster(2), dhcp(3), bootp(4), negotiate(5), unnumbered(6), vrrp(7)	Source type of the IPv4 address.	As per the MIB.
hh3clpAddrReadCatalog (1.3.6.1.4.1.25506.2.67.1.1.2.1.6)	read-only	INTEGER	primary(1), sub(2), cluster(3), vrrp(4)	Type of the IPv4 address.	As per the MIB.

hh3clpv4AddrTable

About this table

Use this table to configure the primary IPv4 address of an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpv4AddrAdd	read-create	IpAddress	OCTET STRING	IP address.	If the interface has

r (1.3.6.1.4.1.25506.2.67.1.1.3.1.1)			(4)		no primary or secondary IP address, the value is 0.0.0.0.
hh3clpv4AddrMask (1.3.6.1.4.1.25506.2.67.1.1.3.1.2)	read-create	IpAddress	OCTET STRING (4)	Address mask.	As per the MIB.
hh3clpv4AddrRowStatus (1.3.6.1.4.1.25506.2.67.1.1.3.1.3)	read-create	RowStatus	active(1) , notInService(2) , createAndGo(4) , destroy(6)	Row status of the address configuration.	Support active(1), notInService(2), createAndGo(4), and destroy(6). If the interface has primary or secondary IP address, the value is active(1). If the interface has no primary or secondary IP address, the value is notInService(2).

Notifications

hh3clpAddressChangeNotify

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.67.2.2.0.1	Address change.	Informational	-	-	ON

Description

A notification sent when the interface address had changed.

Status control

The SNMP notification for IP address change cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
hh3clpAddrNotifyIfIndex (1.3.6.1.4.1.25506.2.67.2.1.1)	Interface index.	No	Integer32	Integer32 (1..2147483647)
hh3clpAddrOldIpAddress (1.3.6.1.4.1.25506.2.67.2.1.2)	Previous IP address.	No	InetAddress	OCTET STRING (0..255)
hh3clpAddrNewIpAddress (1.3.6.1.4.1.25506.2.67.2.1.3)	New IP address.	No	InetAddress	OCTET STRING (0..255)

OID (object name)	Description	Index	Type	Value range
hh3clpAddrFirstTrapTime (1.3.6.1.4.1.25506.2.67.2.1.4)	Time when the first SNMP notification was sent.	No	TimeTicks	TimeTicks (0~4294967295)

Recommended action

No action is required.

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HH3C-IPV6-ADDRESS-MIB

About this MIB

Use this MIB to obtain and configure IPv6 addresses.

MIB file name

hh3c-ipv6-address.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cIpv6AddrMIB(71)

Tabular objects

hh3cIpv6AddrSetTable

About this table

This table configures an IPv6 addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cIpv6AddrSetIfIndex, hh3cIpv6AddrSetAddrType, and hh3cIpv6AddrSetAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIpv6AddrSetIfIndex (1.3.6.1.4.1.25506.2.71.1.1.1.1.1)	not-accessible	Integer32	Integer32 (1..2147483)	Interface index.	As per the MIB.
hh3cIpv6AddrSetAddrType (1.3.6.1.4.1.25506.2.71.1.1.1.1.2)	not-accessible	InetAddressType	ipv6(2)	IP address version.	As per the MIB.
hh3cIpv6AddrSetAddr (1.3.6.1.4.1.25506.2.71.1.1.1.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address.	As per the MIB.
hh3cIpv6AddrSetPfxLength (1.3.6.1.4.1.25506.2.71.1.1.1.1.4)	read-create	Integer32	Integer32 (1..128)	IPv6 address subnet prefix length.	As per the MIB.
hh3cIpv6AddrSetSourceType (1.3.6.1.4.1.25506.2.71.1.1.1.1.5)	read-create	INTEGER	assignedIp(1) assignedEUI64Ip(2)	Source type of the IPv6 address.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.71.1.1.1.1.5)			2) assignedLinklocal p(3)		
hh3clpv6AddrSet RowStatus (1.3.6.1.4.1.25506 .2.71.1.1.1.1.6)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Create a new row or delete an existing row.	As per the MIB.

hh3clpv6AddrReadTable

About this table

This table displays IPv6 addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3clpv6AddrReadIfIndex, hh3clpv6AddrReadAddrType, and hh3clpv6AddrReadAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clpv6AddrReadIfIndex (1.3.6.1.4.1.25506 .2.71.1.1.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Interface index.	As per the MIB.
hh3clpv6AddrReadAddrType (1.3.6.1.4.1.25506 .2.71.1.1.2.1.2)	not-accessible	InetAddressType	ipv6(2)	IP address version.	As per the MIB.
hh3clpv6AddrReadAddr (1.3.6.1.4.1.25506 .2.71.1.1.2.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	IPv6 address.	As per the MIB.
hh3clpv6AddrReadPfxLength (1.3.6.1.4.1.25506 .2.71.1.1.2.1.4)	read-only	Integer32	Integer32 (1..128)	IPv6 address prefix length.	As per the MIB.
hh3clpv6AddrReadSourceType (1.3.6.1.4.1.25506 .2.71.1.1.2.1.5)	read-only	INTEGER	assignedIp(1) assignedEUI64Ip(2), assignedAutoIp(3) autoIp(4) dhcpv6(5) negotiate(6) cluster(7)	Source type of the IPv6 address.	As per the MIB.
hh3clpv6AddrReadCatalog	read-only	INTEGER	nodelocal(1)	Type of the IPv6 address.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506 .2.71.1.1.2.1.6)			linklocal(2) sitelocal(3) orglocal(4) global(5)		

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hh3cNDTrapRateLimitOverspeed	14

HH3C-ND-TRAP-MIB

About this MIB

Use this MIB to obtain information about ND entry learning threshold and packet conflict related alarms.

MIB file name

hh3c-nd-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2). hh3cNDTrap(218)

Notifications

This section contains HH3C-ND-TRAP-MIB notifications.

hh3cNDTrapAllThresholdExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.1	Number of global ND entries exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.218.1.0.2 (hh3cNDTrapThresholdResume)	OFF

Description

This notification is generated when the number of ND entries on the device exceeds the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of global ND entries.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.6 (hh3cNDTrapEntryStaticNum)	Number of static ND entries.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.7 (hh3cNDTrapEntryOtherNum)	Number of other ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Delete the useless dynamic ND entries on the device. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cNDTrapAllThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.6	The number of ND entries dropped below the threshold.	Informational	N/A	N/A	OFF

Description

This notification is generated when the number of ND entries on the device drops below the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of global ND entries.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.6 (hh3cNDTrapEntryStaticNum)	Number of static ND	No	Unsigned32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
	entries.			
1.3.6.1.4.1.25506.2.218.1.1.7 (hh3cNDTrapEntryOtherNum)	Number of other ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapSlotThresholdExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.3	The number of ND entries on the current card exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.218.1.0.4 (hh3cNDTrapSlotThresholdResumeAlarm)	OFF

Description

This notification is generated when the number of the dynamic ND entries on a card reaches or exceeds the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Status control

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.1 (hh3cNDTrapEntryChassis)	Chassis number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.2 (hh3cNDTrapEntrySlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND entries on the card.	No	Unsigned32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Delete the useless dynamic ND entries on the card. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cNDTrapSlotThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.4	The number of ND entries on the current card dropped below the alarm threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the number of dynamic ND entries on the card drops below the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.1 (hh3cNDTrapEntryChassis)	Chassis number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.2 (hh3cNDTrapEntrySlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND entries on the card.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapIfThresholdExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.5	The number of ND entries on the interface exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.218.1.0.6 (hh3cNDTrapIfThresholdResumeAlarm)	OFF

Description

This notification is generated when the number of dynamic ND entries on an interface exceeds the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.3 (hh3cNDTrapEntryIfName)	Interface name	No	DisplayString	OCTET STRING (1:0..255)
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND entries on the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Delete the useless dynamic ND entries on the interface. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cNDTrapIfThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.6	The number of ND entries on the interface dropped below the alarm threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the number of dynamic ND entries on an interface drops below the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.3 (hh3cNDTrapEntryIfName)	Interface name	No	DisplayString	OCTET STRING (1:0..255)
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND entries on the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.5 (hh3cNDTrapEntryDynamicNum)	Number of dynamic ND entries.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapSuppThresholdExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.7	The number of ND suppression entries on the device exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.218.1.0.8 (hh3cNDTrapSuppThresholdResume Alarm)	ON

Description

This notification is generated when the number of ND suppression entries on the device exceeds the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND suppression entries on the device	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.8 (hh3cNDTrapEntrySuppNum)	Number of ND suppression entries on the device	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Delete the useless ND suppression entries on the device. If the current alarm threshold value is too small, increase the threshold value as appropriate.

hh3cNDTrapSuppThresholdResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.1.0.8	The number of ND suppression entries on the	Informational	N/A	N/A	ON

	device dropped below the alarm threshold.				
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Description

This notification is generated when the number of ND suppression entries on the device drops below the alarm threshold.

Status control

ON

CLI: Use the `ipv6 nd entry-limit record enable` command.

OFF

CLI: Use the `undo ipv6 nd entry-limit record enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.1.1.4 (hh3cNDTrapEntryThreshold)	Alarm threshold for the number of ND suppression entries on the device	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.1.1.8 (hh3cNDTrapEntrySuppNum)	Number of ND suppression entries on the device	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapPktSpeedAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.1	The sending rate for ND packets or ND Miss packets exceeded the alarm threshold.	Error	Warning	1.3.6.1.4.1.25506.2.218.2.0.2 (hh3cNDTrapPktSpeedAlarmResume)	OFF

Description

This notification is generated when the ND packets or ND Miss packets sending rate exceeds the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable nd nd-miss` command.

OFF

CLI: Use the `undo snmp-agent trap enable nd nd-miss` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.1.1 (hh3cNDTrapPktSpeedChassis)	Chassis number	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.2 (hh3cNDTrapPktSpeedSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.3 (hh3cNDTrapPktSpeedSupValue)	Alarm threshold of packet sending rate.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.4 (hh3cNDTrapPktSpeedCurValue)	Current packet sending rate.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.5 (hh3cNDTrapPktSpeedSupType)	Packet type: ND, or ND-Miss.	No	OCTET STRING	OCTET STRING (1:1..48)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check whether an attack or a loop exists on the network.

hh3cNDTrapPktSpeedAlarmResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.2	The sending rate for ND packets or ND Miss packets dropped below the alarm threshold.	Informational	N/A	N/A	OFF

Description

This notification is generated when the ND packets or ND Miss packets sending rate on an interface drops below the alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable nd nd-miss` command.

OFF

CLI: Use the `undo snmp-agent trap enable nd nd-miss` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.1.1 (hh3cNDTrapPktSpeedChassis)	Chassis number	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.2 (hh3cNDTrapPktSpeedSlot)	Slot number.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.3 (hh3cNDTrapPktSpeedSupValue)	Alarm threshold of packet sending rate.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.4 (hh3cNDTrapPktSpeedCurValue)	Current packet sending rate.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.1.5 (hh3cNDTrapPktSpeedSupType)	Packet type: ND, or ND-Miss.	No	OCTET STRING	OCTET STRING (1:1..48)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapHostIPConflict

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.3	Local IPv6 address conflicted.	Error	Warning	1.3.6.1.4.1.25506.2.218.2.0.4 (hh3cNDTrapHostIPConflictResume)	ON

Description

This notification is generated when an interface receives a packet whose source IPv6 address is the same as the local interface IPv6 address.

Status control

ON

CLI: Use the `snmp-agent trap enable nd local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable nd local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.2.1 (hh3cNDTrapHostIPCftLocalIPv6)	IPv6 address of the interface.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.2 (hh3cNDTrapHostIPCftLocalMAC)	MAC address of the interface.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.3 (hh3cNDTrapHostIPCftLocalIf)	Name of the interface.	No	DisplayString	OCTETSTRING (1:0..255)
1.3.6.1.4.1.25506.2.218.2.2.4 (hh3cNDTrapHostIPCftLocalPevId)	Outer VLAN ID of the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.5 (hh3cNDTrapHostIPCftLocalCevid)	Inner VLAN ID of the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.6 (hh3cNDTrapHostIPCftRemoteIPv6)	Remote IPv6 address.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.7 (hh3cNDTrapHostIPCftRemoteMAC)	Remote MAC address.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.8 (hh3cNDTrapHostIPCftRemotePevId)	Remote outer VLAN ID.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.9 (hh3cNDTrapHostIPCftRemoteCevid)	Remote inner VLAN ID.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check whether an ND attack exists on the network.

hh3cNDTrapHostIPConflictResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.4	The local IPv6 address conflict was removed.	Informational	N/A	N/A	OFF

Description

This notification is generated when the local IPv6 address conflict on an interface is removed. A conflict on an interface is removed if the interface does not receive the same conflict within three minutes.

Status control

ON

CLI: Use the `snmp-agent trap enable nd local-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable nd local-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.2.1 (hh3cNDTrapHostIPCftLocalIPv6)	IPv6 address of the interface.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.2 (hh3cNDTrapHostIPCftLocalMAC)	MAC address of the interface.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.3 (hh3cNDTrapHostIPCftLocalIf)	Name of the interface.	No	DisplayString	OCTETSTRING (1: 0..255)
1.3.6.1.4.1.25506.2.218.2.2.4 (hh3cNDTrapHostIPCftLocalPevId)	Outer VLAN ID of the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.5 (hh3cNDTrapHostIPCftLocalCevId)	Inner VLAN ID of the interface.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.6 (hh3cNDTrapHostIPCftRemoteIPv6)	Remote IPv6 address.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.7 (hh3cNDTrapHostIPCftRemoteMAC)	Remote MAC address.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.2.9 (hh3cNDTrapHostIPCftRemotePevId)	Remote outer VLAN ID.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.2.10 (hh3cNDTrapHostIPCftRemoteCevId)	Remote inner VLAN ID.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cNDTrapDuplicateIPv6

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.5	User IPv6 address conflicted.	Error	Warning	N/A	OFF

Description

This notification is generated when a user IPv6 address conflict occurs. A conflict occurs if an incoming NA packet has the same source IPv6 address as an existing ND entry but a different source MAC address.

Status control

ON

CLI: Use the `snmp-agent trap enable nd user-ip-conflict` command.

OFF

CLI: Use the `undo snmp-agent trap enable user-ip-conflict` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.3.1 (hh3cNDTrapDupIPv6NewMac)	MAC address of the new user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.2 (hh3cNDTrapDupIPv6NewSevid)	Outer VLAN ID of the new user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.3 (hh3cNDTrapDupIPv6NewCevId)	Inner VLAN ID of the new user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.4 (hh3cNDTrapDupIPv6NewIFName)	Interface name of the new user.	No	DisplayString	OCTET STRING (1:0..255)
1.3.6.1.4.1.25506.2.218.2.3.5 (hh3cNDTrapDupIPv6OldMac)	MAC address of the old user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.6 (hh3cNDTrapDupIPv6OldSevid)	Outer VLAN ID of the old user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.7 (hh3cNDTrapDupIPv6OldCevId)	Inner VLAN ID of the old user.	No	OCTET STRING	OCTET STRING (1:1..48)
1.3.6.1.4.1.25506.2.218.2.3.8 (hh3cNDTrapDupIPv6OldIFName)	Interface name of the old user.	No	DisplayString	OCTET STRING (1:0..255)
1.3.6.1.4.1.25506.2.218.2.3.9 (hh3cNDTrapDupIPv6DupAddr)	Conflicted IPv6 address.	No	OCTET STRING	OCTET STRING (1:1..48)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check whether an ND packet attack or a loop exists on the network.

hh3cNDTrapRatelimitOverspeed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.218.2.0.6	The sending rate for ND packets exceeded the rate limit.	Informational	N/A	N/A	OFF

Description

This notification is generated when the sending rate for ND packets exceeds the rate limit.

Status control

ON

CLI: Use the `snmp-agent trap enable nd rate-limit` command.

OFF

CLI: Use the `undo snmp-agent trap enable nd rate-limit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.218.2.4.1 (hh3cNDTrapRatelimitVer)	Notification version.	No	Unsigned32	1
1.3.6.1.4.1.25506.2.218.2.4.2 (hh3cNDTrapRatelimitCount)	Rate limit.	No	Unsigned32	Standard MIB values.
1.3.6.1.4.1.25506.2.218.2.4.3 (hh3cNDTrapRatelimitMsg)	Rate limit message.	No	OCTET STRING	SIZE (1..254)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-TCP-MIB

About this MIB

Use this MIB to test whether the MD5 authentication for the current TCP connection is successful.

MIB file name

hh3c-tcp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTcp(215)

Notifications

This section contains HH3C-TCP-MIB notifications.

hh3cTcpMD5AuthenFail

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.215.1.0.1	TCP connection MD5 authentication failed.	Error	Warning	N/A	ON

Description

This notification is generated when MD5 authentication of the current TCP connection fails.

Status control

ON

CLI: Use the `snmp-agent trap enable tcp` command.

OFF

CLI: Use the `undo snmp-agent trap enable tcp` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.215.1.1.1 (hh3cTcpConnLocalAddressTCP)	Local IP address of the TCP connection	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.215.1.1.2 (hh3cTcpConnLocalPortTCP)	Local port number of the TCP connection	No	Integer32	Integer32(0..65535)
1.3.6.1.4.1.25506.2.215.1.1.3 (hh3cTcpConnRemAddressTCP)	Remote IP address of the TCP connection	No	OCTET STRING	OCTET STRING (0..255)

1.3.6.1.4.1.25506.2.215.1.1.4 (hh3cTcpConnRemPortTCP)	Remote port number of the TCP connection	No	Integer32	Integer32(0..65535)
1.3.6.1.4.1.25506.2.215.1.1.5 (hh3cTcpProtocol)	Name of the upper layer protocol of TCP	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.215.1.1.6 (hh3cTcpVrfNameVRF)	Name of the VRF of the TCP connection	No	OCTET STRING	OCTET STRING (0..255)

Recommended action

Check whether the network is under a packet attack.

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HH3C-TUNNEL-TRAP-MIB

About this MIB

Use this MIB to output notifications for the tunnel module.

MIB file name

hh3c-tunnel-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTunnelTrap(226)

Notifications

hh3cTunnelTrapVxlanStatusUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.226.1.1.0.1	A VXLAN tunnel came up.	Error	Warning	N/A	OFF

Description

This notification is generated when a VXLAN tunnel comes up at the link layer.

Status control

ON

CLI: Use the `snmp-agent trap enable tunnel vxlan-tunnel-status` command.

OFF

CLI: Use the `undo snmp-agent trap enable tunnel vxlan-tunnel-status` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.226.1.1.1.1 (hh3cTunnelTrapVxlanStatusSType)	Tunnel source address type.	No	INTEGER	unknown(0), ipv4(1), ipv6(2)
1.3.6.1.4.1.25506.2.226.1.1.1.2 (hh3cTunnelTrapVxlanStatusSrcIP)	Tunnel source address.	No	InetAddress	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.226.1.1.1.3 (hh3cTunnelTrapVxlanStatusDType)	Tunnel destination address type.	No	INTEGER	unknown(0), ipv4(1), ipv6(2)

1.3.6.1.4.1.25506.2.226.1.1.1.4 (hh3cTunnelTrapVxlanStatusDstIP)	Tunnel destination address.	No	InetAddress	OCTET STRING (0..255)
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Recommended action

No action is required.

hh3cTunnelTrapVxlanStatusDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.226.1.1.0.2	A VXLAN tunnel went down.	Error	Warning	N/A	OFF

Description

This notification is generated when a VXLAN tunnel goes down at the link layer.

Status control

ON

CLI: Use the `snmp-agent trap enable tunnel vxlan-tunnel-status` command.

OFF

CLI: Use the `undo snmp-agent trap enable tunnel vxlan-tunnel-status` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.226.1.1.1.1 (hh3cTunnelTrapVxlanStatusSType)	Tunnel source address type.	No	INTEGER	unknown(0), ipv4(1), ipv6(2)
1.3.6.1.4.1.25506.2.226.1.1.1.2 (hh3cTunnelTrapVxlanStatusSrcIP)	Tunnel source address.	No	InetAddress	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.226.1.1.1.3 (hh3cTunnelTrapVxlanStatusDType)	Tunnel destination address type.	No	INTEGER	unknown(0), ipv4(1), ipv6(2)
1.3.6.1.4.1.25506.2.226.1.1.1.4 (hh3cTunnelTrapVxlanStatusDstIP)	Tunnel destination address.	No	InetAddress	OCTET STRING (0..255)

Recommended action

No action is required.

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IP-FORWARD-MIB

About this MIB

Use this MIB to configure IP routes for Classless Inter-Domain Routing (CIDR).

MIB file name

rfc4292-ip-forward.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ip(4).ipForward(24)

Scalar objects

ipCidrRouteNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipCidrRouteNumber(1.3.6.1.2.1.4.24.3)	read-only	Gauge32	Standard MIB values.	Number of current valid ipCidrRouteTable entries.	As per the MIB.

inetCidrRouteNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
inetCidrRouteNumber(1.3.6.1.2.1.4.24.6)	read-only	Gauge32	Standard MIB values.	Number of current valid inetCidrRouteTable entries.	As per the MIB.

inetCidrRouteDiscards

Object (OID)	Access	Syntax	Value range	Description	Implementation
inetCidrRouteDiscards(1.3.6.1.2.1.4.24.8)	read-only	Counter32	Standard MIB values.	Number of invalid entries dropped by inetCidrRouteTable.	As per the MIB.

Tabular objects

ipCidrRouteTable

About this table

Use this table to implement routing table function on an entity. This table has been replaced by the inetCidrRouteTable and is no longer in use.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ipCidrRouteDest, ipCidrRouteMask, ipCidrRouteTos, and ipCidrRouteNextHop.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipCidrRouteDest(1.3.6.1.2.1.4.24.4.1.1)	read-only	IpAddress	(0..255)	Destination IP address of the route.	As per the MIB.
ipCidrRouteMask(1.3.6.1.2.1.4.24.4.1.2)	read-only	IpAddress	(0..255)	Address mask.	As per the MIB.
ipCidrRouteTos(1.3.6.1.2.1.4.24.4.1.3)	read-only	Integer32	Standard MIB values.	ToS field value.	The value is always 0.
ipCidrRouteNextHop(1.3.6.1.2.1.4.24.4.1.4)	read-only	IpAddress	(0..255)	Address of the next hop.	As per the MIB.
ipCidrRouteIfIndex(1.3.6.1.2.1.4.24.4.1.5)	read-create	Integer32	Standard MIB values.	Interface index.	Read only.
ipCidrRouteType(1.3.6.1.2.1.4.24.4.1.6)	read-create	INTEGER	Standard MIB values.	Type of the route.	Read only.
ipCidrRouteProto(1.3.6.1.2.1.4.24.4.1.7)	read-only	INTEGER	Standard MIB values.	Protocol type.	As per the MIB.
ipCidrRouteAge(1.3.6.1.2.1.4.24.4.1.8)	read-only	Integer32	Standard MIB values.	Time since the route was last updated.	As per the MIB.
ipCidrRouteInfo(1.3.6.1.2.1.4.24.4.1.9)	read-create	OBJECT IDENTIFIER	Standard MIB values.	Route information.	The value is always 0. Read only.
ipCidrRouteNextHopAS(1.3.6.1.2.1.4.24.4.1.10)	read-create	Integer32	Standard MIB values.	AS number of the next hop.	The value is always 0. Read only.
ipCidrRouteMetric1(1.3.6.1.2.1.4.24.4.1.11)	read-create	Integer32	Standard MIB values.	Primary routing metric of the route.	Read only.
ipCidrRouteMetric2(1.3.6.1.2.1.4.24.4.1.12)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
ipCidrRouteMetric3(1.3.6.1.2.1.4.24.4.1.13)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
ipCidrRouteMetric4(1.3.6.1.2.1.4.24.4.1.14)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipCidrRouteMetric 5(1.3.6.1.2.1.4.24.4.1.15)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
ipCidrRouteStatus (1.3.6.1.2.1.4.24.4.1.16)	read-create	INTEGER	Standard MIB values.	Row status variable, used according to row installation and deletion conventions.	Read only.

inetCidrRouteTable

About this table

Use this table to obtain IP version-independent multipath CIDR routes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are inetCidrRouteDestType, inetCidrRouteDest, inetCidrRoutePfxLen, inetCidrRoutePolicy, and inetCidrRouteNextHop.

Object (OID)	Access	Syntax	Value range	Description	Implementation
inetCidrRouteDestType (1.3.6.1.2.1.4.24.7.1.1)	not-accessible	Integer32	Standard MIB values.	Destination address family.	As per the MIB.
inetCidrRouteDest (1.3.6.1.2.1.4.24.7.1.2)	not-accessible	Octets	(0..255)	Destination address.	As per the MIB.
inetCidrRoutePfxLen (1.3.6.1.2.1.4.24.7.1.3)	not-accessible	Gauge32	Standard MIB values.	Prefix length of the destination address.	As per the MIB.
inetCidrRoutePolicy (1.3.6.1.2.1.4.24.7.1.4)	not-accessible	Object Identifier	Standard MIB values.	General set of route information.	As per the MIB.
inetCidrRouteNextHopType (1.3.6.1.2.1.4.24.7.1.5)	not-accessible	Integer32	Standard MIB values.	Next hop address family.	As per the MIB.
inetCidrRouteNextHop (1.3.6.1.2.1.4.24.7.1.6)	not-accessible	Octets	(0..255)	Address of the next hop.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
inetCidrRouteIfIndex (1.3.6.1.2.1.4.24.7.1.7)	read-create	Integer32	Standard MIB values.	Output interface.	Read only.
inetCidrRouteType (1.3.6.1.2.1.4.24.7.1.8)	read-create	Integer32	Standard MIB values.	Type of the route.	Only supports remote, local, and blackhole. Read only.
inetCidrRouteProtocol (1.3.6.1.2.1.4.24.7.1.9)	read-only	Integer32	Standard MIB values.	Routing protocol type.	Supports local, netmgmt, rip, ospf, is-is, bgp, and other (unspecified).
inetCidrRouteAge (1.3.6.1.2.1.4.24.7.1.10)	read-only	Gauge32	Standard MIB values.	Lifetime of the route.	As per the MIB.
inetCidrRouteNextHopAS (1.3.6.1.2.1.4.24.7.1.11)	read-create	Gauge32	Standard MIB values.	AS number of the next hop.	The value is always 0. Read only.
inetCidrRouteMetric1 (1.3.6.1.2.1.4.24.7.1.12)	read-create	Integer32	Standard MIB values.	Routing metric in the protocol.	Read only.
inetCidrRouteMetric2 (1.3.6.1.2.1.4.24.7.1.13)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
inetCidrRouteMetric3 (1.3.6.1.2.1.4.24.7.1.14)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
inetCidrRouteMetric4 (1.3.6.1.2.1.4.24.7.1.15)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
inetCidrRouteMetric5 (1.3.6.1.2.1.4.24.7.1.16)	read-create	Integer32	Standard MIB values.	Alternate routing metric of the route.	The value is always -1. Read only.
inetCidrRouteStatus (1.3.6.1.2.1.4.24.7.1.17)	read-create	Integer32	Standard MIB values.	Row status.	Read only.

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IP-MIB

About this MIB

Use this MIB to obtain device IP and ICMP basic information and packet statistics.

MIB file name

rfc4293-ip.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipMIB(48)

Scalar objects

ipForwarding

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipForwarding (1.3.6.1.2.1.4.1)	read-write	INTEGER	forwarding(1), not-forwarding(2)	Whether the object is an IP gateway that can forward data packets destined to any other devices. Only IP gateways can forward data packets. IP hosts cannot forward data packets.	Supports only the read operation.

ipDefaultTTL

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipDefaultTTL (1.3.6.1.2.1.4.2)	read-write	INTEGER	Standard MIB values.	Default TTL carried in an IP data packet header if the transmission layer protocol does not have a TTL value defined.	Value range: 1 to 255

ipInReceives

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInReceives (1.3.6.1.2.1.4.3)	read-only	Counter32	Standard MIB values.	Number of received data packets, including error data packets.	As per the MIB.

ipInHdrErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInHdrErrors (1.3.6.1.2.1.4.4)	read-only	Counter32	Standard MIB values.	Number of data packets dropped because of reasons such as checksum error, mismatched version, incorrect format, TTL timeout, and IP option processing error.	As per the MIB.

ipInAddrErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInAddrErrors (1.3.6.1.2.1.4.5)	read-only	Counter32	Standard MIB values.	<p>Number of received data packets dropped because of invalid destination addresses (for example, 0.0.0.0) or unsupported destination address class (for example, class E).</p> <p>For a non-IP gateway entity, it drops packets destined to any other devices because such entities cannot forward traffic.</p>	As per the MIB.

ipForwDatagrams

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipForwDatagrams (1.3.6.1.2.1.4.6)	read-only	Counter32	Standard MIB values.	<p>Number of forwarded packets.</p> <p>Forwarded packets are those that are not locally-addressed and require the system to find a route to forward them.</p>	As per the MIB.

ipInUnknownProtos

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInUnknownProtos (1.3.6.1.2.1.4.7)	read-only	Counter32	Standard MIB values.	Number of received packets	As per the MIB.

				destined to the local IP address but dropped because of unsupported protocol or unknown reasons.	
--	--	--	--	--	--

ipInDiscards

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInDiscards (1.3.6.1.2.1.4.8)	read-only	Counter32	Standard MIB values.	Number of received packets that should be processed, but were dropped because of reasons such as insufficient buffer space. This value does not include packet fragments dropped because of reassembly timeout.	As per the MIB.

ipInDelivers

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipInDelivers (1.3.6.1.2.1.4.9)	read-only	Counter32	Standard MIB values.	Number of received packets successfully delivered to IP user-protocols.	As per the MIB.

ipOutRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipOutRequests (1.3.6.1.2.1.4.10)	read-only	Counter32	Standard MIB values.	Number of packets that local IP user-protocols (including ICMP) supplied to IP in requests for transmission. Forwarded IP packets are excluded. You can obtain the number of forwarded IP packets by using ipForwDatagrams.	As per the MIB.

ipOutDiscards

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipOutDiscards (1.3.6.1.2.1.4.11)	read-only	Counter32	Standard MIB values.	Number of outgoing packets	As per the MIB.

				that should be processed, but were dropped because of reasons such as insufficient buffer space.	
--	--	--	--	--	--

ipOutNoRoutes

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipOutNoRoutes (1.3.6.1.2.1.4.12)	read-only	Counter32	Standard MIB values.	Number of IP packets dropped because no route to the destination can be found.	As per the MIB.

ipReasmTimeout

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipReasmTimeout (1.3.6.1.2.1.4.13)	read-only	Integer32	Standard MIB values.	Fragment reassembly timeout.	As per the MIB.

ipReasmReqds

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipReasmReqds (1.3.6.1.2.1.4.14)	read-only	Counter32	Standard MIB values.	Number of received IP packet fragments waiting for reassembly.	As per the MIB.

ipReasmOKs

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipReasmOKs (1.3.6.1.2.1.4.15)	read-only	Counter32	Standard MIB values.	Number of IP packets that have been reassembled successfully.	As per the MIB.

ipReasmFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipReasmFails (1.3.6.1.2.1.4.16)	read-only	Counter32	Standard MIB values.	Number of packet reassembly failures detected by the IP reassembly algorithm because of reasons such as timeout and errors. The system does not calculate the number of dropped fragments	As per the MIB.

				because some algorithms do not record fragment quantity information.	
--	--	--	--	--	--

ipFragOKs

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipFragOKs (1.3.6.1.2.1.4.17)	read-only	Counter32	Standard MIB values.	Number of IP packets that have been fragmented successfully.	As per the MIB.

ipFragFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipFragFails (1.3.6.1.2.1.4.18)	read-only	Counter32	Standard MIB values.	Number of IP packets failed to be fragmented because of reasons such as a set DF flag.	As per the MIB.

ipFragCreates

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipFragCreates (1.3.6.1.2.1.4.19)	read-only	Counter32	Standard MIB values.	Number of IP packets created because of packet fragmentation.	As per the MIB.

ipRoutingDiscards

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipRoutingDiscards (1.3.6.1.2.1.4.23)	read-only	Counter32	Standard MIB values.	Number of deleted routing table entries. Routing table entries can be deleted to release buffer space.	As per the MIB.

ipv6IpForwarding

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IpForwarding (1.3.6.1.2.1.4.25)	read-write	INTEGER	forwarding(1), not-forwarding(2)	Whether the object is an IPv6 router that can forward data packets destined to any other devices.	Supports only the read operation.

ipv6IpDefaultHopLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IpDefaultHopLimit (1.3.6.1.2.1.4.26)	read-write	Integer32	Integer32 (0..255)	Default hops carried in an IPv6 data packet header if the transmission layer protocol does not have a hop value defined.	Supports only the read operation.

ipv4InterfaceTableLastChange

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv4InterfaceTableLastChange (1.3.6.1.2.1.4.27)	read-only	TimeStamp	Standard MIB values.	Time elapsed from system startup to ipv4InterfaceTable entry adding or deletion, or an ipv4InterfaceReasmMaxSize or ipv4InterfaceEnableStatus change.	Not supported

ipv6InterfaceTableLastChange

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6InterfaceTableLastChange (1.3.6.1.2.1.4.29)	read-only	TimeStamp	Standard MIB values.	Time elapsed from system startup to ipv6InterfaceTable entry adding or deletion, or an ipv6InterfaceReasmMaxSize, ipv6InterfaceIdentifier, ipv6InterfaceEnableStatus, ipv6InterfaceReachableTime, ipv6InterfaceRetransmitTime, or ipv6InterfaceForwarding change.	Not supported

ipLlStatsTableLastChange

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipLlStatsTableLastChange (1.3.6.1.2.1.4.31.2)	read-only	TimeStamp	Standard MIB values.	Time elapsed from system startup to ipLlStatsTable entry adding or deletion.	Not supported

ipAddressSpinLock

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipAddressSpinLock (1.3.6.1.2.1.4.33)	read-write	TestAndIncr	Standard MIB values.	An advisory lock used to allow multiple users to add entries to or modify entries of the IP address table.	Not supported

ipv6RouterAdvertSpinLock

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6RouterAdvertSpinLock (1.3.6.1.2.1.4.38)	read-write	TestAndIncr	Standard MIB values.	An advisory lock used to allow multiple users to add entries to or modify entries of the IPv6 routing table.	Not supported

icmpInMsgs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInMsgs (1.3.6.1.2.1.5.1)	read-only	Counter32	Standard MIB values.	Number of received ICMP messages.	As per the MIB.

icmpInErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInErrors (1.3.6.1.2.1.5.2)	read-only	Counter32	Standard MIB values.	Number of received ICMP error messages, including messages with ICMP checksum error or length error.	As per the MIB.

icmpInDestUnreachs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInDestUnreachs (1.3.6.1.2.1.5.3)	read-only	Counter32	Standard MIB values.	Number of received ICMP ICMP Destination Unreachable messages.	As per the MIB.

icmpInTimeExcds

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInTimeExcds (1.3.6.1.2.1.5.4)	read-only	Counter32	Standard MIB values.	Number of ICMP Time Exceeded messages.	As per the MIB.

icmpInParmProbs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInParmProbs (1.3.6.1.2.1.5.5)	read-only	Counter32	Standard MIB values.	Number of received ICMP Parameter Problem messages.	As per the MIB.

icmpInSrcQuenchs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInSrcQuenchs (1.3.6.1.2.1.5.6)	read-only	Counter32	Standard MIB values.	Number of received ICMP Source Quench messages.	As per the MIB.

icmpInRedirects

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInRedirects (1.3.6.1.2.1.5.7)	read-only	Counter32	Standard MIB values.	Number of received ICMP Redirect messages.	As per the MIB.

icmpInEchos

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInEchos (1.3.6.1.2.1.5.8)	read-only	Counter32	Standard MIB values.	Number of received ICMP Echo Request messages.	As per the MIB.

icmpInEchoReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInEchoReps (1.3.6.1.2.1.5.9)	read-only	Counter32	Standard MIB values.	Number of received ICMP Echo Response messages.	As per the MIB.

icmpInTimestamps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInTimestamps (1.3.6.1.2.1.5.10)	read-only	Counter32	Standard MIB values.	Number of received ICMP Timestamp Request messages.	As per the MIB.

icmpInTimestampReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInTimestampReps (1.3.6.1.2.1.5.11)	read-only	Counter32	Standard MIB values.	Number of received ICMP Timestamp Response messages.	As per the MIB.

icmpInAddrMasks

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInAddrMasks (1.3.6.1.2.1.5.12)	read-only	Counter32	Standard MIB values.	Number of received ICMP Address Mask Request messages.	As per the MIB.

icmpInAddrMaskReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpInAddrMaskReps (1.3.6.1.2.1.5.13)	read-only	Counter32	Standard MIB values.	Number of received ICMP Address Mask Response messages.	As per the MIB.

icmpOutMsgs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutMsgs (1.3.6.1.2.1.5.14)	read-only	Counter32	Standard MIB values.	Number of ICMP messages that this entry attempted to send, including messages calculated by icmpOutErrors.	As per the MIB.

icmpOutErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutErrors (1.3.6.1.2.1.5.15)	read-only	Counter32	Standard MIB values.	Number of ICMP messages failed to be sent because of reasons such as insufficient buffer space. Errors occurred outside the ICMP layer are not included. In some implementations, there may be no types of error which contribute to this counter's value.	As per the MIB.

icmpOutDestUnreachs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutDestUnreachs (1.3.6.1.2.1.5.16)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Destination Unreachable messages.	As per the MIB.

icmpOutTimeExcds

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutTimeExcds (1.3.6.1.2.1.5.17)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Time Exceeded messages.	As per the MIB.

icmpOutParmProbs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutParmProbs (1.3.6.1.2.1.5.18)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Parameter Problem messages.	As per the MIB.

icmpOutSrcQuenchs

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutSrcQuenchs (1.3.6.1.2.1.5.19)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Source Quench messages.	Not supported

icmpOutRedirects

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutRedirects (1.3.6.1.2.1.5.20)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Redirect messages. For a host, this object will always be zero because hosts do not send redirects.	As per the MIB.

icmpOutEchos

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutEchos (1.3.6.1.2.1.5.21)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Echo Request messages.	As per the MIB.

icmpOutEchoReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutEchoReps (1.3.6.1.2.1.5.22)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Echo Response messages.	As per the MIB.

icmpOutTimestamps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutTimestamps (1.3.6.1.2.1.5.23)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Timestamp Request messages.	Not supported

icmpOutTimestampReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutTimestampReps (1.3.6.1.2.1.5.24)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Timestamp Response messages.	As per the MIB.

icmpOutAddrMasks

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutAddrMasks (1.3.6.1.2.1.5.25)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Address Mask Request messages.	Not supported

icmpOutAddrMaskReps

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpOutAddrMaskReps (1.3.6.1.2.1.5.26)	read-only	Counter32	Standard MIB values.	Number of sent ICMP Address Mask Response messages.	As per the MIB.

Tabular objects

ipAddrTable

About this table

This table contains IPv4 address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipAdEntAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipAdEntAddr (1.3.6.1.2.1.4.20.1.1)	read-only	IpAddress	Standard MIB values.	IP address.	As per the MIB.
ipAdEntIfIndex (1.3.6.1.2.1.4.20.1.2)	read-only	INTEGER	INTEGER (1..2147483647)	Index of the interface corresponding to the entry.	As per the MIB.
ipAdEntNetMask (1.3.6.1.2.1.4.20.1.3)	read-only	IpAddress	Standard MIB values.	Subnet mask of the IP address.	As per the MIB.
ipAdEntBcastAddr (1.3.6.1.2.1.4.20.1.4)	read-only	INTEGER	INTEGER (0..1)	Value of the least-significant bit in the IP broadcast address used for sending packets on the (logical) interface associated with the IP address of this entry. For example, when the Internet standard all-ones broadcast address is used, the value is 1.	As per the MIB.
ipAdEntReasmMaxSize (1.3.6.1.2.1.4.20.1.5)	read-only	INTEGER	INTEGER (0..65535)	Maximum size of an IP packet which the entry can reassemble from	As per the MIB.

				fragments.	
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ipNetToMediaTable

About this table

This table contains IPv4 address-to-physical address mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipNetToMediaIfIndex and ipNetToMediaNetAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipNetToMediaIfIndex (1.3.6.1.2.1.4.22.1.1)	read-write	INTEGER	INTEGER (1..2147483647)	Index of the interface corresponding to the entry.	Supports only the read operation.
ipNetToMediaPhysAddress (1.3.6.1.2.1.4.22.1.2)	read-write	PhysAddress	SIZE(0..65535)	Physical address of the media.	Supports only the read operation.
ipNetToMediaNetAddress (1.3.6.1.2.1.4.22.1.3)	read-write	IpAddress	Standard MIB values.	IP address corresponding to the media's physical address.	Supports only the read operation.
ipNetToMediaType (1.3.6.1.2.1.4.22.1.4)	read-write	INTEGER	other(1), invalid(2), dynamic(3), static(4)	Mapping type. Setting this object to the value invalid(2) invalidates the corresponding entry in the ipNetToMediaTable. You can use this object to disassociate the interface from the mapping.	Supports only the read operation.

ipv6InterfaceTable

About this table

This table contains detailed IPv6 information about each interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipv6InterfaceIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6InterfaceIndex (1.3.6.1.2.1.4.30.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Index of the interface corresponding to the entry.	As per the MIB.
ipv6InterfaceReasmMaxSize (1.3.6.1.2.1.4.30.1.2)	read-only	Unsigned32	Unsigned32 (1500..65535)	Maximum size of an IPv6 packet that the entry can reassemble from fragments received on the interface.	As per the MIB.
ipv6InterfaceIdentifier (1.3.6.1.2.1.4.30.1.3)	read-only	Ipv6AddressIdentifierTC	Standard MIB values.	Interface identifier. An IPv6 interface address is an interface identifier attached with an address prefix. By default, the Interface Identifier is auto-configured according to the rules of the interface link type. The length of an interface identifier might be zero for specific interfaces, such as a loopback interface.	As per the MIB.
ipv6InterfaceEnableStatus (1.3.6.1.2.1.4.30.1.5)	read-write	INTEGER	up(1), down(2)	IPv6 enablement status on the interface.	Supports only the read operation.
ipv6InterfaceReachableTime (1.3.6.1.2.1.4.30.1.6)	read-only	Unsigned32	Standard MIB values.	Time used to reach a neighbor based on the received reachability confirmation.	As per the MIB.
ipv6InterfaceRetransmitTime (1.3.6.1.2.1.4.30.1.7)	read-only	Unsigned32	Standard MIB values.	Interval at which Neighbor Solicitation messages are retransmitted during address resolving or neighbor reachability probing.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6InterfaceForwarding (1.3.6.1.2.1.4.30.1.8)	read-write	INTEGER	forwarding(1), notForwarding(2)	Whether the object is an IPv6 router that can forward data packets destined to any other devices.	Supports only the read operation.

ipSystemStatsTable

About this table

This table contains IP traffic statistics in the current system.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipSystemStatsIPVersion.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipSystemStatsIPVersion (1.3.6.1.2.1.4.31.1.1.1)	not-accessible	InetVersion	Standard values.	MIB IP version of the current entry.	Supports only ipv4(1) and ipv6(2).
ipSystemStatsInReceives (1.3.6.1.2.1.4.31.1.1.3)	read-only	Counter32	Standard values.	MIB Number of received IP packets in the system, including error packets. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsHCInReceives (1.3.6.1.2.1.4.31.1.1.4)	read-only	Counter64	Standard values.	MIB Number of received IP packets in the system, including error packets. This object counts the same packets as ipSystemStatsInReceives, but allows for larger values. The statistics collection starts at system startup or at the time	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsInOctets (1.3.6.1.2.1.4.31.1.1.5)	read-only	Counter32	Standard values.	MIB Total octets of received IP packets in the system, including error packets. Octets of packets counted in ipSystemStatsInReceives must be counted here. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsHCInOctets (1.3.6.1.2.1.4.31.1.1.6)	read-only	Counter64	Standard values.	MIB Total octets of received IP packets in the system, including error packets. This object counts the same octets as ipSystemStatsInOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsInHdrErrors (1.3.6.1.2.1.4.31.1.1.7)	read-only	Counter32	Standard values.	MIB Number of received IP packets that were dropped because of IP header errors, including version number mismatch, other format errors, hop count exceeded, and IP option processing errors. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipSystemStatsInNoRoutes (1.3.6.1.2.1.4.31.1.1.8)	read-only	Counter32	Standard values. MIB	Number of received IP packets that were dropped because of no route to the destination can be found. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsInAddrErrors (1.3.6.1.2.1.4.31.1.1.9)	read-only	Counter32	Standard values. MIB	Number of received IP packets that were dropped because of an invalid destination address in the IP header, for example, address 0.0.0.0. For a non-IP gateway entity, it drops packets destined to any other devices because such entities cannot forward traffic. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsInUnknownProtos (1.3.6.1.2.1.4.31.1.1.10)	read-only	Counter32	Standard values. MIB	Number of received locally-addressed packets that were dropped because of an unknown or unsupported protocol. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsInTruncatedPkts (1.3.6.1.2.1.4.31.1.1.11)	read-only	Counter32	Standard values. MIB	Number of received IP packets that were dropped because	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>of an invalid data length.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	
ipSystemStatsInForwardDatagrams (1.3.6.1.2.1.4.31.1.12)	read-only	Counter32	Standard values.	MIB Number of forwarded packets. Forwarded packets are those that are not locally-addressed and require the system to find a route to forward them. For non-router devices, this counter counts only source-routed packets. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsHCInForwardDatagrams (1.3.6.1.2.1.4.31.1.13)	read-only	Counter64	Standard values.	MIB Number of forwarded packets. Forwarded packets are those that are not locally-addressed and require the system to find a route to forward them. This object counts the same packets as ipSystemStatsInForwardDatagrams, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsReasmReqds	read-only	Counter32	Standard	MIB Number of received	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.4.31.1.14)			values.	fragments that need to be reassembled. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsReasmOKs (1.3.6.1.2.1.4.31.1.15)	read-only	Counter32	Standard values. MIB	Number of packets successfully reassembled. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsReasmFails (1.3.6.1.2.1.4.31.1.16)	read-only	Counter32	Standard values. MIB	Number of packet reassembly failures detected by the IP reassembly algorithm because of reasons such as timeout or errors. The system does not calculate the number of dropped fragments because some algorithms do not record fragment quantity information. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.

Object (OID)	Access	Syntax	Value range		Description	Implementation
ipSystemStatsInDiscards (1.3.6.1.2.1.4.31.1.17)	read-only	Counter32	Standard values.	MIB	<p>Number of received packets that should be processed, but were dropped because of reasons such as insufficient buffer space.</p> <p>This value does not include packet fragments dropped because of reassembly timeout.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	As per the MIB.
ipSystemStatsInDelivers (1.3.6.1.2.1.4.31.1.18)	read-only	Counter32	Standard values.	MIB	<p>Number of received packets successfully delivered to IP user-protocols.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	As per the MIB.
ipSystemStatsHCInDelivers (1.3.6.1.2.1.4.31.1.19)	read-only	Counter64	Standard values.	MIB	<p>Number of received packets successfully delivered to IP user-protocols.</p> <p>This object counts the same packets as ipSystemStatsInDelivers, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	Not supported
ipSystemStatsOutRequests (1.3.6.1.2.1.4.31.1.20)	read-only	Counter32	Standard values.	MIB	<p>Number of packets that local IP user-protocols (including ICMP) supplied to IP in requests for transmission.</p>	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>This counter does not include any packets counted in ipSystemStatsOutForwDatagrams.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	
ipSystemStatsHCOutRequests (1.3.6.1.2.1.4.31.1.1.21)	read-only	Counter64	Standard values.	MIB <p>Number of packets that local IP user-protocols (including ICMP) supplied to IP in requests for transmission.</p> <p>This object counts the same packets as ipSystemStatsOutRequests, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	Not supported
ipSystemStatsOutNoRoutes (1.3.6.1.2.1.4.31.1.1.22)	read-only	Counter32	Standard values.	MIB <p>Number of IP packets dropped because no route to the destination can be found.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	As per the MIB.
ipSystemStatsOutForwDatagrams (1.3.6.1.2.1.4.31.1.1.23)	read-only	Counter32	Standard values.	MIB <p>Number of packets forwarded successfully.</p> <p>For non-router devices, this counter counts only source-routed packets.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDis</p>	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				continuityTime object.	
ipSystemStatsHCOutForwDatagrams (1.3.6.1.2.1.4.31.1.1.24)	read-only	Counter64	Standard values. MIB	Number of packets forwarded successfully. This object counts the same packets as ipSystemStatsOutForwDatagrams, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsOutDiscards (1.3.6.1.2.1.4.31.1.1.25)	read-only	Counter32	Standard values. MIB	Number of outgoing packets that should be processed, but were dropped because of reasons such as insufficient buffer space. This value might be included in the counting of ipSystemStatsOutForwDatagrams. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsOutFragReqds (1.3.6.1.2.1.4.31.1.1.26)	read-only	Counter32	Standard values. MIB	Number of IP packets that require fragmentation for forwarding. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsOutFragOKs (1.3.6.1.2.1.4.31.1.1.27)	read-only	Counter32	Standard values. MIB	Number of IP packets that were fragmented successfully. The statistics collection starts at	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsOutFragFails (1.3.6.1.2.1.4.31.1.1.28)	read-only	Counter32	Standard values.	MIB Number of IP packets that need fragmentation but were dropped because of fragmentation failures, including IPv4 packets with the DF flag set and IPv6 packets whose length exceeds the MTU size. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsOutFragCreates (1.3.6.1.2.1.4.31.1.1.29)	read-only	Counter32	Standard values.	MIB Number of packets created because of IP packet fragmentation. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsOutTransmits (1.3.6.1.2.1.4.31.1.1.30)	read-only	Counter32	Standard values.	MIB Number of IP packets supplied to the lower layers for transmission, including both locally generated packets and forwarded packets. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	As per the MIB.
ipSystemStatsHCOutTransmits (1.3.6.1.2.1.4.31.1.1.31)	read-only	Counter64	Standard values.	MIB Number of IP packets supplied to the lower layers	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.31)				<p>for transmission, including both locally generated packets and forwarded packets.</p> <p>This object counts the same packets as ipSystemStatsOutTransmits, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	
ipSystemStatsOutOctets (1.3.6.1.2.1.4.31.1.1.32)	read-only	Counter32	Standard values. MIB	<p>Total octets of IP packets supplied to the lower layers for transmission, including packets counted in ipSystemStatsOutTransmits.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	As per the MIB.
ipSystemStatsHCOutOctets (1.3.6.1.2.1.4.31.1.1.33)	read-only	Counter64	Standard values. MIB	<p>Total octets of IP packets supplied to the lower layers for transmission.</p> <p>This object counts the same octets as ipSystemStatsOutOctets, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.</p>	As per the MIB.
ipSystemStatsInMcastPkts (1.3.6.1.2.1.4.31.1.1.34)	read-only	Counter32	Standard values. MIB	<p>Number of received IP multicast packets.</p> <p>The statistics collection starts at system startup or at the time</p>	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsHCInMcastPkts (1.3.6.1.2.1.4.31.1.1.35)	read-only	Counter64	Standard values.	MIB Number of received IP multicast packets. This object counts the same packets as ipSystemStatsInMcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsInMcastOctets (1.3.6.1.2.1.4.31.1.1.36)	read-only	Counter32	Standard values.	MIB Total octets of received IP multicast packets, including packets counted in ipSystemStatsInMcastPkts. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsHCInMcastOctets (1.3.6.1.2.1.4.31.1.1.37)	read-only	Counter64	Standard values.	MIB Total octets of received IP multicast packets. This object counts the same octets as ipSystemStatsInMcastOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsOutMcastPkts (1.3.6.1.2.1.4.31.1.1.38)	read-only	Counter32	Standard values.	MIB Number of sent IP multicast packets. The statistics collection starts at system startup or at the time	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsHCOutMcastPkts (1.3.6.1.2.1.4.31.1.1.39)	read-only	Counter64	Standard values.	MIB Number of sent IP multicast packets. This object counts the same packets as ipSystemStatsOutMcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsOutMcastOctets (1.3.6.1.2.1.4.31.1.1.40)	read-only	Counter32	Standard values.	MIB Total octets of sent IP multicast packets, including packets counted in ipSystemStatsOutMcastPkts. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsHCOutMcastOctets (1.3.6.1.2.1.4.31.1.1.41)	read-only	Counter64	Standard values.	MIB Total octets of sent IP multicast packets. This object counts the same octets as ipSystemStatsOutMcastOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsInBroadcastPkts (1.3.6.1.2.1.4.31.1.1.42)	read-only	Counter32	Standard values.	MIB Number of received IP broadcast packets. The statistics collection starts at system startup or at the time	Not supported

Object (OID)	Access	Syntax	Value range		Description	Implementation
					indicated by the ipSystemStatsDiscontinuityTime object.	
ipSystemStatsHCInBcastPkts (1.3.6.1.2.1.4.31.1.1.43)	read-only	Counter64	Standard values.	MIB	Number of received IP broadcast packets. This object counts the same packets as ipSystemStatsInBcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsOutBcastPkts (1.3.6.1.2.1.4.31.1.1.44)	read-only	Counter32	Standard values.	MIB	Number of sent IP broadcast packets. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsHCOutBcastPkts (1.3.6.1.2.1.4.31.1.1.45)	read-only	Counter64	Standard values.	MIB	Number of sent IP broadcast packets. This object counts the same packets as ipSystemStatsOutBcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipSystemStatsDiscontinuityTime object.	Not supported
ipSystemStatsDiscontinuityTime (1.3.6.1.2.1.4.31.1.1.46)	read-only	TimeStamp	Standard values.	MIB	The most recent time at which any count in the table was interrupted (sysUpTime). If no count interrupt has occurred since the last system	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				restart, the value of this object is 0.	
ipSystemStatsRefreshRate (1.3.6.1.2.1.4.31.1.1.47)	read-only	Unsigned32	Standard values. MIB	Minimum reasonable polling interval for this table. This object provides an indication of the minimum amount of time required to update the counters in this table.	Not supported

ipIfStatsTable

About this table

This table contains IP traffic statistics about each interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipIfStatsIPVersion and ipIfStatsIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipIfStatsIPVersion (1.3.6.1.2.1.4.31.3.1.1)	not-accessible	InetVersion	Standard values. MIB	IP version of the current entry.	Supports only ipv4(1) and ipv6(2).
ipIfStatsIfIndex (1.3.6.1.2.1.4.31.3.1.2)	not-accessible	InterfaceIndex	Standard values. MIB	Index of the interface corresponding to the entry.	As per the MIB.
ipIfStatsInReceives (1.3.6.1.2.1.4.31.3.1.3)	read-only	Counter32	Standard values. MIB	Number of received IP packets, including error packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB.
ipIfStatsHCInReceives (1.3.6.1.2.1.4.31.3.1.4)	read-only	Counter64	Standard values. MIB	Number of received IP packets, including error packets. This object counts the same packets	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				as ipIfStatsInReceives, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	
ipIfStatsInOctets (1.3.6.1.2.1.4.31.3.1.5)	read-only	Counter32	Standard values.	MIB Total octets of received IP packets, including error packets. Octets of packets counted in ipIfStatsInReceives must be counted here. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB.
ipIfStatsHCInOctets (1.3.6.1.2.1.4.31.3.1.6)	read-only	Counter64	Standard values.	MIB Total octets of received IP packets, including error packets. This objects counts the same octets as ipIfStatsInOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipIfStatsInHdrErrors (1.3.6.1.2.1.4.31.3.1.7)	read-only	Counter32	Standard values.	MIB Number of received IP packets that were dropped because of IP header errors, including version number mismatch, other format errors, hop count exceeded, and IP option processing errors. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsInNoRoutes (1.3.6.1.2.1.4.31.3.1.8)	read-only	Counter32	Standard values.	MIB Number of received IP packets that were dropped because of no route to the destination can be found. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsInAddrErrors (1.3.6.1.2.1.4.31.3.1.9)	read-only	Counter32	Standard values.	MIB Number of received IP packets that were dropped because of an invalid destination address in the IP header, for example, address 0.0.0.0. For a non-IP gateway entity, it drops packets destined to any other devices because such entities cannot forward traffic. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsInUnknownProtos	read-only	Counter32	Standard	MIB Number of received packets	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.4.31.3.1.10)			values.	destined to the local IP address but dropped because of unsupported protocol or unknown reasons. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Supports only ipv6(2).
ipIfStatsInTruncatedPkts (1.3.6.1.2.1.4.31.3.1.11)	read-only	Counter32	Standard values. MIB	Number of received IP packets that were dropped because of an invalid data length. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsInForwardDatagrams (1.3.6.1.2.1.4.31.3.1.12)	read-only	Counter32	Standard values. MIB	Number of forwarded packets. Forwarded packets are those that are not locally-addressed and require the system to find a route to forward them. For non-router devices, this counter counts only source-routed packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsHCInForwardDatagrams (1.3.6.1.2.1.4.31.3.1.13)	read-only	Counter64	Standard values. MIB	Number of forwarded packets. Forwarded packets are those that are not locally-addressed and require the system to find a route to forward them. This object counts	As per the MIB. Supports only ipv6(2).

Object (OID)	Access	Syntax	Value range	Description	Implementation
				the same packets as ipLfStatsInForwDatagrams, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.	
ipLfStatsReasmReqs (1.3.6.1.2.1.4.31.3.1.14)	read-only	Counter32	Standard values.	MIB Number of received fragments that need to be reassembled. The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipLfStatsReasmOKs (1.3.6.1.2.1.4.31.3.1.15)	read-only	Counter32	Standard values.	MIB Number of packets successfully reassembled. The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipLfStatsReasmFails (1.3.6.1.2.1.4.31.3.1.16)	read-only	Counter32	Standard values.	MIB Number of packet reassembly failures detected by the IP reassembly algorithm because of reasons such as timeout and errors. The system does not calculate the number of dropped fragments because some algorithms do not record fragment quantity information. The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipIfStatsInDiscards (1.3.6.1.2.1.4.31.3.1.17)	read-only	Counter32	Standard values.	MIB Number of received packets that should be processed, but were dropped because of reasons such as insufficient buffer space. This value does not include packet fragments dropped because of reassembly timeout. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsInDelivers (1.3.6.1.2.1.4.31.3.1.18)	read-only	Counter32	Standard values.	MIB Number of received packets successfully delivered to IP user-protocols. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsHCInDelivers (1.3.6.1.2.1.4.31.3.1.19)	read-only	Counter64	Standard values.	MIB Number of received packets successfully delivered to IP user-protocols. This object counts the same packets as ipIfStatsInDelivers, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsOutRequests (1.3.6.1.2.1.4.31.3.1.20)	read-only	Counter32	Standard values.	MIB Number of packets that local IP user-protocols (including ICMP) supplied to IP in requests for transmission. This counter does not include any packets counted in	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>ipIfStatsOutForwDatagrams.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	
<p>ipIfStatsHCOutRequests (1.3.6.1.2.1.4.31.3.1.21)</p>	read-only	Counter64	Standard values. MIB	<p>Number of packets that local IP user-protocols (including ICMP) supplied to IP in requests for transmission.</p> <p>This object counts the same packets as ipIfStatsOutRequests, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB.
<p>ipIfStatsOutForwDatagrams (1.3.6.1.2.1.4.31.3.1.23)</p>	read-only	Counter32	Standard values. MIB	<p>Number of packets forwarded successfully.</p> <p>For non-router devices, this counter counts only source-routed packets.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB.
<p>ipIfStatsHCOutForwDatagrams (1.3.6.1.2.1.4.31.3.1.24)</p>	read-only	Counter64	Standard values. MIB	<p>Number of packets forwarded successfully.</p> <p>This object counts the same packets as ipIfStatsOutForwDatagrams, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipLfStatsOutDiscards (1.3.6.1.2.1.4.31.3.1.25)	read-only	Counter32	Standard values. MIB	<p>Number of outgoing packets that should be processed, but were dropped because of reasons such as insufficient buffer space.</p> <p>This value might be included in the counting of ipLfStatsOutForwDatagrams.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.</p>	As per the MIB. Supports only ipv6(2).
ipLfStatsOutFragReqds (1.3.6.1.2.1.4.31.3.1.26)	read-only	Counter32	Standard values. MIB	<p>Number of IP packets that require fragmentation for forwarding.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.</p>	As per the MIB. Supports only ipv6(2).
ipLfStatsOutFragOKs (1.3.6.1.2.1.4.31.3.1.27)	read-only	Counter32	Standard values. MIB	<p>Number of IP packets that were fragmented successfully.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipLfStatsDiscontinuityTime object.</p>	As per the MIB. Supports only ipv6(2).

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipIfStatsOutFragFails (1.3.6.1.2.1.4.31.3.1.28)	read-only	Counter32	Standard values.	MIB Number of IP packets that need fragmentation but were dropped because of fragmentation failures, including IPv4 packets with the DF flag set and IPv6 packets whose length exceeds the MTU size. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsOutFragCreates (1.3.6.1.2.1.4.31.3.1.29)	read-only	Counter32	Standard values.	MIB Number of packets created because of IP packet fragmentation. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsOutTransmits (1.3.6.1.2.1.4.31.3.1.30)	read-only	Counter32	Standard values.	MIB Number of IP packets supplied to the lower layers for transmission, including both locally generated packets and forwarded packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB.
ipIfStatsHCOutTransmits (1.3.6.1.2.1.4.31.3.1.31)	read-only	Counter64	Standard values.	MIB Number of IP packets supplied to the lower layers for transmission, including both locally generated packets and forwarded packets. This object counts the same packets as	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>ipIfStatsOutTransmits, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	
<p>ipIfStatsOutOctets (1.3.6.1.2.1.4.31.3.1.32)</p>	read-only	Counter32	Standard values.	<p>MIB</p> <p>Total octets of IP packets supplied to the lower layers for transmission, including packets counted in ipIfStatsOutTransmits.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB.
<p>ipIfStatsHCOctets (1.3.6.1.2.1.4.31.3.1.33)</p>	read-only	Counter64	Standard values.	<p>MIB</p> <p>Total octets of IP packets supplied to the lower layers for transmission, including packets counted in ipIfStatsOutTransmits.</p> <p>This object counts the same octets as ipIfStatsOutOctets, but allows for larger values.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB.
<p>ipIfStatsInMcastPkts (1.3.6.1.2.1.4.31.3.1.34)</p>	read-only	Counter32	Standard values.	<p>MIB</p> <p>Number of received IP multicast packets.</p> <p>The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.</p>	As per the MIB. Supports only ipv6(2).
<p>ipIfStatsHCInMcastPkts (1.3.6.1.2.1.4.31.3.1.35)</p>	read-only	Counter64	Standard values.	<p>MIB</p> <p>Number of received IP multicast packets.</p> <p>This object counts the same packets</p>	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				as ipIfStatsInMcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	
ipIfStatsInMcastOctets (1.3.6.1.2.1.4.31.3.1.36)	read-only	Counter32	Standard values.	MIB Total octets of received IP multicast packets, including packets counted in ipIfStatsInMcastPkts. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsHCInMcastOctets (1.3.6.1.2.1.4.31.3.1.37)	read-only	Counter64	Standard values.	MIB Total octets of received IP multicast packets, including packets counted in ipIfStatsInMcastPkts. This object counts the same octets as ipIfStatsInMcastOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsOutMcastPkts (1.3.6.1.2.1.4.31.3.1.38)	read-only	Counter32	Standard values.	MIB Number of sent IP multicast packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	As per the MIB. Supports only ipv6(2).
ipIfStatsHCOutMcastPkts (1.3.6.1.2.1.4.31.3.1.39)	read-only	Counter64	Standard values.	MIB Number of sent IP multicast packets. This object counts the same packets as ipIfStatsOutMcastPkts, but allows for	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	
ipIfStatsOutMcastOctets (1.3.6.1.2.1.4.31.3.1.40)	read-only	Counter32	Standard values. MIB	Total octets of sent IP multicast packets, including packets counted in ipIfStatsOutMcastPkts. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsHCOutMcastOctets (1.3.6.1.2.1.4.31.3.1.41)	read-only	Counter64	Standard values. MIB	Total octets of received IP multicast packets. This object counts the same octets as ipIfStatsOutMcastOctets, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsInBcastPkts (1.3.6.1.2.1.4.31.3.1.42)	read-only	Counter32	Standard values. MIB	Number of received IP multicast packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsHCInBcastPkts (1.3.6.1.2.1.4.31.3.1.43)	read-only	Counter64	Standard values. MIB	Number of received IP multicast packets. This object counts the same packets as ipIfStatsInBcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time	Not supported

Object (OID)	Access	Syntax	Value range		Description	Implementation
					indicated by the ipIfStatsDiscontinuityTime object.	
ipIfStatsOutBcastPkts (1.3.6.1.2.1.4.31.3.1.44)	read-only	Counter32	Standard values.	MIB	Number of sent IP multicast packets. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsHCOutBcastPkts (1.3.6.1.2.1.4.31.3.1.45)	read-only	Counter64	Standard values.	MIB	Number of sent IP multicast packets. This object counts the same packets as ipIfStatsOutBcastPkts, but allows for larger values. The statistics collection starts at system startup or at the time indicated by the ipIfStatsDiscontinuityTime object.	Not supported
ipIfStatsDiscontinuityTime (1.3.6.1.2.1.4.31.3.1.46)	read-only	TimeStamp	Standard values.	MIB	The most recent time at which any count in the table was interrupted (sysUpTime). If no count interrupt has occurred since the last system restart, the value of this object is 0.	Not supported
ipIfStatsRefreshRate (1.3.6.1.2.1.4.31.3.1.47)	read-only	Unsigned32	Standard values.	MIB	Minimum reasonable polling interval for this table. This object provides an indication of the minimum amount of time required to update the counters in this table.	Not supported

ipAddressPrefixTable

About this table

This table contains information about IP address prefixes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipAddressPrefixIfIndex, ipAddressPrefixType, ipAddressPrefixPrefix, and ipAddressPrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipAddressPrefixIfIndex (1.3.6.1.2.1.4.32.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Index of the interface corresponding to the entry.	As per the MIB.
ipAddressPrefixType (1.3.6.1.2.1.4.32.1.2)	not-accessible	InetAddressType	Standard MIB values.	Address type of ipAddressPrefix.	Supports only ipv6(2) and ipv6z(4).
ipAddressPrefixPrefix (1.3.6.1.2.1.4.32.1.3)	not-accessible	InetAddress	Standard MIB values.	Address prefix. The address type is specified in ipAddressPrefixType. The address length is the standard length for objects of that type (4 or 16 bytes). If the prefix length exceeds 114 octets, then OIDs of the instances will have more than 128 sub-identifiers and cannot be accessed by using SNMPv1, SNMPv2c, or SNMPv3.	As per the MIB.
ipAddressPrefixLength (1.3.6.1.2.1.4.32.1.4)	not-accessible	InetAddressPrefixLength	Standard MIB values.	Prefix length. The value 0 refers to address ::/0.	As per the MIB.
ipAddressPrefixOrigin (1.3.6.1.2.1.4.32.1.5)	read-only	IpAddressPrefixOriginType	Other(1) Manual(2) Wellknown(3) Dhcp(4) Routerready(5)	Prefix origin.	As per the MIB.
ipAddressPrefixOnLinkFlag (1.3.6.1.2.1.4.32.1.6)	read-only	TruthValue	true(1), false(2)	Whether this prefix can be used for on-link determination. The value true(1) indicates yes and the value false(2) indicates no. For IPv4 prefixes, the default value is true(1).	As per the MIB.
ipAddressPrefixAutonomousFlag (1.3.6.1.2.1.4.32.1.7)	read-only	TruthValue	true(1), false(2)	Whether this prefix can be used for autonomous address configuration. The value true(1)	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				indicates yes and the value false(2) indicates no. For IPv4 prefixes, the default value is false(2).	
ipAddressPrefixAdvPreferredLifetime (1.3.6.1.2.1.4.32.1.8)	read-only	Unsigned32	Standard MIB values.	Remaining lifetime of the prefix in seconds. A value of 4,294,967,295 represents infinity. After the lifetime expires, the prefix will be deprecated. Addresses generated by using a deprecated prefix cannot be used as the source addresses in new communications, but packets received on such an interface are processed as expected. For IPv4 prefixes, the default lifetime is 4,294,967,295 (infinity).	As per the MIB.
ipAddressPrefixAdvValidLifetime (1.3.6.1.2.1.4.32.1.9)	read-only	Unsigned32	Standard MIB values.	Remaining validity period of the prefix in seconds. A value of 4,294,967,295 represents infinity. Addresses generated by using an invalid prefix cannot be used as source or destination addresses of packets. For IPv4 prefixes, the default validity period is 4,294,967,295 (infinity).	As per the MIB.

ipAddressTable

About this table

This table contains IP address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipAddressAddrType and ipAddressAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipAddressAddrType (1.3.6.1.2.1.4.34.1)	not-accessible	InetAddressType	Standard MIB values.	Address type of ipAddressAddr.	Supports only ipv6(2) and ipv6z(4).

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1)					
ipAddressAddr (1.3.6.1.2.1.4.34.1 .2)	not-accessible	InetAddress	Standard values. MIB	IP address. The address type is specified in ipAddressAddrType. If the address length exceeds 116 octets, then OIDs of the instances will have more than 128 sub-identifiers and cannot be accessed by using SNMPv1, SNMPv2c, or SNMPv3.	As per the MIB.
ipAddressIfIndex (1.3.6.1.2.1.4.34.1 .3)	read-create	InterfaceIndex	Standard values. MIB	Index of the interface corresponding to the address.	Supports only the read operation.
ipAddressType (1.3.6.1.2.1.4.34.1 .4)	read-create	INTEGER	unicast(1), anycast(2), broadcast(3)	Address type. For IPv6 addresses, broadcast(3) is not a valid value.	Supports only the read operation.
ipAddressPrefix (1.3.6.1.2.1.4.34.1 .5)	read-only	RowPointer	Standard values. MIB	A pointer to the row in the prefix table to which this address belongs. If the row does not exist, this object is { 0 0 }.	As per the MIB.
ipAddressOrigin (1.3.6.1.2.1.4.34.1 .6)	read-only	IpAddressOriginTC	Standard values. MIB	IP address origin.	As per the MIB.
ipAddressStatus (1.3.6.1.2.1.4.34.1 .7)	read-create	IpAddressStatusTC	Standard values. MIB	Address status, indicating whether the address can be used for communication. In the absence of other information, an IPv4 address is always preferred(1).	Supports only the read operation.
ipAddressCreated (1.3.6.1.2.1.4.34.1 .8)	read-only	TimeStamp	Standard values. MIB	Time at which the entry was created (sysUpTime). If the entry was created before the most recent system startup, this value is 0.	As per the MIB.
ipAddressLastChanged (1.3.6.1.2.1.4.34.1 .9)	read-only	TimeStamp	Standard values. MIB	Time at which the entry was last updated	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.9)				(sysUpTime). If the last update occurred before the most recent system startup, this value is 0.	
ipAddressRowStatus (1.3.6.1.2.1.4.34.1.10)	read-create	RowStatus	Standard values. MIB	Status of the entry.	Supports only the read operation. Supports only active(1).
ipAddressStorageType (1.3.6.1.2.1.4.34.1.11)	read-only	StorageType	Standard values. MIB	Storage type of the entry.	The value is fixed to volatile(2).

ipNetToPhysicalTable

About this table

This table contains IP address-to-physical address mappings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipNetToPhysicalIfIndex, ipNetToPhysicalNetAddressType, and ipNetToPhysicalNetAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipNetToPhysicalIfIndex (1.3.6.1.2.1.4.35.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Index of the interface corresponding to the entry.	As per the MIB.
ipNetToPhysicalNetAddressType (1.3.6.1.2.1.4.35.1.2)	not-accessible	InetAddressType	Standard MIB values.	Address type of ipNetToPhysicalNetAddress.	Supports only ipv6(2) and ipv6z(4).
ipNetToPhysicalNetAddress (1.3.6.1.2.1.4.35.1.3)	not-accessible	InetAddress	Standard MIB values.	IP address. The address type is specified in ipNetToPhysicalAddressType.	As per the MIB.
ipNetToPhysicalPhysicalAddress (1.3.6.1.2.1.4.35.1.4)	read-create	PhysAddress	SIZE(0..65535)	Physical address.	Supports only the read operation.
ipNetToPhysicalLastUpdated (1.3.6.1.2.1.4.35.1.5)	read-only	TimeStamp	Standard MIB values.	Time at which the entry was last updated (sysUpTime). If the last update	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				occurred before the most recent system startup, this value is 0.	
ipNetToPhysicalType (1.3.6.1.2.1.4.35.1.6)	read-create	INTEGER	other(1), invalid(2), dynamic(3), static(4), local(5)	Address mapping type.	Supports only the read operation.
ipNetToPhysicalState (1.3.6.1.2.1.4.35.1.7)	read-only	INTEGER	reachable(1), stale(2), delay(3), probe(4), invalid(5), unknown(6), incomplete(7)	Neighbor unreachability detection state. If neighbor unreachability detection is not performed, the value is unknown(6).	As per the MIB.
ipNetToPhysicalRowStatus (1.3.6.1.2.1.4.35.1.8)	read-create	RowStatus	Standard MIB values.	Status of the entry.	Supports only the read operation.

ipDefaultRouterTable

About this table

This table contains information about the default routers.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipDefaultRouterAddressType, ipDefaultRouterAddress, and ipDefaultRouterIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipDefaultRouterAddressType (1.3.6.1.2.1.4.37.1.1)	not-accessible	InetAddressType	Standard MIB values.	Address type of the entry.	Supports only ipv6(2) and ipv6z(4).
ipDefaultRouterAddress (1.3.6.1.2.1.4.37.1.2)	not-accessible	InetAddress	Standard MIB values.	IP address. The address type is specified in ipDefaultRouterAddressType. If the address length exceeds 115 octets, then OIDs of the instances will have more than 128	As per the MIB.

				sub-identifiers and cannot be accessed by using SNMPv1, SNMPv2c, or SNMPv3.	
ipDefaultRouterIfIndex (1.3.6.1.2.1.4.37.1.3)	not-accessible	InterfaceIndex	Standard MIB values.	Index of the interface corresponding to the entry.	As per the MIB.
ipDefaultRouterLifetime (1.3.6.1.2.1.4.37.1.4)	read-only	Unsigned32	Unsigned32 (0..65535)	Remaining time that the router can be used as a default router, in seconds. A value of 0 indicates that the router is no longer used as a default router.	As per the MIB.
ipDefaultRouterPreference (1.3.6.1.2.1.4.37.1.5)	read-only	INTEGER	reserved (-2), low (-1), medium (0), high (1)	Priority of the default router. The priority value is a 2-bit signed integer that allows for simple arithmetic comparisons.	As per the MIB.

ipv6RouterAdvertTable

About this table

This table contains information used to construct router advertisements.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipv6RouterAdvertIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6RouterAdvertIfIndex (1.3.6.1.2.1.4.39.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Index of the interface corresponding to the entry.	As per the MIB.
ipv6RouterAdvertSendAdverts (1.3.6.1.2.1.4.39.1.2)	read-create	TruthValue	Standard MIB values.	A flag indicating whether the router sends periodic router advertisements and responds to router solicitations.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6RouterAdvert MaxInterval (1.3.6.1.2.1.4.39.1.3)	read-create	Unsigned32	Unsigned32 (4..1800)	Maximum interval at which unsolicited router advertisements are sent, in seconds.	Supports only the read operation.
ipv6RouterAdvert MinInterval (1.3.6.1.2.1.4.39.1.4)	read-create	Unsigned32	Unsigned32 (3..1350)	Minimum interval at which unsolicited router advertisements are sent, in seconds.	Supports only the read operation.
ipv6RouterAdvert ManagedFlag (1.3.6.1.2.1.4.39.1.5)	read-create	TruthValue	Standard values. MIB	Value to be placed into the 'managed address configuration' flag field in router advertisements to send.	Supports only the read operation.
ipv6RouterAdvert OtherConfigFlag (1.3.6.1.2.1.4.39.1.6)	read-create	TruthValue	Standard values. MIB	Value to be placed into the 'other stateful configuration' flag field in router advertisements to send.	Supports only the read operation.
ipv6RouterAdvert LinkMTU (1.3.6.1.2.1.4.39.1.7)	read-create	Unsigned32	Standard values. MIB	Value to be placed in MTU options to send. A value of zero indicates that no MTU options are sent.	Supports only the read operation.
ipv6RouterAdvert ReachableTime (1.3.6.1.2.1.4.39.1.8)	read-create	Unsigned32	Unsigned32 (0..3600000)	Value to be placed in the reachable time field in router advertisement messages to send. A value of zero indicates that no reachable time is specified.	Supports only the read operation.
ipv6RouterAdvert RetransmitTime (1.3.6.1.2.1.4.39.1.9)	read-create	Unsigned32	Standard MIB values.	Value to be placed in the retransmit time field in router advertisements to send. A value of zero indicates that no retransmit time is specified.	Supports only the read operation.
ipv6RouterAdvert CurHopLimit (1.3.6.1.2.1.4.39.1.10)	read-create	Unsigned32	Unsigned32 (0..255)	Value to be placed in the current hop limit field in router advertisements to send. A value of zero indicates that the	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				hops are not limited.	
ipv6RouterAdvertDefaultLifetime (1.3.6.1.2.1.4.39.1.11)	read-create	Unsigned32	Unsigned32 (0 4..9000)	Value to be placed in the router lifetime field of router advertisements to send. A value of zero indicates that the router is no longer used as a default router. The default value is the ipv6RouterAdvertMaxInterval value multiplied by three.	Supports only the read operation.
ipv6RouterAdvertRowStatus (1.3.6.1.2.1.4.39.1.12)	read-create	RowStatus	Standard MIB values.	Status of the entry.	Supports only the read operation.

icmpStatsTable

About this table

This table contains system-level ICMP statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is icmpStatsIPVersion.

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpStatsIPVersion (1.3.6.1.2.1.5.29.1.1)	not-accessible	InetVersion	Standard values. MIB	IP version of the statistics.	Supports only ipv6(2).
icmpStatsInMsgs (1.3.6.1.2.1.5.29.1.2)	read-only	Counter32	Standard values. MIB	Number of received ICMP messages, including messages counted by icmpStatsInErrors.	As per the MIB.
icmpStatsInErrors (1.3.6.1.2.1.5.29.1.3)	read-only	Counter32	Standard values. MIB	Number of received ICMP error messages. Possible errors	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				include ICMP checksum error and length error.	
icmpStatsOutMsgs (1.3.6.1.2.1.5.29.1.4)	read-only	Counter32	Standard values. MIB	Number of sent ICMP messages, including messages counted by icmpStatsOutErrors.	As per the MIB.
icmpStatsOutErrors (1.3.6.1.2.1.5.29.1.5)	read-only	Counter32	Standard values. MIB	Number of ICMP messages failed to be sent because of reasons such as insufficient buffer space. Errors occurred outside the ICMP layer are not included. In some implementations, there may be no types of error which contribute to this counter's value.	The value is fixed to 0.

icmpMsgStatsTable

About this table

This table contains statistics about each IP version and each ICMP message type.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are icmpMsgStatsIPVersion and icmpMsgStatsType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
icmpMsgStatsIPVersion (1.3.6.1.2.1.5.30.1.1)	not-accessible	InetVersion	Standard MIB values.	IP version of the statistics.	Supports only ipv6(2).
icmpMsgStatsType (1.3.6.1.2.1.5.30.1.2)	not-accessible	Integer32	Integer32 (0..255)	ICMP message type.	As per the MIB.
icmpMsgStatsInPkts (1.3.6.1.2.1.5.30.1.3)	read-only	Counter32	Standard MIB values.	Number of received ICMP messages of the	As per the MIB.

.3)				type.	
icmpMsgStatsOut Pkts (1.3.6.1.2.1.5.30.1 .4)	read-only	Counter32	Standard MIB values.	Number of sent ICMP messages of the type.	As per the MIB.

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IPV6-ICMP-MIB

About this MIB

Use this MIB to manage ICMPv6.

MIB file name

rfc2466-ipv6-icmp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6IcmpMIB(56)

Tabular objects

ipv6IcmpTable

About this table

Use this table to obtain IPv6 ICMP statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IcmpInMsgs (1.3.6.1.2.1.56.1.1.1.1)	read-only	Counter32	Standard MIB values.	Total number of ICMP messages received by the interface, including those counted by ipv6IcmpInErrors.	As per the MIB.
ipv6IcmpInErrors (1.3.6.1.2.1.56.1.1.1.2)	read-only	Counter32	Standard MIB values.	Number of ICMP messages that the interface received and determined as having ICMP-specific errors.	As per the MIB.
ipv6IcmpInDestUnreaches (1.3.6.1.2.1.56.1.1.1.3)	read-only	Counter32	Standard MIB values.	Number of ICMP Destination Unreachable messages received by the interface.	As per the MIB.
ipv6IcmpInAdminProhibs	read-only	Counter32	Standard MIB	Number of ICMP destination	The value is fixed

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.56.1.1.1.4)			values.	unreachable/communication administratively prohibited messages received by the interface.	at 0.
ipv6IflcmplnTimeExcds (1.3.6.1.2.1.56.1.1.1.5)	read-only	Counter32	Standard MIB values.	Number of ICMP Time Exceeded messages received by the interface.	As per the MIB.
ipv6IflcmplnParmProblems (1.3.6.1.2.1.56.1.1.1.6)	read-only	Counter32	Standard MIB values.	Number of ICMP Parameter Problem messages received by the interface.	As per the MIB.
ipv6IflcmplnPktTooBigs (1.3.6.1.2.1.56.1.1.1.7)	read-only	Counter32	Standard MIB values.	Number of ICMP Packet Too Big messages received by the interface.	As per the MIB.
ipv6IflcmplnEchos (1.3.6.1.2.1.56.1.1.1.8)	read-only	Counter32	Standard MIB values.	Number of ICMP Echo (request) messages received by the interface.	As per the MIB.
ipv6IflcmplnEchoReplies (1.3.6.1.2.1.56.1.1.1.9)	read-only	Counter32	Standard MIB values.	Number of ICMP Echo Reply messages received by the interface.	As per the MIB.
ipv6IflcmplnRouterSolicits (1.3.6.1.2.1.56.1.1.1.10)	read-only	Counter32	Standard MIB values.	Number of ICMP Router Solicit messages received by the interface.	As per the MIB.
ipv6IflcmplnRouterAdvertisements (1.3.6.1.2.1.56.1.1.1.11)	read-only	Counter32	Standard MIB values.	Number of ICMP Router Advertisement messages received by the interface.	As per the MIB.
ipv6IflcmplnNeighborSolicits (1.3.6.1.2.1.56.1.1.1.12)	read-only	Counter32	Standard MIB values.	Number of ICMP Neighbor Solicit messages received by the interface.	As per the MIB.
ipv6IflcmplnNeighborAdvertisements (1.3.6.1.2.1.56.1.1.1.13)	read-only	Counter32	Standard MIB values.	Number of ICMP Neighbor Advertisement messages received by the interface.	As per the MIB.
ipv6IflcmplnRedirects (1.3.6.1.2.1.56.1.1.1.14)	read-only	Counter32	Standard MIB values.	Number of Redirect messages received by the interface.	As per the MIB.
ipv6IflcmplnGroupMembQueries (1.3.6.1.2.1.56.1.1.1.15)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Query messages received by the interface.	As per the MIB.
ipv6IflcmplnGroupMembResponses (1.3.6.1.2.1.56.1.1.1.16)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Response messages received	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				by the interface.	
ipv6IflcmpInGroupMembReductions (1.3.6.1.2.1.56.1.1.1.17)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Reduction messages received by the interface.	As per the MIB.
ipv6IflcmpOutMsgs (1.3.6.1.2.1.56.1.1.1.18)	read-only	Counter32	Standard MIB values.	Total number of ICMP messages that interface attempted to send.	As per the MIB.
ipv6IflcmpOutErrors (1.3.6.1.2.1.56.1.1.1.19)	read-only	Counter32	Standard MIB values.	Number of ICMP messages the interface did not send due to problems discovered within ICMP.	The value is fixed at 0.
ipv6IflcmpOutDestUnreaches (1.3.6.1.2.1.56.1.1.1.20)	read-only	Counter32	Standard MIB values.	Number of ICMP Destination Unreachable messages sent by the interface.	As per the MIB.
ipv6IflcmpOutAdminProhibs (1.3.6.1.2.1.56.1.1.1.21)	read-only	Counter32	Standard MIB values.	Number of ICMP destination unreachable/communication administratively prohibited messages sent by the interface.	The value is fixed at 0.
ipv6IflcmpOutTimeExcds (1.3.6.1.2.1.56.1.1.1.22)	read-only	Counter32	Standard MIB values.	Number of ICMP Time Exceeded messages sent by the interface.	As per the MIB.
ipv6IflcmpOutParmProblems (1.3.6.1.2.1.56.1.1.1.23)	read-only	Counter32	Standard MIB values.	Number of ICMP Parameter Problem messages sent by the interface.	As per the MIB.
ipv6IflcmpOutPktTooBigs (1.3.6.1.2.1.56.1.1.1.24)	read-only	Counter32	Standard MIB values.	Number of ICMP Packet Too Big messages sent by the interface.	As per the MIB.
ipv6IflcmpOutEchoes (1.3.6.1.2.1.56.1.1.1.25)	read-only	Counter32	Standard MIB values.	Number of ICMP Echo (request) messages sent by the interface.	As per the MIB.
ipv6IflcmpOutEchoReplies (1.3.6.1.2.1.56.1.1.1.26)	read-only	Counter32	Standard MIB values.	Number of ICMP Echo Reply messages sent by the interface.	As per the MIB.
ipv6IflcmpOutRouterSolicits (1.3.6.1.2.1.56.1.1.1.27)	read-only	Counter32	Standard MIB values.	Number of ICMP Router Solicitation messages sent by the interface.	As per the MIB.
ipv6IflcmpOutRouterAdvertisements (1.3.6.1.2.1.56.1.1.1.28)	read-only	Counter32	Standard MIB values.	Number of ICMP Router Advertisement messages sent by the interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.28)				messages sent by the interface.	
ipv6IflcmpOutNeighborSolicits (1.3.6.1.2.1.56.1.1.1.29)	read-only	Counter32	Standard MIB values.	Number of ICMP Neighbor Solicitation messages sent by the interface.	As per the MIB.
ipv6IflcmpOutNeighborAdvertisements (1.3.6.1.2.1.56.1.1.1.30)	read-only	Counter32	Standard MIB values.	Number of ICMP Neighbor Advertisement messages sent by the interface.	As per the MIB.
ipv6IflcmpOutRedirects (1.3.6.1.2.1.56.1.1.1.31)	read-only	Counter32	Standard MIB values.	Number of Redirect messages sent by the interface.	As per the MIB.
ipv6IflcmpOutGroupMembershipQueries (1.3.6.1.2.1.56.1.1.1.32)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Query messages sent by the interface.	As per the MIB.
ipv6IflcmpOutGroupMembershipResponses (1.3.6.1.2.1.56.1.1.1.33)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Response messages sent by the interface.	As per the MIB.
ipv6IflcmpOutGroupMembershipReductions (1.3.6.1.2.1.56.1.1.1.34)	read-only	Counter32	Standard MIB values.	Number of ICMPv6 Group Membership Reduction messages sent by the interface.	As per the MIB.

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IPV6-MIB

About this MIB

Use this MIB to implement IPv6.

MIB file name

rfc2465-ipv6.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55)

Scalar objects

ipv6Forwarding

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6Forwarding (1.3.6.1.2.1.55.1.1)	read-write	INTEGER	forwarding(1) notForwarding(2)	Whether this entity is acting as an IPv6 router for the forwarding of datagrams received by, but not addressed to, this entity.	Read only.

ipv6DefaultHopLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6DefaultHopLimit (1.3.6.1.2.1.55.1.2)	read-write	INTEGER	INTEGER (0..255)	Default value inserted into the Hop Limit field of the IPv6 header of datagrams originated at this entity.	Read only.

ipv6Interfaces

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6Interfaces (1.3.6.1.2.1.55.1.3)	read-only	Unsigned32	Standard MIB values.	Number of IPv6 interfaces.	As per the MIB.

ipv6IfTableLastChange

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IfTableLastChange (1.3.6.1.2.1.55.1.4)	read-only	TimeStamp	Standard MIB values.	Time when the last modification of the ipv6IfTable was made.	As per the MIB.

ipv6RouteNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6RouteNumber (1.3.6.1.2.1.55.1.9)	read-only	Gauge32	Standard MIB values.	Total number of IPv6 unicast routing entries used for packet forwarding to public network destinations.	As per the MIB.

ipv6DiscardedRoutes

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6DiscardedRoutes (1.3.6.1.2.1.55.1.10)	read-only	Counter32	Standard MIB values.	Number of discarded IPv6 routes.	As per the MIB.

Tabular objects

ipv6IfTable

About this table

Use this table to obtain IPv6 interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ipv6IfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IfIndex (1.3.6.1.2.1.55.1.5.1.1)	not-accessible	Ipv6IfIndex	(1..2147483647)	Interface index.	As per the MIB.
ipv6IfDescr (1.3.6.1.2.1.55.1.5.1.2)	read-write	DisplayString	(0..255)	Interface description.	Cannot exceed 255 characters.
ipv6IfLowerLayer (1.3.6.1.2.1.55.1.5.1.3)	read-only	VariablePointer	Standard MIB values.	Protocol layer over which the network interface operates.	Not supported
ipv6IfEffectiveMtu (1.3.6.1.2.1.55.1.5.1.4)	read-only	Unsigned32	Standard MIB values.	Interface MTU.	As per the MIB.
ipv6IfReasmMaxSize (1.3.6.1.2.1.55.1.5.1.5)	read-only	Unsigned32	Standard MIB values.	Size of the largest IPv6 datagram that this entity can re-assemble from incoming IPv6 fragmented datagrams received on the interface.	Not supported. The value is fixed at 65535.
ipv6IfIdentifier (1.3.6.1.2.1.55.1.5.1.6)	read-write	Ipv6AddressIfIdentifier	Standard MIB values.	Interface identifier.	Read only.
ipv6IfIdentifierLength (1.3.6.1.2.1.55.1.5.1.7)	read-write	INTEGER	INTEGER(0..64)	Length of the interface identifier.	Read only.
ipv6IfPhysicalAddress (1.3.6.1.2.1.55.1.5.1.8)	read-only	PhysAddress	Standard MIB values.	Physical address of the interface.	As per the MIB.
ipv6IfAdminStatus (1.3.6.1.2.1.55.1.5.1.9)	read-write	INTEGER	up(1) down(2)	Desired state of the interface.	Read only.
ipv6IfOperStatus (1.3.6.1.2.1.55.1.5.1.10)	read-only	INTEGER	up(1) down(2) noIdentifier(3) unknown(4) notPresent(5)	Operating state of the interface.	As per the MIB.
ipv6IfLastChange (1.3.6.1.2.1.55.1.5.1.11)	read-only	TimeStamp	Standard MIB values.	During since the interface has entered its current operating state.	As per the MIB.

ipv6IfStatsTable

About this table

Use this table to obtain the IPv6 interface forwarding statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ipv6IfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6IfStatsInReceives (1.3.6.1.2.1.55.1.6.1.1)	read-only	Counter32	Standard MIB values.	Total number of input datagrams received by the interface.	As per the MIB.
ipv6IfStatsInHdrErrors (1.3.6.1.2.1.55.1.6.1.2)	read-only	Counter32	Standard MIB values.	Number of input datagrams discarded due to errors in their IPv6 headers.	As per the MIB.
ipv6IfStatsInTooBigErrors (1.3.6.1.2.1.55.1.6.1.3)	read-only	Counter32	Standard MIB values.	Number of input datagrams that cannot be forwarded because their size exceeds the link MTU of the outgoing interface.	As per the MIB.
ipv6IfStatsInNoRoutes (1.3.6.1.2.1.55.1.6.1.4)	read-only	Counter32	Standard MIB values.	Number of input datagrams discarded because no route can be found to transmit them to their destinations.	As per the MIB.
ipv6IfStatsInAddrErrors (1.3.6.1.2.1.55.1.6.1.5)	read-only	Counter32	Standard MIB values.	Number of input datagrams discarded because the IPv6 address in their IPv6 header's destination field was not a valid address.	As per the MIB.
ipv6IfStatsInUnknownProts (1.3.6.1.2.1.55.1.6.1.6)	read-only	Counter32	Standard MIB values.	Number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				protocol.	
ipv6IfStatsInTruncatedPkts (1.3.6.1.2.1.55.1.6.1.7)	read-only	Counter32	Standard MIB values.	Number of input datagrams discarded because datagram frame did not carry enough data.	As per the MIB.
ipv6IfStatsInDiscards (1.3.6.1.2.1.55.1.6.1.8)	read-only	Counter32	Standard MIB values.	Number of input IPv6 datagrams discarded due to unknown errors.	As per the MIB.
ipv6IfStatsInDelivers (1.3.6.1.2.1.55.1.6.1.9)	read-only	Counter32	Standard MIB values.	Total number of datagrams successfully delivered.	As per the MIB.
ipv6IfStatsOutForwardDatagrams (1.3.6.1.2.1.55.1.6.1.10)	read-only	Counter32	Standard MIB values.	Number of output datagrams this entity received and forwarded to their final destinations.	As per the MIB.
ipv6IfStatsOutRequests (1.3.6.1.2.1.55.1.6.1.11)	read-only	Counter32	Standard MIB values.	Total number of IPv6 datagrams that local protocols supplied to IPv6 in requests for transmission.	As per the MIB.
ipv6IfStatsOutDiscards (1.3.6.1.2.1.55.1.6.1.12)	read-only	Counter32	Standard MIB values.	Number of output IPv6 datagrams discarded due to unknown errors.	As per the MIB.
ipv6IfStatsOutFragmentOKs (1.3.6.1.2.1.55.1.6.1.13)	read-only	Counter32	Standard MIB values.	Number of IPv6 datagrams that have been successfully fragmented at the interface.	As per the MIB.
ipv6IfStatsOutFragmentFails (1.3.6.1.2.1.55.1.6.1.14)	read-only	Counter32	Standard MIB values.	Number of IPv6 datagrams that have been discarded because they failed to be fragmented as required at the interface.	As per the MIB.
ipv6IfStatsOutFragmentCreates (1.3.6.1.2.1.55.1.6.1.15)	read-only	Counter32	Standard MIB values.	Number of output datagram fragments that have been generated as a result of fragmentation at the interface.	As per the MIB.
ipv6IfStatsReasmReqds (1.3.6.1.2.1.55.1.6.1.16)	read-only	Counter32	Standard MIB values.	Number of received IPv6 fragments which that needed to be reassembled at	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				the interface.	
ipv6IfStatsReasmOKs (1.3.6.1.2.1.55.1.6.1.17)	read-only	Counter32	Standard MIB values.	Number of IPv6 datagrams successfully reassembled.	As per the MIB.
ipv6IfStatsReasmFails (1.3.6.1.2.1.55.1.6.1.18)	read-only	Counter32	Standard MIB values.	Number of failures detected by IPv6 re-assembly.	As per the MIB.
ipv6IfStatsInMcastPkts (1.3.6.1.2.1.55.1.6.1.19)	read-only	Counter32	Standard MIB values.	Number of multicast packets received by the interface.	As per the MIB.
ipv6IfStatsOutMcastPkts (1.3.6.1.2.1.55.1.6.1.20)	read-only	Counter32	Standard MIB values.	Number of multicast packets transmitted by the interface.	As per the MIB.

ipv6AddrPrefixTable

About this table

Use this table to obtain the IPv6 address prefix information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipv6IfIndex, ipv6AddrPrefix, and ipv6AddrPrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6AddrPrefix (1.3.6.1.2.1.55.1.7.1.1)	not-accessible	Ipv6AddressPrefix	(0..255)	IPv6 address prefix associated with the interface.	As per the MIB.
ipv6AddrPrefixLength (1.3.6.1.2.1.55.1.7.1.2)	not-accessible	INTEGER	INTEGER (0..128)	Length of the prefix.	As per the MIB.
ipv6AddrPrefixOnLinkFlag (1.3.6.1.2.1.55.1.7.1.3)	read-only	TruthValue	true(1) false(2)	Whether the prefix can be used for on-link determination.	As per the MIB.
ipv6AddrPrefixAutonomousFlag (1.3.6.1.2.1.55.1.7.1.4)	read-only	TruthValue	true(1) false(2)	Autonomous address configuration flag to determine if the prefix can be used to form a local interface address.	As per the MIB.

ipv6AddrPrefixAdvPreferredLifetime (1.3.6.1.2.1.55.1.7.1.5)	read-only	Unsigned32	Standard MIB values.	Length of time in seconds that this prefix will remain preferred.	As per the MIB.
ipv6AddrPrefixAdvValidLifetime (1.3.6.1.2.1.55.1.7.1.6)	read-only	Unsigned32	Standard MIB values.	Length of time in seconds that this prefix will remain valid.	As per the MIB.

ipv6AddrTable

About this table

Use this table to obtain the node's IPv6 address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipv6IfIndex and ipv6AddrAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6AddrAddress (1.3.6.1.2.1.55.1.8.1.1)	not-accessible	Ipv6Address	Standard MIB values.	IPv6 address to which the entry's addressing information belongs.	As per the MIB.
ipv6AddrPfxLength (1.3.6.1.2.1.55.1.8.1.2)	read-only	Ipv6Address	(0..128)	Length of the prefix associated with the IPv6 address of the entry.	As per the MIB.
ipv6AddrType (1.3.6.1.2.1.55.1.8.1.3)	read-only	INTEGER	stateless(1) stateful(2) unknown(3)	Address type.	Do not support unknown.
ipv6AddrAnycastFlag (1.3.6.1.2.1.55.1.8.1.4)	read-only	TruthValue	true(1) false(2)	Anycast address flag.	As per the MIB.
ipv6AddrStatus (1.3.6.1.2.1.55.1.8.1.5)	read-only	INTEGER	preferred(1) deprecated(2) invalid(3) inaccessible(4) unknown(5)	Address status.	As per the MIB.

ipv6RouteTable

About this table

Use this table to obtain IPv6 routing table.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipv6RouteDest, ipv6RoutePfxLength, and ipv6RouteIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6RouteDest (1.3.6.1.2.1.55.1.1 1.1.1)	not-accessible	Ipv6Address	Standard MIB values.	Destination IPv6 address of a route.	As per the MIB.
ipv6RoutePfxLength (1.3.6.1.2.1.55.1.1 1.1.2)	not-accessible	INTEGER	INTEGER (0..128)	Prefix length of the destination address.	As per the MIB.
ipv6RouteIndex (1.3.6.1.2.1.55.1.1 1.1.3)	not-accessible	Unsigned32	Standard MIB values.	Route index, which uniquely identifies the route among the routes to the same network layer destination.	As per the MIB.
ipv6RouteIfIndex (1.3.6.1.2.1.55.1.1 1.1.4)	read-only	Ipv6IfIndexOrZero	Standard MIB values.	Output interface index.	As per the MIB.
ipv6RouteNextHop (1.3.6.1.2.1.55.1.1 1.1.5)	read-only	Ipv6Address	Standard MIB values.	Nexthop address.	As per the MIB.
ipv6RouteType (1.3.6.1.2.1.55.1.1 1.1.6)	read-only	INTEGER	other(1), discard(2), local(3), remote(4)	Type of the route.	As per the MIB.
ipv6RouteProtocol (1.3.6.1.2.1.55.1.1 1.1.7)	read-only	INTEGER	other(1), local(2), netmgmt(3), ndisc(4), rip(5), ospf(6), bgp(7), idrp(8), igrp(9)	Routing protocol type.	As per the MIB.
ipv6RoutePolicy (1.3.6.1.2.1.55.1.1 1.1.8)	read-only	Integer32	Standard MIB values.	General set of route information.	As per the MIB.
ipv6RouteAge (1.3.6.1.2.1.55.1.1 1.1.9)	read-only	Unsigned32	Standard MIB values.	Lifetime of the route.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
1.1.9)					
ipv6RouteNextHopRDI (1.3.6.1.2.1.55.1.1 1.1.10)	read-only	Unsigned32	Standard MIB values.	Routing domain ID of the next hop.	As per the MIB.
ipv6RouteMetric (1.3.6.1.2.1.55.1.1 1.1.11)	read-only	Unsigned32	Standard MIB values.	Metric of the route.	As per the MIB.
ipv6RouteWeight (1.3.6.1.2.1.55.1.1 1.1.12)	read-only	Unsigned32	Standard MIB values.	Weight of the route.	As per the MIB.
ipv6RouteInfo (1.3.6.1.2.1.55.1.1 1.1.13)	read-only	RowPointer	Standard MIB values.	Route information.	As per the MIB.
ipv6RouteValid (1.3.6.1.2.1.55.1.1 1.1.14)	read-write	TruthValue	true(1), false(2)	Whether the route is valid.	Read only.

ipv6NetToMediaTable

About this table

Use this table to configure the mapping between an IPv6 address and the physical address for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ipv6IfIndex and ipv6NetToMediaNetAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6NetToMediaNetAddress (1.3.6.1.2.1.55.1.1 2.1.1)	not-accessible	Ipv6Address	Standard MIB values.	Interface IPv6 address.	As per the MIB.
ipv6NetToMediaPhysAddress (1.3.6.1.2.1.55.1.1 2.1.2)	read-only	PhysAddress	Standard MIB values.	Interface physical address.	As per the MIB.
ipv6NetToMediaType (1.3.6.1.2.1.55.1.1 2.1.3)	read-only	INTEGER	other(1) dynamic(2) static(3) local(4)	Mapping type.	As per the MIB.
ipv6IfNetToMediaState	read-only	INTEGER	reachable(1) stale(2)	Neighbor Unreachability	As per the MIB.

(1.3.6.1.2.1.55.1.1 2.1.4)			delay(3) probe(4) invalid(5) unknown(6)	Detection state for the interface when the address mapping in this entry is used.	
ipv6IfNetToMediaLastUpdated (1.3.6.1.2.1.55.1.1 2.1.5)	read-only	TimeStamp	Standard MIB values.	Time since the entry was last updated.	As per the MIB.
ipv6NetToMediaValid (1.3.6.1.2.1.55.1.1 2.1.6)	read-write	TruthValue	true(1) false(2)	Whether the entry is invalid.	Read only.

Notifications

ipv6IfStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.55.2.0.1	IPv6 interface state change	Informational	-	-	ON

Description

This notification is generated when the state of an IPv6 interface has changed.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
ipv6IfDescr (1.3.6.1.2.1.55.1.5.1.2)	Interface information.	No	DisplayString	DisplayString (0..255)
ipv6IfOperStatus (1.3.6.1.2.1.55.1.5.1.10)	Interface state.	No	INTEGER	up(1) down(2) noIfIdentifier(3) unknown(4) notPresent(5)

Recommended action

Check the interface connection and the interface address.

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IPv6-TCP-MIB

About this MIB

This MIB is defined by RFC 2452. Use this MIB to obtain IPv6 TCP connection information.

MIB file name

rfc2452-ipv6-tcp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).tcp(6)

Tabular objects

ipv6TcpConnTable

About this table

Use this table to obtain IPv6 TCP connection information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipv6TcpConnLocalAddress, ipv6TcpConnLocalPort, ipv6TcpConnRemAddress, ipv6TcpConnRemPort, and ipv6TcpConnIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6TcpConnLocalAddress (1.3.6.1.2.1.6.16.1.1)	Not-accessible	Ipv6Address	Standard MIB values.	Local IPv6 address for a TCP connection. The value of ::0 indicates that the process is ready to accept a connection request from any port.	As per the MIB.
ipv6TcpConnLocalPort (1.3.6.1.2.1.6.16.1.2)	not-accessible	INTEGER	INTEGER (0..65535)	Local port number for the TCP connection.	As per the MIB.
ipv6TcpConnRemAddress (1.3.6.1.2.1.6.16.1.3)	not-accessible	Ipv6Address	Standard MIB values.	Remote IPv6 address for the TCP connection.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6TcpConnRemPort (1.3.6.1.2.1.6.16.1.4)	not-accessible	INTEGER	INTEGER (0..65535)	Remote port number for the TCP connection.	As per the MIB.
ipv6TcpConnIfIndex (1.3.6.1.2.1.6.16.1.5)	not-accessible	Ipv6IfIndexOrZero	Standard MIB values.	Index of the interface associated with the local IPv6 address for the TCP connection.	As per the MIB.
ipv6TcpConnState (1.3.6.1.2.1.6.16.1.6)	read-write	INTEGER	closed(1) listen(2) synSent(3) synReceived(4) established(5) finWait1(6) finWait2(7) closeWait(8) lastAck(9) closing(10) timeWait(11) deleteTCB(12)	TCP connection state. The only value that a management station can set is deleteTCB(12). If a management station tries to set the object to a value other than deleteTCB(12), the agent will return an error response. If the object value is set to deleteTCB(12), TCB will be deleted and the corresponding TCP connection will be terminated.	Read only.

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IPV6-UDP-MIB

About this MIB

This MIB is defined by RFC 2454. Use this MIB to obtain IPv6 UDP endpoint information.

MIB file name

rfc2454-ipv6-udp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).udp(7)

Tabular objects

ipv6UdpTable

About this table

Use this table to obtain IPv6 UDP endpoint information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipv6UdpLocalAddress, ipv6UdpLocalPort, and ipv6UdpIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6UdpLocalAddress (1.3.6.1.2.1.7.6.1.1)	Not-accessible	Ipv6Address	Standard MIB values.	Local IPv6 address for the UDP listener. The value of ::0 indicates that the UDP listener is ready to accept datagrams from any interface.	As per the MIB.
ipv6UdpLocalPort (1.3.6.1.2.1.7.6.1.2)	not-accessible	INTEGER	INTEGER (0..65535)	Local port number for the UDP listener.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipv6UdpIfIndex (1.3.6.1.2.1.7.6.1.3)	read-only	Ipv6IfIndexOrZero	Standard MIB values.	<p>Index object to identify a row (ipv6UdpLocalAddress and ipv6UdpLocalPort are not unique)</p> <p>This object identifies the local interface associated with ipv6UdpLocalAddress for this UDP listener. If such a local interface cannot be determined (for example, the value of object ipv6UdpLocalAddress is 0), the object takes the value 0.</p> <p>The value of this object remains unchanged during the life of the UDP endpoint.</p>	As per the MIB.

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TCP-MIB

About this MIB

This MIB is defined by RFC 4022. Use this MIB to obtain the TCP protocol parameters, TCP connection information, and TCP packet statistics.

MIB file name

rfc4022-tcp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).tcp(6)

Scalar objects

tcpRtoAlgorithm

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpRtoAlgorithm (1.3.6.1.2.1.6.1)	read-only	INTEGER	other(1), constant(2), rsre(3), vanj(4)	Algorithm used to determine the timeout value for retransmitting unacknowledged octets.	As per the MIB.

tcpRtoMin

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpRtoMin (1.3.6.1.2.1.6.2)	read-only	Integer32	Integer32 (0..2147483647)	Minimum value, in milliseconds, for the TCP retransmission timeout.	As per the MIB.

tcpRtoMax

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpRtoMax (1.3.6.1.2.1.6.3)	read-only	Integer32	Integer32 (0..2147483647)	Maximum value, in milliseconds, for the TCP retransmission timeout.	As per the MIB.

tcpMaxConn

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpMaxConn (1.3.6.1.2.1.6.4)	read-only	Integer32	Integer32 (-1 0..2147483647)	Maximum number of TCP	As per the MIB.

				connections that are supported. In the maximum number is a dynamic value, this object take the "value-1".	
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tcpActiveOpens

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpActiveOpens (1.3.6.1.2.1.6.5)	read-only	Counter32	Standard MIB values.	Number of times that TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state.	As per the MIB.

tcpPassiveOpens

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpPassiveOpens (1.3.6.1.2.1.6.6)	read-only	Counter32	Standard MIB values.	Number of times that TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state.	As per the MIB.

tcpAttemptFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpAttemptFails (1.3.6.1.2.1.6.7)	read-only	Counter32	Standard MIB values.	Sum of the following number of times that TCP connections have made a direct transition: <ul style="list-style-type: none"> Number of transitions to the CLOSED state from either the SYN-SENT state or the SYN-RCVD state. Number of transitions to the LISTEN state from the SYN-RCVD state. 	As per the MIB.

tcpEstabResets

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpEstabResets (1.3.6.1.2.1.6.8)	read-only	Counter32	Standard MIB values.	Number of times that TCP connections have made a direct transition to the CLOSED state from either the ESTABLISHED state or the CLOSE-WAIT state.	As per the MIB.

tcpCurrEstab

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpCurrEstab (1.3.6.1.2.1.6.9)	read-only	Gauge32	Standard MIB values.	Number of TCP connections for which the current state is either ESTABLISHED or CLOSE-WAIT.	As per the MIB.

tcpInSegs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpInSegs (1.3.6.1.2.1.6.10)	read-only	Counter32	Standard MIB values.	Total number of segments received, including those received in error, and the segments received on established connections.	As per the MIB.

tcpOutSegs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpOutSegs (1.3.6.1.2.1.6.11)	read-only	Counter32	Standard MIB values.	Total number of sent segments, including those on current connections. The segments containing only retransmitted octets are not included.	As per the MIB.

tcpRetransSegs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpRetransSegs	read-only	Counter32	Standard MIB	Total number of	As per the MIB.

(1.3.6.1.2.1.6.12)			values.	segments retransmitted, that is, the number of transmitted TCP segments containing one or more previously transmitted octets.	
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tcpInErrs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpInErrs (1.3.6.1.2.1.6.14)	read-only	Counter32	Standard MIB values.	Total number of segments received in error (for example, bad TCP checksums).	As per the MIB.

tcpOutRsts

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpOutRsts (1.3.6.1.2.1.6.15)	read-only	Counter32	Standard MIB values.	Number of sent TCP segments containing the RST flag.	As per the MIB.

tcpHCInSegs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpHCInSegs (1.3.6.1.2.1.6.17)	read-only	Counter64	Standard MIB values.	64-bit equivalent of tcpInSegs.	Not supported

tcpHCOutSegs

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpHCOutSegs (1.3.6.1.2.1.6.18)	read-only	Counter64	Standard MIB values.	64-bit equivalent of tcpOutSegs.	Not supported

Tabular objects

tcpConnTable

About this table

Use this table to obtain detailed IPv4 TCP connection information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are tcpConnLocalAddress, tcpConnLocalPort, tcpConnRemAddress, and tcpConnRemPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpConnState (1.3.6.1.2.1.6.13.1.1)	read-write	INTEGER	closed(1), listen(2), synSent(3), synReceived(4), established(5), finWait1(6), finWait2(7), closeWait(8), lastAck(9), closing(10), timeWait(11), deleteTCB(12)	TCP connection state. The only value that a management station can set is deleteTCB(12). If a management station tries to set the object to a value other than deleteTCB(12), the agent will return an error response. If the object value is set to deleteTCB(12), TCB will be deleted and the corresponding TCP connection will be terminated.	Read only.
tcpConnLocalAddress (1.3.6.1.2.1.6.13.1.2)	read-only	IpAddress	Standard MIB values.	Local IP address for the TCP connection. The value 0.0.0.0 indicates that the connection in the listen state can accept connections for any interface.	As per the MIB.
tcpConnLocalPort (1.3.6.1.2.1.6.13.1.3)	read-only	Integer32	Integer32 (0..65535)	Local port number of the TCP connection.	As per the MIB.
tcpConnRemAddress (1.3.6.1.2.1.6.13.1.4)	read-only	IpAddress	Standard MIB values.	Remote IP address of the TCP connection.	As per the MIB.
tcpConnRemPort (1.3.6.1.2.1.6.13.1.5)	read-only	Integer32	Integer32 (0..65535)	Remote port number of the TCP connection.	As per the MIB.

tcpConnectionTable

About this table

Use this table to obtain TCP connection information. Different from tcpConnTable, information about the connections in the LISTEN state is stored in tcpListenTable.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are tcpConnectionLocalAddressType, tcpConnectionLocalAddress, tcpConnectionLocalPort, tcpConnectionRemAddressType, tcpConnectionRemAddress, and tcpConnectionRemPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpConnectionLocalAddressType (1.3.6.1.2.1.6.19.1.1)	not-accessible	InetAddressType	Standard MIB values.	Address type of tcpConnectionLocalAddress.	Only supports ipv4(1) and ipv6 (2).
tcpConnectionLocalAddress (1.3.6.1.2.1.6.19.1.2)	not-accessible	InetAddress	Standard MIB values.	Local IP address of the TCP connection.	As per the MIB.
tcpConnectionLocalPort (1.3.6.1.2.1.6.19.1.3)	not-accessible	InetPortNumber	Standard MIB values.	Local port number of the TCP connection.	As per the MIB.
tcpConnectionRemAddressType (1.3.6.1.2.1.6.19.1.4)	not-accessible	InetAddressType	Standard MIB values.	Address type of tcpConnectionRemAddress.	Supports only ipv4(1) and ipv6 (2).
tcpConnectionRemAddress (1.3.6.1.2.1.6.19.1.5)	not-accessible	InetAddress	Standard MIB values.	Remote IP address of the TCP connection.	As per the MIB.
tcpConnectionRemPort (1.3.6.1.2.1.6.19.1.6)	not-accessible	InetPortNumber	Standard MIB values.	Remote port number of the TCP connection.	As per the MIB.
tcpConnectionState (1.3.6.1.2.1.6.19.1.7)	read-write	INTEGER	closed(1), listen(2), synSent(3), synReceived(4), established(5), finWait1(6), finWait2(7), closeWait(8), lastAck(9), closing(10), timeWait(11), deleteTCB(12)	TCP connection state. The only value that a management station can set is deleteTCB(12). If a management station tries to set the object to a value other than deleteTCB(12), the agent will return an error response. If the object value is set to deleteTCB(12), TCB will be deleted and the corresponding TCP connection will be terminated.	Read only.

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpConnectionProcess (1.3.6.1.2.1.6.19.1.8)	read-only	Unsigned32	Standard MIB values.	System's process ID for the process associated with this connection. The value is 0 if no such process exists.	As per the MIB.

tcpListenerTable

About this table

Use this table to obtain the TCP listener information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are tcpListenerLocalAddressType, tcpListenerLocalAddress, and tcpListenerLocalPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
tcpListenerLocalAddressType (1.3.6.1.2.1.6.20.1.1)	not-accessible	InetAddressType	Standard MIB values.	Address type of tcpListenerLocalAddress. The value unknown(0) indicates that the listener accepts connection initiations to all local IP addresses.	Only supports ipv4(1) and ipv6 (2).
tcpListenerLocalAddress (1.3.6.1.2.1.6.20.1.2)	not-accessible	InetAddress	Standard MIB values.	Local IP address of the TCP connection.	As per the MIB.
tcpListenerLocalPort (1.3.6.1.2.1.6.20.1.3)	not-accessible	InetPortNumber	Standard MIB values.	Local port number of the TCP connection.	As per the MIB.
tcpListenerProcesses (1.3.6.1.2.1.6.20.1.4)	read-only	Unsigned32	Standard MIB values.	System's process ID for the process associated with this connection. The value is 0 if no such process exists.	As per the MIB.

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UDP-MIB

About this MIB

This MIB is defined by RFC 4113. Use this MIB to obtain the UDP endpoint information and UDP packet statistics.

MIB file name

rfc4113-udp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).udp(7)

Scalar objects

udpInDatagrams

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpInDatagrams (1.3.6.1.2.1.7.1)	read- only	Counter32	Standard MIB values.	Total number of UDP datagrams delivered to applications.	As per the MIB.

udpNoPorts

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpNoPorts (1.3.6.1.2.1.7.2)	read-only	Counter32	Standard MIB values.	Total number of received UDP datagrams for which no application exist at the destination port.	As per the MIB.

udpInErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpInErrors (1.3.6.1.2.1.7.3)	read-only	Counter32	Standard MIB values.	Number of received UDP datagrams that cannot be delivered for reasons other than the lack of an application at the destination port.	As per the MIB.

udpOutDatagrams

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpOutDatagrams (1.3.6.1.2.1.7.4)	read-only	Counter32	Standard MIB values.	Total number of UDP datagrams sent from this end.	As per the MIB.

udpHCInDatagrams

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpHCInDatagrams (1.3.6.1.2.1.7.8)	read-only	Counter64	Standard MIB values.	Total number of UDP datagrams delivered to applications, for devices that can receive more than 1 million UDP datagrams per second.	Not supported

udpHCOutDatagrams

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpHCOutDatagrams (1.3.6.1.2.1.7.9)	read-only	Counter64	Standard MIB values.	Total number of UDP datagrams sent from this end entity, for devices that can transmit more than 1 million UDP datagrams per second.	Not supported

Tabular objects

udpTable

About this table

Use this table to obtain IPv4 UDP listener information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are udpLocalAddress and udpLocalPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpLocalAddress (1.3.6.1.2.1.7.5.1.1)	read-only	IpAddress	Standard MIB values.	Local IP address for the UDP listener. The value 0.0.0.0 indicates	As per the MIB.

				that the UDP listener can accept datagrams for any interface.	
udpLocalPort (1.3.6.1.2.1.7.5.1.2)	read-only	Integer32	Integer32 (0..65535)	Local port number for the UDP listener.	As per the MIB.

udpEndpointTable

About this table

Use this table to obtain information about UDP endpoints on which a local application is receiving or sending datagrams.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are udpEndpointLocalAddressType, udpEndpointLocalAddress, udpEndpointLocalPort, udpEndpointRemoteAddressType, udpEndpointRemoteAddress, udpEndpointRemotePort, and udpEndpointInstance.

Object (OID)	Access	Syntax	Value range	Description	Implementation
udpEndpointLocalAddressType (1.3.6.1.2.1.7.7.1.1)	not-accessible	InetAddressType	Standard MIB values.	Address type of udpEndpointLocalAddress. Only IPv4, IPv4z, IPv6, and IPv6z addresses are expected. The value unknown(0) indicates that the datagrams for all local IP addresses are received.	Only support ipv4(1) and ipv6(2).
udpEndpointLocalAddress (1.3.6.1.2.1.7.7.1.2)	not-accessible	InetAddress	Standard MIB values.	Local IP address of the UDP endpoint.	As per the MIB.
udpEndpointLocalPort (1.3.6.1.2.1.7.7.1.3)	not-accessible	InetPortNumber	Standard MIB values.	Local port number of the UDP endpoint.	As per the MIB.
udpEndpointRemoteAddressType (1.3.6.1.2.1.7.7.1.4)	not-accessible	InetAddressType	Standard MIB values.	Address type of udpEndpointRemoteAddress. Only IPv4, IPv4z, IPv6, and IPv6z addresses are expected. The value unknown(0) indicates that the datagrams for all remote IP addresses are	Only support ipv4(1) and ipv6(2).

				received.	
udpEndpointRemoteAddress (1.3.6.1.2.1.7.7.1.5)	not-accessible	InetAddress	Standard MIB values.	Remote IP address of the UDP endpoint.	As per the MIB.
udpEndpointRemotePort (1.3.6.1.2.1.7.7.1.6)	not-accessible	InetPortNumber	Standard MIB values.	Remote port number of the UDP endpoint.	As per the MIB.
udpEndpointInstance (1.3.6.1.2.1.7.7.1.7)	not-accessible	Unsigned32	Unsigned32 (1..4294967295)	Instance ID of the UDP connection, used for distinguishing multiple processes connected to the same UDP endpoint.	As per the MIB.
udpEndpointProcess (1.3.6.1.2.1.7.7.1.8)	read-only	Unsigned32	Standard MIB values.	System's process ID for the process associated with the endpoint. The value is 0 if no such process exists.	As per the MIB.

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BGP4-MIB

About this MIB

This document contains MIB and Trap features compliant with RFC 4273.

MIB file name

rfc4273-bgp4.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).bgp(15)

Scalar objects

bgpVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpVersion (1.3.6.1.2.1.15.1)	read-only	OCTET STRING	OCTET STRING (1..255)	Supported BGP version numbers.	As per the MIB.

bgpLocalAs

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpLocalAs (1.3.6.1.2.1.15.2)	read-only	Integer32	Integer32(-2147483648..2147483647)	Local AS number.	The value range for a 4-octet AS number is 1 to 4294967295. If the AS number is greater than 2147483647, MIB displays a negative value.

bgpIdentifier

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpIdentifier (1.3.6.1.2.1.15.4)	read-only	IpAddress	OCTET STRING (4)	BGP identifier of the local device.	As per the MIB.

Tabular objects

bgpPeerTable

About this table

This table contains BGP peer configuration and statistics information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is bgpPeerRemoteAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpPeerIdentifier (1.3.6.1.2.1.15.3.1.1)	read-only	IpAddress	OCTET STRING (4)	BGP identifier of the peer.	As per the MIB.
bgpPeerState (1.3.6.1.2.1.15.3.1.2)	read-only	INTEGER	idle(1), connect(2), active(3), opensent(4), openconfirm(5), established(6)	Peer connection state.	As per the MIB.
bgpPeerAdminStatus (1.3.6.1.2.1.15.3.1.3)	read-write	INTEGER	stop(1), start(2)	Expected peer connection state.	As per the MIB.
bgpPeerNegotiatedVersion (1.3.6.1.2.1.15.3.1.4)	read-only	Integer32	Integer32(0..255)	Negotiated BGP version number.	As per the MIB.
bgpPeerLocalAddr (1.3.6.1.2.1.15.3.1.5)	read-only	IpAddress	OCTET STRING (4)	Local IP address of the peer connection.	As per the MIB.
bgpPeerLocalPort (1.3.6.1.2.1.15.3.1.6)	read-only	Integer32	Integer32(0..65535)	Local port number of the peer connection.	As per the MIB.
bgpPeerRemoteAddr (1.3.6.1.2.1.15.3.1.7)	read-only	IpAddress	OCTET STRING (4)	Remote IP address of the peer connection.	As per the MIB.
bgpPeerRemotePort (1.3.6.1.2.1.15.3.1.8)	read-only	Integer32	Integer32(0..65535)	Remote port number of the peer connection.	As per the MIB.
bgpPeerRemoteAs (1.3.6.1.2.1.15.3.1.9)	read-only	Integer32	Integer32(-2147483648..2147483647)	AS number of the peer.	The value range for a 4-octet AS number is 1 to 4294967295. If the AS number is greater than 2147483647, MIB displays a negative value.
bgpPeerInUpdates (1.3.6.1.2.1.15.3.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Number of update messages received from the peer.	As per the MIB.
bgpPeerOutUpdates (1.3.6.1.2.1.15.3.1.11)	read-only	Counter32	INTEGER(0..4294967295)	Number of update messages sent to the peer.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpPeerInTotalMessages (1.3.6.1.2.1.15.3.1.12)	read-only	Counter32	INTEGER(0..4294967295)	Number of packets received from the peer.	As per the MIB.
bgpPeerOutTotalMessages (1.3.6.1.2.1.15.3.1.13)	read-only	Counter32	INTEGER(0..4294967295)	Number of packets sent to the peer.	As per the MIB.
bgpPeerLastError (1.3.6.1.2.1.15.3.1.14)	read-only	OCTET STRING	OCTET STRING(2)	Error code and subcode for the most recent peer connection error.	As per the MIB.
bgpPeerFsmEstablishedTransitions (1.3.6.1.2.1.15.3.1.15)	read-only	Counter32	INTEGER(0..4294967295)	Number of times that the peer entered established state.	As per the MIB.
bgpPeerFsmEstablishedTime (1.3.6.1.2.1.15.3.1.16)	read-only	Gauge32	INTEGER(0..4294967295)	Time elapsed since the peer entered established state most recently.	As per the MIB.
bgpPeerConnectRetryInterval (1.3.6.1.2.1.15.3.1.17)	read-write	Integer32	Integer32(1..65535)	Peer connection retry timer.	As per the MIB.
bgpPeerHoldTime (1.3.6.1.2.1.15.3.1.18)	read-only	Integer32	Integer32 (0 3..65535)	Hold timer negotiated with the peer.	As per the MIB.
bgpPeerKeepAlive (1.3.6.1.2.1.15.3.1.19)	read-only	Integer32	Integer32 (0 1..21845)	Keepalive timer negotiated with the peer.	As per the MIB.
bgpPeerHoldTimeConfigured (1.3.6.1.2.1.15.3.1.20)	read-write	Integer32	Integer32 (0 3..65535)	Hold timer configured for the peer.	The value of this object cannot be 0.
bgpPeerKeepAliveConfigured (1.3.6.1.2.1.15.3.1.21)	read-write	Integer32	Integer32 (0 1..21845)	Keepalive timer configured for the peer.	The value of this object cannot be 0.
bgpPeerMinASOriginatingInterval (1.3.6.1.2.1.15.3.1.22)	read-write	Integer32	Integer32(1..65535)	Interval for sending the same route to the peer.	Value range: 0 to 600. This object displays 0 if the value is set to 0.
bgpPeerMinRouteAdvertisementInterval (1.3.6.1.2.1.15.3.1.23)	read-write	Integer32	Integer32(1..65535)	Interval for sending the same route to the peer.	Value range: 0 to 600. This object displays 0 if the value is set to 0.
bgpPeerInUpdateElapsedTime (1.3.6.1.2.1.15.3.1.24)	read-only	Gauge32	INTEGER(0..4294967295)	Time elapsed since the most recent update message was received from the peer.	As per the MIB.

bgpPathAttrTable

About this table

This table is obsolete. It contains BGP route path information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are bgpPathAttrDestNetwork and bgpPathAttrPeer.

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgpPathAttrPeer (1.3.6.1.2.1.15.5.1.1)	read-only	IpAddresses	OCTET STRING (4)	IP address of the peer from which the route was learned.	As per the MIB.
bgpPathAttrDestNetwork (1.3.6.1.2.1.15.5.1.2)	read-only	IpAddresses	OCTET STRING (4)	Destination network address.	As per the MIB.
bgpPathAttrOrigin (1.3.6.1.2.1.15.5.1.3)	read-only	INTEGER	igp(1), egp(2), incomplete(3)	Ultimate origin of the path information.	As per the MIB.
bgpPathAttrASPath (1.3.6.1.2.1.15.5.1.4)	read-only	OCTET STRING	OCTET STRING (2..255)	The set of ASs that must be traversed to reach the network.	As per the MIB.
bgpPathAttrNextHop (1.3.6.1.2.1.15.5.1.5)	read-only	IpAddresses	OCTET STRING (4)	Address of the border router for the destination network.	As per the MIB.
bgpPathAttrInterASMetric (1.3.6.1.2.1.15.5.1.6)	read-only	Integer32	Standard MIB values.	Optional inter-AS metric.	As per the MIB.

bgp4PathAttrTable

About this table

This table contains BGP route attribute information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are bgp4PathAttrIpAddrPrefix, bgp4PathAttrIpAddrPrefixLen, and bgp4PathAttrPeer.

Object (OID)	Access	Syntax	Value range	Description	Implementation
bgp4PathAttrPeer (1.3.6.1.2.1.15.6.1.1)	read-only	IpAddresses	OCTET STRING (4)	IP address of the peer from which the route was learned.	As per the MIB.
bgp4PathAttrIpAddrPrefixLen (1.3.6.1.2.1.15.6.1.2)	read-only	Integer32	Integer32 (0..32)	Route prefix mask.	As per the MIB.
bgp4PathAttrIpAddrPrefix (1.3.6.1.2.1.15.6.1.3)	read-only	IpAddresses	OCTET STRING (4)	Route prefix.	As per the MIB.
bgp4PathAttrOrigin	read-only	INTEGER	igp(1),	Ultimate origin of the	As per the MIB.

(1.3.6.1.2.1.15.6.1.4)		R	egp(2), incomplete(3)	path information.	
bgp4PathAttrASPathSegment (1.3.6.1.2.1.15.6.1.5)	read-only	OCTET STRING	OCTET STRING (2..255)	Sequence of AS path segments.	As per the MIB.
bgp4PathAttrNextHop (1.3.6.1.2.1.15.6.1.6)	read-only	IpAddresses	OCTET STRING (4)	Next hop of the route.	As per the MIB.
bgp4PathAttrMultiExitDisc (1.3.6.1.2.1.15.6.1.7)	read-only	Integer32	Integer32(-1..2147483647)	MED value.	The object returns 2147483647 when the actual value is in the range of 2147483647 to 4294967295.
bgp4PathAttrLocalPref (1.3.6.1.2.1.15.6.1.8)	read-only	Integer32	Integer32(-1..2147483647)	Local preference.	The object returns 2147483647 when the actual value is in the range of 2147483647 to 4294967295.
bgp4PathAttrAtomicAggregate (1.3.6.1.2.1.15.6.1.9)	read-only	INTEGER	lessSpecificRouteNotSelected(1), lessSpecificRouteSelected(2)	Atomic aggregate attribute.	As per the MIB.
bgp4PathAttrAggregatorAS (1.3.6.1.2.1.15.6.1.10)	read-only	Integer32	Integer32(-2147483648..2147483647)	AS number of the last device that performed route aggregation.	The value range for a 4-octet AS number is 1 to 4294967295. If the AS number is greater than 2147483647, MIB displays a negative value.
bgp4PathAttrAggregatorAddress (1.3.6.1.2.1.15.6.1.11)	read-only	IpAddresses	OCTET STRING (4)	IP address of the last device that performed route aggregation.	As per the MIB.
bgp4PathAttrCalcLocalPref (1.3.6.1.2.1.15.6.1.12)	read-only	Integer32	Integer32(-1..2147483647)	Local preference calculated by the receiving device for an advertised route.	The object returns 2147483647 when the actual value is in the range of 2147483647 to 4294967295.
bgp4PathAttrBest (1.3.6.1.2.1.15.6.1.13)	read-only	INTEGER	false(1), true(2)	Whether the route is the optimal route.	As per the MIB.
bgp4PathAttrUnknown (1.3.6.1.2.1.15.6.1.14)	read-only	OCTET STRING	OCTET STRING (0..255)	Route attributes that cannot be identified.	As per the MIB.

Notifications

bgpEstablishedNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.15.0.1	A peer enters established state.	Recovery	-	-	ON

Description

A notification sent when BGP FSM enters established state.

Status control

ON

CLI: Use the `snmp-agent trap enable bgp` command or the `snmp-agent trap enable bgp peer-established` command.

OFF

CLI: Use the `undo snmp-agent trap enable bgp` command or the `undo snmp-agent trap enable bgp peer-established` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.15.3.1.7 (bgpPeerRemoteAddr)	Remote IP address of the peer connection.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.15.3.1.14 (bgpPeerLastError)	Error code and subcode for the most recent peer connection error.	No	DisplayString	OCTET STRING (2)
1.3.6.1.2.1.15.3.1.2 (bgpPeerState)	Peer connection state.	No	INTEGER	idle(1) connect(2) active(3) opensent(4) openconfirm(5) established(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

bgpBackwardTransNotification

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.15.0.2	A peer enters a lower numbered state.	Recovery	Warning	-	ON

Description

A notification sent when BGP FSM enters a lower numbered state.

Status control

ON

CLI: Use the `snmp-agent trap enable bgp` command or the `snmp-agent trap enable bgp peer-backward-transition` command.

OFF

CLI: Use the `undo snmp-agent trap enable bgp` command or the `undo snmp-agent trap enable bgp peer-backward-transition` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.15.3.1.7 (bgpPeerRemoteAddr)	Remote IP address of the peer connection.	No	IpAddress	OCTET STRING (4)
1.3.6.1.2.1.15.3.1.14 (bgpPeerLastError)	Error code and subcode for the most recent peer connection error.	No	DisplayString	OCTET STRING (2)
1.3.6.1.2.1.15.3.1.2 (bgpPeerState)	Peer connection state.	No	INTEGER	idle(1) connect(2) active(3) opensent(4) openconfirm(5) established(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that the notification is triggered by link state changes.
2. If the issue persists, contact H3C Support.

bgpEstablished

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.15.7.1	A peer enters established state.	Recovery	-	-	ON

Description

A notification sent when BGP FSM enters established state.

Status control

ON

CLI: Use the `snmp-agent trap enable bgp` command or the `snmp-agent trap enable bgp peer-established` command.

OFF

CLI: Use the `undo snmp-agent trap enable bgp` command or the `undo snmp-agent trap enable bgp peer-established` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.15.3.1.14 (bgpPeerLastError)	Error code and subcode for the most recent peer connection error.	No	DisplayString	OCTET STRING (2)
1.3.6.1.2.1.15.3.1.2 (bgpPeerState)	Peer connection state.	No	INTEGER	idle(1) connect(2) active(3) opensent(4) openconfirm(5) established(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

bgpBackwardTransition

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.15.7.2	A peer enters a lower numbered state.	Error	Warning	-	ON

Description

A notification sent when BGP FSM enters a lower numbered state.

Status control

ON

CLI: Use the `snmp-agent trap enable bgp` command or the `snmp-agent trap enable bgp peer-backward-transition` command.

OFF

CLI: Use the `undo snmp-agent trap enable bgp` command or the `undo snmp-agent trap enable bgp peer-backward-transition` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.15.3.1.14 (bgpPeerLastError)	Error code and subcode for the most recent peer connection error.	No	DisplayString	OCTET STRING (2)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.15.3.1.2 (bgpPeerState)	Peer connection state.	No	INTEGER	idle(1) connect(2) active(3) opensent(4) openconfirm(5) established(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Verify that the notification is triggered by link state changes.
2. If the issue persists, contact H3C Support.

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HH3C-IPRAN-DCN-MIB (IPRAN)

About this MIB

This MIB describes how OSPF supports IPRAN DCN so that the gateway can manage and control remote devices, monitor running states of the devices, and obtain notifications when the devices come online or go offline.

MIB file name

hh3c-ipran-dcn.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3clpRanDcn(152)

Tabular objects

hh3clpRanDcnInfoObject

About this table

This table contains network element information about the current device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description
hh3clpRanDcnNeld (1.3.6.1.4.1.25506.2.152.1.1.1)	read-only	Hh3clpRanNeld	OCTET STRING (4)	ID that uniquely identifies the local network element.
hh3clpRanDcnNelpType (1.3.6.1.4.1.25506.2.152.1.1.2)	read-only	InetAddressType	ipv4(1)	IP address type of the local network element.
hh3clpRanDcnNelp (1.3.6.1.4.1.25506.2.152.1.1.3)	read-only	InetAddress	OCTET STRING (0..255)	IP address of the local network element.
hh3clpRanDcnMask (1.3.6.1.4.1.25506.2.152.1.1.4)	read-only	InetAddress	OCTET STRING (0..255)	Subnet mask of the IP address of the local network element.
hh3clpRanDcnMAC (1.3.6.1.4.1.25506.2.152.1.1.5)	read-only	MacAddress	OCTET STRING (6)	Bridge MAC of the local network element.
hh3clpRanDcnVendor (1.3.6.1.4.1.25506.2.152.1.1.6)	read-only	DisplayString	SIZE (0..255)	Vendor of the local network element.

hh3clpRanDcnNeInfoTable

About this table

This table contains information about all network elements in the network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description
hh3clpRanDcnNeInfoNeId (1.3.6.1.4.1.25506.2.152.1.1.2.1.1)	read-only	Hh3clpRanNeId	OCTET STRING (4)	ID that uniquely identifies the network element.
hh3clpRanDcnNeInfoNeIpType (1.3.6.1.4.1.25506.2.152.1.1.2.1.2)	read-only	InetAddressType	ipv4(1)	IP address type of the network element.
hh3clpRanDcnNeInfoNeIp (1.3.6.1.4.1.25506.2.152.1.1.2.1.3)	read-only	InetAddress	OCTET STRING (0..255)	IP address of the network element.
hh3clpRanDcnNeInfoMetric (1.3.6.1.4.1.25506.2.152.1.1.2.1.4)	read-only	Integer32	Standard MIB values.	Distance from the local network element to the remote node.
hh3clpRanDcnNeInfoDeviceType (1.3.6.1.4.1.25506.2.152.1.1.2.1.5)	read-only	DisplayString	OCTET STRING (0..255)	Device type of the network element.
hh3clpRanDcnNeInfoMAC (1.3.6.1.4.1.25506.2.152.1.1.2.1.6)	read-only	MacAddress	OCTET STRING (6)	Bridge MAC of the network element.
hh3clpRanDcnNeInfoVendor (1.3.6.1.4.1.25506.2.152.1.1.2.1.7)	read-only	DisplayString	OCTET STRING (0..255)	Vendor of the network element.

hh3clpRanDcnTrapObjects

About this table

This table contains network element information about the current device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description
hh3clpRanDcnNeNumber	read-only	Integer32	Standard MIB values.	Total number of online network

(1.3.6.1.4.1.25506.2.152.1.2.1)				elements.
hh3clpRanDcnNeChangeMode (1.3.6.1.4.1.25506.2.152.1.2.2)	read-only	INTEGER	online (1), offline (2)	Network element state in the most recent notification.
hh3clpRanDcnCompanyName (1.3.6.1.4.1.25506.2.152.1.2.3)	read-only	DisplayString	OCTET STRING (0..255)	Device vendor name.
hh3clpRanDcnDeviceType (1.3.6.1.4.1.25506.2.152.1.2.4)	read-only	DisplayString	OCTET STRING (0..255)	Device type.
hh3clpRanDcnDeviceMac (1.3.6.1.4.1.25506.2.152.1.2.5)	read-only	MacAddress	OCTET STRING(6)	Bridge MAC of the device.

Notifications

hh3clpRanDcnNeOnline

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.152.1.3.0.1	A network element comes online.	Informational	-	-	OFF

Description

A notification sent when a network element comes online.

Status control

ON

CLI: Use the **auto-report** command.

OFF

CLI: Use the **undo auto-report** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.152.1.1.2.1.1 (hh3clpRanDcnNeInfoNeld)	Network element ID.	No	Hh3clpRanNeId	OCTET STRING (4)
1.3.6.1.4.1.25506.2.152.1.1.2.1.2 (hh3clpRanDcnNeInfoNelpType)	IP address type of the network element.	No	InetAddressType	ipv4(1)
1.3.6.1.4.1.25506.2.152.1.1.2.1.3 (hh3clpRanDcnNeInfoNelp)	IP address of the network element.	No	InetAddress	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.152.1.2.3 (hh3clpRanDcnCompanyName)	Device vendor name.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.152.1.2.4 (hh3clpRanDcnDeviceType)	Device type.	No	DisplayString	OCTET STRING (0..255)

1.3.6.1.4.1.25506.2.152.1.2.5 (hh3clpRanDcnDeviceMac)	Bridge MAC of the device.	No	MacAddress	OCTET STRING (6)
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This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3clpRanDcnNeOffline

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.152.1.3.0.2	A network element goes offline.	Informational	-	-	OFF

Description

A notification sent when a network element goes offline.

Status control

ON

CLI: Use the **auto-report** command.

OFF

CLI: Use the **undo auto-report** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.152.1.1.2.1.1 (hh3clpRanDcnNeInfoNeld)	Network element ID.	No	Hh3clpRanNeId	OCTET STRING (4)
1.3.6.1.4.1.25506.2.152.1.1.2.1.2 (hh3clpRanDcnNeInfoNelpType)	IP address type of the network element.	No	InetAddressType	ipv4(1)
1.3.6.1.4.1.25506.2.152.1.1.2.1.3 (hh3clpRanDcnNeInfoNelp)	IP address of the network element.	No	InetAddress	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-ISIS-MIB

About this MIB

Use this MIB to obtain all IS-IS process IDs by using the hh3clsisSysInstance node.

MIB file name

hh3c-isis.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3clsis(59)

Global objects

isisNotificationSysLevelIndex

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	System level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)

isisNotificationCircIfIndex

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)

isisPduLspId

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	LSP ID.	No	IsisLinkStatePDUID	OCTET STRING (8)

hh3clsisAdjProtoType

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.59.1.2.1.1 (hh3clsisAdjProtoType)	Protocol type.	No	INTEGER	ipv4(1) ipv6(1)

hh3clsisAdjProtoState

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.59.1.2.1.2 (hh3clsisAdjProtoState)	Neighbor state.	No	INTEGER	down (1) initializing (2) up (3)

ifName

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.31.1.1.1.1 (ifName)	Interface name.	No	DisplayString	OCTET STRING(0..255)

Tabular objects

hh3clsisSysTable

About this table

This table contains information about all IS-IS process IDs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clsisSysInstance.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clsisSysInstance (1.3.6.1.4.1.25506.2.59.1.1.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Process node.	As per the MIB.

Notifications

hh3clsisAdjacencyProtocolChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.	Address family	Informational	Informational	-	ON

2.59.0.1	state change				
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Description

This notification is generated when a change in address family has occurred.

Status control

ON

CLI: Use the `snmp-agent trap enable isis adjacency-protocol-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis adjacency-protocol-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	System level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclflIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspld)	LSP ID.	No	IsisLinkStatePDUID	OCTET STRING (8)
1.3.6.1.2.1.138.1.6.3.1.2 (hh3clsisProtoState)	IP protocol state.	No	INTEGER	ipv4up (1) ipv4down (2) ipv6up (3) ipv6down(4)
1.3.6.1.2.1.31.1.1.1.1 (ifName)	Interface name.	No	DisplayString	OCTET STRING(0..255)

Recommended action

Check whether the address family change is normal. If the issue persists, please contact the H3C technical support.

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ISIS-MIB

About this MIB

ISIS-MIB is a standard MIB implemented based on RFC4444. Use this MIB to define MIB variables on managed devices according to associated IS-IS configuration at the CLI.

MIB file name

rfc4444-isis.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).isisMIB(138)

Scalar objects

isisSysVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysVersion (1.3.6.1.2.1.138.1.1.1.1)	read-only	INTEGER	unknown (0), one(1)	IS-IS version number.	The value is fixed at one(1).

isisSysLevelType

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysLevelType (1.3.6.1.2.1.138.1.1.1.2)	read-write	IsisLevel	level1(1), level2(2), level1and 2(3)	IS level.	Supports only the read operation.

isisSysID

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysID (1.3.6.1.2.1.138.1.1.1.3)	read-write	IsisSystemID	OCTET STRING (6)	System ID	Supports only the read operation.

isisSysMaxPathSplits

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysMaxPathSplits (1.3.6.1.2.1.138.1.1.1.4)	read-write	Unsigned 32	Unsigned 32(1..32)	Maximum number of ECMP routes supported by IS-IS.	The value range and default value vary by device model. The object can be modified whether the value of isisSysAdminState is on(1).

isisSysMaxLSPGenInt

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysMaxLSPGenInt (1.3.6.1.2.1.138.1.1.1.5)	read-write	Unsigned 32	Unsigned 32(1..65535)	Maximum LSP generation interval supported by IS-IS.	This value must be smaller than isisSysMaxAge. This value must be greater than any isisSysLevelMinLSPGenInt value (not implemented yet). This value must be at least 300 seconds shorter than isisSysMaxAge (not implemented yet).

isisSysPollESHelloRate

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysPollESHelloRate (1.3.6.1.2.1.138.1.1.1.6)	read-write	IsisUnsigned16TC	Unsigned 32(1..65535)	Maximum ES solicitation interval in ISH PDUs.	Supports only the read operation. The value is fixed at 50.

isisSysWaitTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysWaitTime (1.3.6.1.2.1.138.1.1.1.7)	read-write	IsisUnsigned16TC	Unsigned 32(1..65535)	Maximum time to wait for the IS to come up.	Supports only the read operation. The value is fixed at 60.

isisSysAdminState

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysAdminState (1.3.6.1.2.1.138.1.1.1.8)	read-write	IsisAdminState	INTEGER { on(1), off(2) }	Administrative state of the IS.	Supports only the read operation.

isisSysL2toL1Leaking

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysL2toL1Leaking (1.3.6.1.2.1.138.1.1.1.9)	read-write	TruthValue	true(1), false(2)	Whether route leaking from Level-2 to Level-1 is allowed.	As per the MIB.

isisSysMaxAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysMaxAge (1.3.6.1.2.1.138.1.1.1.10)	read-write	IsisUnsigned16TC	Unsigned 32(350..65535)	LSP maximum age. The value must be 300 seconds longer than the maximum LSP generation interval.	The value must be larger than isisSysMaxLSPGenInt, and at least 300 seconds longer than isisSysMaxLSPGenInt.

isisSysReceiveLSPBufferSize

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysReceiveLSPBufferSize(1.3.6.1.2.1.138.1.1.1.11)	read-write	IsisUnsigned16TC	Unsigned 32(1492..16000)	LSP receiving buffer size.	Default: 1497.

isisSysProtSupported

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysProtSupported (1.3.6.1.2.1.138.1.1.1.12)	read-only	BITS	iso8473(0), ipv4(1), ipv6(2)	Supported protocol type.	Supports only ipv4(1) and ipv6(2). The return value is ipv6(2) when both IPv4 and IPv6

					are supported.
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isisSysNotificationEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysNotificationEnable (1.3.6.1.2.1.138.1.1.1.13)	read-write	TruthValue	true(1), false(2)	Whether IS-IS SNMP notifications is enabled.	As per the MIB.

Tabular objects

isisManAreaAddrTable

About this table

This table contains information about manually configured area addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is isisManAreaAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisManAreaAddr (1.3.6.1.2.1.138.1.1.2.1.1)	not-accessible	IsisOSIN SAddresses	OCTET STRING (0..20)	Manually configured area address.	As per the MIB.
isisManAreaAddrExistState (1.3.6.1.2.1.138.1.1.2.1.2)	read-create	RowStatus	active(1)	State of the manually configured area address.	Supports only the read operation. Supports only active(1).

isisAreaAddrTable

About this table

This table contains information about reachable Level-1 area addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is isisAreaAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisAreaAddr (1.3.6.1.2.1.138.1.1.3.1.1)	read-only	IsisOSIN SAddresses	OCTET STRING (0..20)	Reachable Level-1 area address	A value is returned only when the value of isisSysLevelType is level1and2(3).

isisSummAddrTable

About this table

This table contains information about summarized addresses.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisSummAddressType, isisSummAddress, and isisSummAddrPrefixLen.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSummAddressType (1.3.6.1.2.1.138.1.1.4.1.1)	not-accessible	InetAddressType	INTEGER{ unknown (0), ipv4(1), ipv6(2), dns(16) }	Summary address type.	As per the MIB.
isisSummAddress (1.3.6.1.2.1.138.1.1.4.1.2)	not-accessible	InetAddress	OCTET STRING(0..255)	Summary address.	As per the MIB.
isisSummAddrPrefixLen (1.3.6.1.2.1.138.1.1.4.1.3)	not-accessible	InetAddressPrefix Length	Unsigned 32(0..204 0)	Prefix length of the summary address.	As per the MIB.
isisSummAddrExistState (1.3.6.1.2.1.138.1.1.4.1.4)	read-create	RowStatus	active(1)	State of the summary address.	Supports only the read operation. Support only active(1).

isisSummAddrMetric (1.3.6.1.2.1.138.1.1.4.1.5)	read-create	IsisDefaultMetric	Unsigned 32(0..63)	Metric of the summary address.	Supports only the read operation. Default: 20.
isisSummAddrFullMetric (1.3.6.1.2.1.138.1.1.4.1.6)	read-create	IsisFullMetric	Unsigned 32	Total metric (internal metric plus external metric) of the summary address.	Supports only the read operation. Default: 20.

isisRedistributeAddrTable

About this table

This table contains information about route leaking from Level-2 to Level-1.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisRedistributeAddrType, isisRedistributeAddrAddress, and isisRedistributeAddrPrefixLen.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisRedistributeAddrType (1.3.6.1.2.1.138.1.1.5.1.1)	not-accessible	InetAddressType	INTEGER{ unknown (0), ipv4(1), ipv6(2), dns(16) }	Redistributed address type.	As per the MIB.
isisRedistributeAddrAddress (1.3.6.1.2.1.138.1.1.5.1.2)	not-accessible	InetAddress	OCTET STRING(0..255)	Redistributed address.	As per the MIB.
isisRedistributeAddrPrefixLen (1.3.6.1.2.1.138.1.1.5.1.3)	not-accessible	InetAddressPrefix Length	Unsigned 32(0..204 0)	Prefix length of the redistributed address.	As per the MIB.
isisRedistributeAddrExistState (1.3.6.1.2.1.138.1.1.5.1.4)	read-create	RowStatus	active(1)	State of the redistributed address.	Supports only the read operation. Supports only active(1).

isisRouterTable

About this table

This table contains information about mappings between host names and system IDs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisRouterSysID and isisRouterLevel.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisRouterSysID (1.3.6.1.2.1.138.1.1.6.1.1)	not-accessible	IsisSystemID	OCTET STRING (6)	System ID.	As per the MIB.
isisRouterLevel (1.3.6.1.2.1.138.1.1.6.1.2)	not-accessible	IsisISLevel	level1(1), level2(2), level1and2(3)	IS level.	As per the MIB.
isisRouterHostName (1.3.6.1.2.1.138.1.1.6.1.3)	read-only	SnmpAdminString	OCTET STRING (0..255)	Host name of the IS.	As per the MIB.
isisRouterID (1.3.6.1.2.1.138.1.1.6.1.4)	read-only	Unsigned 32	Standard MIB values.	Router ID of the IS.	As per the MIB.

isisSysLevelTable

About this table

This table contains information about the specified IS level.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is isisSysLevelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysLevelIndex (1.3.6.1.2.1.138.1.2.1.1.1)	not-accessible	IsisISLevel	INTEGER{	IS level.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			area(1), domain(2) }		
isisSysLevelOrigLSPBuffSize (1.3.6.1.2.1.138.1.2.1.1.2)	read-write	IsisLSPBuffSize	Unsigned 32(512..16000)	Maximum LSP size that can be generated by the specified IS level.	Default: 1497. The value must be smaller than isisSysReceiveLSPBufferSize. The object is modifiable whether the value of isisSysAdminState is on(1).
isisSysLevelMinLSPGenInt (1.3.6.1.2.1.138.1.2.1.1.3)	read-write	IsisUnsigned16TC	Unsigned 32(1..65535)	Minimum LSP generation interval of the specified IS level.	Value range: 1 to 120. Default: 1. The return value is an integer. When the intelligent timer is configured, if the value is smaller than 1, the return value is 1.
isisSysLevelState (1.3.6.1.2.1.138.1.2.1.1.4)	read-only	IsisLevelState	off (1) on (2) waiting (3) overloaded(4)	Overload status of the specified IS level.	Supports only off(1), on(2), and overloaded(4).
isisSysLevelSetOverload (1.3.6.1.2.1.138.1.2.1.1.5)	read-write	TruthValue	true(1), false(2)	Whether the overload status is set for the specified IS level.	As per the MIB.
isisSysLevelSetOverloadUntil (1.3.6.1.2.1.138.1.2.1.1.6)	read-write	Unsigned 32	Standard MIB values.	Most recent time when the specified IS level exits the overload status.	If the object is a non-zero value, the overload bit is set for this level when the isisSysAdminState variable enters "on" state (when the IS is not implemented yet).
isisSysLevelMetricStyle (1.3.6.1.2.1.138.1.2.1.1.7)	read-write	IsisMetricStyle	INTEGER{ narrow(1), wide(2), both(3) }	Cost style of the specified IS level.	As per the MIB.
isisSysLevelSPFConsiders (1.3.6.1.2.1.138.1.2.1.1.8)	read-write	IsisMetricStyle	INTEGER{ narrow(1), wide(2), both(3) }	Cost style used by the specified IS level during SPF calculation.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysLevelTEEnabled (1.3.6.1.2.1.138.1.2.1.1.9)	read-write	TruthValue	true(1), false(2)	Whether TE is enabled for the specified IS level.	As per the MIB.

isisCirc

About this table

This table contains interface index information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table has no indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisNextCircIndex (1.3.6.1.2.1.138.1.3.1)	read-only	IntegerNextFree	Unsigned 32(0..429 4967295)	Available interface index of the system.	As per the MIB.

isisCircTable

About this table

This table contains IS-IS interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is isisCircIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisCircIndex (1.3.6.1.2.1.138.1.3.2.1.1)	not-accessible	Integer	Unsigned 32(1..429 4967295)	Interface index.	As per the MIB.
isisCircIfIndex	read-create	InterfaceId	Integer32	Ifnet index of	Supports only the read

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.138.1.3.2.1.2)		Index	(1..2147483647)	the interface.	operation.
isisCircAdminState (1.3.6.1.2.1.138.1.3.2.1.3)	read-create	IsisAdminState	INTEGER { on(1), off(2) }	Administrative state of the interface.	Supports only the read operation.
isisCircExistState (1.3.6.1.2.1.138.1.3.2.1.4)	read-create	RowStatus	active(1)	State of the interface.	Supports only the read operation. Supports only active(1).
isisCircType (1.3.6.1.2.1.138.1.3.2.1.5)	read-create	INTEGER	broadcast(1), ptToPt(2), staticIn(3), staticOut(4), dA(5)	Type of the interface.	Supports only the read operation. Supports only broadcast(1) and ptToPt(2). This value is broadcast(1) on a broadcast link, and is ptToPt (2) on other types of links.
isisCircExtDomain (1.3.6.1.2.1.138.1.3.2.1.6)	read-create	TruthValue	true(1), false(2)	Domain attribute of the interface.	Supports only the read operation. The value is fixed at false(2).
isisCircLevelType (1.3.6.1.2.1.138.1.3.2.1.7)	read-create	IsisLevel	level1(1), level2(2), level1and2(3)	Level of the interface.	Supports only the read and write operations.
isisCircPassiveCircuit (1.3.6.1.2.1.138.1.3.2.1.8)	read-create	TruthValue	true(1), false(2)	Whether the interface is disabled from advertising routes.	Supports only the read and write operations.
isisCircMeshGroupEnabled (1.3.6.1.2.1.138.1.3.2.1.9)	read-create	INTEGER	inactive(1), blocked(2), set(3)	Mesh group setting for the interface.	Supports only the read operation.
isisCircMeshGroup (1.3.6.1.2.1.138.1.3.2.1.10)	read-create	Unsigned 32	Standard MIB values.	Mesh group number.	Supports only the read operation.
isisCircSmallHello (1.3.6.1.2.1.138.1.3.2.1.11)	read-create	TruthValue	true(1), false(2)	Whether sending small hello packets is enabled.	Supports only the read and write operations.
isisCircLastUpTime (1.3.6.1.2.1.138.1.3.2.1.12)	read-only	TimeStamp	TimeTicks	Most recent up time of the interface.	As per the MIB.
isisCirc3WayEnabled (1.3.6.1.2.1.138.1.3.2.1.13)	read-create	TruthValue	true(1), false(2)	Whether three-way handshake is enabled.	Supports only the read operation.
isisCircExtendedCircID (1.3.6.1.2.1.138.1.3.2.1.14)	read-create	Unsigned 32	Standard MIB	Unique interface ID	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			values.	during the three-way handshake process.	

isisCircLevelTable

About this table

This table contains information about an interface of the specified circuit level.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are isisCircIndex and isisCircLevelIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisCircLevelIndex (1.3.6.1.2.1.138.1.4.1.1.1)	not-accessible	IsisSLevel	INTEGER{ area(1), domain(2) }	Circuit level of the interface.	As per the MIB.
isisCircLevelMetric (1.3.6.1.2.1.138.1.4.1.1.2)	read-write	IsisDefault Metric	Unsigned32(0..63)	Internal cost of the interface of the specified circuit level.	Value range: 1 to 63.
isisCircLevelWideMetric (1.3.6.1.2.1.138.1.4.1.1.3)	read-write	IsisWideMetric	Unsigned32(0..16777215)	Total cost of the interface of the specified circuit level.	Value range: 1 to 16777215.
isisCircLevelSPriority (1.3.6.1.2.1.138.1.4.1.1.4)	read-write	IsisSPriority	Unsigned32(0..127)	DIS priority for the interface of the specified circuit level.	As per the MIB.
isisCircLevelIDOctet (1.3.6.1.2.1.138.1.4.1.1.5)	read-only	Unsigned32	Unsigned32(0..255)	Circuit ID of the interface (DIS).	As per the MIB.
isisCircLevelID (1.3.6.1.2.1.138.1.4.1.1.6)	read-only	IsisCircuitID	OCTET STRING(0 7)	Unique circuit ID assigned to the interface.	The value is the isisSysID. For a P2P circuit, the value is isisCircLevelIDOctet that is one byte long. For a broadcast circuit, the value is a zero-length eight-byte string.
isisCircLevelDesIS (1.3.6.1.2.1.138.1.4.1.1.7)	read-only	IsisCircuitID	OCTET STRING(0 7)	LAN ID for the DIS on the interface of the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				specified circuit level.	
isisCircLevelHelloMultiplier (1.3.6.1.2.1.138.1.4.1.1.8)	read-write	Unsigned32	Unsigned32(2..100)	IS-IS hello multiplier.	Value range: 3 to 100. Default: 3.
isisCircLevelHelloTimer (1.3.6.1.2.1.138.1.4.1.1.9)	read-write	Unsigned32	Unsigned32(10..60000)	Hello packet sending interval.	Value range: 1000 to 255000. Default: 10000. When the value is divided by 1000, the decimal number will be ignored.
isisCircLevelDRHelloTimer (1.3.6.1.2.1.138.1.4.1.1.10)	read-write	Unsigned32	Unsigned32(10..12000)	Hello packet sending interval on the DIS.	Supports only the read operation. Value range: 1000 to 85000. Default: 3000. When the value is divided by 1000, the decimal number will be ignored.
isisCircLevelLSPThrottle (1.3.6.1.2.1.138.1.4.1.1.11)	read-write	IsisUnsigned16TC	Unsigned32(1..65535)	Minimum LSP sending interval.	Value range: 1 to 1000. Default: 33.
isisCircLevelMinLSPRetransmit (1.3.6.1.2.1.138.1.4.1.1.12)	read-write	Unsigned32	Unsigned32(1..300)	Minimum LSP retransmission interval	As per the MIB.
isisCircLevelCSNPInterval (1.3.6.1.2.1.138.1.4.1.1.13)	read-write	Unsigned32	Unsigned32(1..600)	Minimum CSNP sending interval	As per the MIB.
isisCircLevelPartSNPInterval (1.3.6.1.2.1.138.1.4.1.1.14)	read-write	Unsigned32	Unsigned32(1..120)	Minimum PSNP sending interval	Supports only the read operation. The value is fixed at 2.

isisSystemCounterTable

About this table

This table contains statistics information about the specified IS level.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is isisSysStatLevel.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisSysStatLevel (1.3.6.1.2.1.138.1.5.1.1.1)	not-accessible	IsisISLevel	INTEGER{area(1),	IS level.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			domain(2) }		
isisSysStatCorrLSPs (1.3.6.1.2.1.138.1.5.1.1.2)	read-only	Counter32	INTEGER(0..4 294967295)	Number of error LSPs.	The value is fixed at 0.
isisSysStatAuthTypeFails (1.3.6.1.2.1.138.1.5.1.1.3)	read-only	Counter32	INTEGER(0..4 294967295)	Number of authentication type errors.	As per the MIB.
isisSysStatAuthFails (1.3.6.1.2.1.138.1.5.1.1.4)	read-only	Counter32	INTEGER(0..4 294967295)	Number of authentication failures.	As per the MIB.
isisSysStatLSPDbaseOloads (1.3.6.1.2.1.138.1.5.1.1.5)	read-only	Counter32	INTEGER(0..4 294967295)	Number of LSDB overload times.	As per the MIB.
isisSysStatManAddrDropFromAreas (1.3.6.1.2.1.138.1.5.1.1.6)	read-only	Counter32	INTEGER(0..4 294967295)	Number of times the manually configured area address is deleted from the local area.	As per the MIB.
isisSysStatAtmptToExMaxSeqNums (1.3.6.1.2.1.138.1.5.1.1.7)	read-only	Counter32	INTEGER(0..4 294967295)	Number of times the LSP sequence number exceeds the maximum sequence number.	As per the MIB.
isisSysStatSeqNumSkips (1.3.6.1.2.1.138.1.5.1.1.8)	read-only	Counter32	INTEGER(0..4 294967295)	Number of times the LSP sequence number is not continuous.	As per the MIB.
isisSysStatOwnLSPPurges (1.3.6.1.2.1.138.1.5.1.1.9)	read-only	Counter32	INTEGER(0..4 294967295)	Number of times the system generates LSPs with a lifetime of 0.	As per the MIB.
isisSysStatIDFieldLenMatches (1.3.6.1.2.1.138.1.5.1.1.10)	read-only	Counter32	INTEGER(0..4 294967295)	Number of times the system receives LSPs with ID length changes.	As per the MIB.
isisSysStatPartChanges (1.3.6.1.2.1.138.1.5.1.1.11)	read-only	Counter32	INTEGER(0..4 294967295)	Number of area address mismatches.	As per the MIB.
isisSysStatSPFRuns (1.3.6.1.2.1.138.1.5.1.1.12)	read-only	Counter32	INTEGER(0..4 294967295)	Number of area split events.	As per the MIB.
isisSysStatLSPErrors (1.3.6.1.2.1.138.1.5.1.1.13)	read-only	Counter32	INTEGER(0..4 294967295)	Number of SPF calculation events.	As per the MIB.

isisCircuitCounterTable

About this table

This table contains statistics information about interfaces of the specified circuit level.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCircIndex and isisCircuitType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisCircuitType (1.3.6.1.2.1.138.1.5.2.1.1)	not-accessible	INTEGER	lanlevel1(1), lanlevel2(2), p2pcircuit(3)	Interface type.	As per the MIB.
isisCircAdjChanges (1.3.6.1.2.1.138.1.5.2.1.2)	read-only	Counter32	INTEGER(0..4294967295)	Neighbor change information.	As per the MIB.
isisCircNumAdj (1.3.6.1.2.1.138.1.5.2.1.3)	read-only	Unsigned32	Standard MIB values.	Number of neighbor changes.	As per the MIB.
isisCircInitFails (1.3.6.1.2.1.138.1.5.2.1.4)	read-only	Counter32	INTEGER(0..4294967295)	Number of interface initialization failures.	The value is fixed at 0.
isisCircRejAdjs (1.3.6.1.2.1.138.1.5.2.1.5)	read-only	Counter32	INTEGER(0..4294967295)	Number of adjacency creation failures.	As per the MIB.
isisCircIDFieldLenMismatches (1.3.6.1.2.1.138.1.5.2.1.6)	read-only	Counter32	INTEGER(0..4294967295)	Number of ID length changes in received IS-IS packets.	As per the MIB.
isisCircMaxAreaAddrMismatches (1.3.6.1.2.1.138.1.5.2.1.7)	read-only	Counter32	INTEGER(0..4294967295)	Number of area address mismatches.	As per the MIB.
isisCircAuthTypeFails (1.3.6.1.2.1.138.1.5.2.1.8)	read-only	Counter32	INTEGER(0..4294967295)	Number of authentication type errors.	As per the MIB.
isisCircAuthFails (1.3.6.1.2.1.138.1.5.2.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of authentication errors of the same authentication type.	As per the MIB.
isisCircLANDesISChanges (1.3.6.1.2.1.138.1.5.2.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Number of DIS changes.	As per the MIB.

isisPacketCounterTable

About this table

This table contains statistics information about received and sent IS-IS packets for the specified IS level.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCircIndex, isisPacketCountLevel, and isisPacketCountDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisPacketCountLevel (1.3.6.1.2.1.138.1.5.3.1.1)	not-accessible	IsisISLevel	INTEGER{ area(1), domain(2) }	IS level.	As per the MIB.
isisPacketCountDirection (1.3.6.1.2.1.138.1.5.3.1.2)	not-accessible	INTEGER	sending(1), receiving(2)	Packet direction (sending or receiving).	As per the MIB.
isisPacketCountIIHello (1.3.6.1.2.1.138.1.5.3.1.3)	read-only	Counter32	INTEGER(0..4294967295)	Number of IS-IS packets received or sent.	As per the MIB.
isisPacketCountISHello (1.3.6.1.2.1.138.1.5.3.1.4)	read-only	Counter32	INTEGER(0..4294967295)	Number of hello packets received or sent.	The value is fixed at 0.
isisPacketCountESHello (1.3.6.1.2.1.138.1.5.3.1.5)	read-only	Counter32	INTEGER(0..4294967295)	Number of ES packets received or sent.	The value is fixed at 0.
isisPacketCountLSP (1.3.6.1.2.1.138.1.5.3.1.6)	read-only	Counter32	INTEGER(0..4294967295)	Number of LSPs received or sent.	As per the MIB.
isisPacketCountCSNP (1.3.6.1.2.1.138.1.5.3.1.7)	read-only	Counter32	INTEGER(0..4294967295)	Number of CSNPs received or sent.	As per the MIB.
isisPacketCountPSNP (1.3.6.1.2.1.138.1.5.3.1.8)	read-only	Counter32	INTEGER(0..4294967295)	Number of PSNPs received or sent.	As per the MIB.
isisPacketCountUnknown (1.3.6.1.2.1.138.1.5.3.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of unknown IS-IS packets.	As per the MIB.

isisISAdjTable

About this table

This table contains neighbor information about the specified interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCircIndex and isisISAdjIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisISAdjIndex (1.3.6.1.2.1.138.1.6.1.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	Neighbor index.	As per the MIB.
isisISAdjState (1.3.6.1.2.1.138.1.6.1.1.2)	read-only	INTEGER	down (1), initializing (2), up (3), failed(4)	Neighbor state.	Supports only down(1), initializing(2), and up(3).
isisISAdj3WayState (1.3.6.1.2.1.138.1.6.1.1.3)	read-only	INTEGER	up (0), initializing (1), down (2), failed (3)	Neighbor state.	As per the MIB.
isisISAdjNeighSNPAAddress (1.3.6.1.2.1.138.1.6.1.1.4)	read-only	IsisOSINSAAddresses	OCTET STRING (0..20)	SNPA address of the neighbor.	As per the MIB.
isisISAdjNeighSysType (1.3.6.1.2.1.138.1.6.1.1.5)	read-only	INTEGER	I1IntermediateSystem(1), I2IntermediateSystem(2), I1L2IntermediateSystem(3), unknown(4)	System type of the neighbor.	Supports only I1IntermediateSystem(1), I2IntermediateSystem(2), and I1L2IntermediateSystem(3).
isisISAdjNeighSysID (1.3.6.1.2.1.138.1.6.1.1.6)	read-only	IsisSystemID	OCTET STRING (6)	System ID of the neighbor.	As per the MIB.
isisISAdjNbrExtendedCircID (1.3.6.1.2.1.138.1.6.1.1.7)	read-only	Unsigned32	Standard MIB values.	Circuit ID of the neighbor learned through three-way handshake.	As per the MIB.
isisISAdjUsage (1.3.6.1.2.1.138.1.6.1.1.8)	read-only	IsisLevel	level1(1), level2(2), level1and2(3)	IS level.	As per the MIB.
isisISAdjHoldTimer (1.3.6.1.2.1.138.1.6.1.1.9)	read-only	IsisUnsigned16TC	Unsigned32(1..65535)	Neighbor hold timer.	As per the MIB.
isisISAdjNeighPriority (1.3.6.1.2.1.138.1.6.1.1.10)	read-only	IsisISPriority	Unsigned32(0..127)	Neighbor priority.	As per the MIB.
isisISAdjLastUpTime (1.3.6.1.2.1.138.1.6.1.1.11)	read-only	TimeStamp	TimeTicks	Most recent neighbor up time.	As per the MIB.

isisISAdjAreaAddrTable

About this table

This table contains neighbor area information about the specified interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCirclIndex, isisISAdjIndex, and isisISAdjAreaAddrIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisISAdjAreaAddrIndex (1.3.6.1.2.1.138.1.6.2.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	Neighbor area address index.	As per the MIB.
isisISAdjAreaAddress (1.3.6.1.2.1.138.1.6.2.1.2)	read-only	IsisOSINSAAddresses	OCTET STRING(0..20)	Neighbor area address.	As per the MIB.

isisISAdjIPAddrTable

About this table

This table contains IP address information in the hello packets from the specified neighbor of an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCirclIndex, isisISAdjIndex, and isisISAdjIPAddrIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisISAdjIPAddrIndex (1.3.6.1.2.1.138.1.6.3.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	Reachable IP address index of the neighbor.	As per the MIB.
isisISAdjIPAddrType (1.3.6.1.2.1.138.1.6.3.1.2)	read-only	InetAddressType	ipv4(1), ipv6(2)	Reachable IP address type of the neighbor.	Supports only ipv4(1) and ipv6(2). The local IS supports ipv6(2) only when it supports IPv6 functions.
isisISAdjIPAddrAddress (1.3.6.1.2.1.138.1.6.3.1.3)	read-only	InetAddress	OCTET STRING(0..255)	Reachable IP address of the neighbor.	As per the MIB.

isisISAdjProtSuppTable

About this table

This table contains protocol information supported by the specified neighbor of an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisCirclIndex, isisISAdjIndex, and isisISAdjProtSuppProtocol.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisISAdjProtSuppProtocol (1.3.6.1.2.1.138.1.6.4.1.1)	read-only	IsisSupportedProtocol	INTEGER{ iso8473(129), ipV6(142), ip(204) }	Protocol type supported by the neighbor.	As per the MIB.

isisRATable

About this table

This table contains reachable NSAP address or address prefix information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are isisCirclIndex and isisRAIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisRAIndex (1.3.6.1.2.1.138.1.7.1.1.1)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	Reachable address index.	As per the MIB.
isisRAExistState (1.3.6.1.2.1.138.1.7.1.1.2)	read-create	RowStatus	active(1)	Reachable address state.	The value is fixed at active(1).
isisRAAdminState (1.3.6.1.2.1.138.1.7.1.1.3)	read-create	IsisAdminState	INTEGER {	Administrative state of the reachable	Default: on(1).

			on(1), off(2) }	address.	
isisRAAddrPrefix (1.3.6.1.2.1.138.1.7.1.1.4)	read-create	IsisOSIN SAddress s	OCTET STRING (0..20)	Address prefix.	As per the MIB.
isisRAMapType (1.3.6.1.2.1.138.1.7.1.1.5)	read-create	INTEGE R	none (1), explicit (2), extractID I (3), extractD SP (4)	Address mapping type.	Default: none(1).
isisRAMetric (1.3.6.1.2.1.138.1.7.1.1.6)	read-create	IsisDefau ltMetric	Unsigne d32(0..6 3)	Metric value of the reachable address.	As per the MIB.
isisRAMetricType (1.3.6.1.2.1.138.1.7.1.1.7)	read-create	IsisMetri cType	INTEGE R{ internal(1) , external(2) }	Metric type of the reachable address.	As per the MIB.
isisRASNPAAAddress (1.3.6.1.2.1.138.1.7.1.1.8)	read-create	IsisOSIN SAddress s	OCTET STRING (0..20)	Reachable SNPA address.	As per the MIB.
isisRASNPAMask (1.3.6.1.2.1.138.1.7.1.1.9)	read-create	IsisOSIN SAddress s	OCTET STRING (0..20)	Subnet mask of the reachable SNPA address.	As per the MIB.
isisRASNPAPrefix (1.3.6.1.2.1.138.1.7.1.1.10)	read-create	IsisOSIN SAddress s	OCTET STRING (0..20)	Prefix of the reachable SNPA address.	As per the MIB.
isisRAType (1.3.6.1.2.1.138.1.7.1.1.11)	read-create	INTEGE R	manual (1), automati c (2)	Reachable address type.	As per the MIB.

isisIPRATable

About this table

This table contains reachable IP address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisSysLevelIndex, isisIPRADestType, isisIPRADest, isisIPRADestPrefixLen, and isisIPRANextHopIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisIPRADestType (1.3.6.1.2.1.138.1.8.1.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Reachable IP address type (manual/automatic).	As per the MIB.
isisIPRADest (1.3.6.1.2.1.138.1.8.1.1.2)	not-accessible	InetAddress	OCTET STRING(0..255)	Reachable IP address.	As per the MIB.
isisIPRADestPrefixLen (1.3.6.1.2.1.138.1.8.1.1.3)	not-accessible	InetAddressPrefixLength	Unsigned32(0..2040)	Prefix length of the reachable IP address.	As per the MIB.
isisIPRANextHopIndex (1.3.6.1.2.1.138.1.8.1.1.4)	not-accessible	Unsigned32	Unsigned32(1..4294967295)	Next hop index of the reachable IP address.	As per the MIB.
isisIPRANextHopType (1.3.6.1.2.1.138.1.8.1.1.5)	read-create	InetAddressType	ipv4(1), ipv6(2)	Reachable next hop IP address type.	Supports only the read operation. Supports only ipv4(1) and ipv6(2).
isisIPRANextHop (1.3.6.1.2.1.138.1.8.1.1.6)	read-create	InetAddress	OCTET STRING(0..255)	Reachable next hop IP address.	Supports only the read operation.
isisIPRAType (1.3.6.1.2.1.138.1.8.1.1.7)	read-create	INTEGER	manual (1), automatic (2)	Reachable IP address type.	Supports only the read operation. The value is fixed at automatic(2).
isisIPRAExistState (1.3.6.1.2.1.138.1.8.1.1.8)	read-create	RowStatus	active(1)	Reachable IP address state.	Supports only the read operation. The value is fixed at active(1).
isisIPRAAdminState (1.3.6.1.2.1.138.1.8.1.1.9)	read-create	IsisAdminState	INTEGER { on(1), off(2) }	Administrative state of the reachable IP address.	Supports only the read operation. The value is fixed at on(1).
isisIPRAMetric (1.3.6.1.2.1.138.1.8.1.1.10)	read-create	IsisDefaultMetric	Unsigned32(0..63)	Internal metric value of the reachable IP address.	Supports only the read operation. Default: 0.
isisIPRAMetricType (1.3.6.1.2.1.138.1.8.1.1.11)	read-create	IsisMetricType	INTEGER{ internal(1), external(2) }	Metric type of the reachable IP address.	Supports only the read operation.
isisIPRAFullMetric (1.3.6.1.2.1.138.1.8.1.1.12)	read-create	IsisFullMetric	Unsigned32	Total metric value of the reachable IP address.	Supports only the read operation. Default: 0.
isisIPRASNPAAAddress (1.3.6.1.2.1.138.1.8.1.1.13)	read-create	IsisOSINSAAddresses	OCTET STRING (0..20)	Reachable SNPA address.	Supports only the read operation. The value is always a zero-length string of eight

Object (OID)	Access	Syntax	Value range	Description	Implementation
					bytes.
isisIPRASourceType (1.3.6.1.2.1.138.1.8.1.1.14)	read-only	INTEGER	static (1), direct (2), ospfv2 (3), ospfv3 (4), isis(5), rip(6), igrp(7), eigrp(8), bgp(9), other(10)	Route source (protocol that discovered the route).	Supports only static(1), direct(2), ospfv2(3), ospfv3(4), isis(5), rip(6), and bgp(9).

isisLSPSummaryTable

About this table

This table contains LSP summary information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisLSPLevel and isisLSPID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisLSPLevel (1.3.6.1.2.1.138.1.9.1.1.1)	not-accessible	IsisISLevel	INTEGER{ area(1), domain(2) }	LSP level.	As per the MIB.
isisLSPID (1.3.6.1.2.1.138.1.9.1.1.2)	not-accessible	IsisLinkStat ePDUID	OCTET STRING (8)	LSP ID.	As per the MIB.
isisLSPSeq (1.3.6.1.2.1.138.1.9.1.1.3)	read-only	Unsigned32	Standard MIB values.	LSP sequence number.	As per the MIB.
isisLSPZeroLife (1.3.6.1.2.1.138.1.9.1.1.4)	read-only	TruthValue	true(1), false(2)	Whether the LSP is to be cleared (whether the remaining lifetime is 0).	As per the MIB.
isisLSPChecksum (1.3.6.1.2.1.138.1.9.1.1.5)	read-only	IsisUnsigned16TC	Unsigned32 (1..65535)	LSP checksum.	As per the MIB.
isisLSPLifetimeRemain (1.3.6.1.2.1.138.1.9.1.1.6)	read-only	IsisUnsigned16TC	Unsigned32 (1..65535)	Remaining lifetime of the LSP.	As per the MIB.
isisLSPPDULength (1.3.6.1.2.1.138.1.9.1.1.7)	read-only	IsisUnsigned16TC	Unsigned32 (1..65535)	LSP packet length.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisLSPAttributes (1.3.6.1.2.1.138.1.9.1.1.8)	read-only	IsisUnsigned8TC	Unsigned32 (0..255)	ATT bit of the LSP.	As per the MIB.

isisLSPTLVTable

About this table

This table contains LSP TLV information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are isisLSPLevel, isisLSPID, and isisLSPTLVIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisLSPTLVIndex (1.3.6.1.2.1.138.1.9.2.1.1)	not-accessible	Unsigned32	Unsigned32 (1..4294967295)	TLV index in the LSP.	As per the MIB.
isisLSPTLVSeq (1.3.6.1.2.1.138.1.9.2.1.2)	read-only	Unsigned32	Standard MIB values.	LSP sequence number.	As per the MIB.
isisLSPTLVChecksum (1.3.6.1.2.1.138.1.9.2.1.3)	read-only	IsisUnsigned16TC	Unsigned32 (1..65535)	LSP TLV checksum.	As per the MIB.
isisLSPTLVType (1.3.6.1.2.1.138.1.9.2.1.4)	read-only	IsisUnsigned8TC	Unsigned32 (0..255)	LSP TLV type.	As per the MIB.
isisLSPTLVLen (1.3.6.1.2.1.138.1.9.2.1.5)	read-only	IsisUnsigned8TC	Unsigned32 (0..255)	LSP TLV length.	As per the MIB.
isisLSPTLVValue (1.3.6.1.2.1.138.1.9.2.1.6)	read-only	OCTET STRING	OCTET STRING (0..255)	LSP TLV value.	As per the MIB.

isisNotificationEntry

About this table

This table contains SNMP notifications information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are isisLSPLLevel, isisLSPID, and isisLSPTLVIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
isisNotificationSysLevelIndex (1.3.6.1.2.1.138.1.10.1.1)	accessible-for-notify	IsisLevel	level1(1), level2(2), level1and2 (3)	IS level.	As per the MIB.
isisNotificationCircIfIndex (1.3.6.1.2.1.138.1.10.1.2)	accessible-for-notify	Unsigned32	Unsigned32(1..2147483647)	Interface index.	As per the MIB.
isisPduLspId (1.3.6.1.2.1.138.1.10.1.3)	accessible-for-notify	IsisLinkStatePDUID	OCTET STRING (8)	String that uniquely identifies a link state PDU.	As per the MIB.
isisPduFragment (1.3.6.1.2.1.138.1.10.1.4)	accessible-for-notify	IsisPDU Header	OCTET STRING(0..64)	First 64 bytes in the PDU that triggers the notification.	As per the MIB.
isisPduFieldLen (1.3.6.1.2.1.138.1.10.1.5)	accessible-for-notify	IsisUnsigned8TC	Unsigned32(0..255)	System ID length in the received PDU.	As per the MIB.
isisPduMaxAreaAddress (1.3.6.1.2.1.138.1.10.1.6)	accessible-for-notify	IsisUnsigned8TC	Unsigned32(0..255)	Maximum address in the received PDU.	As per the MIB.
isisPduProtocolVersion (1.3.6.1.2.1.138.1.10.1.7)	accessible-for-notify	IsisUnsigned8TC	Unsigned32(0..255)	Protocol version in the received PDU.	As per the MIB.
isisPduLspSize (1.3.6.1.2.1.138.1.10.1.8)	accessible-for-notify	Unsigned32	Unsigned32(0..2147483647)	Size of the LSP that is too large to be forwarded.	As per the MIB.
isisPduOriginatingBufferSize (1.3.6.1.2.1.138.1.10.1.9)	accessible-for-notify	IsisUnsigned16TC	Unsigned32(0..16000)	Peer isisSysOrigLSPBufferSize value in the TLV.	As per the MIB.
isisPduBufferSize (1.3.6.1.2.1.138.1.10.1.10)	accessible-for-notify	IsisUnsigned16TC	Unsigned32(0..16000)	Maximum received LSP size.	As per the MIB.
isisPduProtocolsSupported (1.3.6.1.2.1.138.1.10.1.11)	accessible-for-notify	OCTET STRING	OCTET STRING (0..255)	Protocol list supported by the neighbor.	As per the MIB.
isisAdjState (1.3.6.1.2.1.138.1.10.1.12)	accessible-for-notify	INTEGER	down (1), initializing (2), up (3), failed(4)	Adjacency state.	As per the MIB.
isisErrorOffset (1.3.6.1.2.1.138.1.10.1.13)	accessible-for-notify	Unsigned32	Standard MIB values.	Offset of the error TLV.	As per the MIB.
isisErrorTLVType (1.3.6.1.2.1.138.1.10.1.14)	accessible-for-notify	Unsigned32	Unsigned32(0..255)	Type of the error TLV.	As per the MIB.
isisNotificationAreaAddress (1.3.6.1.2.1.138.1.10.1.15)	accessible-for-notify	IsisOSINSAAddres	OCTET STRING	Area address of the notification.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
		s	(0..20)		

Notifications

isisDatabaseOverload

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1	LSDB overload state changes.	Informational	-	-	ON

Description

A notification sent when the system enters or exits the overload status. The number of times for generating and clearing the notifications is recorded in isisSysStatLSPDbaseOloads.

Status control

ON

CLI: Use the `snmp-agent trap enable isis lsdboverload-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis lsdboverload-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.2.1.1.4 (isisSysLevelState)	Overload state of the IS level.	No	IsisLevelState	off (1) on (2) waiting (3) overloaded(4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

isisManualAddressDrops

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.2	This notification is generated for invalid area addresses.	Error	Warning	-	ON

Description

A notification sent when an assigned address is ignored during route calculation. The value of the `isisNotificationAreaAddress` variable represents the ignored area address.

The number of times for generating the notifications is recorded in `isisSysStatManAddrDropFromAreas`.

The agent must throttle the generation of consecutive `isisManualAddressDrops` notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis manual-address-drop` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis manual-address-drop` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.15 (<code>isisNotificationAreaAddress</code>)	Manually configured area addresses that have been dropped.	No	IsisOSINSAddress	OCTET STRING (0..20)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Reduce the number of invalid or unused area addresses.
2. If the issue persists, contact H3C Support.

isisCorruptedLSPDetected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.3	LSP errors.	Informational	-	-	ON

Description

A notification sent when an LSP stored in the memory is damaged. The number of times for generating the notifications is recorded in isisSysCorrLSPs.

The system forwards the LSP ID. Although the ID is defined by the system, an error might error on the ID.

Status control

ON

CLI: Use the `snmp-agent trap enable isis lsp-corrupt` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis lsp-corrupt` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

isisAttemptToExceedMaxSequence

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.4	Attempts to exceed the maximum LSP sequence number	Informational	-	-	ON

Description

When an LSP sequence number flip occurs, the system clears and then waits for regeneration of this notification. This notification provides a description on the event. The event does not frequently occur, and the system sends a notification every time the event occurs.

The first six bytes of the LSP ID contain the system ID, and the remaining two bytes contain valid information.

Status control

ON

CLI: Use the `snmp-agent trap enable isis max-seq-exceeded` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis max-seq-exceeded` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspld)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

isisIDLenMismatch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.5	System ID length mismatches.	Error	Warning	-	ON

Description

A notification sent when we receive a PDU with a different value for the system ID length. This notification includes the index of the link that received the PDU and the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive isisIDLenMismatch notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis id-length-mismatch` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis id-length-mismatch` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.5 (isisPduFieldLen)	System ID length in the received PDU.	No	IsisUnsigned8TC	Unsigned32 (0..255)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

If the issue persists, contact H3C Support.

isisMaxAreaAddressesMismatch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.6	Maximum area address mismatches.	Error	Warning	-	ON

Description

A notification sent when we receive a PDU with a different value for the `isisMaxAreaAddressesMismatch`. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive `isisMaxAreaAddressesMismatch` notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis maxarea-mismatch` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis maxarea-mismatch` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.6 (isisPduMaxAreaAddress)	Maximum address in the received PDU.	No	IsisUnsigned8TC	Unsigned32 (0..255)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

If the issue persists, contact H3C Support.

isisOwnLSPPurge

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.7	Attempts to remove the local LSP.	Informational	-	-	ON

Description

A notification sent when we receive a PDU with the local system ID and a lifetime value of 0. This notification includes the link index and router ID, which may help a network manager identify the source of the confusion.

Status control

ON

CLI: Use the `snmp-agent trap enable isis own-lsp-purge` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis own-lsp-purge` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclflIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

isisSequenceNumberSkip

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.8	LSP sequence number duplications.	Informational	-	-	ON

Description

When we receive a PDU with the local system ID and different content, the system might redeploy the LSP by using a greater sequence number. A notification is sent when the sequence number increases by a value greater than 1. When two ISs has the same system ID, a large number of such notifications will be generated.

Status control

ON

CLI: Use the `snmp-agent trap enable isis skip-sequence-number` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis skip-sequence-number` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

isisAuthenticationTypeFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.9	Authentication type errors.	Error	Warning	-	ON

Description

A notification sent when we receive a PDU with an error authentication type field. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive isisAuthenticationTypeFailure notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis authentication-type` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis authentication-type` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Modify configuration on the two ends so that they have matching authentication type.
2. If the issue persists, contact H3C Support.

isisAuthenticationFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1 0	Authentication failures.	Error	Warning	-	ON

Description

A notification sent when we receive a PDU with incorrect authentication information field. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive isisAuthenticationFailure notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis authentication` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis authentication` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Modify configuration on the two ends so that they have matching authentication information.
2. If the issue persists, contact H3C Support.

isisVersionSkew

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1 1	Hello packet version mismatches.	Error	Warning	-	ON

Description

A notification sent when we receive a hello packet from an IS running a different protocol version. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive isisVersionSkew notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis version-skew` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis version-skew` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.7 (isisPduProtocolVersion)	Protocol version in the received PDU.	No	IsisUnsigned8TC	Unsigned32 (0..255)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

If the issue persists, contact H3C Support.

isisAreaMismatch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1 2	Area address mismatches.	Error	Warning	-	ON

Description

A notification sent when we receive a hello packet from an IS containing no matching area addresses. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

The agent must throttle the generation of consecutive isisAreaMismatch notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis area-mismatch` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis area-mismatch` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Modify configuration on the two ends so that they have at least one matching area address.
2. If the issue persists, contact H3C Support.

isisRejectedAdjacency

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.13	Adjacency creation failures.	Error	Warning	-	ON

Description

A notification sent when we receive a hello packet from an IS but no adjacency has been established with it.

The agent must throttle the generation of consecutive isisRejectedAdjacency notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis rejected-adjacency` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis rejected-adjacency` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that the two ends have matching area addresses.
2. Verify that the two ends have matching IS levels.
3. Verify that the two ends have matching authentication types.
4. Verify that the two ends have matching authentication information.
5. If the issue persists, contact H3C Support.

isisLSPTooLargeToPropagate

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.14	Propagation failures caused by oversized LSPs.	Error	Warning	-	ON

Description

A notification sent when an LSP larger than the dataLinkBlockSize value of the link is propagated.

The agent must throttle the generation of consecutive isisLSPTooLargeToPropagate notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis lsp-size-exceeded` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis lsp-size-exceeded` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIflIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.8 (isisPduLspSize)	Size of the LSP that is too large to be forwarded.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.4 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Increase the interface MTU.
2. Reduce the LSP size.

isisOrigLSPBuffSizeMismatch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1 5	Buffer size mismatches of IS-IS packets.	Error	Warning	-	ON

Description

A notification sent when we receive an LSP (Level-1 or Level-2) that is larger than the local `isisSysLevelOrigLSPBuffSize` value or has a Buffer Size value not matching the local `isisSysLevelOrigLSPBuffSize` value. If any value of the Buffer Size or LSP size exceeds the local setting, both values are rejected.

The agent must throttle the generation of consecutive `isisOrigLSPBuffSizeMismatch` notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis buffsize-mismatch` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis buffsize-mismatch` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)
1.3.6.1.2.1.138.1.10.1.9 (isisPduOriginatingBufferSize)	Peer isisSysOrigLSPBuffSize value in the TLV.	No	IsisUnsigned16TC	Unsigned32 (0..16000)
1.3.6.1.2.1.138.1.10.1.10 (isisPduBufferSize)	Maximum received LSP size.	No	IsisUnsigned16TC	Unsigned32 (0..16000)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Reduce the length of LSPs generated by the neighbor.
2. Increase the LSP receive buffer size on the local end.

isisProtocolsSupportedMismatch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.16	Supported-protocol mismatches.	Error	Warning	-	ON

Description

A notification sent when a nonpseudonode LSP fragment 0 is received but no supported protocol is available. The reason for the notification might be that the system has not generated this field or no common elements are available. This notification includes the list of supported protocols. If the system does not support the TLV or the TLV is empty, the supported protocol list will be empty.

The agent must throttle the generation of consecutive isisProtocolsSupportedMismatch notifications so that there is at least a 5-second gap between notifications of this type. When notifications are throttled, they are dropped, not queued for sending at a future time.

Status control

ON

CLI: Use the `snmp-agent trap enable isis protocol-support` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis protocol-support` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.11 (isisPduProtocolsSupported)	Protocol list supported by the neighbor.	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify the protocol support.
2. If the issue persists, contact H3C Support.

isisAdjacencyChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.17	IS-IS adjacency status changes.	Error	Warning	-	ON

Description

A notification sent when an adjacency enters or exits up state. The first six bytes of the isisPduLspId variable represents the system ID of the neighbor. The isisAdjState variable represents the most recent adjacency state.

Status control

ON

CLI: Use the `snmp-agent trap enable isis adjacency-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis adjacency-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCirclflIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspld)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)
1.3.6.1.2.1.138.1.10.1.12 (isisAdjState)	Adjacency state.	No	INTEGER	down (1) initializing (2) up (3) failed (4)
1.3.6.1.2.1.31.1.1.1.1 (ifName)	Interface name	No	DisplayString	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that the neighbor state is normal.
2. If the issue persists, contact H3C Support.

isisLSPErrorDetected

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.138.0.1 8	LSP packet parse failures.	Error	Warning	-	ON

Description

A notification sent when an LSP with parse failure is received. `isisCirclflIndex` records the index of the link that received the PDU. `isisPduFragment` records the starting bytes of the PDU. `isisErrorOffset` indicates the problem.

If the problem was caused by malformed TLV, `isisErrorOffset` indicates the starting bytes of the TLV, and `isisErrorTLVType` records the type of the error TLV.

If the problem was caused by LSP header error, `isisErrorOffset` indicates the suspicious bytes.

The number of the LSPs of this type is recorded in `isisSysStatLSPErrors`.

Status control

ON

CLI: Use the `snmp-agent trap enable isis lsp-parse-error` command.

OFF

CLI: Use the `undo snmp-agent trap enable isis lsp-parse-error` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.138.1.10.1.1 (isisNotificationSysLevelIndex)	IS level index.	No	IsisLevel	level1(1) level2(2) level1and2(3)
1.3.6.1.2.1.138.1.10.1.3 (isisPduLspId)	String that uniquely identifies a link state PDU.	No	IsisLinkStatePDUID	OCTET STRING (8)
1.3.6.1.2.1.138.1.10.1.2 (isisNotificationCircIfIndex)	Interface index.	No	Unsigned32	Unsigned32(1..2147483647)
1.3.6.1.2.1.138.1.10.1.4 (isisPduFragment)	First 64 bytes in the PDU that triggers the notification.	No	IsisPDUHeader	OCTET STRING (0..64)
1.3.6.1.2.1.138.1.10.1.13 (isisErrorOffset)	Offset of the error TLV.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.138.1.10.1.14 (isisErrorTLVType)	Type of the error TLV.	No	Unsigned32	Unsigned32(0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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OSPF-MIB

About this MIB

This document contains MIB and Trap features compliant with RFC 4750.

MIB file name

rfc4750-ospf.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ospf(14)

Scalar objects

ospfRouterId

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRouterId (1.3.6.1.2.1.14.1.1)	read-write	RouterID	OCTET STRING (4)	Router ID that uniquely identifies a router in an AS.	Supports only the read operation.

ospfAdminStat

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAdminStat (1.3.6.1.2.1.14.1.2)	read-write	Status	INTEGER{ enabled(1), disabled(2) }	OSPF administrative state of the router. Enabled indicates at least one OSPF interface exists. Disabled indicates no OSPF interface exists.	Supports only the read operation.

ospfVersionNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfVersionNumber (1.3.6.1.2.1.14.1.3)	read-only	INTEGER	version2 (2)	Version number (2).	As per the MIB.

ospfAreaBdrRtrStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAreaBdrRtrStatus (1.3.6.1.2.1.14.1.4)	read-only	TruthValue	true(1), false(2)	Whether the router is an ABR.	As per the MIB.

ospfASBdrRtrStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfASBdrRtrStatus (1.3.6.1.2.1.14.1.5)	read-write	TruthValue	true(1), false(2)	Whether the router is an ASBR.	Supports only the read operation.

ospfExternLsaCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfExternLsaCount (1.3.6.1.2.1.14.1.6)	read-only	Gauge32	INTEGER(0..4294967295)	Number of Type-5 LSAs.	As per the MIB.

ospfExternLsaCksumSum

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfExternLsaCksumSum (1.3.6.1.2.1.14.1.7)	read-only	Integer32	Standard MIB values.	Sum of checksums in Type-5 LSAs.	As per the MIB.

ospfTOSSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfTOSSupport (1.3.6.1.2.1.14.1.8)	read-write	TruthValue	true(1), false(2)	Whether ToS is supported.	Supports only the read operation.

ospfOriginateNewLsas

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfOriginateNewLsas (1.3.6.1.2.1.14.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of new LSAs that have	As per the MIB.

			4967295)	been originated. This number is incremented each time the router originates a new LSA.	
--	--	--	----------	--	--

ospfRxNewLsas

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRxNewLsas (1.3.6.1.2.1.14.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Number of newly received LSAs, excluding self-originated LSAs.	As per the MIB.

ospfExtLsdbLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfExtLsdbLimit (1.3.6.1.2.1.14.1.11)	read-write	Integer32	Integer32 (-1..'7FFFFFFF'h)	Maximum number of non-default ASEs in the LSDB. A value of -1 indicates no limit.	The value takes -1, or is in the range of 1 to 1000000.

ospfMulticastExtensions

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfMulticastExtensions (1.3.6.1.2.1.14.1.12)	read-write	Integer32	Standard MIB values.	Whether the router is multicast capable. Bit 0 indicates intra-area multicast; bit 1 indicates inter-area multicast; bit 2 indicates inter-AS multicast. The value can be 0, 1, 3, 5, and 7. The default value is 0.	Supports only the read operation.

ospfExitOverflowInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfExitOverflowInterval (1.3.6.1.2.1.14.1.13)	read-write	Positive integer	Integer32 (0..'7FFFFFFF'h)	Time that the router takes to leave the OverflowState. 0	As per the MIB.

				indicates the router does not leave the OverflowState until it is restarted.	
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ospfDemandExtensions

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfDemandExtensions (1.3.6.1.2.1.14.1.14)	read-write	TruthValue	true(1), false(2)	Support for demand routing.	Supports only the read operation.

ospfRFC1583Compatibility

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRFC1583Compatibility (1.3.6.1.2.1.14.1.15)	read-write	TruthValue	true(1), false(2)	Compatibility with RFC 1583. When compatibility is enabled, only cost will be used when choosing among multiple ASE LSAs advertising the same destination. When compatibility is disabled, preference will be used first.	As per the MIB.

ospfOpaqueLsaSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfOpaqueLsaSupport (1.3.6.1.2.1.14.1.16)	read-only	TruthValue	true(1), false(2)	Support for Opaque LSAs.	As per the MIB.

ospfReferenceBandwidth

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfReferenceBandwidth (1.3.6.1.2.1.14.1.17)	read-write	Unsigned 32	Standard MIB	Reference bandwidth in Kb/s for	When the value is divided by 1000, the decimal

			values.	calculating the interface cost.	number will be ignored.
--	--	--	---------	---------------------------------	-------------------------

ospfRestartSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartSupport (1.3.6.1.2.1.14.1.18)	read-write	INTEGER	none (1), planned Only (2), plannedAndUnplanned (3)	Support for GR.	If the value changes from 1 to 2 or 3, IETF GR is supported. If the value changes between 2 and 3, the original GR type remains unchanged.

ospfRestartInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartInterval (1.3.6.1.2.1.14.1.19)	read-write	Integer32	Integer32 (1..1800)	Graceful restart timeout interval.	Value range: 40 to 1800.

ospfRestartStrictLsaChecking

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartStrictLsaChecking (1.3.6.1.2.1.14.1.20)	read-write	TruthValue	true(1), false(2)	Whether the strict LSA checking capability is enabled for GR.	As per the MIB.

ospfRestartStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartStatus (1.3.6.1.2.1.14.1.21)	read-only	INTEGER	notRestarting (1), plannedRestart (2), unplannedRestart (3)	Graceful restart state.	As per the MIB.

ospfRestartAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartAge (1.3.6.1.2.1.14.1.22)	read-only	Unsigned 32	Standard MIB values.	Remaining time for the current graceful restart	As per the MIB.

ospfRestartExitReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfRestartExitReason (1.3.6.1.2.1.14.1.23)	read-only	INTEGER	none (1), inProgress (2), completed (3), timedOut (4), topologyChanged (5)	GR exit reason.	As per the MIB.

ospfAsLsaCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAsLsaCount (1.3.6.1.2.1.14.1.24)	read-only	Gauge32	INTEGER(0..4294967295)	Number of AS-scope LSAs.	As per the MIB.

ospfAsLsaCksumSum

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAsLsaCksumSum (1.3.6.1.2.1.14.1.25)	read-only	Unsigned 32	Standard MIB values.	Sum of AS-scope LSA checksums.	As per the MIB.

ospfStubRouterSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfStubRouterSupport (1.3.6.1.2.1.14.1.26)	read-only	TruthValue	true(1), false(2)	Support for stub router.	As per the MIB.

ospfStubRouterAdvertisement

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfStubRouterAdvertisement(1.3.6.1.2.1.14.1.27)	read-write	INTEGER	doNotAdvertise (1), advertise (2)	Whether to advertise stub router LSAs.	As per the MIB.

ospfDiscontinuityTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfDiscontinuityTime (1.3.6.1.2.1.14.1.28)	read-only	TimeStamp	TimeTicks	Most recent system startup time.	As per the MIB.

Tabular objects

ospfAreaTable

About this table

This table contains parameter and statistics information about each area on the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ospfAreald.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAreald (1.3.6.1.2.1.14.2.1.1)	read-only	AreaID	OCTET STRING (4)	Area ID, a 32-bit integer that uniquely identifies an area.	As per the MIB.
ospfAuthType (1.3.6.1.2.1.14.2.1.2)	read-create	OspfAuthenticationType	none (0), simplePassword (1), md5 (2)	Authentication type.	Supports only the read operation.
ospfImportAsExtern	read-create	INTEGER	importExtern	Area type, stub,	Supports only the read

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.14.2.1.3)		R	nal(1), importNoEx ternal (2), importNssa (3)	NSSA, or common area.	operation.
ospfSpfRuns (1.3.6.1.2.1.14.2.1.4)	read-only	Counter32	INTEGER(0 ..42949672 95)	Time of route calculations in the area.	As per the MIB.
ospfAreaBdrRtrCount (1.3.6.1.2.1.14.2.1.5)	read-only	Gauge32	INTEGER(0 ..42949672 95)	Number of reachable ABRs in the area.	As per the MIB.
ospfAsBdrRtrCount (1.3.6.1.2.1.14.2.1.6)	read-only	Gauge32	INTEGER(0 ..42949672 95)	Number of reachable ASBRs in the area.	As per the MIB.
ospfAreaLsaCount (1.3.6.1.2.1.14.2.1.7)	read-only	Gauge32	INTEGER(0 ..42949672 95)	Number of LSAs in the LSDB of the area.	As per the MIB.
ospfAreaLsaChecksumSum (1.3.6.1.2.1.14.2.1.8)	read-only	Integer32	Standard MIB values.	Sum of the checksums of the LSAs in the area.	As per the MIB.
ospfAreaSummary (1.3.6.1.2.1.14.2.1.9)	read-create	INTEGER	noAreaSum mary (1), sendAreaS ummary (2)	Whether to send summary LSAs to stub and NSSA areas.	Supports only the read and write operations.
ospfAreaStatus (1.3.6.1.2.1.14.2.1.10)	read-create	RowStatus	active(1), notInServic e(2), notReady(3) createAndG o(4), createAnd Wait(5), destroy(6)	Area state.	Supports only the read operation.
ospfAreaNssaTranslatorRole (1.3.6.1.2.1.14.2.1.11)	read-create	INTEGER	always (1), candidate (2)	Ability of the NSSA ABR to translate Type-7 LSAs into Type-5 LSAs.	Supports only the read and write operations.
ospfAreaNssaTranslatorState (1.3.6.1.2.1.14.2.1.12)	read-only	INTEGER	enabled (1), elected (2), disabled (3)	Method for the NSSA ABR to become capable of translating Type-7 LSAs into Type-5 LSAs.	As per the MIB.
ospfAreaNssaTranslatorStabilityInterval (1.3.6.1.2.1.14.2.1.13)	read-create	Positive integer	Integer32(0 ..7FFFFFFF'h)	Time for the elected translator to continue to	Supports only the read and write operations. Value range: 0 to 900.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				perform translation.	
ospfAreaNssaTranslatorEvents (1.3.6.1.2.1.14.2.1.14)	read-only	Counter32	INTEGER(0..4294967295)	Number of translator state changes.	As per the MIB.

ospfStubAreaTable

About this table

This table contains cost information that is advertised to a stub area.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfStubAreaId and ospfStubTOS.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfStubAreaId (1.3.6.1.2.1.14.3.1.1)	read-only	AreaID	OCTET STRING (4)	Area ID, a 32-bit integer that uniquely identifies a stub area.	As per the MIB.
ospfStubTOS (1.3.6.1.2.1.14.3.1.2)	read-only	TOSType	Integer32 (0..30)	Type of Service associated with the cost.	As per the MIB.
ospfStubMetric (1.3.6.1.2.1.14.3.1.3)	read-create	BigMetric	Integer32(0.. 'FFFFFF'h)	Default cost of generated default LSAs, including Type-3 and Type-7 LSAs.	Supports only the read and write operations. Value range: 0 to 16777214.
ospfStubStatus (1.3.6.1.2.1.14.3.1.4)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Area state.	Supports only the read operation.
ospfStubMetricType (1.3.6.1.2.1.14.3.1.5)	read-create	INTEGER	ospfMetric(1), comparableCost(2), nonCompar	Cost type.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			able (3)		

ospfLsdbTable

About this table

This table contains OSPF LSDB information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfLsdbAreald, ospfLsdbType, ospfLsdbLsid, and ospfLsdbRouterId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfLsdbAreald (1.3.6.1.2.1.14.4.1.1)	read-only	AreaID	OCTET STRING (4)	ID of the area from which the LSA was received.	As per the MIB.
ospfLsdbType (1.3.6.1.2.1.14.4.1.2)	read-only	INTEGER	routerLink (1), networkLink (2), summaryLink (3), asSummaryLink (4), asExternalLink (5), multicastLink (6), nssaExternalLink (7), areaOpaqueLink (10)	LSA type. Type-5 LSAs are not displayed.	As per the MIB.
ospfLsdbLsid (1.3.6.1.2.1.14.4.1.3)	read-only	IpAddress	OCTET STRING (4)	LS ID	As per the MIB.
ospfLsdbRouterId (1.3.6.1.2.1.14.4.1.4)	read-only	RouterID	OCTET STRING (4)	Router ID of the LSA originator.	As per the MIB.
ospfLsdbSequence (1.3.6.1.2.1.14.4.1.5)	read-only	Integer32	Standard MIB values.	LSA sequence number.	As per the MIB.
ospfLsdbAge (1.3.6.1.2.1.14.4.1.6)	read-only	Integer32	Standard MIB values.	LSA age.	As per the MIB.
ospfLsdbChecksum (1.3.6.1.2.1.14.4.1.7)	read-only	Integer32	Standard MIB values.	Checksum of the complete contents of the LSA except the age field.	As per the MIB.
ospfLsdbAdvertiseme nt (1.3.6.1.2.1.14.4.1.8)	read-only	OCTET STRING	OCTET STRING (1..65535)	Complete LSA information, including the LSA header.	As per the MIB.

ospfHostTable

About this table

This table contains host route information on the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfHostIpAddress and ospfHostTOS.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfHostIpAddress (1.3.6.1.2.1.14.6.1.1)	read-only	IpAddress s	OCTET STRING (4)	IP address of the host route.	As per the MIB.
ospfHostTOS (1.3.6.1.2.1.14.6.1.2)	read-only	TOSType	Integer32 (0..30)	Type of Service.	As per the MIB.
ospfHostMetric (1.3.6.1.2.1.14.6.1.3)	read-create	Metric	Integer32(0..'FFFF'h)	Host route cost.	Supports only the read and write operations. Value range: 1 to 65535.
ospfHostStatus (1.3.6.1.2.1.14.6.1.4)	read-create	RowStat us	active(1), notInService(2), notReady(3), createAndGo(4), createAndWai t(5), destroy(6)	Host route state.	Supports only the read operation.
ospfHostAreaID (1.3.6.1.2.1.14.6.1.5)	read-only	AreaID	OCTET STRING (4)	ID of the area to which the host route belongs.	As per the MIB.
ospfHostCfgAreaID (1.3.6.1.2.1.14.6.1.6)	read-create	AreaID	OCTET STRING (4)	Configured area ID of the host route.	Supports only the read operation.

ospfIfTable

About this table

This table contains OSPF interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospflfIpAddress and ospfAddressLessIf.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospflfIpAddress (1.3.6.1.2.1.14.7.1.1)	read-only	IpAddresses	OCTET STRING (4)	Interface IP address.	As per the MIB.
ospfAddressLessIf (1.3.6.1.2.1.14.7.1.2)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Used to distinguish interface instances with addresses configured and those without addresses configured.	As per the MIB.
ospflfAreaId (1.3.6.1.2.1.14.7.1.3)	read-create	AreaID	OCTET STRING (4)	Area ID.	Supports only the read operation.
ospflfType (1.3.6.1.2.1.14.7.1.4)	read-create	INTEGER	broadcast(1), nbma (2), pointToPoint (3), pointToPoint (5)	OSPF interface type.	Supports only the read and write operations. Loopback interfaces do not support the write operation.
ospflfAdminStat (1.3.6.1.2.1.14.7.1.5)	read-create	Status	INTEGER{ enabled(1), disabled(2) }	Administrative state of the OSPF interface. It is enabled when the interface is active and disabled when the interface is in other state.	Supports only the read operation.
ospflfRtrPriority (1.3.6.1.2.1.14.7.1.6)	read-create	DesignatedRouterPriority	Integer32(0..255)	Interface priority.	Supports only the read and write operations. Loopback interfaces do not support the write operation.
ospflfTransitDelay (1.3.6.1.2.1.14.7.1.7)	read-create	UpToMaxAge	Integer32(0..3600)	Delay time interval.	Supports only the read and write operations. Value range: 1 to 3600. Loopback interfaces do not support the write operation.
ospflfRetransInterval (1.3.6.1.2.1.14.7.1.8)	read-create	UpToMaxAge	Integer32(0..3600)	Retransmission interval.	Supports only the read and write operations. Value range: 1 to

Object (OID)	Access	Syntax	Value range	Description	Implementation
					3600. Loopback interfaces do not support the write operation.
ospflfHelloInterval (1.3.6.1.2.1.14.7.1.9)	read-create	HelloRange	Integer32(1..FFFF'h)	Hello interval.	Supports only the read and write operations. Loopback interfaces do not support the write operation.
ospflfRtrDeadInterval (1.3.6.1.2.1.14.7.1.10)	read-create	Positive integer	Integer32(0..7FFFFFFF'h)	Dead interval.	Supports only the read and write operations. Value range: 1 to 2147483647. Loopback interfaces do not support the write operation.
ospflfPollInterval (1.3.6.1.2.1.14.7.1.11)	read-create	Positive integer	Integer32(0..7FFFFFFF'h)	Poll interval.	Supports only the read and write operations. Value range: 1 to 2147483647. Loopback interfaces do not support the write operation.
ospflfState (1.3.6.1.2.1.14.7.1.12)	read-only	INTEGER	down (1), loopback(2), , waiting(3), pointToPoint (4), designated Router(5), backupDesignatedRouter (6), otherDesignatedRouter (7)	Interface state.	As per the MIB.
ospflfDesignatedRouter (1.3.6.1.2.1.14.7.1.13)	read-only	IpAddress	OCTET STRING (4)	DR address.	As per the MIB.
ospflfBackupDesignatedRouter (1.3.6.1.2.1.14.7.1.14)	read-only	IpAddress	OCTET STRING (4)	BDR address.	As per the MIB.
ospflfEvents (1.3.6.1.2.1.14.7.1.15)	read-only	Counter32	INTEGER(0..4294967295)	Number of interface state changes.	As per the MIB.
ospflfAuthKey (1.3.6.1.2.1.14.7.1.16)	read-create	OCTET STRING	OCTET STRING (0..256)	Authentication key.	Supports only the read operation.
ospflfStatus (1.3.6.1.2.1.14.7.1.17)	read-create	RowStatus	active(1), notInService(2),	Row status.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			notReady(3), createAndGo(4), createAndWait(5), destroy(6)		
ospflfMulticastForwarding (1.3.6.1.2.1.14.7.1.18)	read-create	INTEGER	blocked(1), multicast(2), unicast (3)	Multicast forwarding way on the interface.	Supports only the read operation.
ospflfDemand (1.3.6.1.2.1.14.7.1.19)	read-create	TruthValue	true(1), false(2)	Whether the interface performs demand routing.	Supports only the read operation.
ospflfAuthType (1.3.6.1.2.1.14.7.1.20)	read-create	OspfAuthenticationType	none (0), simplePassword (1), md5 (2)	Authentication type.	Supports only the read operation.
ospflfLsaCount (1.3.6.1.2.1.14.7.1.21)	read-only	Gauge32	INTEGER(0..4294967295)	Number of Type-9 LSAs.	As per the MIB.
ospflfLsaChecksumSum (1.3.6.1.2.1.14.7.1.22)	read-only	Unsigned 32	INTEGER(0..4294967295)	Sum of checksums in Type-9 LSAs.	As per the MIB.
ospflfDesignatedRouterId (1.3.6.1.2.1.14.7.1.23)	read-only	RouterID	OCTET STRING (4)	Router ID of the DR.	As per the MIB.
ospflfBackupDesignatedRouterId (1.3.6.1.2.1.14.7.1.24)	read-only	RouterID	OCTET STRING (4)	Router ID of the BDR.	As per the MIB.

ospflfMetricTable

About this table

This table contains information about costs to be advertised for a specific interface at various service types.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospflfMetricIpAddress and ospflfMetricAddressLessIf.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospflfMetricIpAddress (1.3.6.1.2.1.14.8.1.1)	read-only	IpAddresses	OCTET STRING (4)	IP address of the OSPF interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospflfMetricAddressLesslf (1.3.6.1.2.1.14.8.1.2)	read-only	Interfacel ndexOrZ ero	Integer32 (0..21474 83647)	Used to distinguish interface instances with addresses configured and those without addresses configured.	As per the MIB.
ospflfMetricTOS (1.3.6.1.2.1.14.8.1.3)	read-only	TOSType	Integer32 (0..30)	ToS cost being used.	As per the MIB.
ospflfMetricValue (1.3.6.1.2.1.14.8.1.4)	read-create	Metric	Integer32 (0..'FFFF' h)	Interface cost.	Supports only the read and write operations. Value range for a loopback interface: 0 to 65535. Value range for other interfaces: 1 to 65535.
ospflfMetricStatus (1.3.6.1.2.1.14.8.1.5)	read-create	RowStat us	active(1), notInServ ice(2), notReady (3), createAn dGo(4), createAn dWait(5), destroy(6)	Row status.	Supports only the read operation.

ospfVirtIfTable

About this table

This table contains OSPF virtual interface information of the router.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfVirtIfAreald and ospfVirtIfNeighbor.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfVirtIfAreald (1.3.6.1.2.1.14.9.1.1)	read-only	AreaID	OCTET STRING (4)	ID of the area to which the virtual link belongs.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfVirtIfNeighbor (1.3.6.1.2.1.14.9.1.2)	read-only	RouterID	OCTET STRING (4)	Router ID of the virtual neighbor.	As per the MIB.
ospfVirtIfTransitDelay (1.3.6.1.2.1.14.9.1.3)	read-create	UpToMaxAge	Integer32 (0..3600)	Delay interval.	Supports only the read and write operations. Value range: 1 to 3600.
ospfVirtIfRetransInterval (1.3.6.1.2.1.14.9.1.4)	read-create	UpToMaxAge	Integer32 (0..3600)	Retransmission interval.	Supports only the read and write operations. Value range: 1 to 3600.
ospfVirtIfHelloInterval (1.3.6.1.2.1.14.9.1.5)	read-create	HelloRange	Integer32 (1..'FFFF'h)	Hello interval.	Supports only the read and write operations. Value range: 1 to 8192.
ospfVirtIfRtrDeadInterval (1.3.6.1.2.1.14.9.1.6)	read-create	Positive integer	Integer32 (0..'7FFF FFFF'h)	Dead interval.	Supports only the read and write operations. Value range: 1 to 32768.
ospfVirtIfState (1.3.6.1.2.1.14.9.1.7)	read-only	INTEGER	down (1), pointToPoint (4)	OSPF virtual interface state.	As per the MIB.
ospfVirtIfEvents (1.3.6.1.2.1.14.9.1.8)	read-only	Counter32	INTEGER (0..429 4967295)	Number of state changes on the interface.	As per the MIB.
ospfVirtIfAuthKey (1.3.6.1.2.1.14.9.1.9)	read-create	OCTET STRING	OCTET STRING (0..256)	Authentication key.	Supports only the read operation.
ospfVirtIfStatus (1.3.6.1.2.1.14.9.1.10)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.
ospfVirtIfAuthType (1.3.6.1.2.1.14.9.1.11)	read-create	OspfAuthenticationType	none (0), simplePassword (1), md5 (2)	Authentication type.	Supports only the read operation.
ospfVirtIfLsaCount (1.3.6.1.2.1.14.9.1.12)	read-only	Gauge32	INTEGER (0..429 4967295)	Number of Type-9 LSAs.	As per the MIB.
ospfVirtIfLsaChecksumSum (1.3.6.1.2.1.14.9.1.13)	read-only	Unsigned 32	Standard MIB values.	Sum of checksums in Type-9 LSAs.	As per the MIB.

ospfNbrTable

About this table

This table contains information about non-virtual neighbors of the local OSPF router.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfNbrIpAddr and ospfNbrAddressLessIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfNbrIpAddr (1.3.6.1.2.1.14.10.1.1)	read-only	IpAddress	OCTET STRING (4)	Neighbor IP address.	As per the MIB.
ospfNbrAddressLessIndex (1.3.6.1.2.1.14.10.1.2)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Set to 0 on an interface having an IP address, and set to the value of interface index in the Internet Standard MIB on an interface having no IP address.	As per the MIB.
ospfNbrRtrId (1.3.6.1.2.1.14.10.1.3)	read-only	RouterID	OCTET STRING (4)	Router ID of the neighbor.	As per the MIB.
ospfNbrOptions (1.3.6.1.2.1.14.10.1.4)	read-only	Integer32	Standard MIB values.	Option field of the neighbor.	As per the MIB.
ospfNbrPriority (1.3.6.1.2.1.14.10.1.5)	read-create	DesignatedRouterPriority	Integer32(0..255)	Priority of the neighbor.	Supports only the read and write operations. NBMA neighbors support only the write operations.
ospfNbrState (1.3.6.1.2.1.14.10.1.6)	read-only	INTEGER	down (1), attempt (2), init (3), twoWay (4), exchangeStart (5), exchange (6), loading (7), full (8)	State of the relationship with the neighbor.	As per the MIB.
ospfNbrEvents (1.3.6.1.2.1.14.10.1.7)	read-only	Counter32	INTEGER(0..4294967295)	Number of neighbor state changes.	As per the MIB.
ospfNbrLsRetransQLen (1.3.6.1.2.1.14.10.1.8)	read-only	Gauge32	INTEGER(0..4294967295)	Retransmission queue length.	As per the MIB.
ospfNbmaNbrStatus (1.3.6.1.2.1.14.10.1.9)	read-create	RowStatus	active(1), notInService	Row status.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)		
ospfNbmaNbrPermanence (1.3.6.1.2.1.14.10.1.10)	read-only	INTEGER	dynamic(1), permanent(2)	Entry status. □The values dynamic and permanent refer to how the neighbor became known.	As per the MIB.
ospfNbrHelloSuppressed (1.3.6.1.2.1.14.10.1.11)	read-only	TruthValue	true(1), false(2)	Whether hello packets are being suppressed to the neighbor.	As per the MIB.
ospfNbrRestartHelperStatus (1.3.6.1.2.1.14.10.1.12)	read-only	INTEGER	notHelping(1), helping (2)	Whether the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfNbrRestartHelperAge (1.3.6.1.2.1.14.10.1.13)	read-only	Unsigned32	Standard MIB values.	Remaining time of the GR interval when the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfNbrRestartHelperExitReason (1.3.6.1.2.1.14.10.1.14)	read-only	INTEGER	none (1),inProgress (2),completed (3),timedOut (4),topology Changed (5)	GR helper exit reason.	As per the MIB.

ospfVirtNbrTable

About this table

This table contains information about all virtual neighbors.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfVirtNbrArea and ospfVirtNbrRtrId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfVirtNbrArea (1.3.6.1.2.1.14.11.1.1)	read-only	AreaID	OCTET STRING (4)	Transit area identifier.	As per the MIB.
ospfVirtNbrRtrId (1.3.6.1.2.1.14.11.1.2)	read-only	RouterID	OCTET STRING (4)	A 32-bit integer that uniquely	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				identifies the neighboring router in the AS.	
ospfVirtNbrIpAddr (1.3.6.1.2.1.14.11.1.3)	read-only	IpAddress	OCTET STRING (4)	IP address of the virtual neighbor.	As per the MIB.
ospfVirtNbrOptions (1.3.6.1.2.1.14.11.1.4)	read-only	Integer32	Standard MIB values.	Option field of the neighbor.	As per the MIB.
ospfVirtNbrState (1.3.6.1.2.1.14.11.1.5)	read-only	INTEGER	down (1), attempt (2), init (3), twoWay (4), exchangeStart (5), exchange (6), loading (7), full (8)	State of the virtual neighbor relationship.	As per the MIB.
ospfVirtNbrEvents (1.3.6.1.2.1.14.11.1.6)	read-only	Counter32	INTEGER(0..4294 967295)	Number of virtual link state changes.	As per the MIB.
ospfVirtNbrLsRetransQLen (1.3.6.1.2.1.14.11.1.7)	read-only	Gauge32	INTEGER(0..4294 967295)	Retransmission queue length.	As per the MIB.
ospfVirtNbrHelloSuppressed (1.3.6.1.2.1.14.11.1.8)	read-only	TruthValue	true(1), false(2)	Whether hello packets are being suppressed to the neighbor.	As per the MIB.
ospfVirtNbrRestartHelperStatus (1.3.6.1.2.1.14.11.1.9)	read-only	INTEGER	notHelping(1), helping (2)	Whether the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfVirtNbrRestartHelperAge (1.3.6.1.2.1.14.11.1.10)	read-only	Unsigned32	Standard MIB values.	Remaining time of the GR interval when the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfVirtNbrRestartHelperExitReason (1.3.6.1.2.1.14.11.1.11)	read-only	INTEGER	none(1), inProgress(2), completed (3), timedOut (4), topologyChanged (5)	GR helper exit reason.	As per the MIB.

ospfExtLsdbTable

About this table

This table contains information about the LSDB of external LSAs for the OSPF process.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfExtLsdbType, ospfExtLsdbLsid, and ospfExtLsdbRouterId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfExtLsdbType (1.3.6.1.2.1.14.12.1.1)	read-only	INTEGER	asExternalLink(5)	LSA type.	As per the MIB.
ospfExtLsdbLsid (1.3.6.1.2.1.14.12.1.2)	read-only	IpAddress	OCTET STRING (4)	LS ID, an LS type specific field containing either a router ID or an IP address.	As per the MIB.
ospfExtLsdbRouterId (1.3.6.1.2.1.14.12.1.3)	read-only	RouterID	OCTET STRING (4)	A 32-bit number that uniquely identifies the originating router in the AS.	As per the MIB.
ospfExtLsdbSequence (1.3.6.1.2.1.14.12.1.4)	read-only	Integer32	Standard MIB values.	Sequence number.	As per the MIB.
ospfExtLsdbAge (1.3.6.1.2.1.14.12.1.5)	read-only	Integer32	Standard MIB values.	Age of the LSA.	As per the MIB.
ospfExtLsdbChecksum (1.3.6.1.2.1.14.12.1.6)	read-only	Integer32	Standard MIB values.	Checksum of the complete contents of the LSA, except the age field.	As per the MIB.
ospfExtLsdbAdvertisement (1.3.6.1.2.1.14.12.1.7)	read-only	OCTET STRING	OCTET STRING (36)	Complete LSA information.	As per the MIB.

ospfAreaAggregateTable

About this table

This table contains information about configured summary routes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfAreaAggregateAreaID, ospfAreaAggregateLsdbType, ospfAreaAggregateNet, and ospfAreaAggregateMask.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAreaAggregateAreaID (1.3.6.1.2.1.14.14.1.1)	read-only	AreaID	OCTET STRING (4)	Area where the summary route resides.	As per the MIB.
ospfAreaAggregateLsdbType (1.3.6.1.2.1.14.14.1.2)	read-only	INTEGER	summary Link(3), nssaExternalLink (7)	Summary route type.	As per the MIB.
ospfAreaAggregateNet (1.3.6.1.2.1.14.14.1.3)	read-only	IpAddresses	OCTET STRING (4)	Network address.	As per the MIB.
ospfAreaAggregateMask (1.3.6.1.2.1.14.14.1.4)	read-only	IpAddresses	OCTET STRING (4)	Subnet mask.	As per the MIB.
ospfAreaAggregateStatus (1.3.6.1.2.1.14.14.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.
ospfAreaAggregateEffect (1.3.6.1.2.1.14.14.1.6)	read-create	INTEGER	advertiseMatching (1), doNotAdvertiseMatching (2)	Whether subnets are included in the summary route.	Supports only the read and write operations.
ospfAreaAggregateExtRouteTag (1.3.6.1.2.1.14.14.1.7)	read-create	Unsigned 32	INTEGER(0..4294967295)	External route tag in Type-7 LSAs.	Supports only the read and write operations. nssaExternalLink supports only the write operation.

ospfLocalLsdbTable

About this table

This table contains all local LSDB information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfLocalLsdbIpAddress, ospfLocalLsdbAddressLessIf, ospfLocalLsdbType, ospfLocalLsdbLsid, and ospfLocalLsdbRouterId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfLocalLsdbIpAddress (1.3.6.1.2.1.14.17.1.1)	not-accessible	IpAddress s	OCTET STRING (4)	IP address of the interface that received the LSA.	As per the MIB.
ospfLocalLsdbAddressLessIf (1.3.6.1.2.1.14.17.1.2)	not-accessible	Interfacel ndexOrZ ero	Integer32 (0..21474 83647)	Index of the interface that received the LSA.	As per the MIB.
ospfLocalLsdbType (1.3.6.1.2.1.14.17.1.3)	not-accessible	INTEGE R	localOpa queLink (9)	LSA type.	As per the MIB.
ospfLocalLsdbLsid (1.3.6.1.2.1.14.17.1.4)	not-accessible	IpAddress s	OCTET STRING (4)	LS ID.	As per the MIB.
ospfLocalLsdbRouterId (1.3.6.1.2.1.14.17.1.5)	not-accessible	RouterID	OCTET STRING (4)	A 32-bit number that uniquely identifies the originating router in the AS.	As per the MIB.
ospfLocalLsdbSequence (1.3.6.1.2.1.14.17.1.6)	read-only	Integer32	Standard MIB values.	LSA sequence number.	As per the MIB.
ospfLocalLsdbAge (1.3.6.1.2.1.14.17.1.7)	read-only	Integer32	Standard MIB values.	LSA age in seconds.	As per the MIB.
ospfLocalLsdbChecksum (1.3.6.1.2.1.14.17.1.8)	read-only	Integer32	Standard MIB values.	LSA checksum.	As per the MIB.
ospfLocalLsdbAdvertisement (1.3.6.1.2.1.14.17.1.9)	read-only	OCTET STRING	OCTET STRING (1..65535)	Complete LSA information.	As per the MIB.

ospfVirtLocalLsdbTable

About this table

This table contains local LSDB information for all virtual links.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfVirtLocalLsdbTransitArea, ospfVirtLocalLsdbNeighbor, ospfVirtLocalLsdbType, ospfVirtLocalLsdbLsid, and ospfVirtLocalLsdbRouterId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfVirtLocalLsdbTransitArea (1.3.6.1.2.1.14.18.1.1)	not-accessible	AreaID	OCTET STRING (4)	Transit area that the virtual link traverses.	As per the MIB.
ospfVirtLocalLsdbNeighbor (1.3.6.1.2.1.14.18.1.2)	not-accessible	RouterID	OCTET STRING (4)	Router ID of the virtual neighbor.	As per the MIB.
ospfVirtLocalLsdbType (1.3.6.1.2.1.14.18.1.3)	not-accessible	INTEGER	localOpaqueLink (9)	LSA type.	As per the MIB.
ospfVirtLocalLsdbLsid (1.3.6.1.2.1.14.18.1.4)	not-accessible	IpAddress	OCTET STRING (4)	LS ID.	As per the MIB.
ospfVirtLocalLsdbRouterId (1.3.6.1.2.1.14.18.1.5)	not-accessible	RouterID	OCTET STRING (4)	A 32-bit number that uniquely identifies the originating router in the AS.	As per the MIB.
ospfVirtLocalLsdbSequence (1.3.6.1.2.1.14.18.1.6)	read-only	Integer32	Standard MIB values.	LSA sequence number.	As per the MIB.
ospfVirtLocalLsdbAge (1.3.6.1.2.1.14.18.1.7)	read-only	Integer32	Standard MIB values.	LSA age in seconds.	As per the MIB.
ospfVirtLocalLsdbChecksum (1.3.6.1.2.1.14.18.1.8)	read-only	Integer32	Standard MIB values.	LSA checksum.	As per the MIB.
ospfVirtLocalLsdbAdvertisement (1.3.6.1.2.1.14.18.1.9)	read-only	OCTET STRING	OCTET STRING (1..65535)	Complete LSA information.	As per the MIB.

ospfAsLsdbTable

About this table

This table contains information about LSDB information of an AS.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfAsLsdbType, ospfAsLsdbLsid, and ospfAsLsdbRouterId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAsLsdbType (1.3.6.1.2.1.14.19.1.1)	not-accessible	INTEGER	asExternalLink (5), asOpaqueLink (11)	LSA type.	As per the MIB.
ospfAsLsdbLsid (1.3.6.1.2.1.14.19.1.2)	not-accessible	IpAddress	OCTET STRING (4)	LS ID.	As per the MIB.
ospfAsLsdbRouterId (1.3.6.1.2.1.14.19.1.3)	not-accessible	RouterID	OCTET STRING (4)	A 32-bit number that uniquely identifies the originating router in the AS.	As per the MIB.
ospfAsLsdbSequence (1.3.6.1.2.1.14.19.1.4)	read-only	Integer32	Standard MIB values.	LSA sequence number.	As per the MIB.
ospfAsLsdbAge (1.3.6.1.2.1.14.19.1.5)	read-only	Integer32	Standard MIB values.	LSA age in seconds.	As per the MIB.
ospfAsLsdbChecksum (1.3.6.1.2.1.14.19.1.6)	read-only	Integer32	Standard MIB values.	LSA checksum.	As per the MIB.
ospfAsLsdbAdvertisement (1.3.6.1.2.1.14.19.1.7)	read-only	OCTET STRING	OCTET STRING (1..65535)	Complete LSA information.	As per the MIB.

ospfAreaLsaCountTable

About this table

This table contains LSA statistics information of all areas and types.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfAreaLsaCountAreald and ospfAreaLsaCountLsaType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfAreaLsaCountAreald (1.3.6.1.2.1.14.20.1.1)	not-accessible	AreaID	OCTET STRING (4)	Area ID.	As per the MIB.

ospfAreaLsaCountLsaType (1.3.6.1.2.1.14.20.1.2)	not-accessible	INTEGER	routerLink (1), networkLink (2), summaryLink (3), asSummaryLink (4), multicastLink (6), nssaExternalLink (7), areaOpaqueLink (10)	LSA type.	As per the MIB.
ospfAreaLsaCountNumber (1.3.6.1.2.1.14.20.1.3)	read-only	Gauge32	INTEGER(0..4294967295)	Number of LSAs of the specified type in the specified area.	As per the MIB.

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OSPF-TRAP-MIB

About this MIB

Use this MIB to set, edit, and view OSPF protocol and notification information about network devices.

MIB file name

rfc4750-ospf-trap.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ospf(14)

Scalar objects

ospfSetTrap

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfSetTrap (1.3.6.1.2.1.14.16.1.1)	read-write	OCTET STRING	OCTET STRING (4)	Whether OSPF notification is enabled.	As per the MIB.

ospfConfigErrorType

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfConfigErrorType (1.3.6.1.2.1.14.16.1.2)	read-only	INTEGER	badVersion (1), areaMismatch (2), unknownNbmaNbr (3), unknownVirtualNbr (4), authTypeMismatch(5), authFailure (6), netMaskMismatch (7), helloIntervalMismat ch (8), deadIntervalMismat ch (9), optionMismatch (10), mtuMismatch (11), duplicateRouterId (12), noError (13)	Possible configuration error type.	As per the MIB.

ospfPacketType

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfPacketType (1.3.6.1.2.1.14.16.1.3)	read-only	INTEGER	hello (1), dbDescript (2), lsReq (3), lsUpdate (4), lsAck (5), nullPacket (6)	OSPF packet type.	As per the MIB.

ospfPacketSrc

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfPacketSrc (1.3.6.1.2.1.14.16.1.4)	read-only	IpAddress	OCTET STRING (4)	IP address that cannot be identified by a neighbor.	As per the MIB.

Notifications

ospfVirtIfStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.1	Virtual interface state changes.	Informational	-	-	ON

Description

A notification sent when the state of a virtual interface regresses (for example, changing from P2P to Down) or progresses to a terminal state (for example, P2P).

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virtif-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virtif-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.9.1.1 (ospfVirtIfAreaId)	ID of the area to which the virtual link belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.9.1.2 (ospfVirtIfNeighbor)	Router ID of the virtual neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.9.1.7 (ospfVirtIfState)	Virtual interface state.	No	INTEGER	down (1) pointToPoint (4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfNbrStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.2	Neighbor state changes.	Informational	-	-	ON

Description

A notification sent when the state of a neighbor regresses (for example, changing from Attempt or Full to 1-Way or Down) or progresses to a terminal state (for example, 2-Way or Full). When the state of a neighbor in an NBMA or broadcast network changes from Full to another state or changes from another state to Full, the notification is generated by the DR. An ospfIfStateChange notification will be generated when the DR does down.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf neighbor-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf neighbor-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.10.1.1 (ospfNbrIpAddr)	IP address of the neighbor.	No	IpAddress	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.10.1.2 (ospfNbrAddressLessIndex)	Set to 0 on an interface having an IP address, and set to the value of interface index in the Internet Standard MIB on an interface having no IP address.	No	InterfaceIndex OrZero	Integer32 (0..2147483647)
1.3.6.1.2.1.14.10.1.3 (ospfNbrRtrId)	Router ID of the neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.10.1.6 (ospfNbrState)	Neighbor state.	No	INTEGER	down (1) attempt (2) init (3) twoWay (4) exchangeStart (5) exchange (6) loading (7) full (8)
1.3.6.1.2.1.31.1.1.1.1 (ifName)	Interface name	No	DisplayString	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfVirtNbrStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.3	Virtual neighbor state changes.	Informational	-	-	ON

Description

A notification sent when the state of a virtual neighbor regresses (for example, changing from Attempt or Full to 1-Way or Down) or progresses to a terminal state (for example, Full).

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virtneighbor-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virtneighbor-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.11.1.1 (ospfVirtNbrArea)	ID of the area to which the virtual neighbor belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.11.1.2 (ospfVirtNbrRtrId)	A 32-bit integer that uniquely identifies the neighboring router in the AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.11.1.5 (ospfVirtNbrState)	Neighbor state.	No	INTEGER	down (1) attempt (2) init (3) twoWay (4) exchangeStart (5) exchange (6) loading (7) full (8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfIfConfigError

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.4	Interface configuration error.	Error	Warning	-	ON

Description

A notification sent when an interface on a router receives a packet from another router with mismatched configuration. The optionMismatch event causes a notification only if it prevents an adjacency from establishing.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf config-error` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf config-error` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.7.1.1 (ospfIfIpAddress)	IP address of the interface.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.7.1.2 (ospfAddressLessIf)	Used to distinguish interface instances with addresses configured and those without addresses configured.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)
1.3.6.1.2.1.14.16.1.4 (ospfPacketSrc)	IP address that cannot be identified by a neighbor.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.16.1.2 (ospfConfigErrorType)	Configuration error type.	No	INTEGER	badVersion (1) areaMismatch (2) unknownNbmaNbr (3) unknownVirtualNbr (4) authTypeMismatch (5) authFailure (6) netMaskMismatch (7) helloIntervalMismatch (8) deadIntervalMismatch (9) optionMismatch (10) mtuMismatch (11) duplicateRouterId (12) noError (13)
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Verify that the interface configuration is correct.
2. If the issue persists, contact H3C Support.

ospfVirtIfConfigError

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.5	Virtual interface configuration error.	Error	Warning	-	ON

Description

A notification sent when an OSPF virtual interface on a router receives a packet from another router with mismatched configuration. The optionMismatch event causes a notification only if it prevents establishment of an adjacency.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virt-config-error` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virt-config-error` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.9.1.1 (ospfVirtIfAreaId)	ID of the area to which the virtual link belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.9.1.2 (ospfVirtIfNeighbor)	Router ID of the virtual neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.16.1.2 (ospfConfigErrorType)	Configuration error type.	No	INTEGER	badVersion (1) areaMismatch (2) unknownNbmaNbr (3) unknownVirtualNbr (4) authTypeMismatch(5) authFailure (6) netMaskMismatch (7) helloIntervalMismatch (8) deadIntervalMismatch (9) optionMismatch (10) mtuMismatch (11) duplicateRouterId (12) noError (13)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Verify that the virtual interface configuration is correct.
2. If the issue persists, contact H3C Support.

ospfIfAuthFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.6	Interface authentication failure.	Error	Warning	-	ON

Description

A notification sent when an interface on a router receives a packet from another router with mismatched authentication key or authentication type.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf authentication-failure` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf authentication-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.7.1.1 (ospfIfIpAddress)	IP address of the interface.	No	IpAddress	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.7.1.2 (ospfAddressLessIf)	Used to distinguish interface instances with addresses configured and those without addresses configured.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)
1.3.6.1.2.1.14.16.1.4 (ospfPacketSrc)	IP address that cannot be identified by a neighbor instance.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.16.1.2 (ospfConfigErrorType)	Configuration error type.	No	INTEGER	badVersion (1) areaMismatch (2) unknownNbmaNbr (3) unknownVirtualNbr (4) authTypeMismatch(5) authFailure (6) netMaskMismatch (7) helloIntervalMismatch (8) deadIntervalMismatch (9) optionMismatch (10) mtuMismatch (11) duplicateRouterId (12) noError (13)
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) IsReq (3) IsUpdate (4) IsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Verify that the interface authentication settings are correct.
2. If the issue persists, contact H3C Support.

ospfVirtIfAuthFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.7	Virtual interface authentication failure.	Error	Warning	-	ON

Description

A notification sent when an OSPF virtual interface on a router receives a packet from another router with mismatched authentication key or authentication type.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virt-authentication-failure` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virt-authentication-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.9.1.1 (ospfVirtIfAreaId)	ID of the area to which the virtual link belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.9.1.2 (ospfVirtIfNeighbor)	Router ID of the virtual neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.16.1.2 (ospfConfigErrorType)	Configuration error type.	No	INTEGER	badVersion (1) areaMismatch (2) unknownNbmaNbr (3) unknownVirtualNbr (4) authTypeMismatch(5) authFailure (6) netMaskMismatch (7) helloIntervalMismatch (8) deadIntervalMismatch (9) optionMismatch (10) mtuMismatch (11) duplicateRouterId (12) noError (13)
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Verify that the virtual interface authentication settings are correct.
2. If the issue persists, contact H3C Support.

ospfIfRxBadPacket

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.8	An interface receives an error packet.	Informational	-	-	ON

Description

A notification sent when an interface receives an OSPF packet that cannot be parsed.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf bad-packet` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf bad-packet` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.7.1.1 (ospfIfIpAddress)	IP address of the interface.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.7.1.2 (ospfAddressLessIf)	Used to distinguish interface instances with addresses configured and those without addresses configured.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)
1.3.6.1.2.1.14.16.1.4 (ospfPacketSrc)	IP address that cannot be identified by a neighbor.	No	IpAddress	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) IsReq (3) IsUpdate (4) IsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfVirtIfRxBadPacket

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.9	A virtual interface receives an error packet.	Informational	-	-	ON

Description

A notification sent when a virtual interface receives an OSPF packet that cannot be parsed.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virt-bad-packet` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virt-bad-packet` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.9.1.1 (ospfVirtIfAreaId)	ID of the area to which the virtual link belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.9.1.2 (ospfVirtIfNeighbor)	Router ID of the virtual neighbor.	No	RouterID	IpAddress

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfTxRetransmit

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.10	An interface retransmits an OSPF packet.	Informational	-	-	ON

Description

A notification sent when an interface retransmits an OSPF packet. All packets that might be retransmitted are associated with an LSDB entry, which is identified by the LS type, LS ID, and Router ID.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf retransmit` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf retransmit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.7.1.1 (ospfIfIpAddress)	IP address of the interface.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.7.1.2 (ospfAddressLessIf)	Used to distinguish interface instances with addresses configured and those without addresses configured.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.10.1.3 (ospfNbrRtrld)	Router ID of the neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)
1.3.6.1.2.1.14.4.1.2 (ospfLsdbType)	LSA type. Type-5 LSAs are not displayed.	No	INTEGER	routerLink (1) networkLink (2) summaryLink (3) asSummaryLink (4) asExternalLink (5) multicastLink (6) nssaExternalLink (7) areaOpaqueLink (10)
1.3.6.1.2.1.14.4.1.3 (ospfLsdbLsid)	LS ID.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.4.1.4 (ospfLsdbRouterId)	Router ID of the device that generates the LSA.	No	RouterID	IpAddress

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfVirtIfTxRetransmit

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.11	A virtual interface retransmits an OSPF packet.	Informational	-	-	ON

Description

A notification sent when a virtual interface retransmits an OSPF packet. All packets that might be retransmitted are associated with an LSDB entry, which is identified by the LS type, LS ID, and Router ID.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virt-retransmit` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virt-retransmit` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.9.1.1 (ospfVirtIfAreaId)	ID of the area to which the virtual link belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.9.1.2 (ospfVirtIfNeighbor)	Router ID of the virtual neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.16.1.3 (ospfPacketType)	OSPF packet type.	No	INTEGER	hello (1) dbDescript (2) lsReq (3) lsUpdate (4) lsAck (5) nullPacket (6)
1.3.6.1.2.1.14.4.1.2 (ospfLsdbType)	LSA type. Type-5 LSAs are not displayed.	No	INTEGER	routerLink (1) networkLink (2) summaryLink (3) asSummaryLink (4) asExternalLink (5) multicastLink (6) nssaExternalLink (7) areaOpaqueLink (10)
1.3.6.1.2.1.14.4.1.3 (ospfLsdbLsid)	LS ID	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.4.1.4 (ospfLsdbRouterId)	Router ID of the device that generates the LSA.	No	RouterID	IpAddress

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfOriginateLsa

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.12	The local device generates a new LSA.	Informational	-	-	ON

Description

A notification sent when the local device generates a new LSA. This notification is generated only when an LSA is originated because of a topology change. Flushing of aged LSAs and refreshes of LSAs will not trigger this notification.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf lsa-originate` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf lsa-originate` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.4.1.1 (ospfLsdbAreaId)	ID of the area from which the LSA was received.	No	AreaID	IpAddress
1.3.6.1.2.1.14.4.1.2 (ospfLsdbType)	LSA type. Type-5 LSAs are not displayed.	No	INTEGER	routerLink (1) networkLink (2) summaryLink (3) asSummaryLink (4) asExternalLink (5) multicastLink (6) nssaExternalLink (7) areaOpaqueLink (10)
1.3.6.1.2.1.14.4.1.3 (ospfLsdbLsid)	LS ID.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.4.1.4 (ospfLsdbRouterId)	Router ID of the device that generates the LSA.	No	RouterID	IpAddress

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfMaxAgeLsa

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.13	An LSA in the LSDB ages.	Informational	-	-	ON

Description

A notification sent when an LSA in the LSDB ages.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf lsa-maxage` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf lsa-maxage` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.4.1.1 (ospfLsdbAreaId)	ID of the area from which the LSA was received.	No	AreaID	IpAddress
1.3.6.1.2.1.14.4.1.2 (ospfLsdbType)	LSA type. Type-5 LSAs are not displayed.	No	INTEGER	routerLink (1) networkLink (2) summaryLink (3) asSummaryLink (4) asExternalLink (5) multicastLink (6) nssaExternalLink (7) areaOpaqueLink (10)
1.3.6.1.2.1.14.4.1.3 (ospfLsdbLsid)	LS ID.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.4.1.4 (ospfLsdbRouterId)	Router ID of the device that generates the LSA.	No	RouterID	IpAddress

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfLsdbOverflow

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.14	The number of LSAs in the LSDB of a device exceeds the	Error	Warning	-	ON

	upper limit.				
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Description

A notification sent when the number of LSAs in the LSDB of a device exceeds the upper limit.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf lsdb-overflow` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf lsdb-overflow` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.1.11 (ospfExtLsdbLimit)	Maximum number of non-default ASEs in the LSDB. A value of -1 indicates no limit.	No	Integer32	-1..'7FFFFFFF'h

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Reduce the number of LSAs.
2. If the issue persists, contact H3C Support.

ospfLsdbApproachingOverflow

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.15	The number of LSAs in the LSDB of a device reaches 90% the upper limit.	Error	Warning	-	ON

Description

A notification sent when the number of LSAs in the LSDB of a device reaches 90% the upper limit.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf lsdb-approaching-overflow` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf lsdb-approaching-overflow` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.1.11 (ospfExtLsdbLimit)	Maximum number of non-default ASEs in the LSDB. A value of -1 indicates no limit.	No	Integer32	-1..'7FFFFFFF'h

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve this issue:

1. Reduce the number of LSAs.
2. If the issue persists, contact H3C Support.

ospfIfStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.16	Interface state changes.	Informational	-	-	ON

Description

A notification sent when the state of an OSPF interface regresses (for example, changing from Dr to Down) or progresses to a terminal state (for example, Point-to-Point, DR Other, Dr, or Backup).

Status control

ON

CLI: Use the `snmp-agent trap enable ospf if-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf if-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.7.1.1 (ospfIfIpAddress)	IP address of the interface.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.7.1.2 (ospfAddressLessIf)	Used to distinguish interface instances with addresses configured and those without addresses configured.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)
1.3.6.1.2.1.14.7.1.12 (ospfIfState)	Interface state.	No	INTEGER	down (1) loopback (2) waiting (3) pointToPoint (4) designatedRouter (5) backupDesignatedRouter (6) otherDesignatedRouter (7)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfNssaTranslatorStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.17	A router's ability to translate OSPF type-7 LSAs into OSPF type-5 LSAs changes.	Informational	-	-	ON

Description

A notification sent when a router's ability to translate OSPF type-7 LSAs into OSPF type-5 LSAs changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf nssatranslator-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf nssatranslator-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.2.1.1 (ospfAreaId)	Area ID, a 32-bit integer that uniquely identifies an area.	No	AreaID	IpAddress
1.3.6.1.2.1.14.2.1.12 (ospfAreaNssaTranslatorState)	Method for the NSSA ABR to become capable of translating Type-7 LSAs into Type-5 LSAs.	No	INTEGER	enabled (1) elected (2) disabled (3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfRestartStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.18	GR restarter state changes.	Informational	-	-	ON

Description

A notification sent when the state of the GR restarter changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf grrestarter-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf grrestarter-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.1.21 (ospfRestartStatus)	GR restarter state.	No	INTEGER	notRestarting (1) plannedRestart (2) unplannedRestart (3)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.19 (ospfRestartInterval)	Graceful restart timeout interval.	No	Integer32	1..1800
1.3.6.1.2.1.14.1.23 (ospfRestartExitReason)	Reason why the GR restarter exited.	No	INTEGER	none (1) inProgress (2) completed (3) timedOut (4) topologyChanged (5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfNbrRestartHelperStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.19	GR helper state changes.	Informational	-	-	ON

Description

A notification sent when the GR helper state of a neighbor changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf grhelper-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf grhelper-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.10.1.1 (ospfNbrIpAddr)	IP address of the neighbor.	No	IpAddress	Standard MIB values.
1.3.6.1.2.1.14.10.1.2 (ospfNbrAddressLessIndex)	Set to 0 on an interface having an IP address, and set to the value of interface index in the Internet Standard MIB on an interface having no IP address.	No	InterfaceIndexOrZero	Integer32 (0..2147483647)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.10.1.3 (ospfNbrRtrId)	Router ID of the neighbor.	No	RouterID	IpAddress
1.3.6.1.2.1.14.10.1.12 (ospfNbrRestartHelperStatus)	GR helper state.	No	INTEGER	notHelping (1) helping (2)
1.3.6.1.2.1.14.10.1.13 (ospfNbrRestartHelperAge)	Remaining time of the GR interval when the router is acting as a GR helper for the neighbor.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.14.10.1.14 (ospfNbrRestartHelperExitReason)	Reason why the GR helper exited.	No	INTEGER	none (1) inProgress (2) completed (3) timedOut (4) topologyChanged (5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfVirtNbrRestartHelperStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.14.16.2.20	The GR helper state of a virtual neighbor changes.	Informational	-	-	ON

Description

A notification sent when the GR helper state of a virtual neighbor changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospf virtgrhelper-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospf virtgrhelper-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.1.1 (ospfRouterId)	Unique identifier of a router in an AS.	No	RouterID	IpAddress

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.14.11.1.1 (ospfVirtNbrArea)	ID of the area to which the virtual neighbor belongs.	No	AreaID	IpAddress
1.3.6.1.2.1.14.11.1.2 (ospfVirtNbrRtrId)	A 32-bit integer that uniquely identifies the neighboring router in the AS.	No	RouterID	IpAddress
1.3.6.1.2.1.14.11.1.9 (ospfVirtNbrRestartHelperStatus)	Whether the router is acting as a GR helper for the virtual neighbor.	No	INTEGER	notHelping (1) helping (2)
1.3.6.1.2.1.14.11.1.10 (ospfVirtNbrRestartHelperAge)	Remaining time of the GR interval when the router is acting as a GR helper for the neighbor.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.14.11.1.11 (ospfVirtNbrRestartHelperExit Reason)	Reason why the GR helper exited.	No	INTEGER	none (1) inProgress (2) completed (3) timedOut (4) topologyChanged (5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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OSPFV3-MIB

About this MIB

Use this MIB to obtain OSPFv3 information.

MIB file name

rfc5643-ospfv3.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ospfv3MIB(191)

Scalar objects

ospfv3RouterId

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RouterId (1.3.6.1.2.1.191.1.1.1)	read-write	Ospfv3RouterIdTC	Unsigned32(1..'FFFFFFFF'h)	Unique identifier of a router in an AS.	Supports only the read operation.

ospfv3AdminStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AdminStatus (1.3.6.1.2.1.191.1.1.2)	read-write	Status	INTEGER{ enabled (1), disabled (2) }	Enabled indicates that a minimum of one interface is in up state. Disabled indicates that no interface is in up state.	Supports only the read operation.

ospfv3VersionNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VersionNumber (1.3.6.1.2.1.191.1.1.3)	read-only	INTEGER	version3 (3)	Version number (3).	As per the MIB.

ospfv3AreaBdrRtrStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AreaBdrRtrStatus	read-only	TruthValue	true(1), false(2)	Whether the device is an ABR.	As per the MIB.

(1.3.6.1.2.1.191.1.1.4)					
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ospfv3ASBdrRtrStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3ASBdrRtrStatus (1.3.6.1.2.1.191.1.1.5)	read-write	TruthValue	true(1), false(2)	Whether the device is an ASBR.	Supports only the read operation.

ospfv3AsScopeLsaCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AsScopeLsaCount (1.3.6.1.2.1.191.1.1.6)	read-only	Gauge32	INTEGER(0..4294967295)	Number of AS external LSAs.	As per the MIB.

ospfv3AsScopeLsaCksumSum

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AsScopeLsaCksumSum (1.3.6.1.2.1.191.1.1.7)	read-only	Unsigned32	Standard MIB values.	Sum of checksums in external LSAs.	As per the MIB.

ospfv3OriginateNewLsas

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3OriginateNewLsas (1.3.6.1.2.1.191.1.1.8)	read-only	Counter32	INTEGER(0..4294967295)	Number of new LSAs that have been originated. This number is incremented each time the device originates a new LSA.	As per the MIB.

ospfv3RxNewLsas

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RxNewLsas (1.3.6.1.2.1.191.1.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of newly received LSAs, excluding self-originated LSAs.	As per the MIB.

ospfv3ExtLsaCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3ExtLsaCount (1.3.6.1.2.1.191.1.1.10)	read-only	Gauge32	INTEGER(0..4294967295)	Number of Type-5 LSAs.	As per the MIB.

ospfv3ExtAreaLsdbLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3ExtAreaLsdbLimit (1.3.6.1.2.1.191.1.1.11)	read-write	Integer32	Integer32(-1..'7FFFFFFF'h)	Maximum number of non-default ASEs in the LSDB. A value of -1 indicates no limit.	Supports only the read operation.

ospfv3ExitOverflowInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3ExitOverflowInterval (1.3.6.1.2.1.191.1.1.12)	read-write	Unsigned32	Standard MIB values.	Time that the router takes to leave the OverflowState. 0 indicates the router does not leave the OverflowState until it is restarted.	Supports only the read operation.

ospfv3DemandExtensions

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3DemandExtensions (1.3.6.1.2.1.191.1.1.13)	read-write	TruthValue	true(1), false(2)	Support for demand routing.	Supports only the read operation.

ospfv3ReferenceBandwidth

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3ReferenceBandwidth (1.3.6.1.2.1.191.1.1.14)	read-write	Unsigned32	Standard MIB values.	Reference bandwidth in Kbps for calculating the interface cost.	When the value is divided by 1000, the decimal number will be ignored.

ospfv3RestartSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartSupport (1.3.6.1.2.1.191.1.1.15)	read-write	INTEGER	none(1), plannedOnly(2), plannedAndUnplanned(3)	Support for GR.	If the value changes from 1 to 2 or 3, IETF GR is supported. If the value changes between 2 and 3, the original GR type remains unchanged.

ospfv3RestartInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartInterval (1.3.6.1.2.1.191.1.1.16)	read-write	Ospfv3UpToRefreshIntervalTC	Unsigned32 (40..1800)	GR timeout timer.	Value range: 40 to 1800.

ospfv3RestartStrictLsaChecking

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartStrictLsaChecking (1.3.6.1.2.1.191.1.1.17)	read-write	TruthValue	true(1), false(2)	Whether the strict LSA checking capability is enabled for GR.	Default: false(2).

ospfv3RestartStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartStatus (1.3.6.1.2.1.191.1.1.18)	read-only	INTEGER	notRestarting(1), plannedRestart(2), unplannedRestart(3)	Graceful restart state.	As per the MIB.

ospfv3RestartAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartAge (1.3.6.1.2.1.191.1.1.19)	read-only	Ospfv3UpToRefreshIntervalTC	Unsigned32 (1..1800)	Remaining time for the current graceful restart.	As per the MIB.

ospfv3RestartExitReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartExitReason (1.3.6.1.2.1.191.1.1.20)	read-only	INTEGER	none(1), inProgress(2), completed(3), timedOut(4), topologyChanged(5)	GR exit reason.	As per the MIB.

ospfv3NotificationEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3NotificationEnable (1.3.6.1.2.1.191.1.1.21)	read-write	TruthValue	true(1), false(2)	Whether OSPFv3 notification is enabled.	If the value of this object is true(1), all OSPFv3 notifications are enabled.

ospfv3StubRouterSupport

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3StubRouterSupport (1.3.6.1.2.1.191.1.1.22)	read-only	TruthValue	true(1), false(2)	Support for stub router.	As per the MIB.

ospfv3StubRouterAdvertisement

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3StubRouterAdvertisement (1.3.6.1.2.1.191.1.1.23)	read-write	INTEGER	doNotAdvertise (1), advertise(2)	Whether to advertise stub router LSAs.	As per the MIB.

ospfv3DiscontinuityTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3DiscontinuityTime (1.3.6.1.2.1.191.1.1.24)	read-only	TimeStamp	TimeTicks	Most recent system startup time.	As per the MIB.

ospfv3RestartTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3RestartTime (1.3.6.1.2.1.191.1.1.25)	read-only	TimeStamp	TimeTicks	Time when the most recent GR occurred.	As per the MIB.

Tabular objects

ospfv3AreaTable

About this table

This table contains parameter and statistics information about each area on the device.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ospfv3Areald.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3Areald (1.3.6.1.2.1.191.1.2.1.1)	not-accessible	Ospfv3ArealdTC	Unsigned32 (0..FFFFFFFF'h)	Area ID, a 32-bit integer that uniquely identifies an area.	As per the MIB.
ospfv3AreaImportAsExtern (1.3.6.1.2.1.191.1.2.1.2)	read-create	INTEGER	importExternal(1), importNoExternal(2), importNssa(3)	Area type, stub, NSSA, or common area.	Supports only the read operation.
ospfv3AreaSpfRuns (1.3.6.1.2.1.191.1.2.1.3)	read-only	Counter32	INTEGER(0..4294967295)	Time of route calculations in the area.	As per the MIB.
ospfv3AreaBdrRtrCount (1.3.6.1.2.1.191.1.2.1.4)	read-only	Gauge32	INTEGER(0..4294967295)	Number of reachable ABRs in the area.	As per the MIB.
ospfv3AreaAsBdrRtrCount (1.3.6.1.2.1.191.1.2.1.5)	read-only	Gauge32	INTEGER(0..4294967295)	Number of reachable ASBRs in the area.	As per the MIB.
ospfv3AreaScopeLsaCount (1.3.6.1.2.1.191.1.2.1.6)	read-only	Gauge32	INTEGER(0..4294967295)	Number of LSAs in the LSDB of the area.	As per the MIB.
ospfv3AreaScopeLsaChecksumSum (1.3.6.1.2.1.191.1.2.1.7)	read-only	Unsigned32	Standard MIB values.	Sum of the checksums of the LSAs in the area.	As per the MIB.
ospfv3AreaSummary (1.3.6.1.2.1.191.1.2.1.8)	read-create	INTEGER	noAreaSummary(1), sendAreaSummary(2)	Whether to send summary LSAs to stub and NSSA areas.	Supports read and write operations.
ospfv3AreaRowStatus (1.3.6.1.2.1.191.1.2.1.9)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Area state.	Supports only the read operation.
ospfv3AreaStubMetric (1.3.6.1.2.1.191.1.2.1.10)	read-create	BigMetric	Integer32(0..16777215)	Cost of the default route advertised to a stub or NSSA area.	Supports read and write operations. Default: 1. Value range: 0 to 16777214.
ospfv3AreaNssaTranslatorRole (1.3.6.1.2.1.191.1.2.1.11)	read-create	INTEGER	always(1), candidate(2)	Ability of the NSSA ABR to translate Type-7 LSAs into	Supports read and write operations.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				Type-5 LSAs.	
ospfv3AreaNssaTranslat orState (1.3.6.1.2.1.191.1.2.1.12)	read-only	INTEGER	enabled(1), elected(2), disabled(3)	State for the NSSA ABR to become capable of translating Type-7 LSAs into Type-5 LSAs.	As per the MIB.
ospfv3AreaNssaTranslat orStabInterval (1.3.6.1.2.1.191.1.2.1.13)	read-create	Unsigned32	Standard MIB values.	Time period during which the elected translator continues to perform translation after determining that its services are no longer required.	Supports read and write operations. Default: 0. Value range: 0 to 900.
ospfv3AreaNssaTranslat orEvents (1.3.6.1.2.1.191.1.2.1.14)	read-only	Counter32	INTEGER(0..42 94967295)	Number of role changes.	As per the MIB.
ospfv3AreaStubMetricTy pe (1.3.6.1.2.1.191.1.2.1.15)	read-create	INTEGER	ospfv3Metric(1), ableCost(2), mparable(3)	Cost type of the default route advertised to a stub or NSSA area.	Supports only the read operation.
ospfv3AreaTEEnabled (1.3.6.1.2.1.191.1.2.1.16)	read-create	TruthValue	true(1), false(2)	Whether TE is enabled.	Supports only the read and write operations.

ospfv3AsLsdbTable

About this table

This table contains information about LSDB information of an AS.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3AsLsdbType, ospfv3AsLsdbRouterId, and ospfv3AsLsdbLsid.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AsLsdbType (1.3.6.1.2.1.191.1.3.1.1)	not-accessible	Unsigned32	Unsigned32(0.. 'FFFFFFFF'h)	LSA type.	As per the MIB.
ospfv3AsLsdbRouterId (1.3.6.1.2.1.191.1.3.1.2)	not-accessible	Ospfv3Route rIdTC	Unsigned32(1.. 'FFFFFFFF'h)	Router ID of the device that generates the LSA.	As per the MIB.
ospfv3AsLsdbLsid (1.3.6.1.2.1.191.1.3.1.3)	not-accessible	Ospfv3LsIdT C	Unsigned32 (1..'FFFFFFFF' 'h)	LS ID.	As per the MIB.
ospfv3AsLsdbSequence	read-only	Ospfv3LsaS	Integer32	LSA sequence	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.191.1.3.1.4)		sequenceTC		number.	
ospfv3AsLsdbAge (1.3.6.1.2.1.191.1.3.1.5)	read-only	Ospfv3LsaAgeTC	Unsigned32 (0..3600)	LSA age.	As per the MIB.
ospfv3AsLsdbChecksum (1.3.6.1.2.1.191.1.3.1.6)	read-only	Integer32	Standard MIB values.	Checksum.	As per the MIB.
ospfv3AsLsdbAdvertisement (1.3.6.1.2.1.191.1.3.1.7)	read-only	OCTET STRING	OCTET STRING(1..65 535)	LSA information, including the header.	As per the MIB.
ospfv3AsLsdbTypeKnown (1.3.6.1.2.1.191.1.3.1.8)	read-only	TruthValue	true(1), false(2)	Whether the LSA type is unknown.	As per the MIB.

ospfv3AreaLsdbTable

About this table

This table contains information about LSDB information of an area.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3AreaLsdbAreaId, ospfv3AreaLsdbType, ospfv3AreaLsdbRouterId, and ospfv3AreaLsdbLsid.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AreaLsdbAreaId (1.3.6.1.2.1.191.1.4.1.1)	not-accessible	Ospfv3AreaIdTC	Unsigned32 (0..'FFFFFFFF'h)	Area from which the LSA was received.	As per the MIB.
ospfv3AreaLsdbType (1.3.6.1.2.1.191.1.4.1.2)	not-accessible	Unsigned32	Unsigned32(0..'FFFFFFFF'h)	LSA type.	As per the MIB.
ospfv3AreaLsdbRouterId (1.3.6.1.2.1.191.1.4.1.3)	not-accessible	Ospfv3RouterIdTC	Unsigned32(1..'FFFFFFFF'h)	Router ID of the device that generates the LSA.	As per the MIB.
ospfv3AreaLsdbLsid (1.3.6.1.2.1.191.1.4.1.4)	not-accessible	Ospfv3LsidTC	Unsigned32 (1..'FFFFFFFF'h)	LS ID.	As per the MIB.
ospfv3AreaLsdbSequence (1.3.6.1.2.1.191.1.4.1.5)	read-only	Ospfv3LsaSequenceTC	Integer32	LSA sequence number.	As per the MIB.
ospfv3AreaLsdbAge (1.3.6.1.2.1.191.1.4.1.6)	read-only	Ospfv3LsaAgeTC	Unsigned32 (0..3600)	LSA age.	As per the MIB.
ospfv3AreaLsdbChecksum (1.3.6.1.2.1.191.1.4.1.7)	read-only	Integer32	Standard MIB values.	Checksum.	As per the MIB.
ospfv3AreaLsdbAdvertisement	read-only	OCTET STRING	OCTET STRING(1..6553	LSA information, including the	As per the MIB.

(1.3.6.1.2.1.191.1.4.1.8)			5)	header.	
ospfv3AreaLsdbTypeKnown (1.3.6.1.2.1.191.1.4.1.9)	read-only	TruthValue	true(1), false(2)	Whether the LSA type is unknown.	As per the MIB.

ospfv3LinkLsdbTable

About this table

This table contains link-scope LSDB information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3LinkLsdbIfIndex, ospfv3LinkLsdbIfInstId, ospfv3LinkLsdbType, ospfv3LinkLsdbRouterId, and ospfv3LinkLsdbLsid.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3LinkLsdbIfIndex (1.3.6.1.2.1.191.1.5.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Interface index.	As per the MIB.
ospfv3LinkLsdbIfInstId (1.3.6.1.2.1.191.1.5.1.2)	not-accessible	Ospfv3IfInstIdTC	Unsigned32(0..255)	Instance ID.	As per the MIB.
ospfv3LinkLsdbType (1.3.6.1.2.1.191.1.5.1.3)	not-accessible	Unsigned32	Unsigned32(0..'FFFFFFFF'h)	LSA type.	As per the MIB.
ospfv3LinkLsdbRouterId (1.3.6.1.2.1.191.1.5.1.4)	not-accessible	Ospfv3RouterIdTC	Unsigned32(1..'FFFFFFFF'h)	Router ID of the device that generates the LSA.	As per the MIB.
ospfv3LinkLsdbLsid (1.3.6.1.2.1.191.1.5.1.5)	not-accessible	Ospfv3LsidTC	Unsigned32(1..'FFFFFFFF'h)	LS ID.	As per the MIB.
ospfv3LinkLsdbSequence (1.3.6.1.2.1.191.1.5.1.6)	read-only	Ospfv3LsaSequenceTC	Integer32	LSA sequence number.	As per the MIB.
ospfv3LinkLsdbAge (1.3.6.1.2.1.191.1.5.1.7)	read-only	Ospfv3LsaAgeTC	Unsigned32(0..3600)	LSA age.	As per the MIB.
ospfv3LinkLsdbChecksum (1.3.6.1.2.1.191.1.5.1.8)	read-only	Integer32	Standard MIB values.	Checksum.	As per the MIB.
ospfv3LinkLsdbAdvertisement (1.3.6.1.2.1.191.1.5.1.9)	read-only	OCTET STRING	OCTET STRING(1..65535)	LSA information, including the header.	As per the MIB.
ospfv3LinkLsdbTypeKnown (1.3.6.1.2.1.191.1.5.1.10)	read-only	TruthValue	true(1), false(2)	Whether the LSA type is unknown.	As per the MIB.

ospfv3HostTable

About this table

This table contains host route information (not supported in the current software version).

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ospfv3HostAddressType and ospfv3HostAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3HostAddressType (1.3.6.1.2.1.191.1.6.1.)	not-accessible	InetAddressType	unknown(0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Host route address type.	Not supported
ospfv3HostAddress (1.3.6.1.2.1.191.1.6.2.)	not-accessible	InetAddress	OCTET STRING(0..255)	Host route address.	Not supported
ospfv3HostMetric (1.3.6.1.2.1.191.1.6.3.)	read-create	Metric	Integer32(0..'FFFF'h)	Host route cost.	Not supported
ospfv3HostRowStatus (1.3.6.1.2.1.191.1.6.4.)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Not supported
ospfv3HostAreaID (1.3.6.1.2.1.191.1.6.5.)	read-create	Ospfv3AreaIdTC	Unsigned32 (0..'FFFFFFFF'h)	ID of the area to which the host route belongs.	Not supported

ospfv3IfTable

About this table

This table contains OSPFv3 interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfv3IfIndex and ospfv3IfInstId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3IfIndex (1.3.6.1.2.1.191.1.7.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Interface index.	As per the MIB.
ospfv3IfInstId (1.3.6.1.2.1.191.1.7.1.2)	not-accessible	Ospfv3IfInstIdTC	Unsigned32(0..255)	Interface instance ID.	As per the MIB.
ospfv3IfAreaId (1.3.6.1.2.1.191.1.7.1.3)	read-create	Ospfv3AreaIdTC	Unsigned32(0..'FFFFFFF'h)	Area ID.	Supports only the read operation.
ospfv3IfType (1.3.6.1.2.1.191.1.7.1.4)	read-create	INTEGER	broadcast(1), nbma(2), pointToPoint(3), pointToMultiPoint(5)	Interface type.	Supports read and write operations. Loopback interfaces do not support the write operation.
ospfv3IfAdminStatus (1.3.6.1.2.1.191.1.7.1.5)	read-create	Status	INTEGER{ enabled (1), disabled (2) }	Administrative state of the interface.	Supports only the read operation.
ospfv3IfRtrPriority (1.3.6.1.2.1.191.1.7.1.6)	read-create	DesignatedRouterPriority	Integer32(0..'FF'h)	DR priority of the interface.	Supports read and write operations. Loopback interfaces do not support the write operation.
ospfv3IfTransitDelay (1.3.6.1.2.1.191.1.7.1.7)	read-create	Ospfv3UpToRefreshIntervalTC	Unsigned32(1..1800)	LSA transmission delay.	Supports read and write operations. Loopback interfaces do not support the write operation. Value range: 1 to 1800.
ospfv3IfRetransInterval (1.3.6.1.2.1.191.1.7.1.8)	read-create	Ospfv3UpToRefreshIntervalTC	Unsigned32(1..1800)	Retransmission interval of the interface.	Supports read and write operations. Loopback interfaces do not support the write operation. Value range: 1 to 1800.
ospfv3IfHelloInterval (1.3.6.1.2.1.191.1.7.1.9)	read-create	HelloRange	Integer32(1..'FFFF'h)	Hello interval of the interface.	Supports read and write operations. Loopback interfaces do not support the write operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3IfRtrDeadInterval (1.3.6.1.2.1.191.1.7.1.10)	read-create	Ospfv3DeadIntervalRangeTC	Integer32(1..'FFFF'h)	Dead interval.	Supports read and write operations. Loopback interfaces do not support the write operation. When the value of ospfv3IfRtrDeadInterval is larger than 65535, this object returns 65535.
ospfv3IfPollInterval (1.3.6.1.2.1.191.1.7.1.11)	read-create	Unsigned32	Standard MIB values.	Poll interval.	Supports read and write operations. Value range: 1 to 65535. Loopback interfaces do not support the write operation.
ospfv3IfState (1.3.6.1.2.1.191.1.7.1.12)	read-only	INTEGER	down(1), loopback(2), waiting(3), pointToPoint(4), designatedRouter(5), backupDesignatedRouter(6), otherDesignatedRouter(7), standby(8)	Interface state.	As per the MIB.
ospfv3IfDesignatedRouter (1.3.6.1.2.1.191.1.7.1.13)	read-only	Ospfv3RouteIdTC	Unsigned32(1..'FFFFFFF'h)	DR address.	As per the MIB.
ospfv3IfBackupDesignatedRouter (1.3.6.1.2.1.191.1.7.1.14)	read-only	Ospfv3RouteIdTC	Unsigned32(1..'FFFFFFF'h)	BDR address.	As per the MIB.
ospfv3IfEvents(1.3.6.1.2.1.191.1.7.1.15)	read-only	Counter32	INTEGER(0..4294967295)	Number of interface state changes.	As per the MIB.
ospfv3IfRowStatus (1.3.6.1.2.1.191.1.7.1.16)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.
ospfv3IfDemand (1.3.6.1.2.1.191.1.7.1.17)	read-create	TruthValue	true(1), false(2)	Whether the interface performs demand routing.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3IfMetricValue (1.3.6.1.2.1.191.1.7.1.18)	read-create	Metric	Integer32(0.. 'FFFF'h)	Interface cost.	Supports read and write operations. Value range for loopback interfaces: 0 to 65535. Value range for other interfaces: 1 to 65535.
ospfv3IfLinkScopeLsaCount (1.3.6.1.2.1.191.1.7.1.19)	read-only	Gauge32	INTEGER(0.. 4294967295)	Number of link-scope LSAs.	As per the MIB.
ospfv3IfLinkLsaCksumSum (1.3.6.1.2.1.191.1.7.1.20)	read-only	Unsigned32	Standard MIB values.	LSA checksum.	As per the MIB.
ospfv3IfDemandNbrProbe (1.3.6.1.2.1.191.1.7.1.21)	read-create	TruthValue	true(1), false(2)	Whether neighbor probing is enabled.	Supports only the read operation.
ospfv3IfDemandNbrProbeRe transLimit (1.3.6.1.2.1.191.1.7.1.22)	read-create	Unsigned32	Standard MIB values.	Number of neighbor probing times.	Supports only the read operation.
ospfv3IfDemandNbrProbeInt erval (1.3.6.1.2.1.191.1.7.1.23)	read-create	Unsigned32	Standard MIB values.	Neighbor probing interval.	Supports only the read operation.
ospfv3IfTEDisabled (1.3.6.1.2.1.191.1.7.1.24)	read-create	TruthValue	true(1), false(2)	Whether TE is enabled on the interface.	Supports only the read operation. The value is fixed at false(2).
ospfv3IfLinkLSASuppression (1.3.6.1.2.1.191.1.7.1.25)	read-create	TruthValue	true(1), false(2)	Whether LSA suppression is enabled.	Supports only the read operation. The value is fixed at false(2).

ospfv3VirtIfTable

About this table

This table contains OSPFv3 virtual interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfv3VirtIfAreaid and ospfv3VirtIfNeighbor.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VirtIfAreaid (1.3.6.1.2.1.191.1.8.1.1)	not-accessible	Ospfv3Areal dTC	Unsigned32 (0.. 'FFFFFFF'h)	ID of the area to which the virtual interface belongs.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VirtIfNeighbor (1.3.6.1.2.1.191.1.8.1.2)	not-accessible	Ospfv3Route rIdTC	Unsigned32(1.. 'FFFFFFF'h)	Router ID of the virtual neighbor.	As per the MIB.
ospfv3VirtIfIndex (1.3.6.1.2.1.191.1.8.1.3)	read-only	InterfaceInde x	Integer32(1..2 147483647)	Virtual interface index.	As per the MIB.
ospfv3VirtIfInstId (1.3.6.1.2.1.191.1.8.1.4)	read-only	Ospfv3IfInstl dTC	Unsigned32(0.. .255)	Virtual interface instance ID.	As per the MIB.
ospfv3VirtIfTransitDelay (1.3.6.1.2.1.191.1.8.1.5)	read-create	Ospfv3UpTo RefreshInter valTC	Unsigned32 (1..1800)	Transmission delay of the virtual interface.	Supports read and write operations. Value range: 1 to 1800.
ospfv3VirtIfRetransInterv al (1.3.6.1.2.1.191.1.8.1.6)	read-create	Ospfv3UpTo RefreshInter valTC	Unsigned32 (1..1800)	Retransmission interval of the virtual interface.	Supports read and write operations. Value range: 1 to 1800.
ospfv3VirtIfHelloInterval (1.3.6.1.2.1.191.1.8.1.7)	read-create	HelloRange	Integer32(1..'F FFF'h)	Hello interval of the virtual interface.	Supports read and write operations. Value range: 1 to 8192.
ospfv3VirtIfRtrDeadInterv al (1.3.6.1.2.1.191.1.8.1.8)	read-create	Ospfv3Deadl ntervalRang eTC	Integer32(1..'F FFF'h)	Dead interval of the virtual interface.	Supports read and write operations. Default: 40. Value range: 1 to 32768.
ospfv3VirtIfState (1.3.6.1.2.1.191.1.8.1.9)	read-only	INTEGER	down(1), pointToPoint(4)	Virtual interface state.	As per the MIB.
ospfv3VirtIfEvents (1.3.6.1.2.1.191.1.8.1.10)	read-only	Counter32	INTEGER(0..4 294967295)	Number of virtual interface state changes.	As per the MIB.
ospfv3VirtIfRowStatus (1.3.6.1.2.1.191.1.8.1.11)	read-create	RowStatus	active(1), notInService(2) notReady(3), createAndGo(4), createAndWait (5), destroy(6)	Row status.	Supports only the read operation.
ospfv3VirtIfLinkScopeLsa Count (1.3.6.1.2.1.191.1.8.1.12)	read-only	Gauge32	INTEGER(0..4 294967295)	Number of link LSAs on the virtual interface.	As per the MIB.
ospfv3VirtIfLinkLsaCksu mSum (1.3.6.1.2.1.191.1.8.1.13)	read-only	Unsigned32	Standard MIB values.	Sum of checksums in link-scope LSAs.	As per the MIB.

ospfv3NbrTable

About this table

This table contains OSPFv3 neighbor information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3NbrIfIndex, ospfv3NbrIfInstId, and ospfv3NbrRtrId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3NbrIfIndex (1.3.6.1.2.1.191.1.9.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Egress interface index.	As per the MIB.
ospfv3NbrIfInstId (1.3.6.1.2.1.191.1.9.1.2)	not-accessible	Ospfv3IfInstIdTC	Unsigned32(0..255)	Egress interface instance ID.	As per the MIB.
ospfv3NbrRtrId (1.3.6.1.2.1.191.1.9.1.3)	not-accessible	Ospfv3RouterIdTC	Unsigned32(1..'FFFF'FFF'h)	Router ID of the neighbor.	As per the MIB.
ospfv3NbrAddressType (1.3.6.1.2.1.191.1.9.1.4)	read-only	InetAddressType	unknown(0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Neighbor address type.	As per the MIB.
ospfv3NbrAddress (1.3.6.1.2.1.191.1.9.1.5)	read-only	InetAddress	OCTET STRING(0..255)	Neighbor address.	As per the MIB.
ospfv3NbrOptions (1.3.6.1.2.1.191.1.9.1.6)	read-only	Integer32	Standard MIB values.	Priority of the neighbor.	As per the MIB.
ospfv3NbrPriority (1.3.6.1.2.1.191.1.9.1.7)	read-only	DesignatedRouterPriority	Integer32(0..'FF'h)	Option field of the neighbor.	As per the MIB.
ospfv3NbrState (1.3.6.1.2.1.191.1.9.1.8)	read-only	INTEGER	down(1), attempt(2), init(3), twoWay(4), exchangeStart(5), exchange(6), loading(7), full(8)	Neighbor state.	As per the MIB.
ospfv3NbrEvents (1.3.6.1.2.1.191.1.9.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of neighbor state changes.	As per the MIB.
ospfv3NbrLsRetransQLen (1.3.6.1.2.1.191.1.9.1.10)	read-only	Gauge32	INTEGER(0..4294967295)	Retransmission queue length.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3NbrHelloSuppressed (1.3.6.1.2.1.191.1.9.1.11)	read-only	TruthValue	true(1), false(2)	Whether hello packets are being suppressed to the neighbor.	As per the MIB.
ospfv3NbrIfId (1.3.6.1.2.1.191.1.9.1.12)	read-only	InterfaceIndex	Integer32(1..2147483647)	Neighbor interface ID.	As per the MIB.
ospfv3NbrRestartHelperStatus (1.3.6.1.2.1.191.1.9.1.13)	read-only	INTEGER	notHelping(1), helping(2)	Whether the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfv3NbrRestartHelperAge (1.3.6.1.2.1.191.1.9.1.14)	read-only	Ospfv3UpToRefreshInterval	Unsigned32 (1..1800)	Remaining time of the GR interval when the router is acting as a GR helper for the neighbor.	As per the MIB.
ospfv3NbrRestartHelperExitReason (1.3.6.1.2.1.191.1.9.1.15)	read-only	INTEGER	none(1), inProgress(2), completed(3), timedOut(4), topologyChanged(5)	GR helper exit reason.	As per the MIB.

ospfv3CfgrTable

About this table

This table contains OSPFv3 neighbor information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfv3CfgrIfIndex, ospfv3CfgrIfInstId, ospfv3CfgrAddressType, and ospfv3CfgrAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3CfgrIfIndex (1.3.6.1.2.1.191.1.10.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Configured neighbor interface index.	As per the MIB.
ospfv3CfgrIfInstId (1.3.6.1.2.1.191.1.10.1.2)	not-accessible	Ospfv3IfInstId	Unsigned32(0..255)	Configured neighbor interface instance ID.	As per the MIB.

ospfv3CfgNbrAddressType (1.3.6.1.2.1.191.1.10.1.3)	not-accessible	InetAddressType	unknown(0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Configured neighbor address type.	As per the MIB.
ospfv3CfgNbrAddress (1.3.6.1.2.1.191.1.10.1.4)	not-accessible	InetAddress	OCTET STRING(0..255)	Configured neighbor address.	As per the MIB.
ospfv3CfgNbrPriority (1.3.6.1.2.1.191.1.10.1.5)	read-create	DesignatedRouterPriority	Integer32(0..FF'h)	Configured neighbor priority.	Supports read and write operations. Only neighbors on an NBMA network support the write operation.
ospfv3CfgNbrRowStatus (1.3.6.1.2.1.191.1.10.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.

ospfv3VirtNbrTable

About this table

This table contains OSPFv3 virtual neighbor information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3VirtNbrArea and ospfv3VirtNbrRtrId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VirtNbrArea (1.3.6.1.2.1.191.1.11.1.1)	not-accessible	Ospfv3AreaIdTC	Unsigned32(0..FFFFFF'h)	Area to which the virtual neighbor belongs.	As per the MIB.
ospfv3VirtNbrRtrId (1.3.6.1.2.1.191.1.11.1.2)	not-accessible	Ospfv3RouterIdTC	Unsigned32(1..FFFFFF'h)	Router ID of the virtual neighbor.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VirtNbrIfIndex (1.3.6.1.2.1.191.1.11.1.3)	read-only	InterfaceIndex	Integer32(1..2147483647)	Virtual interface index.	As per the MIB.
ospfv3VirtNbrIfInstId (1.3.6.1.2.1.191.1.11.1.4)	read-only	Ospfv3IfInstId TC	Unsigned32(0..255)	Virtual interface instance ID.	As per the MIB.
ospfv3VirtNbrAddressType (1.3.6.1.2.1.191.1.11.1.5)	read-only	InetAddressType	unknown(0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Virtual neighbor address type.	As per the MIB.
ospfv3VirtNbrAddress (1.3.6.1.2.1.191.1.11.1.6)	read-only	InetAddress	OCTET STRING(0..255)	Virtual neighbor address.	As per the MIB.
ospfv3VirtNbrOptions (1.3.6.1.2.1.191.1.11.1.7)	read-only	Integer32	Standard MIB values.	Option field of the virtual neighbor.	As per the MIB.
ospfv3VirtNbrState (1.3.6.1.2.1.191.1.11.1.8)	read-only	INTEGER	down(1), attempt(2), init(3), twoWay(4), exchangeStart(5), exchange(6), loading(7), full(8)	State of the virtual neighbor.	As per the MIB.
ospfv3VirtNbrEvents (1.3.6.1.2.1.191.1.11.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Number of virtual neighbor state changes.	As per the MIB.
ospfv3VirtNbrLsRetransQLen (1.3.6.1.2.1.191.1.11.1.10)	read-only	Gauge32	INTEGER(0..4294967295)	Retransmission queue length.	As per the MIB.
ospfv3VirtNbrHelloSuppressed (1.3.6.1.2.1.191.1.11.1.11)	read-only	TruthValue	true(1), false(2)	Whether hello packets are being suppressed to the virtual neighbor.	As per the MIB.
ospfv3VirtNbrIfId (1.3.6.1.2.1.191.1.11.1.12)	read-only	InterfaceIndex	Integer32(1..2147483647)	Neighbor interface ID.	As per the MIB.
ospfv3VirtNbrRestartHelperStatus (1.3.6.1.2.1.191.1.11.1.13)	read-only	INTEGER	notHelping(1), helping(2)	Whether the router is acting as a GR helper for the virtual neighbor.	As per the MIB.
ospfv3VirtNbrRestartHelperAge (1.3.6.1.2.1.191.1.11.1.14)	read-only	Ospfv3UpToRefreshIntervalTC	Unsigned32(1..1800)	Remaining time of the GR interval when the router is acting as a GR helper for the virtual neighbor.	As per the MIB.
ospfv3VirtNbrRestartHelperExitReason	read-only	INTEGER	none(1), inProgress	GR helper exit reason.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.191.1.11.1.15)			(2), completed(3), timedOut(4), topologyChanged(5)		

ospfv3AreaAggregateTable

About this table

This table contains information about configured OSPFv3 summary routes.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ospfv3AreaAggregateAreaID, ospfv3AreaAggregateAreaLsdbType, ospfv3AreaAggregatePrefixType, ospfv3AreaAggregatePrefix, and ospfv3AreaAggregatePrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3AreaAggregateAreaID (1.3.6.1.2.1.191.1.12.1.1)	not-accessible	Ospfv3AreaIDTC	Unsigned 32 (0..FFFF FFFF'h)	Area where the summary route resides.	As per the MIB.
ospfv3AreaAggregateAreaLsdbType (1.3.6.1.2.1.191.1.12.1.2)	not-accessible	INTEGER	interAreaPrefixLsa (8195), nssaExternalLsa(8199)	LSA type.	As per the MIB.
ospfv3AreaAggregatePrefixType (1.3.6.1.2.1.191.1.12.1.3)	not-accessible	InetAddressType	unknown (0), ipv4(1), ipv6(2), ipv4z(3), ipv6z(4), dns(16)	Summary network address type.	As per the MIB.
ospfv3AreaAggregatePrefix (1.3.6.1.2.1.191.1.12.1.4)	not-accessible	InetAddress	OCTET STRING(0..16)	Summary network address.	As per the MIB.
ospfv3AreaAggregatePrefixLength (1.3.6.1.2.1.191.1.12.1.5)	not-accessible	InetAddressPrefixLength	Unsigned 32(3..128)	Summary network address length.	As per the MIB.
ospfv3AreaAggregateRowStat	read-create	RowStat	active(1),	Row status.	Supports only the read

us (1.3.6.1.2.1.191.1.12.1.6)		us	notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)		operation.
ospfv3AreaAggregateEffect (1.3.6.1.2.1.191.1.12.1.7)	read-create	INTEGER	advertiseMatching(1), doNotAdvertiseMatching(2)	Whether subnets are included in the summary route.	Supports read and write operations.
ospfv3AreaAggregateRouteTag (1.3.6.1.2.1.191.1.12.1.8)	read-create	Unsigned 32	Standard MIB values.	Tag information.	Supports read and write operations.

ospfv3VirtLinkLsdbTable

About this table

This table contains OSPFv3 link-scope LSDB information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ospfv3VirtLinkLsdbIfAreaId, ospfv3VirtLinkLsdbIfNeighbor, ospfv3VirtLinkLsdbType, ospfv3VirtLinkLsdbRouterId, and ospfv3VirtLinkLsdbLsid.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ospfv3VirtLinkLsdbIfAreaId (1.3.6.1.2.1.191.1.13.1.1)	not-accessible	Ospfv3AreaIdTC	Unsigned 32 (0..'FFFF FFFF'h)	ID of the area to which the virtual link belongs.	As per the MIB.
ospfv3VirtLinkLsdbIfNeighbor(1.3.6.1.2.1.191.1.13.1.2)	not-accessible	Ospfv3RouterIdTC	Unsigned 32(1..'FFFFFFFF'h)	Router ID of the virtual neighbor.	As per the MIB.
ospfv3VirtLinkLsdbType (1.3.6.1.2.1.191.1.13.1.3)	not-accessible	Unsigned 32	Unsigned 32(0..'FFFFFFFF'h)	LSA type.	As per the MIB.
ospfv3VirtLinkLsdbRouterId (1.3.6.1.2.1.191.1.13.1.4)	not-accessible	Ospfv3RouterIdTC	Unsigned 32(1..'FFFFFFFF'h)	Router ID of the device that generates the LSA.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
		C	h)		
ospfv3VirtLinkLsdbLsid (1.3.6.1.2.1.191.1.13.1.5)	not-accessible	Ospfv3Ls IdTC	Unsigned 32 (1..'FFFF FFFF'h)	LSA LS ID.	As per the MIB.
ospfv3VirtLinkLsdbSequence(1.3. 6.1.2.1.191.1.13.1.6)	read-only	Ospfv3Ls aSequen ceTC	Integer32	LSA sequence number.	As per the MIB.
ospfv3VirtLinkLsdbAge (1.3.6.1.2.1.191.1.13.1.7)	read-only	Ospfv3Ls aAgeTC	Unsigned 32 (0..3600)	LSA age.	As per the MIB.
ospfv3VirtLinkLsdbChecksum(1.3. 6.1.2.1.191.1.13.1.8)	read-only	Integer32	Standard MIB values.	LSA checksum information.	As per the MIB.
ospfv3VirtLinkLsdbAdvertisement (1.3.6.1.2.1.191.1.13.1.9)	read-only	OCTET STRING	OCTET STRING(1..65535)	LSA advertisement content.	As per the MIB.
ospfv3VirtLinkLsdbTypeKnown (1.3.6.1.2.1.191.1.13.1.10)	read-only	TruthVal ue	true(1), false(2)	Whether the LSA type is known.	As per the MIB.

Notifications

ospfv3VirtIfStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.1	Virtual interface state changes.	Informational	-	-	ON

Description

A notification sent when the state of a virtual interface changes to Point-to-Point or changes from Point-to-Point to another state. To reduce unnecessary notifications caused by virtual interface up events, no virtual interface state change notification will be sent within 2 times the dead interval since the virtual interface state changes to a value other than DOWN.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 virtif-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 virtif-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.8.1.9 (ospfv3VirtIfState)	Virtual interface state.	No	INTEGER	down(1) pointToPoint(4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3NbrStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.2	Neighbor state changes.	Informational	-	-	ON

Description

For DR and BDR, this notification is sent when the state of a neighbor changes to FULL or changes from FULL to another state. For DRother, this notification is sent when the state of a neighbor changes to 2-way or changes from 2-way to another state.

To reduce unnecessary notifications caused by interface up events, no neighbor state change notification will be sent within 2 times the dead interval since the interface state changes to a value other than DOWN.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 neighbor-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 neighbor-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.9.1.8 (ospfv3NbrState)	Neighbor state.	No	INTEGER	down(1) attempt(2) init(3) twoWay(4) exchangeStart(5) exchange(6) loading(7) full(8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check whether the interface state has changed.

ospfv3VirtNbrStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.3	Virtual neighbor state changes.	Informational	-	-	ON

Description

A notification sent when the state of a virtual neighbor changes to FULL or changes from FULL to another state. To reduce unnecessary notifications caused by virtual interface up events, no virtual neighbor state change notification will be sent within 2 times the dead interval since the virtual interface state changes to a value other than DOWN.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 virtneighbor-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 virtneighbor-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.11.1.8 (ospfv3VirtNbrState)	Virtual neighbor state.	No	INTEGER	down(1) attempt(2) init(3) twoWay(4) exchangeStart(5) exchange(6) loading(7) full(8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3IfConfigError

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.4	Interface configuration error.	Informational	-	-	ON

Description

A notification sent when a non-virtual interface receives a packet from another router with mismatched configuration.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 if-cfg-error` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 if-cfg-error` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.7.1.12 (ospfv3IfState)	Interface state.	No	INTEGER	down(1) loopback(2) waiting(3) pointToPoint(4) designatedRouter(5) backupDesignatedRouter(6) otherDesignatedRouter(7) standby(8)
1.3.6.1.2.1.191.1.14.3 (ospfv3PacketSrc)	IPv6 packet that cannot be identified by a neighbor.	No	InetAddressIPv6	OCTET STRING (16)
1.3.6.1.2.1.191.1.14.1 (ospfv3ConfigErrorType)	OSPFv3 configuration error type.	No	INTEGER	badVersion(1) areaMismatch(2) unknownNbmaNbr(3) unknownVirtualNbr(4) helloIntervalMismatch(5) deadIntervalMismatch(6) optionMismatch(7) mtuMismatch(8) duplicateRouterId(9) noError(10)
1.3.6.1.2.1.191.1.14.2 (ospfv3PacketType)	OSPFv3 data packet type.	No	INTEGER	hello(1) dbDescript(2) lsReq(3) lsUpdate(4) lsAck(5) nullPacket(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the parameters configured on the interface are consistent with parameters in the hello packets.

ospfv3VirtIfConfigError

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.5	Virtual interface configuration error.	Error	Warning	-	ON

Description

A notification sent when a virtual interface receives a packet from another router with mismatched configuration.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 virtif-cfg-error` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 virtif-cfg-error` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.8.1.9 (ospfv3VirtIfState)	Virtual interface state.	No	INTEGER	down(1) pointToPoint(4)
1.3.6.1.2.1.191.1.14.1 (ospfv3ConfigErrorType)	OSPFv3 configuration error type.	No	INTEGER	badVersion(1) areaMismatch(2) unknownNbmaNbr(3) unknownVirtualNbr(4) helloIntervalMismatch(5) deadIntervalMismatch(6) optionMismatch(7) mtuMismatch(8) duplicateRouterId(9) noError(10)
1.3.6.1.2.1.191.1.14.2 (ospfv3PacketType)	OSPFv3 data packet type.	No	INTEGER	hello(1) dbDescript(2) lsReq(3) lsUpdate(4) lsAck(5) nullPacket(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the parameters configured on the interface are consistent with parameters in the hello packets.

ospfv3IfRxBadPacket

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.6	A non-virtual interface receives an error packet.	Error	Warning	-	ON

Description

A notification sent when a non-virtual interface receives an OSPFv3 packet that cannot be parsed.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 if-bad-pkt` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 if-bad-pkt` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.7.1.12 (ospfv3IfState)	Interface state.	No	INTEGER	down(1) loopback(2) waiting(3) pointToPoint(4) designatedRouter(5) backupDesignatedRouter(6) otherDesignatedRouter(7) standby(8)
1.3.6.1.2.1.191.1.14.3 (ospfv3PacketSrc)	IPv6 packet that cannot be identified by the neighbor.	No	InetAddressIPv6	OCTET STRING (16)
1.3.6.1.2.1.191.1.14.2 (ospfv3PacketType)	OSPFv3 data packet type.	No	INTEGER	hello(1) dbDescript(2) lsReq(3) lsUpdate(4) lsAck(5) nullPacket(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the parameters configured on the interface are consistent with parameters in the hello packets.

ospfv3VirtIfRxBadPacket

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.7	A virtual interface receives an error	Informational	-	-	ON

	packet.				
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Description

A notification sent when a virtual interface receives an OSPFv3 packet that cannot be parsed.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 virtif-bad-pkt` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 virtif-bad-pkt` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.8.1.9 (ospfv3VirtIfState)	Virtual interface state.	No	INTEGER	down(1) pointToPoint(4)
1.3.6.1.2.1.191.1.14.2 (ospfv3PacketType)	OSPFv3 data packet type.	No	INTEGER	hello(1) dbDescript(2) IsReq(3) IsUpdate(4) IsAck(5) nullPacket(6)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3IfStateChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.1 0	Interface state changes.	Error	Warning	-	ON

Description

A notification sent when the state of a non-virtual interface changes from DR to Down or changes to the Point-to-Point, DR, BDR, or Drother state.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 if-state-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 if-state-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.7.1.12 (ospfv3IfState)	Interface state.	No	INTEGER	down(1) loopback(2) waiting(3) pointToPoint(4) designatedRouter(5) backupDesignatedRouter(6) otherDesignatedRouter(7) standby(8)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3NssaTranslatorStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.1 1	A router's ability to translate type-7 LSAs into type-5 LSAs changes.	Error	Warning	-	ON

Description

A notification sent when a router's ability to translate type-7 LSAs into type-5 LSAs changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 nssatranslator-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 nssatranslator-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.2.1.12 (ospfv3AreaNssaTranslatorState)	Method for the NSSA ABR to become capable of translating Type-7 LSAs into Type-5 LSAs.	No	INTEGER	enabled(1) elected(2) disabled(3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3RestartStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.1 2	GR restarter state changes.	Error	Warning	-	ON

Description

A notification sent when the GR restarter state changes.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 grrestarter-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 grrestarter-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.1.18 (ospfv3RestartStatus)	GR restarter state.	No	INTEGER	notRestarting(1) plannedRestart(2) unplannedRestart(3)
1.3.6.1.2.1.191.1.1.16 (ospfv3RestartInterval)	GR timeout interval.	No	Ospfv3UpToRefreshIntervalTC	Unsigned32 (40..1800)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.20 (ospfv3RestartExitReason)	Reason why the device exited GR restarter state.	No	INTEGER	none(1) inProgress(2) completed(3) timedOut(4) topologyChanged(5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3NbrRestartHelperStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.13	The GR helper state of a neighbor changes.	Error	Warning	-	ON

Description

A notification sent when a neighbor enters or exits GR helper state.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 grhelper-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 grhelper-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.9.1.13 (ospfv3NbrRestartHelperStatus)	GR helper state of the neighbor.	No	INTEGER	notHelping(1) helping(2)
1.3.6.1.2.1.191.1.9.1.14 (ospfv3NbrRestartHelperAge)	GR helper aging timer.	No	Ospfv3UpToRefreshIntervalTC	Unsigned32 (1..1800)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.9.1.15 (ospfv3NbrRestartHelperExitReason)	Reason why the neighbor exited GR helper state.	No	INTEGER	none(1) inProgress(2) completed(3) timedOut(4) topologyChanged(5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

ospfv3VirtNbrRestartHelperStatusChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.191.0.14	The GR helper state of a virtual neighbor changes.	Error	Warning	-	ON

Description

A notification sent when a virtual neighbor enters or exits GR helper state.

Status control

ON

CLI: Use the `snmp-agent trap enable ospfv3 virtgrhelper-status-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable ospfv3 virtgrhelper-status-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.1.1 (ospfv3RouterId)	Unique identifier of a router in an AS.	No	Ospfv3RouterIdTC	Unsigned32 (1..'FFFFFFFF'h)
1.3.6.1.2.1.191.1.11.1.13 (ospfv3VirtNbrRestartHelperStatus)	GR helper state of the virtual neighbor.	No	INTEGER	notHelping(1) helping(2)
1.3.6.1.2.1.191.1.11.1.14 (ospfv3VirtNbrRestartHelperAge)	Remaining time of the GR interval when the router is acting as a GR helper for the virtual neighbor.	No	Ospfv3UpToRefresIntervalTC	Unsigned32 (1..1800)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.191.1.11.1.15 (ospfv3VirtNbrRestartHelperExitReason)	Reason why the virtual neighbor exited GR helper state.	No	INTEGER	none(1) inProgress(2) completed(3) timedOut(4) topologyChanged(5)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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RIPv2-MIB

About this MIB

Use this table to obtain RIPv2 interface statistics information, interface configuration information, and neighbor information.

MIB file name

rfc1724-rip.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).rip2(23)

Scalar objects

rip2GlobalRouteChanges

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2GlobalRouteChanges (1.3.6.1.2.1.23.1.1)	read-only	Counter32	INTEGER(0..4294967295)	Number of route changes.	As per the MIB.

rip2GlobalQueries

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2GlobalQueries (1.3.6.1.2.1.23.1.2)	read-only	Counter32	INTEGER(0..4294967295)	Number of RIP responses.	As per the MIB.

Tabular objects

rip2IfStatTable

About this table

This table contains interface statistics information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is rip2IfStatAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2IfStatAddress (1.3.6.1.2.1.23.2.1.1)	read-only	IpAddress	OCTET STRING (4)	Interface IP address.	As per the MIB.
rip2IfStatRcvBadPackets (1.3.6.1.2.1.23.2.1.2)	read-only	Counter32	INTEGER(0..4294967295)	Number of received bad packets.	As per the MIB.
rip2IfStatRcvBadRoutes (1.3.6.1.2.1.23.2.1.3)	read-only	Counter32	INTEGER(0..4294967295)	Number of received bad routes.	As per the MIB.
rip2IfStatSentUpdates (1.3.6.1.2.1.23.2.1.4)	read-only	Counter32	INTEGER(0..4294967295)	Number of triggered updates sent.	As per the MIB.
rip2IfStatStatus (1.3.6.1.2.1.23.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Interface state.	Supports only the read operation.

rip2IfConfTable

About this table

This table contains interface configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is rip2IfConfAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2IfConfAddress (1.3.6.1.2.1.23.3.1.1)	read-only	IpAddress	OCTET STRING (4)	Interface IP address.	As per the MIB.
rip2IfConfDomain (1.3.6.1.2.1.23.3.1.2)	read-create	RouteTag	OCTET STRING (2)	Route tag in the packet.	Supports only the read operation.
rip2IfConfAuthType (1.3.6.1.2.1.23.3.1.3)	read-create	INTEGER	noAuthentication (1), simplePassword (2), md5 (3)	Authentication mode.	Supports only the read operation.
rip2IfConfAuthKey (1.3.6.1.2.1.23.3.1.4)	read-create	OCTET STRING	OCTET STRING (0..16)	Authentication key.	Supports only the read operation.
rip2IfConfSend (1.3.6.1.2.1.23.3.1.5)	read-create	INTEGER	doNotSend (1),	Version of sent packets.	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			ripVersion1 (2), rip1Compatible (3), ripVersion2 (4), ripV1Demand (5), ripV2Demand (6)		
rip2IfConfReceive (1.3.6.1.2.1.23.3.1.6)	read-create	INTEGER	rip1 (1), rip2 (2), rip1OrRip2 (3), doNotRecieve (4)	Version of received packets.	Supports only the read operation.
rip2IfConfDefaultMetric (1.3.6.1.2.1.23.3.1.7)	read-create	INTEGER	INTEGER(0..15)	Default cost of redistributed routes.	Supports only the read operation.
rip2IfConfStatus (1.3.6.1.2.1.23.3.1.8)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Interface state.	Supports only the read operation.
rip2IfConfSrcAddress (1.3.6.1.2.1.23.3.1.9)	read-create	IpAddress	OCTET STRING (4)	Packet source IP address.	Supports only the read operation.

rip2PeerTable

About this table

This table contains neighbor information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are rip2PeerAddress and rip2PeerDomain.

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2PeerAddress (1.3.6.1.2.1.23.4.1.1)	read-only	IpAddress	OCTET STRING (4)	Neighbor IP address.	As per the MIB.
rip2PeerDomain (1.3.6.1.2.1.23.4.1.2)	read-only	RouteTag	OCTET STRING (2)	Route tag in the packet.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
rip2PeerLastUpdate (1.3.6.1.2.1.23.4.1.3)	read-only	TimeTicks	Standard MIB values.	Time when the most recent update was received from the neighbor.	As per the MIB.
rip2PeerVersion (1.3.6.1.2.1.23.4.1.4)	read-only	INTEGER	INTEGER(0..255)	Version of the most recent packet received from the neighbor.	As per the MIB.
rip2PeerRcvBadPackets (1.3.6.1.2.1.23.4.1.5)	read-only	Counter32	INTEGER(0..4294967295)	Number of received bad packets.	As per the MIB.
rip2PeerRcvBadRoutes (1.3.6.1.2.1.23.4.1.6)	read-only	Counter32	INTEGER(0..4294967295)	Number of received bad routes.	As per the MIB.

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HH3C-LswIGSP-MIB

About this MIB

IGMP snooping runs on a Layer 2 device as a multicast constraining mechanism to improve multicast forwarding efficiency. When IGMP snooping is not enabled, the Layer 2 switch floods multicast packets to all hosts in a VLAN or VSI. When IGMP snooping is enabled, the Layer 2 switch forwards multicast packets of known multicast groups to only the receivers. In addition to this basic function, Comware implements the following IGMP management and control functions:

- Limit the number of multicast groups that hosts attached to a switch port can join.
- Control the enabling status of fast-leaving on a switch port.
- Control the multicast groups that hosts can join by using an ACL that specifies the multicast groups and the optional sources.

IGMP snooping MIBs are private MIBs used to manage IGMP snooping. This module defines MIB variables corresponding to the parameters and status for the above IGMP management and control functions and combines them to private IGMP snooping MIBs. This module also supports Get and Getnext operations for MIB variables newly added to the IGMP snooping module deployed by the agent.

MIB file name

hh3c-splat-igsp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3clswCommon(35).hh3cLswIgmppsnoopingMib(7)

Scalar objects

hh3clgmpSnoopingStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clgmpSnoopingStatus (1.3.6.1.4.1.25506.8.35.7.1.1)	read-write	EnabledStatus	INTEGER { enabled(1), disabled(2) }	Enable or disable IGMP snooping.	Default: Disabled.

hh3clgmpSnoopingRouterPortAge

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clgmpSnoopingRouterPortAge (1.3.6.1.4.1.25506.8.35.7.1.2)	read-write	INTEGER	INTEGER(1..1000)	Set the aging time of router ports.	Default: 260. The return value is 260 when the actual value is greater than 1000.

hh3clgmpSnoopingResponseTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clgmpSnoopingResponseTime (1.3.6.1.4.1.25506.8.35.7.1.3)	read-write	INTEGER	INTEGER(1..25)	Set the maximum query response time.	As per the MIB. The return value is 25 when the actual value is greater than 25.

hh3clgmpSnoopingHostTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clgmpSnoopingHostTime (1.3.6.1.4.1.25506.8.35.7.1.4)	read-write	INTEGER	INTEGER(200..1000)	Set the aging time of the multicast group port.	As per the MIB. The return value is 1000 when the actual value is greater than 1000. The return value is 200 when the actual value is greater than 200.

hh3clgmpSnoopingNonFloodingStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clgmpSnoopingNonFloodingStatus (1.3.6.1.4.1.25506.8.35.7.1.8)	read-write	EnabledStatus	INTEGER { enabled(1), disabled(2) }	Configure to disable multicast flooding when no member exists in the designated group.	Implementation varies by product. Default: Disabled.

hh3cRecvIGMPGQueryNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvIGMPGQueryNum (1.3.6.1.4.1.25506.8.35.7.1.10.1)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMP general query packets received on the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cRecvIGMPSQueryNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvIGMPSQueryNum (1.3.6.1.4.1.25506.8.35.7.1.10.2)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMP specific query	Globally disabling or enabling IGMP

2)			967295)	packets received on the device.	snooping will initialize IGMP snooping data packet statistics collection.
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hh3cRecvIGMPV1ReportNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvIGMPV1ReportNum (1.3.6.1.4.1.25506.8.35.7.1.10.3)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMPv1 report packets received on the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cRecvIGMPV2ReportNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvIGMPV2ReportNum (1.3.6.1.4.1.25506.8.35.7.1.10.4)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMPv2 report packets received on the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cRecvIGMPLeaveNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvIGMPLeaveNum (1.3.6.1.4.1.25506.8.35.7.1.10.5)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMP leave packets received on the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cRecvErrorIGMPPacketNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRecvErrorIGMPPacketNum (1.3.6.1.4.1.25506.8.35.7.1.10.6)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of error IGMP packets received on the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cSentIGMPQueryNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSentIGMPQueryNum (1.3.6.1.4.1.25506.8.35.7.1.10.7)	read-only	Counter32	INTEGER(0..4294967295)	Statistics of IGMP specific query packets sent from the device.	Globally disabling or enabling IGMP snooping will initialize IGMP snooping data packet statistics collection.

hh3cIgmP SnoopingClearStats

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIgmP SnoopingClearStats (1.3.6.1.4.1.25506.8.35.7.1.10.8)	read-write	INTEGER	INTEGER { clear(1), counting(2) }	Clear the statistics of IGMP packets.	As per the MIB.

Tabular objects

hh3cIgmP SnoopingVlanStatusTable

About this table

Use this table to enable or disable IGMP snooping in a VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cIgmP SnoopingVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIgmP SnoopingVlanID (1.3.6.1.4.1.25506.8.35.7.1.9.1.1)	not-accessible	Integer32	Integer32(1..4094)	An index uniquely identifies on which VLAN IGMP snooping is enabled or disabled.	As per the MIB.
hh3cIgmP SnoopingVlanEnabled (1.3.6.1.4.1.25506.8.35.7.1.9.1.2)	read-write	EnabledStatus	INTEGER { enabled(1), disabled(2) }	Whether IGMP snooping is enabled in the VLAN.	As per the MIB.

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HH3C-MPM-MIB

About this MIB

The h3cHostStaticJoinTable table was added to this MIB to configure a host as a static member of a multicast group.

MIB file name

hh3c-mpm.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cMpm(51)

Scalar objects

hh3cMPortGroupLimitMinNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMPortGroupLimitMinNumber (1.3.6.1.4.1.25506.2.51.1.1)	read-only	Unsigned32	Standard MIB values.	Minimum number of groups that a port can join.	The value of this object is always 0.

hh3cMPortGroupLimitMaxNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMPortGroupLimitMaxNumber (1.3.6.1.4.1.25506.2.51.1.2)	read-only	Unsigned32	Standard MIB values.	Maximum number of groups that a port can join.	The value of this object is always 4294967295.

Tabular objects

hh3cMPortGroupJoinTable

About this table

Use this table to configure a port in a VLAN to join a multicast group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex, hh3cMPortGroupJoinVlanID, hh3cMPortGroupJoinAddressType, and hh3cMPortGroupJoinAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMPortGroupJoinVlanID (1.3.6.1.4.1.25506.2.51.2.1.1.1)	not-accessible	Integer32	Standard MIB values.	An index uniquely identifying a port in a VLAN which joined the multicast group.	As per the MIB.
hh3cMPortGroupJoinAddressType (1.3.6.1.4.1.25506.2.51.2.1.1.2)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Type of the multicast group address.	As per the MIB.
hh3cMPortGroupJoinAddress (1.3.6.1.4.1.25506.2.51.2.1.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	Address of the multicast group. It must be a valid multicast IP address.	As per the MIB.
hh3cMPortGroupJoinStatus (1.3.6.1.4.1.25506.2.51.2.1.1.4)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).

hh3cMPortGroupTable

About this table

This table contains information about the status of a port which joined a multicast group in a VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3cMPortGroupVlanID, hh3cMPortGroupAddressType, and hh3cMPortGroupAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMPortGroupVlanID (1.3.6.1.4.1.25506.2.51.2.2.1.1)	not-accessible	Integer32	Standard MIB values.	An index uniquely identifies that a port belongs to a specified VLAN.	As per the MIB.
hh3cMPortGroupAddressType (1.3.6.1.4.1.25506.2.51.2.2.1.2)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1),	Type of the multicast group address.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			ipv6(2), dns(16) }		
hh3cMPortGroup Address (1.3.6.1.4.1.25506 .2.51.2.2.1.3)	read-only	InetAddress	OCTET STRING (0..255)	Address of the multicast group.	As per the MIB.

hh3cMPortConfigEntry

About this table

This table contains information about the fast-leaving status, group limit number, and group policy parameters of a port in a VLAN.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and hh3cMPortConfigVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMPortConfig VlanID (1.3.6.1.4.1.25506 .2.51.2.3.1.1)	not-accessible	Integer32	Standard MIB values.	An index uniquely identifies that a port belongs to a specified VLAN.	As per the MIB.
hh3cMPortGroupL imitNumber (1.3.6.1.4.1.25506 .2.51.2.3.1.2)	read-create	Unsigned32	Standard MIB values.	Maximum number of groups that a port can join.	As per the MIB.
hh3cMPortFastLe aveStatus (1.3.6.1.4.1.25506 .2.51.2.3.1.3)	read-create	EnabledStatus	INTEGER{ enabled(1), disabled(2) }	Fast-leaving status of the port.	As per the MIB.
hh3cMPortGroup PolicyParameter (1.3.6.1.4.1.25506 .2.51.2.3.1.4)	read-create	Integer32	Integer32(0 2000.. 2999)	ACL number which is used as the group policy of the port.	As per the MIB.
hh3cMPortConfig RowStatus (1.3.6.1.4.1.25506 .2.51.2.3.1.5)	read-create	RowStatus	active(1), notReady(3), createAndGo(4), destroy(6)	Row status.	Supports only the following values: destroy(6), notReady(3),, createAndGo(4), and destroy(6).
hh3cMPortGroupL imitReplace (1.3.6.1.4.1.25506 .2.51.2.3.1.6)	read-create	EnabledStatus	INTEGER{ enabled(1), disabled(2) }	This object is related to the object hh3cMPortGroupL imitNumber.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.51.2.3.1.6)			disabled(2) }	imitNumber. If the current IGMP group number is less than the value of hh3cMPortGroupLimitNumber, any new IGMP group is permitted.	

hh3cHostStaticJoinTable

About this table

Use this table to configure a host on a port in a VLAN statically to join a multicast group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are ifIndex, hh3cHostStaticJoinVlanID, hh3cHostStaticJoinAddressType, and hh3cHostStaticJoinAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cHostStaticJoinVlanID (1.3.6.1.4.1.25506.2.51.2.4.1.1)	not-accessible	Integer32	Standard MIB values.	An index uniquely identifies the VLAN in which a host on a port statically joined a multicast group.	As per the MIB.
hh3cHostStaticJoinAddressType (1.3.6.1.4.1.25506.2.51.2.4.1.2)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Type of the multicast group address.	As per the MIB.
hh3cHostStaticJoinAddress (1.3.6.1.4.1.25506.2.51.2.4.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	Address of the multicast group.	As per the MIB.
hh3cHostStaticJoinStatus (1.3.6.1.4.1.25506.2.51.2.4.1.4)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	Supports only the following values: createAndGo(4), active(1), and destroy(6).

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HH3C-MULTICAST-SNOOPING-MIB

About this MIB

Multicast snooping runs on a Layer 2 device as a multicast constraining mechanism to improve multicast forwarding efficiency. It creates Layer 2 multicast forwarding entries from IGMP or MLD packets that are exchanged between the hosts and the Layer 3 device.

Use this MIB to manage IGMP snooping and MLD snooping.

MIB file name

hh3c-multicast-snooping.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cMulticastSnoop(123)

Tabular objects

hh3cMcsGlobalConfigTable

About this table

This table contains the global configuration of IGMP or MLD snooping.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cMcsGlbSnoopingType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsGlbSnoopingType (1.3.6.1.4.1.25506.2.123.1.1.1.1)	not-accessible	InetAddressType	IPv4: IGMP snooping IPv6: MLD snooping	Type of the global configuration.	As per the MIB.
hh3cMcsGlbRowStatus (1.3.6.1.4.1.25506.2.123.1.1.1.2)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
hh3cMcsGlbEntryLimit (1.3.6.1.4.1.25506.2.123.1.1.1.3)	read-create	Unsigned32	Standard MIB values.	Global maximum number of IGMP or MLD snooping forwarding entries.	As per the MIB.
hh3cMcsGlbHostAgingTime (1.3.6.1.4.1.25506.2.123.1.1.1.4)	read-create	Unsigned32	Unsigned32 (1..8097894)	Global aging time of the multicast	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.4.1.25506.2.123.1.1.1.4)				group on ports.	
hh3cMcsGlbMaxResponseTime(1.3.6.1.4.1.25506.2.123.1.1.1.5)	read-create	Unsigned32	Unsigned32(1..3174)	Global maximum query response time.	As per the MIB.
hh3cMcsGlbRouterAgingTime(1.3.6.1.4.1.25506.2.123.1.1.1.6)	read-create	Unsigned32	Unsigned32 (1..8097894)	Global aging time of router ports.	As per the MIB.
hh3cMcsGlbLastMemQryInterval(1.3.6.1.4.1.25506.2.123.1.1.1.7)	read-create	Unsigned32	Unsigned32(1..25)	Global last member query interval.	As per the MIB.
hh3cMcsGlbDropUnknownEnabled(1.3.6.1.4.1.25506.2.123.1.1.1.8)	read-create	TruthValue	true(1), false(2)	Whether the feature of dropping unknown packets is enabled globally.	Implementation varies by product. Default: Disabled.

hh3cMcsVirtualUnitConfigTable

About this table

This table contains IGMP or MLD snooping settings for a virtual unit (VLAN or VSI).

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cMcsVUType, hh3cMcsVUID, and hh3cMcsVUSnoopingType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsVUType (1.3.6.1.4.1.25506.2.123.1.2.1.1)	not-accessible	Hh3cVirtualUnitType	INTEGER{ vlan(1), vsi(2) }	Type of a virtual unit.	As per the MIB.
hh3cMcsVUID (1.3.6.1.4.1.25506.2.123.1.2.1.2)	not-accessible	Unsigned32,	Standard MIB values.	VLAN ID or VSI Index.	As per the MIB.
hh3cMcsVUSnoopingType(1.3.6.1.4.1.25506.2.123.1.2.1.3)	not-accessible	InetAddressType	IPv4: igmp snooping IPv6: mld snooping	Type of the snooping configuration.	As per the MIB.
hh3cMcsVURowStatus (1.3.6.1.4.1.25506.2.123.1.2.1.4)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsVUHostAgingTime(1.3.6.1.4.1.25506.2.123.1.2.1.5)	read-create	Unsigned32	Unsigned32 (0..8097894)	Aging time of the multicast group on ports in the VLAN or VSI.	As per the MIB.
hh3cMcsVUMaxResponseTime(1.3.6.1.4.1.25506.2.123.1.2.1.6)	read-create	Unsigned32	Unsigned32(0..3174)	Maximum query response time in the VLAN or VSI.	As per the MIB.
hh3cMcsVURouterAgingTime(1.3.6.1.4.1.25506.2.123.1.2.1.7)	read-create	Unsigned32	Unsigned32 (0..8097894)	Aging time of the router port in the VLAN or VSI.	As per the MIB.
hh3cMcsVULastMemberQueryInterval(1.3.6.1.4.1.25506.2.123.1.2.1.8)	read-create	Unsigned32	Unsigned32(0..25)	Last member query interval in the VLAN or VSI.	As per the MIB.
hh3cMcsVUDropUnknownEnabled(1.3.6.1.4.1.25506.2.123.1.2.1.9)	read-create	TruthValue	true(1), false(2)	Whether the feature of dropping unknown packets is enabled in the VLAN or VSI.	As per the MIB.
hh3cMcsVUPimSnoopingEnabled(1.3.6.1.4.1.25506.2.123.1.2.1.10)	read-create	TruthValue	true(1), false(2)	Whether PIM snooping is enabled in the VLAN or VSI.	As per the MIB.
hh3cMcsVUVersion(1.3.6.1.4.1.25506.2.123.1.2.1.11)	read-create	Unsigned32	2 3	Version of IGMP or MLD snooping that is running on the VLAN or VSI.	As per the MIB. <ul style="list-style-type: none"> • 2—IGMPv2 snooping or MLDV1 snooping. • 3—IGMPv3 snooping or MLDv2 snooping.
hh3cMcsVUQuerierEnabled(1.3.6.1.4.1.25506.2.123.1.2.1.12)	read-create	TruthValue	true(1), false(2)	Whether the querier feature is enabled in the VLAN or VSI.	As per the MIB.
hh3cMcsVUQuerierInterval(1.3.6.1.4.1.25506.2.123.1.2.1.13)	read-create	Unsigned32	Unsigned32(2..31744)	General query interval in the VLAN or VSI.	As per the MIB.
hh3cMcsVUGeneQuerierSourceAddress(1.3.6.1.4.1.25506.2.123.1.2.1.14)	read-create	InetAddress	OCTET STRING (0..255)	Source IP address of IGMP or MLD general query packets.	As per the MIB.
hh3cMcsVUSpecQuerierSourceAddress(1.3.6.1.4.1.25506.2.123.1.2.1.15)	read-create	InetAddress	OCTET STRING (0..255)	Source IP address of IGMP or MLD group-specific query packets.	As per the MIB.
hh3cMcsVULeaveSourceAddress(1.3.6.1.4.1.25506.2.123.1.2.1.16)	read-create	InetAddress	OCTET STRING (0..255)	Source IP address of IGMP or MLD leave packets.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
123.1.2.1.16)					
hh3cMcsVUReportSourceAddress(1.3.6.1.4.1.25506.2.123.1.2.1.17)	read-create	InetAddress	OCTET STRING (0..255)	Source IP address of IGMP or MLD report packets.	As per the MIB.
hh3cMcsVUProxyEnabled(1.3.6.1.4.1.25506.2.123.1.2.1.18)	read-create	TruthValue	true(1), false(2)	Whether the proxy feature is enabled in the VLAN or VSI.	As per the MIB.
hh3cMcsVUQuerierElection(1.3.6.1.4.1.25506.2.123.1.2.1.19)	read-create	TruthValue	true(1), false(2)	Whether the querier election feature is enabled in the VLAN or VSI.	As per the MIB.

hh3cMcsL2EntryTable

About this table

This table containing a list of Layer 2 multicast group entries in a VLAN or VSI.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cMcsL2EntryVUType, hh3cMcsL2EntryVUID, hh3cMcsL2EntryAddressType, hh3cMcsL2EntryGroupAddress, hh3cMcsL2EntrySourceAddress, and hh3cMcsL2EntryIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsL2EntryVUType (1.3.6.1.4.1.25506.2.123.1.3.1.1)	not-accessible	Hh3cVirtualUnitType	INTEGER{ vlan(1), vsi(2) }	Type of a virtual unit.	As per the MIB.
hh3cMcsL2EntryVUID (1.3.6.1.4.1.25506.2.123.1.3.1.2)	not-accessible	Unsigned32,	Standard MIB values.	VLAN ID or VSI index.	As per the MIB.
hh3cMcsL2EntryAddressType(1.3.6.1.4.1.25506.2.123.1.3.1.3)	not-accessible	InetAddressType	IPv4: IGMP snooping IPv6: MLD snooping	Type of the multicast group address.	As per the MIB.
hh3cMcsL2EntryGroupAddress(1.3.6.1.4.1.25506.2.123.1.3.1.4)	not-accessible	InetAddress	OCTET STRING (0..255)	Address of the multicast group which the port joined.	As per the MIB.
hh3cMcsL2EntrySourceAddress(1.3.6.1.4.1.25506.2.123.1.3.1.5)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the unicast source which the port	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
23.1.3.1.5)				joined.	
hh3cMcsL2EntryIfIndex(1.3.6.1.4.1.25506.2.123.1.3.1.6)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an outgoing interface.	As per the MIB.
hh3cMcsL2EntryPortType(1.3.6.1.4.1.25506.2.123.1.3.1.7)	read-only	INTEGER	interface(1), ac(2), npw(3), upw(4), trill(5), tunnel(6), mtunnel(7)	Type of the outgoing interface.	As per the MIB.
hh3cMcsL2EntryPortAttribute(1.3.6.1.4.1.25506.2.123.1.3.1.8)	read-only	BITS	BITS { d(0), s(1), p(2), k(3), r(4), w(5), b(6), e(7), de(8), ee(9), suc(10), f(11) }	Attributes of the outgoing interface.	As per the MIB.

hh3cMcsPacketStatisticsTable

About this table

This table contains IGMP or MLD packets statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cMcsStatisticsSnoopingType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsStatisticsSnoopingType(1.3.6.1.4.1.25506.2.123.1.4.1.1)	not-accessible	InetAddressType	IPv4: IGMP Snooping IPv6: MLD Snooping	Type of the snooping configuration.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsRxGeneryQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.2)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMP or MLD general query packets received on the device.	As per the MIB.
hh3cMcsRxV2SpecificQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.3)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv2 or MLDv1 group-specific query packets received on the device.	As per the MIB.
hh3cMcsRxV3SpecificQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.4)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv3 or MLDv2 group-specific query packets received on the device.	As per the MIB.
hh3cMcsRxV1ReportNum(1.3.6.1.4.1.25506.2.123.1.4.1.5)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv1 report packets received on the device.	As per the MIB.
hh3cMcsRxV2ReportNum(1.3.6.1.4.1.25506.2.123.1.4.1.6)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv2 or MLDv1 report packets received on the device.	As per the MIB.
hh3cMcsRxV3ReportNum(1.3.6.1.4.1.25506.2.123.1.4.1.7)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv3 or MLDv2 report packets received on the device.	As per the MIB.
hh3cMcsRxV3ErrCorReportNum(1.3.6.1.4.1.25506.2.123.1.4.1.8)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv3 or MLDv2 report packets with correct and incorrect records received on the device.	As per the MIB.
hh3cMcsRxLeaveNum(1.3.6.1.4.1.25506.2.123.1.4.1.9)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of leave packets received on the device.	As per the MIB.
hh3cMcsRxPimHelloNum(1.3.6.1.4.1.25506.2.123.1.4.1.10)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of PIM hello packets received on the device.	As per the MIB.
hh3cMcsRxErrorPacketNum(1.3.6.1.4.1.25506.2.123.1.4.1.11)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of error IGMP or MLD packets received on the device.	As per the MIB.
hh3cMcsTxV2SpecificQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.12)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv2 or MLDv1 group-specific query packets sent from the device.	As per the MIB.
hh3cMcsTxV3Spe	read-only	Counter64	INTEGER(0..1844	Number of	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
cificQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.13)			6744073709551615)	IGMPv3 or MLDv2 group-specific query packets sent from the device.	
hh3cMcsTxV3SpecificSGQueryNum(1.3.6.1.4.1.25506.2.123.1.4.1.14)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of IGMPv3 or MLDv2 group-and-source-specific query packets sent from the device.	As per the MIB.

hh3cMcsPortJoinGroupConfigTable

About this table

This table contains settings of a port configured as a simulated member host for a multicast group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported only when global IGMP or MLD snooping is enabled.	Supported	Supported	Supported

Columns

The table indexes are hh3cMcsPortJoinGroupIfIndex, hh3cMcsPortJoinGroupSnoopingType, hh3cMcsPortJoinGroupVlanID, hh3cMcsPortJoinGroupGroupAddress, and hh3cMcsPortJoinGroupSourceAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsPortJoinGroupIfIndex(1.3.6.1.4.1.25506.2.123.1.5.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the port for which this entry contains information.	As per the MIB.
hh3cMcsPortJoinGroupSnoopingType(1.3.6.1.4.1.25506.2.123.1.5.1.2)	not-accessible	InetAddressType	IPv4: igmp snooping IPv6: mld snooping	Type of snooping configuration, which also indicates the protocol type of addresses.	As per the MIB.
hh3cMcsPortJoinGroupVlanID(1.3.6.1.4.1.25506.2.123.1.5.1.3)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID.	As per the MIB.
hh3cMcsPortJoinGroupGroupAddress(1.3.6.1.4.1.25506.2.123.1.5.1.4)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the group to which the host belongs.	As per the MIB.
hh3cMcsPortJoinGroupSourceAddress(1.3.6.1.4.1.25506.2.123.1.5.1.5)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the source.	As per the MIB.

hh3cMcsPortJoinGroupStatus(1.3.6.1.4.1.25506.2.123.1.5.1.6)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
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hh3cMcsPortStaticGroupConfigTable

About this table

This table contains static group membership entries on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Supported only when global IGMP or MLD snooping is enabled.	Supported	Supported	Supported

Columns

The table indexes are hh3cMcsPortStaticGroupIfIndex, hh3cMcsPortStaticGroupSnoopingType, hh3cMcsPortStaticGroupVlanID, hh3cMcsPortStaticGroupGroupAddress, and hh3cMcsPortStaticGroupSourceAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsPortStaticGroupIfIndex(1.3.6.1.4.1.25506.2.123.1.6.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the port for which this entry contains information.	As per the MIB.
hh3cMcsPortStaticGroupSnoopingType(1.3.6.1.4.1.25506.2.123.1.6.1.2)	not-accessible	InetAddressType	IPv4: IGMP snooping IPv6: MLD snooping	Type of snooping configuration, which also indicates the protocol type of addresses.	As per the MIB.
hh3cMcsPortStaticGroupVlanID(1.3.6.1.4.1.25506.2.123.1.6.1.3)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID.	As per the MIB.
hh3cMcsPortStaticGroupGroupAddress(1.3.6.1.4.1.25506.2.123.1.6.1.4)	not-accessible	InetAddress	OCTET STRING (0..255)	Address of the multicast group.	As per the MIB.
hh3cMcsPortStaticGroupSourceAddress(1.3.6.1.4.1.25506.2.123.1.6.1.5)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the source.	As per the MIB.
hh3cMcsPortStaticGroupStatus(1.3.6.1.4.1.25506.2.123.1.6.1.6)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).

hh3cMcsRouterPortConfigEntry

About this table

This table contains static router port entries for a port.

Support for operations

Create	Edit/Modify	Delete	Read
Supported only when global IGMP or MLD snooping is enabled.	Supported	Supported	Supported

Columns

The table indexes are hh3cMcsRouterPortConfigIfIndex, hh3cMcsRouterPortConfigSnoopingType, and hh3cMcsRouterPortConfigVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsRouterPortConfigIfIndex(1.3.6.1.4.1.25506.2.123.1.7.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the port for which this entry contains information.	As per the MIB.
hh3cMcsRouterPortConfigSnoopingType(1.3.6.1.4.1.25506.2.123.1.7.1.2)	not-accessible	InetAddressType	IPv4: IGMP snooping IPv6: MLD snooping	Type of snooping configuration.	As per the MIB.
hh3cMcsRouterPortConfigVlanID(1.3.6.1.4.1.25506.2.123.1.7.1.3)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID	As per the MIB.
hh3cMcsRouterPortConfigRowStatus(1.3.6.1.4.1.25506.2.123.1.7.1.4)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).

hh3cMcsPortConfigTable

About this table

This table contains the fast-leaving status, group limit number, group policy parameters and overflow replacement status on a port.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cMcsPortConfigIfIndex, hh3cMcsPortConfigSnoopingType, and hh3cMcsPortConfigVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMcsPortConfigIfIndex(1.3.6.1.4.1.25506.2.123.1.8.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the port for which this entry contains information.	As per the MIB.
hh3cMcsPortConfigSnoopingType(1.3.6.1.4.1.25506.2.123.1.8.1.2)	not-accessible	InetAddressType	IPv4: IGMP snooping IPv6: MLD snooping	Type of snooping configuration.	As per the MIB.
hh3cMcsPortConfigVlanID(1.3.6.1.4.1.25506.2.123.1.8.1.3)	not-accessible	Unsigned32	Unsigned32(1..4094)	VLAN ID.	As per the MIB.
hh3cMcsPortConfigGroupLimitNumber(1.3.6.1.4.1.25506.2.123.1.8.1.4)	read-create	Unsigned32	Standard MIB values.	Group limit number of the port.	As per the MIB.
hh3cMcsPortConfigFastLeaveStatus(1.3.6.1.4.1.25506.2.123.1.8.1.5)	read-create	TruthValue	true(1), false(2)	Fast-leaving status of the port.	As per the MIB.
hh3cMcsPortConfigGroupPolicyParameter(1.3.6.1.4.1.25506.2.123.1.8.1.6)	read-create	Unsigned32	Unsigned32(0 2000..3999)	ACL number which is used as the group policy parameter of the port.	As per the MIB.
hh3cMcsPortConfigOverflowReplace(1.3.6.1.4.1.25506.2.123.1.8.1.7)	read-create	TruthValue	true(1), false(2)	Status of overflow replacement for the hh3cMcsPortConfigGroupLimitNumber object.	As per the MIB.
hh3cMcsPortConfigRowStatus(1.3.6.1.4.1.25506.2.123.1.8.1.8)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).

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IGMP-STD-MIB

About this MIB

Use this MIB to manage IGMP.

This MIB contains the following tables:

- **IGMP interface table**—Each row contains an interface enabled with IGMP.
- **IGMP cache table**—Each row contains a multicast group for which an IGMP interface maintain membership.

These tables are intended to be implemented by hosts and routers. However, some objects in the table are applicable only to routers.

MIB file name

rfc2933-igmp-std.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).igmpStdMIB(85)

Tabular objects

igmpInterfaceTable

About this table

This table contains settings of an interface enabled with IGMP.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is igmpInterfaceIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
igmpInterfaceIndex (1.3.6.1.2.1.85.1.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface enabled with IGMP.	As per the MIB.
igmpInterfaceQueryInterval (1.3.6.1.2.1.85.1.1.2)	read-create	Unsigned32	Unsigned32(1..31744)	General query interval of the interface, in seconds.	Value range: 1 to 31744.
igmpInterfaceStatus (1.3.6.1.2.1.85.1.1.3)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4),

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.3)					and destroy(6). <ul style="list-style-type: none"> createAndGo(4)—Enable IGMP on the interface. destroy(6)—Disable IGMP on the interface.
igmpInterfaceVersion (1.3.6.1.2.1.85.1.1.1.4)	read-create	Unsigned32	Unsigned32(1..2)	IGMP version.	Value range: 1 to 3.
igmpInterfaceQuerier (1.3.6.1.2.1.85.1.1.1.5)	read-only	IpAddress	OCTET STRING (4)	IP address of the IGMP querier of the subnet to which the interface is attached.	As per the MIB.
igmpInterfaceQueryMaxResponseTime (1.3.6.1.2.1.85.1.1.1.6)	read-create	Unsigned32	Unsigned32(10..250)	Maximum response time, in tenth seconds.	Value range: 10 to 250.
igmpInterfaceQuerierUpTime (1.3.6.1.2.1.85.1.1.1.7)	read-only	Timeticks	Standard MIB values.	Time elapsed since the IGMP querier was elected.	As per the MIB.
igmpInterfaceQuerierExpiryTime (1.3.6.1.2.1.85.1.1.1.8)	read-only	Timeticks	Standard MIB values.	Time remaining before the IGMP querier ages out.	As per the MIB.
igmpInterfaceVersion1QuerierTimer (1.3.6.1.2.1.85.1.1.1.9)	read-only	Timeticks	Standard MIB values.	Time remaining until the host assumes that there are no IGMPv1 routers present on the interface.	Not supported
igmpInterfaceWrongVersionQueries (1.3.6.1.2.1.85.1.1.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Number of queries received whose IGMP version does not match the IGMP version on the interface.	Not supported
igmpInterfaceJoins (1.3.6.1.2.1.85.1.1.1.11)	read-only	Counter32	INTEGER(0..4294967295)	Number of times a group membership has been added on this interface.	As per the MIB.
igmpInterfaceProxyIfIndex (1.3.6.1.2.1.85.1.1.1.12)	read-create	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the interface acting as the IGMP proxy on the interface.	Supports only the read operation.
igmpInterfaceGroups (1.3.6.1.2.1.85.1.1.1.13)	read-only	Gauge32	INTEGER(0..4294967295)	Number of groups for which the interface	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.13)				maintains membership.	
igmpInterfaceRobustness (1.3.6.1.2.1.85.1.1.1.14)	read-create	Unsigned32	Unsigned32(1..255)	Robustness variable of the interface.	As per the MIB.
igmpInterfaceLastMembQueryIntvl (1.3.6.1.2.1.85.1.1.1.15)	read-create	Unsigned32	Unsigned32(10..250)	Last member interface of the interface, in tenth seconds.	Value range: 10 to 250.

igmpCacheTable

About this table

This table contains multicast groups for which there are members on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are igmpCacheAddress and igmpCacheIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
igmpCacheAddresses (1.3.6.1.2.1.85.1.2.1.1)	not-accessible	IpAddress	OCTET STRING (4)	IP multicast group address.	As per the MIB.
igmpCacheIndex (1.3.6.1.2.1.85.1.2.1.2)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Interface for which this entry contains information for an IP multicast group address.	As per the MIB.
igmpCacheSelf (1.3.6.1.2.1.85.1.2.1.3)	read-create	TruthValue	false(2)	Whether the local system is a member of this group address on this interface.	Supports only the read operation. Supports only false(2).
igmpCacheLastReporter (1.3.6.1.2.1.85.1.2.1.4)	read-only	IpAddress	OCTET STRING (4)	IP address of the source of the last membership report received for this IP Multicast group address on this interface.	As per the MIB.
igmpCacheUpTime (1.3.6.1.2.1.85.1.2.1.5)	read-only	Timeticks	Standard MIB values.	Time elapsed since this entry was created.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.5)					
igmpCacheExpiry Time (1.3.6.1.2.1.85.1.2 .1.6)	read-only	Timeticks	Standard MIB values.	Minimum amount of time remaining before this entry ages out.	As per the MIB.
igmpCacheStatus (1.3.6.1.2.1.85.1.2 .1.7)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.
igmpCacheVersio n1HostTimer (1.3.6.1.2.1.85.1.2 .1.8)	read-only	TimeTicks	Standard MIB values.	Time remaining until the local router will assume that there are no longer any IGMP version 1 members on the IP subnet attached to this interface.	As per the MIB.

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IPMCAST-MIB

About this MIB

The multicast technique effectively addresses the issue of point-to-multipoint data transmission. By enabling high-efficiency point-to-multipoint data transmission over a network, multicast greatly saves network bandwidth and reduces network load.

By using multicast technology, a network operator can easily provide bandwidth-critical and time-critical information services. These services include live webcasting, Web TV, distance learning, telemedicine, Web radio, and real-time video conferencing.

Use the MIB to manage IP multicast settings, including multicast routes.

MIB file name

rfc5132-ipmcast.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipMcastMIB(168)

Scalar objects

ipMcastEnabled

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastEnabled (1.3.6.1.2.1.168.1.1)	read-write	TruthValue	true(1), false(2)	Enabling status of IP multicast.	As per the MIB.

ipMcastRouteEntryCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastRouteEntryCount (1.3.6.1.2.1.168.1.2)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the MRIB routing table.	As per the MIB.

ipMcastDeviceConfigStorageType

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastDeviceConfigStorageType (1.3.6.1.2.1.168.1.11)	read-write	StorageType	INTEGER { other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)}	Storage type used for the global IP multicast configuration.	Supports only the read operation. The value of this object is always nonVolatile(3).

			}		
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Tabular objects

ipMcastInterfaceTable

About this table

This table contains an interface configured with IP multicast.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipMcastInterfaceIPVersion and ipMcastInterfaceIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastInterfaceIPVersion (1.3.6.1.2.1.168.1.3.1.1)	not-accessible	InetVersion	INTEGER { unknown(0), ipv4(1), ipv6(2) }	IP version.	As per the MIB.
ipMcastInterfaceIfIndex (1.3.6.1.2.1.168.1.3.1.2)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of a multicast interface.	As per the MIB.
ipMcastInterfaceTtl (1.3.6.1.2.1.168.1.3.1.3)	read-write	Unsigned32	Unsigned32(0..256)	TTL of the interface.	Supports only the read operation. The value of this object is always 0.
ipMcastInterfaceRateLimit (1.3.6.1.2.1.168.1.3.1.4)	read-write	Unsigned32	Standard MIB values.	Limited rate of multicast traffic on the interface, in kbps.	Supports only the read operation. The value of this object is always 0.
ipMcastInterfaceStorageType(1.3.6.1.2.1.168.1.3.1.5)	read-write	StorageType	INTEGER { other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5) }	Row storage type.	Supports only the read operation. The value of this object is always readOnly(5).

ipMcastSsmRangeTable

About this table

This table contains multicast group range settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are McastSsmRangeAddressType, ipMcastSsmRangeAddress, and ipMcastSsmRangePrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastSsmRangeAddressType (1.3.6.1.2.1.168.1.4.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of a multicast group prefix.	As per the MIB.
ipMcastSsmRangeAddress (1.3.6.1.2.1.168.1.4.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	Multicast group address gives the group prefix for this SSM range.	As per the MIB.
ipMcastSsmRangePrefixLength (1.3.6.1.2.1.168.1.4.1.3)	not-accessible	InetAddressPrefixLength	Unsigned32(0..2040)	Length of the mask which gives the group prefix for this SSM range.	As per the MIB.
ipMcastSsmRangeRowStatus (1.3.6.1.2.1.168.1.4.1.4)	read-create	RowStatus	active(1)	Row status.	Supports only the read operation. The value of this object is always active(1).
ipMcastSsmRangeStorageType (1.3.6.1.2.1.168.1.4.1.5)	read-create	StorageType	INTEGER { other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5) }	Row storage type.	Supports only the read operation. The value of this object is always readOnly(5).

ipMcastRouteTable

About this table

This table contains multicast routing entry information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipMcastRouteGroupAddressType, ipMcastRouteGroup, ipMcastRouteGroupPrefixLength, ipMcastRouteSourceAddressType, ipMcastRouteSource, and ipMcastRouteSourcePrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastRouteGroupAddressType (1.3.6.1.2.1.168.1.5.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address family of multicast group address in a multicast routing entry.	As per the MIB.
ipMcastRouteGroup (1.3.6.1.2.1.168.1.5.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	Multicast group address in the entry.	As per the MIB.
ipMcastRouteGroupPrefixLength (1.3.6.1.2.1.168.1.5.1.3)	not-accessible	InetAddressPrefix Length	Unsigned32(0..2040)	Length of the mask which identifies the groups for which this entry contains multicast routing information.	As per the MIB.
ipMcastRouteSourceAddressType (1.3.6.1.2.1.168.1.5.1.4)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the multicast source address in the entry.	As per the MIB.
ipMcastRouteSource (1.3.6.1.2.1.168.1.5.1.5)	not-accessible	InetAddress	OCTET STRING (0..255)	Multicast source address in the entry.	As per the MIB.
ipMcastRouteSourcePrefixLength (1.3.6.1.2.1.168.1.5.1.6)	not-accessible	InetAddressPrefix Length	Unsigned32(0..2040)	Length of the mask which identifies the sources for which this entry contains multicast routing information.	As per the MIB.
ipMcastRouteUpstreamNeighborType (1.3.6.1.2.1.168.1.5.1.7)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Type of the upstream neighbor.	As per the MIB.
ipMcastRouteUpst	read-only	InetAddress	OCTET STRING	Address of the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastRouteNeighbor (1.3.6.1.2.1.168.1.5.1.8)			(0..255)	upstream neighbor.	
ipMcastRouteInflIndex (1.3.6.1.2.1.168.1.5.1.9)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the incoming interface in the entry.	As per the MIB.
ipMcastRouteTimeStamp (1.3.6.1.2.1.168.1.5.1.10)	read-only	TimeStamp	TimeTicks	Time when the entry was learned.	As per the MIB.
ipMcastRouteExpiryTime (1.3.6.1.2.1.168.1.5.1.11)	read-only	TimeTicks	Standard MIB values.	Time before the entry ages out.	As per the MIB.
ipMcastRouteProtocol (1.3.6.1.2.1.168.1.5.1.12)	read-only	IANAipMRouteProtocol	INTEGER { other(1), local(2), netmgmt(3), dvmrp(4), mospf(5), pimSparseDense(6), cbt(7), pimSparseMode(8), pimDenseMode(9), igmpOnly(10), bgmp(11), msdp(12) }	Protocol type of the entry.	As per the MIB.
ipMcastRouteRtProtocol (1.3.6.1.2.1.168.1.5.1.13)	read-only	IANAipRouteProtocol	INTEGER { other (1), local (2), netmgmt (3), icmp(4), egp (5), ggp (6), hello (7), rip (8), isls (9), esls (10), ciscoIgrp (11), bbnSpflgp (12), ospf (13), bgp (14), idpr (15), ciscoEigrp (16), dvmrp (17) }	Protocol type of the RPF route.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			}		
ipMcastRouteRtAddressType (1.3.6.1.2.1.168.1.5.1.14)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the RPF route.	As per the MIB.
ipMcastRouteRtAddress (1.3.6.1.2.1.168.1.5.1.15)	read-only	InetAddress	OCTET STRING (0..255)	IP address in the RPF route.	As per the MIB.
ipMcastRouteRtPrefixLength (1.3.6.1.2.1.168.1.5.1.16)	read-only	InetAddressPrefixLength	Unsigned32(0..2040)	Mask length for the RPF route.	Value range: <ul style="list-style-type: none"> IPv4: 0 to 32. IPv6: 0 to 128.
ipMcastRouteRtType (1.3.6.1.2.1.168.1.5.1.17)	read-only	INTEGER	unicast (1), multicast (2)	Reason the RPF route was added. Type of the route on which the RPF route depends.	As per the MIB.
ipMcastRouteOctets (1.3.6.1.2.1.168.1.5.1.18)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of octets forwarded by using the entry.	As per the MIB.
ipMcastRoutePkts (1.3.6.1.2.1.168.1.5.1.19)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets forwarded by using the entry.	As per the MIB.
ipMcastRouteTtlDroppedOctets (1.3.6.1.2.1.168.1.5.1.20)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of octets dropped because the TTL was too small.	Not supported
ipMcastRouteTtlDroppedPackets (1.3.6.1.2.1.168.1.5.1.21)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets dropped because the TTL was too small.	Not supported
ipMcastRouteDifferentInOctets (1.3.6.1.2.1.168.1.5.1.22)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of octets dropped because the receiving interface was incorrect.	As per the MIB.
ipMcastRouteDifferentInPackets (1.3.6.1.2.1.168.1.5.1.23)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets dropped because receiving interface was incorrect.	As per the MIB.
ipMcastRouteBps (1.3.6.1.2.1.168.1.5.1.24)	read-only	CounterBasedGauge64	INTEGER(0..18446744073709551615)	Bits per second forwarded by this router using the entry in the last second.	Not supported

ipMcastRouteNextHopTable

About this table

This table contains information about the next-hop on outgoing interfaces in a multicast routing entry.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipMcastRouteNextHopGroupAddressType, ipMcastRouteNextHopGroup, ipMcastRouteNextHopGroupPrefixLength, ipMcastRouteNextHopSourceAddressType, ipMcastRouteNextHopSource, ipMcastRouteNextHopSourcePrefixLength, ipMcastRouteNextHopIfIndex, ipMcastRouteNextHopAddressType, and ipMcastRouteNextHopAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastRouteNextHopGroupAddressType (1.3.6.1.2.1.168.1.6.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Type of the address in an entry.	As per the MIB.
ipMcastRouteNextHopGroup (1.3.6.1.2.1.168.1.6.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	Address of the multicast source address.	As per the MIB.
ipMcastRouteNextHopGroupPrefixLength (1.3.6.1.2.1.168.1.6.1.3)	not-accessible	InetAddressPrefix Length	Unsigned32(0..2040)	Mask length of the multicast group address.	As per the MIB.
ipMcastRouteNextHopSourceAddressType (1.3.6.1.2.1.168.1.6.1.4)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Type of the multicast source address.	As per the MIB.
ipMcastRouteNextHopSource (1.3.6.1.2.1.168.1.6.1.5)	not-accessible	InetAddress	OCTET STRING (0..255)	Multicast source address.	As per the MIB.
ipMcastRouteNextHopSourcePrefixLength (1.3.6.1.2.1.168.1.6.1.6)	not-accessible	InetAddressPrefix Length	Unsigned32(0..2040)	Prefix length of the multicast source.	As per the MIB.
ipMcastRouteNextHopIfIndex (1.3.6.1.2.1.168.1.6.1.7)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the outgoing interface for the next hop.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastRouteNextHopAddressType (1.3.6.1.2.1.168.1.6.1.8)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the next hop.	As per the MIB.
ipMcastRouteNextHopAddress (1.3.6.1.2.1.168.1.6.1.9)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the next-hop.	As per the MIB.
ipMcastRouteNextHopState (1.3.6.1.2.1.168.1.6.1.10)	read-only	INTEGER	pruned(1), forwarding(2)	Whether the next hop is currently being used to forward IP datagrams.	The value of this object is always forward(2).
ipMcastRouteNextHopTimeStamp (1.3.6.1.2.1.168.1.6.1.11)	read-only	TimeStamp	TimeTicks	Time when the next hop entry was added.	As per the MIB.
ipMcastRouteNextHopExpiryTime (1.3.6.1.2.1.168.1.6.1.12)	read-only	TimeTicks	Standard MIB values.	Time remaining before the next hop entry ages out.	As per the MIB.
ipMcastRouteNextHopClosestMemberHops (1.3.6.1.2.1.168.1.6.1.13)	read-only	Unsigned32	Unsigned32(0..256)	Minimum number of hops between this router and the nearest group member.	The value of this object is always 0.
ipMcastRouteNextHopProtocol (1.3.6.1.2.1.168.1.6.1.14)	read-only	IANAipMRouteProtocol	INTEGER { other(1), local(2), netmgmt(3), dvmrp(4), mospf(5), pimSparseDense(6), cbt(7), pimSparseMode(8), pimDenseMode(9), , igmpOnly(10), bgmp(11), msdp(12) }	Protocol through which the next hop entry was learned.	As per the MIB.
ipMcastRouteNextHopOctets (1.3.6.1.2.1.168.1.6.1.15)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of octets of multicast packets that have been forwarded using this next hop.	Not supported
ipMcastRouteNextHopPkts	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of packets which	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.168.1.6.1.16)			15)	have been forwarded using this next hop.	

ipMcastBoundaryTable

About this table

This table contains multicast boundary settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ipMcastBoundaryIfIndex, ipMcastBoundaryAddressType, ipMcastBoundaryAddress, and ipMcastBoundaryAddressPrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ipMcastBoundaryIfIndex (1.3.6.1.2.1.168.1.7.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface that is configured as the multicast boundary.	As per the MIB.
ipMcastBoundaryAddressType (1.3.6.1.2.1.168.1.7.1.2)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the multicast boundary.	As per the MIB.
ipMcastBoundaryAddress (1.3.6.1.2.1.168.1.7.1.3)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the multicast boundary.	As per the MIB.
ipMcastBoundaryAddressPrefixLength (1.3.6.1.2.1.168.1.7.1.4)	not-accessible	InetAddressPrefixLength	Unsigned32(0..2040)	Length of the mask which identifies the group range for which the scoped boundary exists.	As per the MIB.
ipMcastBoundaryTimeStamp (1.3.6.1.2.1.168.1.7.1.5)	read-only	TimeStamp	TimeTicks	Time when the multicast boundary entry was learned.	As per the MIB.
ipMcastBoundaryDroppedMcastOctets (1.3.6.1.2.1.168.1.7.1.6)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of octets of multicast packets that have been dropped by the multicast	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
				boundary.	
ipMcastBoundaryDroppedMcastPkts (1.3.6.1.2.1.168.1.7.1.7)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of multicast packets that have been dropped by the multicast boundary.	Not supported
ipMcastBoundaryStatus (1.3.6.1.2.1.168.1.7.1.8)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation. The value of this object is always (1).
ipMcastBoundaryStorageType (1.3.6.1.2.1.168.1.7.1.9)	read-create	StorageType	INTEGER { other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5) }	Row storage type.	Supports only the read operation. The value of this object is always readOnly(5).

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IPV6-MLD-MIB

About this MIB

Use this table to manage MLD.

This MIB contains the following tables:

- **MLD interface table**—Each row contains an interface that is enabled with MLD.
- **MLD cache table**—Each row contains an IPv6 multicast group that has members on an interface.

The tables are intended to be implemented by hosts and routers. However, some objects in the tables are applicable only to routers.

MIB file name

rfc3019-ipv6-mld.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).mldMIB(91)

Tabular objects

mldInterfaceTable

About this table

This table contains an interface that is enabled with MLD.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is mldInterfaceIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mldInterfaceIndex (1.3.6.1.2.1.91.1.1.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface enabled with MLD.	As per the MIB.
mldInterfaceQueryInterval (1.3.6.1.2.1.91.1.1.1.2)	read-create	Unsigned32	Unsigned32(1..31744)	General query interval, in seconds.	Value range: 1 to 31744.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mldInterfaceStatus (1.3.6.1.2.1.91.1.1.1.3)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
mldInterfaceVersion (1.3.6.1.2.1.91.1.1.1.4)	read-create	Unsigned32	Standard MIB values.	MLD version.	Value range: 1 to 2.
mldInterfaceQuerier (1.3.6.1.2.1.91.1.1.1.5)	read-only	InetAddressIPv6	OCTET STRING(16)	IP address of the MLD querier on the subnet to which the interface is attached.	As per the MIB.
mldInterfaceQueryMaxResponseDelay (1.3.6.1.2.1.91.1.1.1.6)	read-create	Unsigned32	Unsigned32(1..3174)	Maximum response time, in seconds.	Value range: 1 to 3174.
mldInterfaceJoins (1.3.6.1.2.1.91.1.1.1.7)	read-only	Counter32	INTEGER(0..4294967295)	Number of times a group membership has been added on the interface.	As per the MIB.
mldInterfaceGroups (1.3.6.1.2.1.91.1.1.1.8)	read-only	Gauge32	INTEGER(0..4294967295)	Number of group entries on the interface.	As per the MIB.
mldInterfaceRobustness (1.3.6.1.2.1.91.1.1.1.9)	read-create	Unsigned32	Unsigned32(1..255)	Robustness variable.	Value range: 1 to 155.
mldInterfaceLastListenQueryIntvl (1.3.6.1.2.1.91.1.1.1.10)	read-create	Unsigned32	Unsigned32(1..25)	Last member query interval, in seconds.	Value range: 1 to 25.
mldInterfaceProxyIfIndex (1.3.6.1.2.1.91.1.1.1.11)	read-create	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the interface that acts as the proxy.	Supports only the read operation.
mldInterfaceQuerierUpTime (1.3.6.1.2.1.91.1.1.1.12)	read-only	Timeticks	Standard MIB values.	Time elapsed since the MLD querier was changed.	As per the MIB.
mldInterfaceQuerierExpiryTime (1.3.6.1.2.1.91.1.1.1.13)	read-only	Timeticks	Standard MIB values.	Time remaining before the other querier present timer expires.	As per the MIB.

mldCacheTable

About this table

This table contains IPv6 multicast groups for which there are members on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are mldCacheAddress and mldCacheIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mldCacheAddress (1.3.6.1.2.1.91.1.2.1.1)	not-accessible	InetAddressIPv6	OCTET STRING (16)	IPv6 address of a multicast group.	As per the MIB.
mldCacheIfIndex (1.3.6.1.2.1.91.1.2.1.2)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface that has members of the IPv6 multicast group.	As per the MIB.
mldCacheSelf (1.3.6.1.2.1.91.1.2.1.3)	read-create	TruthValue	false(2)	whether the local system is a member of the group address on the interface.	Supports only the read operation. Supports only false(2).
mldCacheLastReporter (1.3.6.1.2.1.91.1.2.1.4)	read-only	InetAddressIPv6	OCTET STRING (16)	IPv6 address of the last host that joined the multicast group.	As per the MIB.
mldCacheUpTime (1.3.6.1.2.1.91.1.2.1.5)	read-only	Timeticks	Standard MIB values.	Time elapsed since this entry was created.	As per the MIB.
mldCacheExpiryTime (1.3.6.1.2.1.91.1.2.1.6)	read-only	Timeticks	Standard MIB values.	Time remaining before this entry ages out.	As per the MIB.
mldCacheStatus (1.3.6.1.2.1.91.1.2.1.7)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the read operation.

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MGMD-STD-MIB

About this MIB

Use this MIB to manage IGMPv1, IGMPv2, IGMPv3, MLDv1, and MLDv2.

This MIB contains the following tables:

- **MGMD host interface table**—Each row contains an interface that is enabled with IGMP or MLD.
- **MGMD router interface table**—Each row contains an interface that is enabled with MGMD.
- **MGMD host cache table**—Each row contains an IP multicast group for which there are members on a host interface.
- **MGMD router cache table**—Each row contains an IP multicast group for which there are members on a router interface.
- **MGMD reverse host table**—Each row contains a host interface that is a member of a multicast group.
- **MGMD reverse router table**—Each row contains a router interface that is a member of a multicast group.
- **MGMD host source list table**—Each row contains a source list entry corresponding to each interface and multicast group pair on a host.
- **MGMD router source list table**—Each row contains a source list entry corresponding to each interface and multicast group pair on a router.

All tables are used for the ETHER router or host function indicated by the name and corresponding description. In some cases, a device might have both the router and host functions. For example, a router that joins a multicast group as a host can be used for measurement purpose.

The source list table is an extension to the cache table, which explicitly indicates to include or exclude sources corresponding to multicast groups on an interface. Only IGMPv3 or MLDv2-capable nodes support the source list.

This MIB adds objects used to manage IGMP and MLD proxy devices as stated in RFC 4605. In a simple multicast topology that does not run multicast routing protocols, a proxy device can forward packets based on IGMP and MLD group memberships.

This MIB uses InterfaceIndex and InterfaceIndexOrZero objects defined by RFC 2863, which indicate identify an interface or interface sub-layer in the managed system.

This MIB also use InetAddress and InetAddressType objects defined in RFC 4001.

MIB file name

rfc5519-mgmd-std.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).mgmdStdMIB(185)

Tabular objects

mgmdRouterInterfaceTable

About this table

This MIB contains the interfaces on which IGMP or MLD is enabled.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are mgmdRouterInterfaceIndex and mgmdRouterInterfaceQuerierType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mgmdRouterInterfaceIndex (1.3.6.1.2.1.185.1.2.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface enabled with IGMP or MLD.	As per the MIB.
mgmdRouterInterfaceQuerierType (1.3.6.1.2.1.185.1.2.1.2)	not-accessible	InetAddressType	ipv4(1), ipv6(2)	Address type of the interface.	As per the MIB.
mgmdRouterInterfaceQuerier (1.3.6.1.2.1.185.1.2.1.3)	read-only	InetAddress	OCTET STRING (4 16)	Address of the querier on the IP subnet to which this interface is attached.	As per the MIB.
mgmdRouterInterfaceQueryInterval (1.3.6.1.2.1.185.1.2.1.4)	read-create	Unsigned32	Unsigned32(1..31744)	Frequency at which Host-Query packets are transmitted on this interface, in seconds.	As per the MIB.
mgmdRouterInterfaceStatus (1.3.6.1.2.1.185.1.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
mgmdRouterInterfaceVersion (1.3.6.1.2.1.185.1.2.1.6)	read-create	Unsigned32	Unsigned32(1..3)	Version of MGMT that is running on the interface.	Default: 2.
mgmdRouterInterfaceQueryMaxResponseTime (1.3.6.1.2.1.185.1.2.1.7)	read-create	Unsigned32	Unsigned32(0..31744)	Maximum query response interval, in 1/10 seconds.	Value range: 10 to 31740.
mgmdRouterInterfaceQuerierUpTime (1.3.6.1.2.1.185.1.2.1.8)	read-only	TimeTicks	Standard MIB values.	Time since the querier was last changed.	As per the MIB.
mgmdRouterInterfaceQuerierExpiryTime (1.3.6.1.2.1.185.1.2.1.9)	read-only	TimeTicks	Standard MIB values.	Time remaining before the MGMT other querier present timer	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
2.1.9)				expires.	
mgmdRouterInterfaceWrongVersionQueries (1.3.6.1.2.1.185.1.2.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Number of general queries received whose version does not match the specified version.	Not supported
mgmdRouterInterfaceJoins (1.3.6.1.2.1.185.1.2.1.11)	read-only	Counter32	INTEGER(0..4294967295)	Number of times a group membership has been added on this interface.	As per the MIB.
mgmdRouterInterfaceProxyIfIndex (1.3.6.1.2.1.185.1.2.1.12)	read-create	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the interface that acts as the proxy.	Supports only the read operation.
mgmdRouterInterfaceGroups (1.3.6.1.2.1.185.1.2.1.13)	read-only	Gauge32	INTEGER(0..4294967295)	Current number of entries for this interface.	As per the MIB.
mgmdRouterInterfaceRobustness (1.3.6.1.2.1.185.1.2.1.14)	read-create	Unsigned32	Unsigned32(1..255)	Robustness variable of the MGMT querier.	As per the MIB.
mgmdRouterInterfaceLastMemberQueryInterval (1.3.6.1.2.1.185.1.2.1.15)	read-create	Unsigned32	Unsigned32(0..31744)	Last member query interval on the interface, in 1/10 seconds.	Value range: 10 to 250.
mgmdRouterInterfaceLastMemberQueryCount (1.3.6.1.2.1.185.1.2.1.16)	read-only	Unsigned32	Unsigned32(1..255)	Last member query count on the interface.	As per the MIB.
mgmdRouterInterfaceStartupQueryCount (1.3.6.1.2.1.185.1.2.1.17)	read-only	Unsigned32	Unsigned32(1..255)	Startup query count on the interface.	As per the MIB.
mgmdRouterInterfaceStartupQueryInterval (1.3.6.1.2.1.185.1.2.1.18)	read-only	Unsigned32	Unsigned32(0..31744)	Startup query interval on the interface, in seconds.	Value range: 1 to 31744.

mgmdRouterCacheTable

About this table

This table contains multicast groups for which there are members on a router interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are mgmdRouterCacheAddressType, mgmdRouterCacheAddress, and mgmdRouterCacheIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mgmdRouterCacheAddressType (1.3.6.1.2.1.185.1.4.1.1)	not-accessible	InetAddressType	ipv4(1), ipv6(2)	Address type of a multicast group membership entry on an interface.	As per the MIB.
mgmdRouterCacheAddress (1.3.6.1.2.1.185.1.4.1.2)	not-accessible	InetAddress	OCTET STRING (4 16)	Address of the multicast group.	As per the MIB.
mgmdRouterCacheIfIndex (1.3.6.1.2.1.185.1.4.1.3)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface for which this entry contains information for the multicast group.	As per the MIB.
mgmdRouterCacheLastReporter (1.3.6.1.2.1.185.1.4.1.4)	read-only	InetAddress	OCTET STRING (4 16)	IP address of the last multicast receiver that joined the multicast group.	As per the MIB.
mgmdRouterCacheUpTime (1.3.6.1.2.1.185.1.4.1.5)	read-only	TimeTicks	Standard MIB values.	Time elapsed since this entry was created.	As per the MIB.
mgmdRouterCacheExpiryTime (1.3.6.1.2.1.185.1.4.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before the group membership interval state expires.	As per the MIB.
mgmdRouterCacheExcludeModeExpiryTimer (1.3.6.1.2.1.185.1.4.1.7)	read-only	TimeTicks	Standard MIB values.	Time remaining before the interface EXCLUDE state expires and the interface state transitions to INCLUDE mode. This object is applicable only to MGMDv3.	As per the MIB.
mgmdRouterCacheVersion1HostTimer (1.3.6.1.2.1.185.1.4.1.8)	read-only	TimeTicks	Standard MIB values.	Time remaining until the local router will assume that there are no longer any MGMD version 1 members on the	As per the MIB.

				IP subnet attached to this interface.	
mgmdRouterCacheVersion2HostTimer (1.3.6.1.2.1.185.1.4.1.9)	read-only	TimeTicks	Standard MIB values.	Time remaining until the local router will assume that there are no longer any MGMD version 2 members on the IP subnet attached to this interface.	As per the MIB.
mgmdRouterCacheSourceFilterMode (1.3.6.1.2.1.185.1.4.1.10)	read-only	INTEGER	include (1), exclude (2)	Current cache state, applicable to MGMDv3-compatible nodes.	As per the MIB.

mgmdInverseRouterCacheTable

About this table

This table contains the interfaces that are members of a multicast group. This is an inverse lookup table for entries in the mgmdRouterCacheTable.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are mgmdInverseRouterCacheIndex, mgmdInverseRouterCacheAddressType, and mgmdInverseRouterCacheAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mgmdInverseRouterCacheIndex (1.3.6.1.2.1.185.1.6.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Interface for which an entry contains information for an IP multicast group address.	As per the MIB.
mgmdInverseRouterCacheAddressType (1.3.6.1.2.1.185.1.6.1.2)	not-accessible	InetAddressType	ipv4(1), ipv6(2)	Address type of the entry.	As per the MIB.
mgmdInverseRouterCacheAddress (1.3.6.1.2.1.185.1.6.1.3)	read-only	InetAddress	OCTET STRING (4 16)	IP multicast group address for which this entry contains information.	As per the MIB.

mgmdRouterSrcListTable

About this table

This table contains the Source List entries corresponding to each interface and multicast group pair on a host.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are mgmdRouterSrcListAddressType, mgmdRouterSrcListAddress, mgmdRouterSrcListIfIndex, and mgmdRouterSrcListHostAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mgmdRouterSrcListAddressType (1.3.6.1.2.1.185.1.8.1.1)	not-accessible	InetAddressType	ipv4(1), ipv6(2)	Address type of the InetAddress variables in a table.	As per the MIB.
mgmdRouterSrcListAddress (1.3.6.1.2.1.185.1.8.1.2)	not-accessible	InetAddress	OCTET STRING (4 16)	Multicast group address for which this entry contains information.	As per the MIB.
mgmdRouterSrcListIfIndex (1.3.6.1.2.1.185.1.8.1.3)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface for which this entry contains information for an IP multicast group address.	As per the MIB.
mgmdRouterSrcListHostAddress (1.3.6.1.2.1.185.1.8.1.4)	not-accessible	InetAddress	OCTET STRING (4 16)	IP address of the multicast source to which this entry corresponds.	As per the MIB.
mgmdRouterSrcListExpire (1.3.6.1.2.1.185.1.8.1.5)	read-only	TimeTicks	Standard MIB values.	Time before this entry ages out.	As per the MIB.

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PIM-BSR-MIB

About this MIB

Use this MIB to manage PIM BSR settings.

MIB file name

rfc5240-pim-bsr.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).pimBsrMIB(172)

Tabular objects

pimBsrCandidateRPTable

About this table

This table contains the IP multicast group for which the local router is to advertise itself as a Candidate-RP.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimBsrCandidateRPAddressType, pimBsrCandidateRPAddress, pimBsrCandidateRPGroupAddress, and pimBsrCandidateRPGroupPrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBsrCandidateRPAddressType (1.3.6.1.2.1.172.1.1.1)	not-accessible	InetAddressType	ipv4(1), ipv6(2),	Address type of a C-RP.	Supports only values ipv4(1) and ipv6(2).
pimBsrCandidateRPAddress (1.3.6.1.2.1.172.1.1.2)	not-accessible	InetAddress	OCTET STRING (4 16)	IP address of the C-RP.	As per the MIB.
pimBsrCandidateRPGroupAddress (1.3.6.1.2.1.172.1.1.3)	not-accessible	InetAddress	OCTET STRING (4 16)	IP address of the multicast group for which the C-RP is advertised.	Supports only multicast group addresses.
pimBsrCandidateRPGroupPrefixLength (1.3.6.1.2.1.172.1.1.4)	not-accessible	InetAddressPrefixLength	Unsigned32(4..128)	Mask of the multicast group for which the C-RP is advertised.	Supports only multicast group addresses.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBsrCandidate RPBidir (1.3.6.1.2.1.172.1.1.1.5)	read-create	TruthValue	true(1), false(2)	PIM mode of the multicast group range for the RP, BIDIR-PIM or PIM-SM.	Read-only.
pimBsrCandidate RPAdvTimer (1.3.6.1.2.1.172.1.1.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a Candidate-RP-Advertisement to the elected BSR for this zone.	To disable this timer, set the value of this object to 0.
pimBsrCandidate RPPriority (1.3.6.1.2.1.172.1.1.1.7)	read-create	Unsigned32	Unsigned32(0..255)	Priority for the C-RP.	Read-only.
pimBsrCandidate RPAdvInterval (1.3.6.1.2.1.172.1.1.1.8)	read-create	Unsigned32	Unsigned32(1..26214)	Time interval between two consecutive advertisements, in seconds.	Read-only.
pimBsrCandidate RPHoldtime (1.3.6.1.2.1.172.1.1.1.9)	read-create	Unsigned32	Unsigned32(0..65535)	Holdtime for the C-RP.	Read-only. Value table: 1:1..65535.
pimBsrCandidate RPStatus (1.3.6.1.2.1.172.1.1.1.10)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Read-only. Supports only the following values: active(1), createAndGo(4), and destroy(6).
pimBsrCandidate RPStorageType (1.3.6.1.2.1.172.1.1.1.11)	read-create	StorageType	other(1)	Row storage type.	Read-only. Supports only value other(1).

pimBsrElectedBSRRPSetTable

About this table

This table contains BSR-specific information about PIM group mappings. It supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimBsrElectedBSRGrpMappingAddrType, pimBsrElectedBSRGrpMappingGrpAddr, pimBsrElectedBSRGrpMappingGrpPrefixLen, and pimBsrElectedBSRGrpMappingRPAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBsrElectedBSRGrpMappingAddrType (1.3.6.1.2.1.172.1.2.1.2)	not-accessible	InetAddressType	ipv4(1), ipv6(2)	Address type of a multicast group.	Supports only values ipv4(1) and ipv6(2).
pimBsrElectedBSRGrpMappingGrpAddr (1.3.6.1.2.1.172.1.2.1.3)	not-accessible	InetAddress	OCTET STRING (4 16)	IP address of the multicast group.	As per the MIB.
pimBsrElectedBSRGrpMappingGrpPrefixLen (1.3.6.1.2.1.172.1.2.1.4)	not-accessible	InetAddressPrefix Length	Unsigned32(4..128)	Mask of the multicast group address.	As per the MIB.
pimBsrElectedBSRGrpMappingRPAddr (1.3.6.1.2.1.172.1.2.1.5)	not-accessible	InetAddress	OCTET STRING (4 16)	IP address of the RP to be used for the multicast group.	As per the MIB.
pimBsrElectedBSRRPSetPriority (1.3.6.1.2.1.172.1.2.1.6)	read-only	Unsigned32	Unsigned32(0..255)	Priority of the RP.	As per the MIB.
pimBsrElectedBSRRPSetHoldtime (1.3.6.1.2.1.172.1.2.1.7)	read-only	Unsigned32	Unsigned32(0..65535)	Holdtime of the RP.	As per the MIB.
pimBsrElectedBSRRPSetExpiryTime (1.3.6.1.2.1.172.1.2.1.8)	read-only	TimeTicks	Standard MIB values.	Minimum time remaining before this entry will be aged out.	Value zero indicates that the entry will age out immediately.
pimBsrElectedBSRRPSetGrpBidir (1.3.6.1.2.1.172.1.2.1.9)	read-only	TruthValue	true(1), false(2)	PIM mode used for the multicast group, BIDIR-PIM or PIM-SM.	As per the MIB.

pimBsrCandidateBSRTable

About this table

This table contains C-BSR settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is pimBsrCandidateBSRZoneIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBsrCandidateBSRZoneIndex (1.3.6.1.2.1.172.1.3.1.1)	not-accessible	InetZoneIndex	Unsigned32(1..4294967295)	Index of the zone to which a C-BSR is attached.	Supports only 0xFFFFFFFF and 0X7FFFFFFF.
pimBsrCandidateBSRAddressType (1.3.6.1.2.1.172.1.3.1.2)	read-create	InetAddressType	ipv4(1), ipv6(2)	Address type of the C-BSR.	Supports only values ipv4(1) and ipv6(2).
pimBsrCandidateBSRAddress (1.3.6.1.2.1.172.1.3.1.3)	read-create	InetAddress	OCTET STRING (4 16)	IP address of the C-BSR.	As per the MIB.
pimBsrCandidateBSRPriority (1.3.6.1.2.1.172.1.3.1.4)	read-create	Unsigned32	Unsigned32(0..255)	Priority of the C-BSR.	Default: 1:64 (int). Value range: 1:0..255.
pimBsrCandidateBSRHashMaskLength (1.3.6.1.2.1.172.1.3.1.5)	read-create	Unsigned32	Unsigned32(0..32)	Mask length for the IP address of the C-BSR.	Value range: 1:0..32.
pimBsrCandidateBSRElectedBSR (1.3.6.1.2.1.172.1.3.1.6)	read-only	TruthValue	true(1), false(2)	Whether this router is a BSR.	As per the MIB.
pimBsrCandidateBSRBootstrapTimer (1.3.6.1.2.1.172.1.3.1.7)	read-only	TimeTicks	Standard MIB values.	Time remaining for this router to send the next BSR message.	As per the MIB.
pimBsrCandidateBSRStatus (1.3.6.1.2.1.172.1.3.1.8)	read-create	RowStatus	active(1) createAndGo(4) destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
pimBsrCandidateBSRStorageType (1.3.6.1.2.1.172.1.3.1.9)	read-create	StorageType	other(1)	Row storage type.	Read-only. Supports only value other(1).

pimBsrElectedBSRTable

About this table

This table contains BSR settings. It supports only the public network and does not support administratively-scoped zones.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported. Supports only index 0xffffffff. Supports only IPv4.

Columns

The table index is pimBsrElectedBSRZoneIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBsrElectedBSRZoneIndex (1.3.6.1.2.1.172.1.4.1.1)	not-accessible	InetZoneIndex	Unsigned32(1..4294967295)	Index of the zone to which a C-BSR is attached.	Supports only 0xFFFFFFFF0X7FFFFFFF.
pimBsrElectedBSRAddressType (1.3.6.1.2.1.172.1.4.1.2)	read-only	InetAddressType	ipv4(1), ipv6(2)	Address type of a BSR.	Supports only values ipv4(1) and ipv6(2).
pimBsrElectedBSRAddress (1.3.6.1.2.1.172.1.4.1.3)	read-only	InetAddress	OCTET STRING (4 16)	IP address of the BSR.	As per the MIB.
pimBsrElectedBSRPriority (1.3.6.1.2.1.172.1.4.1.4)	read-only	Unsigned32	Unsigned32(0..255)	Priority of the BSR.	As per the MIB.
pimBsrElectedBSRHashMaskLength (1.3.6.1.2.1.172.1.4.1.5)	read-only	Unsigned32	Unsigned32(0..128)	Mask length for the BSR's IP address.	Value range: 1:0..128.
pimBsrElectedBSRExpiryTime (1.3.6.1.2.1.172.1.4.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before the BSR ages out.	As per the MIB.

Notifications

pimBsrElectedBSRLostElection

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.172.0.1	Lost BSR election to a new E-BSR	Informational	Warning	N/A	ON

Description

This notification is generated when the current E-BSR lost election to a new E-BSR. Only E-BSR will generate this notification.

Status control

ON

CLI: Use the `snmp-agent trap enable { pim | pim6 } elected-bsr-lost-election` command.

OFF

CLI: Use the `undo snmp-agent trap enable { pim | pim6 } elected-bsr-lost-election` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.172.1.4.1.2 (pimBsrElectedBSRAddressType)	Address type of a BSR.	No	InetAddressType	ipv4(1) ipv6(2)
1.3.6.1.2.1.172.1.4.1.3 (pimBsrElectedBSRAddress)	IP address of the BSR.	No	InetAddress	OCTET STRING (4 16)
1.3.6.1.2.1.172.1.4.1.4 (pimBsrElectedBSRPriority)	Priority of the BSR.	No	Unsigned32	Unsigned32(0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that whether this notification is generated because of BSR or C-BSR configuration change.
2. Verify that other PIM routers are operating correctly.
3. Verify that the local router has sufficient memory.
4. Verify that the local router does not have link failures.
5. If the issue persists, contact H3C Support.

pimBsrCandidateBSRWinElection

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.172.0.2	Win of BSR election.	Informational	Warning	N/A	ON

Description

This notification is generated when a C-BSR was elected as the E-BSR. Only E-BSR will generate this notification.

Status control

ON

CLI: Use the `snmp-agent trap enable { pim | pim6 } candidate-bsr-win-election` command.

OFF

CLI: Use the `undo snmp-agent trap enable { pim | pim6 } candidate-bsr-win-election` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.172.1.3.1.6 (pimBsrCandidateBSRElectedBSR)	Whether this router is the E-BSR.	No	TruthValue	true(1) false(2)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that whether this notification is generated because of BSR or C-BSR configuration change.
2. Verify that other PIM routers are operating correctly.
3. Verify that the local router has sufficient memory.
4. Verify that the local router does not have link failures.
5. If the issue persists, contact H3C Support.

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PIM-STD-MIB

About this MIB

Use this MIB to manage PIM routers.

MIB file name

rfc5060-pim-std.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).pimStdMIB(157)

Scalar objects

pimKeepalivePeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimKeepalivePeriod (1.3.6.1.2.1.157.1.14)	read-write	Unsigned32	Unsigned32(0..65535)	Duration of the Keepalive timer.	Supports only IPv4. Value range: 1:0..65535. When write, this object might first create a PIM view.

pimRegisterSuppressionTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimRegisterSuppressionTime (1.3.6.1.2.1.157.1.15)	read-write	Unsigned32	Unsigned32(0..65535)	Duration of the register suppression timer.	Supports only IPv4. Value range: 1:1..65535. When write, this object might first create a PIM view.

pimStarGEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimStarGEntries (1.3.6.1.2.1.157.1.16)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimStarGTable.	As per the MIB.

pimStarGIEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimStarGIEntries (1.3.6.1.2.1.157.1.17)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimStarGITable.	As per the MIB.

pimSGEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGEntries (1.3.6.1.2.1.157.1.18)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimSGTable.	As per the MIB.

pimSGIEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGIEntries (1.3.6.1.2.1.157.1.19)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimSGITable.	As per the MIB.

pimSGRptEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGRptEntries (1.3.6.1.2.1.157.1.20)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimSGRptTable.	As per the MIB.

pimSGRptLEntries

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGRptLEntries (1.3.6.1.2.1.157.1.21)	read-only	Gauge32	INTEGER(0..4294967295)	Number of entries in the pimSGRptLTable.	As per the MIB.

pimOutAsserts

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimOutAsserts (1.3.6.1.2.1.157.1.22)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of Asserts sent by this router.	As per the MIB.

pimInAsserts

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInAsserts (1.3.6.1.2.1.157.1.23)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of Asserts received by this router.	As per the MIB.

pimLastAssertInterface

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimLastAssertInterface (1.3.6.1.2.1.157.1.24)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Interface on which this router most recently sent or received an assert. If this router has not sent or received an assert, then this object is set to zero.	As per the MIB.

pimLastAssertGroupAddressType

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimLastAssertGroupAddressType (1.3.6.1.2.1.157.1.25)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type of the multicast group address in the most recently sent or received assert. If this router has not sent or received an assert, then this object is set to unknown(0).	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).

pimLastAssertGroupAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimLastAssertGroupAddress (1.3.6.1.2.1.157.1.26)	read-only	InetAddress	OCTET STRING (0..255)	Multicast group address in the most recently sent or received assert. The InetAddressType is given by the pimLastAssertGroupAddressType	As per the MIB.

				object.	
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pimLastAssertSourceAddressType

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimLastAssertSourceAddressType (1.3.6.1.2.1.157.1.27)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type of the source address in the most recently sent or received assert. If the most recent assert was (*,G), or if this router has not sent or received an assert, then this object is set to unknown(0).	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).

pimLastAssertSourceAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimLastAssertSourceAddress (1.3.6.1.2.1.157.1.28)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Source address in the most recently sent or received assert. The InetAddressType is given by the pimLastAssertSourceAddressType object.	As per the MIB.

pimNeighborLossNotificationPeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimNeighborLossNotificationPeriod (1.3.6.1.2.1.157.1.29)	read-write	Unsigned32	Unsigned32(0..65535)	Minimum time that must elapse between pimNeighborLoss notifications originated by this router.	Read-only. Supports only value 0.

pimNeighborLossCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimNeighborLossCount (1.3.6.1.2.1.157.1.30)	read-only	Counter32	INTEGER(0..4294967295)	Number of neighbor loss events that have	As per the MIB.

30)				occurred.	
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pimInvalidRegisterNotificationPeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterNotificationPeriod (1.3.6.1.2.1.157.1.31)	read-write	Unsigned32	Unsigned32(10..65535)	Minimum time that must elapse between pimInvalidRegister notifications originated by this router.	Read-only. Supports only value 65535.

pimInvalidRegisterMsgsRcvd

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterMsgsRcvd (1.3.6.1.2.1.157.1.32)	read-only	Counter32	INTEGER(0..4294967295)	Number of invalid PIM register messages that have been received by this router.	As per the MIB.

pimInvalidRegisterAddressType

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterAddressType (1.3.6.1.2.1.157.1.33)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type stored in pimInvalidRegisterOrigin, pimInvalidRegisterGroup, and pimInvalidRegisterRp.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).

pimInvalidRegisterOrigin

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterOrigin (1.3.6.1.2.1.157.1.34)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Source address of the last invalid register message received by this device .	As per the MIB.

pimInvalidRegisterGroup

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterGroup (1.3.6.1.2.1.157.1.35)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP multicast group address to which the last invalid register message received by this device was addressed.	As per the MIB.

pimInvalidRegisterRp

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidRegisterRp (1.3.6.1.2.1.157.1.36)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	RP address to which the last invalid Register message received by this device was delivered.	As per the MIB.

pimInvalidJoinPruneNotificationPeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneNotificationPeriod (1.3.6.1.2.1.157.1.37)	read-write	Unsigned32	Unsigned32(10..65535)	Minimum time that must elapse between pimInvalidJoinPrune notifications originated by this router.	Read-only. Supports only value 65535.

pimInvalidJoinPruneMsgsRcvd

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneMsgsRcvd (1.3.6.1.2.1.157.1.38)	read-only	Counter32	INTEGER(0..4294967295)	Number of invalid PIM Join/Prune messages that have been received by this device.	As per the MIB.

pimInvalidJoinPruneAddressType

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneAddressType (1.3.6.1.2.1.157.1.39)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2)}	Address type stored in pimInvalidJoinPruneOrigin.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).

39)			ipv6(2) }	pimInvalidJoinPruneGroup, and pimInvalidJoinPruneRp.	ipv6(2).
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pimInvalidJoinPruneOrigin

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneOrigin (1.3.6.1.2.1.157.1.40)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Source address of the last invalid join/prune message received by this device.	As per the MIB.

pimInvalidJoinPruneGroup

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneGroup (1.3.6.1.2.1.157.1.41)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP multicast group address carried in the last invalid join/prune message received by this device.	As per the MIB.

pimInvalidJoinPruneRp

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInvalidJoinPruneRp (1.3.6.1.2.1.157.1.42)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	RP address carried in the last invalid join/prune message received by this device.	As per the MIB.

pimRPMappingNotificationPeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimRPMappingNotificationPeriod (1.3.6.1.2.1.157.1.43)	read-write	Unsigned32	Unsigned32(0..65535)	Minimum time that must elapse between pimRPMappingChange notifications originated by this router.	Read-only. Supports only value 65535.

pimRPMappingChangeCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimRPMappingChangeCount (1.3.6.1.2.1.157.1.44)	read-only	Counter32	INTEGER(0..4294967295)	Number of changes to active RP mappings on this device.	Not supported

pimInterfaceElectionNotificationPeriod

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInterfaceElectionNotificationPeriod (1.3.6.1.2.1.157.1.45)	read-write	Unsigned32	Unsigned32(0..65535)	Minimum time that must elapse between pimInterfaceElection notifications originated by this router.	Not supported.

pimInterfaceElectionWinCount

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInterfaceElectionWinCount (1.3.6.1.2.1.157.1.46)	read-only	Counter32	INTEGER(0..4294967295)	Number of times this device has been elected as DR or DF on any interface.	Not supported.

pimRefreshInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimRefreshInterval (1.3.6.1.2.1.157.1.47)	read-write	Unsigned32	Unsigned32(0..65535)	Interval between successive state refresh messages sent by an originator.	Supports only IPv4. Value range: 1:1..255. When write, this object might first create a PIM view.

pimDeviceConfigStorageType

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimDeviceConfigStorageType (1.3.6.1.2.1.157.1.48)	read-write	StorageType	INTEGER { other(1), volatile(2), nonVolatile(3),	Storage type used for the global PIM configuration of this device.	Read-only.

			permanent(4), readOnly(5) }		
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Tabular objects

pimInterfaceTable

About this table

This table contains PIM interface settings. This table supports only the public network and is available only when the interface runs in the PIM-SM mode.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are pimInterfaceIndex and pimInterfaceIPVersion.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInterfaceIndex (1.3.6.1.2.1.157.1.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of an interface.	As per the MIB.
pimInterfaceIPVersion (1.3.6.1.2.1.157.1.1.2)	not-accessible	InetVersion	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	IP version of this PIM interface.	As per the MIB.
PimInterfaceAddressType (1.3.6.1.2.1.157.1.1.3)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type of this PIM interface.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
PimInterfaceAddress (1.3.6.1.2.1.157.1.1.4)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Primary IP address of this router on this PIM interface.	As per the MIB.
pimInterfaceGenerationIDValue (1.3.6.1.2.1.157.1.1.5)	read-only	Unsigned32	Standard MIB values.	Value of the Generation ID this router inserted in the last PIM hello message it sent on this interface.	0 means an invalid value.
pimInterfaceDR (1.3.6.1.2.1.157.1.1.6)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Primary IP address of the DR on this PIM interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInterfaceDRPriority (1.3.6.1.2.1.157.1.1.1.7)	read-create	Unsigned32	Standard MIB values.	DR priority value inserted into the DR Priority option in PIM Hello messages transmitted on this interface.	As per the MIB.
pimInterfaceDRPriorityEnabled (1.3.6.1.2.1.157.1.1.1.8)	read-only	TruthValue	true(1), false(2)	Whether all routers on this interface are using the DR Priority option.	As per the MIB.
pimInterfaceHelloInterval (1.3.6.1.2.1.157.1.1.1.9)	read-create	Unsigned32	Unsigned32(0..18000)	Interval at which PIM Hello messages are transmitted on this interface	Value range: 1:0..18000.
pimInterfaceTrigHelloInterval (1.3.6.1.2.1.157.1.1.1.10)	read-create	Unsigned32	Unsigned32(0..60)	Maximum time before this router sends a triggered PIM hello message on this interface.	Value range: 1:1..60.
pimInterfaceHelloHoldtime (1.3.6.1.2.1.157.1.1.1.11)	read-create	Unsigned32	Unsigned32(0..65535)	Value set in the Holdtime field of PIM Hello messages transmitted on this interface.	Value range: 1:1..65535.
pimInterfaceJoinPruneInterval (1.3.6.1.2.1.157.1.1.1.12)	read-create	Unsigned32	Unsigned32(0..18000)	Interval at which this router sends PIM Join/Prune messages on this PIM interface.	Value range: 1:0..18000.
pimInterfaceJoinPruneHoldtime (1.3.6.1.2.1.157.1.1.1.13)	read-create	Unsigned32	Unsigned32(0..65535)	Value inserted into the Holdtime field of a PIM Join/Prune message sent on this interface.	Value range: 1:1..65535.
pimInterfaceDFElectionRobustness (1.3.6.1.2.1.157.1.1.1.14)	read-create	Unsigned32	Standard MIB values.	Minimum number of PIM DF-Election messages that must be lost in order for DF election on this interface to fail.	Read-only. Supports only value 3.
pimInterfaceLanDelayEnabled (1.3.6.1.2.1.157.1.1.1.15)	read-only	TruthValue	true(1), false(2)	Whether all routers on this interface are using the LAN Prune Delay option.	As per the MIB.
pimInterfacePropagationDelay (1.3.6.1.2.1.157.1.1.1.16)	read-create	Unsigned32	Unsigned32(0..32767)	Expected propagation delay between PIM routers on this network or link.	Value range: 1:1..32767.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimInterfaceOverrideInterval (1.3.6.1.2.1.157.1.1.17)	read-create	Unsigned32	Unsigned32(0..65535)	Value this router inserts into the Override_Interval field of the LAN Prune Delay option in the PIM Hello messages it sends on this interface.	Value range: 1:1..65535.
pimInterfaceEffectPropagDelay (1.3.6.1.2.1.157.1.1.18)	read-only	Unsigned32	Unsigned32(0..32767)	Effective Propagation Delay on this interface.	As per the MIB.
pimInterfaceEffectOverrideInterval (1.3.6.1.2.1.157.1.1.19)	read-only	Unsigned32	Unsigned32(0..65535)	Effective Override Interval on this interface.	As per the MIB.
pimInterfaceSuppressionEnabled (1.3.6.1.2.1.157.1.1.20)	read-only	TruthValue	true(1), false(2)	Whether join suppression is enabled on this interface.	As per the MIB.
pimInterfaceBidirectionalCapable (1.3.6.1.2.1.157.1.1.21)	read-only	TruthValue	true(1), false(2)	Whether all routers on this interface are using the Bidirectional-PIM Capable option.	As per the MIB.
pimInterfaceDomainBorder (1.3.6.1.2.1.157.1.1.22)	read-create	TruthValue	true(1), false(2)	Whether this interface is a PIM domain border.	As per the MIB.
pimInterfaceStubInterface (1.3.6.1.2.1.157.1.1.23)	read-create	TruthValue	true(1), false(2)	Whether this interface is a stub interface.	Read-only. The value of this object value is always false(2).
pimInterfacePruneLimitInterval (1.3.6.1.2.1.157.1.1.24)	read-create	Unsigned32	Unsigned32(0..65535)	Minimum interval that must transpire between two successive Prunes sent by a router.	Read-only. Value range: 1:1..65535 Default: 1:210(int).
pimInterfaceGraftRetryInterval (1.3.6.1.2.1.157.1.1.25)	read-create	Unsigned32	Unsigned32(0..65535)	Minimum interval that must elapse between two successive Grafts sent by a Pim-DM router.	Value range: 1:1..65535
pimInterfaceSRPriorityEnabled (1.3.6.1.2.1.157.1.1.26)	read-only	TruthValue	true(1), false(2)	Whether all routers on this interface are using the State Refresh option.	As per the MIB.
pimInterfaceStatus (1.3.6.1.2.1.157.1.1.27)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	Supports only the following values: <ul style="list-style-type: none"> active(1).

Object (OID)	Access	Syntax	Value range	Description	Implementation
					<ul style="list-style-type: none"> createAndGo(4)—Enable PIM-SM on this interface. destroy(6)—Disable PIM-SM on this interface.
pimInterfaceStorageType (1.3.6.1.2.1.157.1.1.28)	read-create	StorageType	other(1)	Row storage type.	Read-only. Supports only value other(1).

pimNeighborTable

About this table

This table contains PIM neighbor settings. This table supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimNeighborIfIndex, pimNeighborAddressType, and pimNeighborAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimNeighborIfIndex (1.3.6.1.2.1.157.1.2.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface used to reach this PIM neighbor.	As per the MIB.
pimNeighborAddressType (1.3.6.1.2.1.157.1.2.1.2)	not-accessible	InetAddressType	INTEGER{ ipv4(1), ipv6(2) }	Address type of this PIM neighbor.	Supports only the following values: ipv4(1) and ipv6(2).
pimNeighborAddress (1.3.6.1.2.1.157.1.2.1.3)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Primary IP address of this PIM neighbor.	As per the MIB.
pimNeighborGenerationIDPresent (1.3.6.1.2.1.157.1.2.1.4)	read-only	TruthValue	true(1), false(2)	Whether this neighbor is using the Generation ID option.	As per the MIB.
pimNeighborGenerationIDValue (1.3.6.1.2.1.157.1.2.1.5)	read-only	Unsigned32	Standard MIB values.	Value of the Generation ID from the last PIM Hello message received from this neighbor.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimNeighborUpTime (1.3.6.1.2.1.157.1.2.1.6)	read-only	TimeTicks	Standard MIB values.	Time since this PIM neighbor (last) became a neighbor of the local router.	As per the MIB.
pimNeighborExpiryTime (1.3.6.1.2.1.157.1.2.1.7)	read-only	TimeTicks	Standard MIB values.	Minimum time remaining before this PIM neighbor will time out.	As per the MIB.
pimNeighborDRPriorityPresent (1.3.6.1.2.1.157.1.2.1.8)	read-only	TruthValue	true(1), false(2)	Whether this neighbor is using the DR Priority option.	As per the MIB.
pimNeighborDRPriority (1.3.6.1.2.1.157.1.2.1.9)	read-only	Unsigned32	Standard MIB values.	Value of the Designated Router Priority from the last PIM Hello message received from this neighbor.	As per the MIB.
pimNeighborLanPruneDelayPresent (1.3.6.1.2.1.157.1.2.1.10)	read-only	TruthValue	true(1), false(2)	Whether this neighbor is using the LAN Prune Delay option.	As per the MIB.
pimNeighborTBit (1.3.6.1.2.1.157.1.2.1.11)	read-only	TruthValue	true(1), false(2)	Whether the T bit was set in the LAN Prune Delay option received from this neighbor.	As per the MIB.
pimNeighborPropagationDelay (1.3.6.1.2.1.157.1.2.1.12)	read-only	Unsigned32	Unsigned32(0..32767)	Value of the Propagation_Delay field of the LAN Prune Delay option received from this neighbor.	As per the MIB.
PimNeighborOverrideInterval (1.3.6.1.2.1.157.1.2.1.13)	read-only	Unsigned32	Unsigned32(0..65535)	Value of the Override_Interval field of the LAN Prune Delay option received from this neighbor.	As per the MIB.
pimNeighborBidirCapable (1.3.6.1.2.1.157.1.2.1.14)	read-only	TruthValue	true(1), false(2)	Whether this neighbor is using the Bidirectional-PIM Capable option.	As per the MIB.
pimNeighborSRCapable (1.3.6.1.2.1.157.1.2.1.15)	read-only	TruthValue	true(1), false(2)	Whether this neighbor is using the State Refresh Capable option.	As per the MIB.

pimNbrSecAddressTable

About this table

This table contains secondary addresses advertised by a PIM neighbor.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimNbrSecAddressIfIndex, pimNbrSecAddressType, pimNbrSecAddressPrimary, and pimNbrSecAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimNbrSecAddressIfIndex (1.3.6.1.2.1.157.1.3.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface used to reach this PIM neighbor.	As per the MIB.
pimNbrSecAddressType (1.3.6.1.2.1.157.1.3.1.2)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of this PIM neighbor.	As per the MIB.
pimNbrSecAddressPrimary (1.3.6.1.2.1.157.1.3.1.3)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Primary IP address of this PIM neighbor.	As per the MIB.
pimNbrSecAddress (1.3.6.1.2.1.157.1.3.1.4)	read-only	InetAddress	OCTET STRING (4 8 16 20)	Secondary IP address of this PIM neighbor.	Supports only value ipv6(2).

pimStarGTable

About this table

This table contains the non-interface specific (*,G) state that PIM has. This table supports only the public network and is available only to PIM-SM.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimStarGAddressType and pimStarGGrpAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimStarGAddressType (1.3.6.1.2.1.157.1.4.1.1)	not-accessible	InetAddressType	INTEGER{ ipv4(1), ipv6(2) }	Address type of a multicast group.	Supports only the following values: ipv4(1) and ipv6(2).
pimStarGGrpAddress (1.3.6.1.2.1.157.1.4.1.2)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Multicast group address.	As per the MIB.
pimStarGUpTime (1.3.6.1.2.1.157.1.4.1.3)	read-only	TimeTicks	Standard MIB values.	Time since this entry was created by the local router.	As per the MIB.
pimStarGPimMode (1.3.6.1.2.1.157.1.4.1.4)	read-only	PimMode	asm(3), bidir(4)	PIM mode of this entry: ASM or BIDIR-PIM.	Supports only the following values: asm(3) and bidir(4).
pimStarGRPAddressType (1.3.6.1.2.1.157.1.4.1.5)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type of the RP.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2). This object is associated with the current designated RP, which might be different from the actual RP.
pimStarGRPAddress (1.3.6.1.2.1.157.1.4.1.6)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP address of the RP for the group.	This object is associated with the current designated RP, which might be different from the actual RP.
pimStarGPimModeOrigin (1.3.6.1.2.1.157.1.4.1.7)	read-only	PimGroupMappingOriginType	INTEGER { fixed(1), configRp(2), configSsm(3), bsr(4), autoRP(5), embedded(6), other(7) }	Mechanism by which the PIM mode and RP for the group were learned.	Supported only the following values: configRp (2), bsr(4), and other(7).
pimStarGRPIsLocal (1.3.6.1.2.1.157.1.4.1.8)	read-only	TruthValue	true(1), false(2)	Whether the local router is the RP for the group.	As per the MIB. This object is associated with the current designated RP, which might be different from the actual RP.
pimStarGUpstream	read-only	INTEGER	notJoined (1),	Whether the local	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mJoinState (1.3.6.1.2.1.157.1.4.1.9)			joined (2)	router should join the RP tree for the group.	
pimStarGUpstreamJoinTimer (1.3.6.1.2.1.157.1.4.1.10)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a next periodic (*,G) Join message.	As per the MIB.
pimStarGUpstreamNeighborType (1.3.6.1.2.1.157.1.4.1.11)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Primary address type of the upstream neighbor.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
pimStarGUpstreamNeighbor (1.3.6.1.2.1.157.1.4.1.12)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Primary address type of the upstream neighbor.	As per the MIB.
PimStarGRPFInterfaceIndex (1.3.6.1.2.1.157.1.4.1.13)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the RPF towards the RP.	As per the MIB.
pimStarGRPFNextHopType (1.3.6.1.2.1.157.1.4.1.14)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2) }	Address type of the RPF next hop towards the RP.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
pimStarGRPFNextHop (1.3.6.1.2.1.157.1.4.1.15)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Address of the RPF next hop towards the RP.	As per the MIB.
pimStarGRPFRouteProtocol (1.3.6.1.2.1.157.1.4.1.16)	read-only	IANAipRouteProtocol	other(1) local(2) netmgmt(3) rip(8) isis(9) ospf(13) bgp(14)	Routing mechanism via which the route used to find the RPF interface towards the RP was learned.	Supports only the following values: <ul style="list-style-type: none"> • other(1). • local(2). • netmgmt(3). • rip(8). • isis(9). • ospf(13). • bgp(14).
pimStarGRPFRouteAddress (1.3.6.1.2.1.157.1.4.1.17)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP address that identifies the route used to find the RPF interface towards the RP.	As per the MIB.
pimStarGRPFRoutePrefixLength (1.3.6.1.2.1.157.1.4.1.18)	read-only	InetAddressPrefixLength	Unsigned32(0..2040)	Prefix length that identifies the route used to find the RPF interface towards the RP.	If pimStarGRPFInterfaceIndex is 0, this object value is always 0.
pimStarGRPFRouteMetricPreference (1.3.6.1.2.1.157.1.4.1.19)	read-only	Unsigned32	Unsigned32(0..2147483647)	Metric preference of the route used to find the RPF	If pimStarGRPFInterfaceIndex is 0, this object

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.157.1.4.1.19)				interface towards the RP.	value is always 2147483647.
pimStarGRPFRoutingMetric (1.3.6.1.2.1.157.1.4.1.20)	read-only	Unsigned32	Standard MIB values.	Routing metric of the route used to find the RPF interface towards the RP.	If pimStarGRPFRoutingIndex is 0, this object value is always 4294967295.

pimStarGITable

About this table

This table contains interface-specific (*,G) state that PIM has. This table supports only the public network and is available only to PIM-SM.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimStarGAddressType, pimStarGGrpAddress, and pimStarGIIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimStarGIIfIndex (1.3.6.1.2.1.157.1.5.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface that an entry corresponds to.	As per the MIB.
pimStarGIUpTime (1.3.6.1.2.1.157.1.5.1.2)	read-only	TimeTicks	Standard MIB values.	Time since this entry was created by the local router.	Not supported
pimStarGILocalMembership (1.3.6.1.2.1.157.1.5.1.3)	read-only	TruthValue	true(1), false(2)	Whether the local router has (*,G) local membership on this interface.	As per the MIB.
pimStarGIJoinPruneState (1.3.6.1.2.1.157.1.5.1.4)	read-only	INTEGER	noInfo (1), join (2), prunePending (3)	State resulting from (*,G) Join/Prune messages received on this interface.	As per the MIB.
pimStarGIPrunePendingTimer (1.3.6.1.2.1.157.1.5.1.5)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router acts on a (*,G) Prune message received on this interface, during which the router is waiting to see whether another downstream	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				router will override the Prune message.	
pimStarGJoinExpiryTimer (1.3.6.1.2.1.157.1.5.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before (*,G) Join state for this interface expires.	As per the MIB.
pimStarGAssertState (1.3.6.1.2.1.157.1.5.1.7)	read-only	INTEGER	noInfo (1), iAmAssertWinner (2), iAmAssertLoser (3)	(*,G) Assert state for this interface.	Not supported
pimStarGAssertTimer (1.3.6.1.2.1.157.1.5.1.8)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router next sends a (*,G) Assert message on this interface.	Not supported
pimStarGAssertWinnerAddressType (1.3.6.1.2.1.157.1.5.1.9)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the assert winner.	Not supported
pimStarGAssertWinnerAddress (1.3.6.1.2.1.157.1.5.1.10)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP address of the assert winner.	Not supported
pimStarGAssertWinnerMetricPref (1.3.6.1.2.1.157.1.5.1.11)	read-only	Unsigned32	Unsigned32(0..2147483647)	Metric preference of the route to the RP advertised by the assert winner.	Not supported
pimStarGAssertWinnerMetric (1.3.6.1.2.1.157.1.5.1.12)	read-only	Unsigned32	Standard MIB values.	Routing metric of the route to the RP advertised by the assert winner.	Not supported

pimSGTable

About this table

This table contains the non-interface specific (S,G) state that PIM has. This table supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimSGAddressType, pimSGGrpAddress, and pimSGSrcAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGAddressType (1.3.6.1.2.1.157.1.6.1.1)	not-accessible	InetAddressType	INTEGER{ ipv4(1), ipv6(2), }	Address type of the source and multicast group for an entry.	Supports only the following values: ipv4(1) and ipv6(2).
pimSGGrpAddresses (1.3.6.1.2.1.157.1.6.1.2)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Multicast group address for this entry.	As per the MIB.
pimSGSrcAddress (1.3.6.1.2.1.157.1.6.1.3)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Source address for this entry.	As per the MIB.
pimSGUpTime (1.3.6.1.2.1.157.1.6.1.4)	read-only	TimeTicks	Standard MIB values.	Time since this entry was created by the local router.	As per the MIB.
pimSGPimMode (1.3.6.1.2.1.157.1.6.1.5)	read-only	PimMode	ssm(2), asm(3)	PIM mode of the group for this entry, SSM or ASM.	Supports only the following values: ssm(2), asm(3), and dm(5).
pimSGUpstreamJoinState (1.3.6.1.2.1.157.1.6.1.6)	read-only	INTEGER	notJoined (1), joined (2)	Whether the local router should join the SPT for the source and group represented by this entry.	If the PIM mode is not PIM-SM, this object value is always joined (2).
pimSGUpstreamJoinTimer (1.3.6.1.2.1.157.1.6.1.7)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a next periodic (S,G) Join message.	As per the MIB.
pimSGUpstreamNeighbor (1.3.6.1.2.1.157.1.6.1.8)	read-only	InetAddress	OCTET STRING (4 8 16 20)	Primary IP address of the upstream neighbor.	As per the MIB.
pimSGRPFInterfaceIndex (1.3.6.1.2.1.157.1.6.1.9)	read-only	InterfaceIndexOrZero	Integer32(0..2147483647)	Index of the RPF interface towards the source.	As per the MIB.
pimSGRPFNextHopType (1.3.6.1.2.1.157.1.6.1.10)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of the RPF next hop towards the source.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
pimSGRPFNextHop (1.3.6.1.2.1.157.1.6.1.11)	read-only	InetAddress	OCTET STRING (4 8 16 20)	IP address of the RPF next hop towards the source.	As per the MIB.
pimSGRPFRouteProtocol (1.3.6.1.2.1.157.1.6.1.12)	read-only	IANAipRouteProtocol	INTEGER { other (1), }	Routing mechanism via which the route used to find the	Supports only the following values: • other(1).

Object (OID)	Access	Syntax	Value range	Description	Implementation
6.1.12)			local (2), netmgmt (3), icmp(4), egp (5), ggp (6), hello (7), rip (8), isis (9), esls (10), ciscogr (11), bbnSpf (12), ospf (13), bgp (14), idpr (15), ciscoEigrp (16), dvmrp (17) }	RPF interface towards the source was learned.	<ul style="list-style-type: none"> • local(2). • netmgmt(3). • rip(8). • isis(9). • ospf(13). • bgp(14).
pimSGRPFRoute Address (1.3.6.1.2.1.157.1.6.1.13)	read-only	InetAddress	OCTET STRING (4 8 16 20)	IP address that identifies the route used to find the RPF interface towards the source.	As per the MIB.
pimSGRPFRoute PrefixLength (1.3.6.1.2.1.157.1.6.1.14)	read-only	InetAddressPrefix Length	Unsigned32(0..2040)	Prefix length that identifies the route used to find the RPF interface towards the source.	If pimSGRPFIndex is 0, this object value is always 0.
pimSGRPFRoute MetricPref (1.3.6.1.2.1.157.1.6.1.15)	read-only	Unsigned32	Unsigned32(0..2147483647)	Metric preference of the route used to find the RPF interface towards the source.	If pimSGRPFIndex is 0, this object value is always 2147483647.
pimSGRPFRoute Metric (1.3.6.1.2.1.157.1.6.1.16)	read-only	Unsigned32	Standard MIB values.	Routing metric of the route used to find the RPF interface towards the source.	If pimSGRPFIndex is 0, this object is 4294967295.
pimSGSPTBit (1.3.6.1.2.1.157.1.6.1.17)	read-only	TruthValue	true(1), false(2)	Whether the SPT bit is set.	As per the MIB.
pimSGKeepaliveTimer (1.3.6.1.2.1.157.1.6.1.18)	read-only	TimeTicks	Standard MIB values.	Time remaining before this (S,G) state expires.	If the PIM mode is not PIM-SM, this object value is always 0.
pimSGDRRegister State (1.3.6.1.2.1.157.1.6.1.19)	read-only	INTEGER	noInfo (1), join (2), joinPending (3), prune (4)	Whether the local router should encapsulate (S,G) data packets in Register messages and send them to the RP.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGDRRegisterStopTimer (1.3.6.1.2.1.157.1.6.1.20)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a Null-Register message to the RP.	As per the MIB.
pimSGRPRegisterPMBRAAddressType (1.3.6.1.2.1.157.1.6.1.21)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the first PIM Multicast Border Router to send a Register message with the Border bit set.	Not supported
pimSGRPRegisterPMBRAAddress (1.3.6.1.2.1.157.1.6.1.22)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP address of the first PIM Multicast Border Router to send a Register message with the Border bit set.	Not supported
pimSGUpstreamPruneState (1.3.6.1.2.1.157.1.6.1.23)	read-only	INTEGER	forwarding (1), ackpending (2), pruned (3)	Whether the local router has pruned itself from the tree.	If the PIM mode is not PIM-SM, this object value is always forwarding
pimSGUpstreamPruneLimitTimer (1.3.6.1.2.1.157.1.6.1.24)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router may send a (S,G) Prune message.	As per the MIB.
pimSGOriginatorState (1.3.6.1.2.1.157.1.6.1.25)	read-only	INTEGER	notOriginator (1), originator (2)	Whether the router is an originator for an (S,G) message flow.	As per the MIB.
pimSGSourceActiveTimer (1.3.6.1.2.1.157.1.6.1.26)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router reverts to a notOriginator state.	As per the MIB.
pimSGStateRefreshTimer (1.3.6.1.2.1.157.1.6.1.27)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a State Refresh message.	As per the MIB.

pimSGITable

About this table

This table contains interface-specific (S,G) state that PIM has. This table supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimSGAddressType, pimSGGrpAddress, pimSGSrcAddress, and pimSGIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
PimSGIfIndex (1.3.6.1.2.1.157.1.7.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface that an entry corresponds to.	As per the MIB.
pimSGIUpTime (1.3.6.1.2.1.157.1.7.1.2)	read-only	TimeTicks	0 (by default)	Time since this entry was created by the local router.	Not supported
pimSGILocalMembership (1.3.6.1.2.1.157.1.7.1.3)	read-only	TruthValue	true(1), false(2)	Whether the local router has (S,G) local membership on this interface.	As per the MIB.
PimSGIJoinPruneState (1.3.6.1.2.1.157.1.7.1.4)	read-only	INTEGER	noInfo (1), join (2), prunePending (3)	State resulting from (S,G) Join/Prune messages received on this interface.	In PIM-DM, v noInfo(1) indicates pruned, and join(2) indicates no information.
pimSGIPrunePendingTimer (1.3.6.1.2.1.157.1.7.1.5)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router acts on an (S,G) Prune message received on this interface, during which the router is waiting to see whether another downstream router will override the Prune message.	This timer is available to PIM-SM, PIM-DM, and PIM-SSM.
pimSGIJoinExpiryTimer (1.3.6.1.2.1.157.1.7.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before (S,G) Join state for this interface expires.	This timer is available to PIM-SM, PIM-DM, and PIM-SSM.
pimSGIAssertState (1.3.6.1.2.1.157.1.7.1.7)	read-only	INTEGER(noInfo (1), iAmAssertWinner (2), iAmAssertLoser (3)	(S,G) Assert state for this interface.	This timer is available to PIM-SM, PIM-DM, and PIM-SSM.
pimSGIAssertTimer (1.3.6.1.2.1.157.1.7.1.8)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router next sends a (S,G) Assert message on this interface	This timer is available to PIM-SM, PIM-DM, and PIM-SSM.
PimSGIAssertWinnerAddressType (1.3.6.1.2.1.157.1.7.1.9)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of the assert winner.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGIAssertWinnerAddress (1.3.6.1.2.1.157.1.7.1.10)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	Address of the assert winner.	As per the MIB.
pimSGIAssertWinnerMetricPref (1.3.6.1.2.1.157.1.7.1.11)	read-only	Unsigned32	Unsigned32(0..2147483647)	Metric preference of the route to the source advertised by the assert winner.	As per the MIB.
pimSGIAssertWinnerMetric (1.3.6.1.2.1.157.1.7.1.12)	read-only	Unsigned32	Standard MIB values.	Routing metric of the route to the source advertised by the assert winner.	As per the MIB.

pimSGRptTable

About this table

This table contains the non-interface specific (S,G,rpt) state that PIM has. It supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimStarGAddressType, pimStarGGrpAddress, and pimSGRptSrcAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGRptSrcAddress (1.3.6.1.2.1.157.1.8.1.1)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Source address for an entry.	As per the MIB.
pimSGRptUpTime (1.3.6.1.2.1.157.1.8.1.2)	read-only	TimeTicks	Standard MIB values.	Time since this entry was created by the local router.	As per the MIB.
pimSGRptUpstreamPruneState (1.3.6.1.2.1.157.1.8.1.3)	read-only	INTEGER	rptNotJoined (1), pruned (2), notPruned (3)	Whether the local router should prune the source off the RP tree.	As per the MIB.
pimSGRptUpstreamOverrideTimer (1.3.6.1.2.1.157.1.8.1.4)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router sends a triggered (S,G,rpt) Join message	As per the MIB.

pimSGRptlTable

About this table

This table contains the interface-specific (S,G,rpt) state that PIM has. It supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimSGRptlTable, pimStarGGrpAddress, pimSGRptSrcAddress, and pimSGRptlflIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimSGRptlflIndex (1.3.6.1.2.1.157.1.9.1.1)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface that an entry corresponds to.	As per the MIB.
pimSGRptlUpTime (1.3.6.1.2.1.157.1.9.1.2)	read-only	TimeTicks	0 (by default)	Time since this entry was created by the local router.	Not supported
pimSGRptlLocalMembership (1.3.6.1.2.1.157.1.9.1.3)	read-only	TruthValue	true(1), false(2)	Whether the local router has both (*,G) include local membership and (S,G) exclude local membership on this interface..	As per the MIB.
pimSGRptlJoinPruneState (1.3.6.1.2.1.157.1.9.1.4)	read-only	INTEGER	noInfo(1), prune(2), prunePending (3)	State resulting from (S,G,rpt) Join/Prune messages received on this interface.	As per the MIB.
pimSGRptlPrunePendingTimer (1.3.6.1.2.1.157.1.9.1.5)	read-only	TimeTicks	Standard MIB values.	Time remaining before the local router starts pruning this source off the RP tree.	As per the MIB.
pimSGRptlPruneExpiryTimer (1.3.6.1.2.1.157.1.9.1.6)	read-only	TimeTicks	Standard MIB values.	Time remaining before (S,G,rpt) Prune state for this interface expires.	As per the MIB.

pimBidirDFElectionEntry

About this table

This table contains BIDIR-PIM DF settings. It supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimBidirDFElectionAddressType, pimBidirDFElectionRPAAddress, and pimBidirDFElectionIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBidirDFElectionAddressType (1.3.6.1.2.1.157.1.10.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of the RP associated with a DF.	As per the MIB.
pimBidirDFElectionRPAAddress (1.3.6.1.2.1.157.1.10.1.2)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	IP address of the RP associated with the DF.	As per the MIB.
pimBidirDFElectionIfIndex (1.3.6.1.2.1.157.1.10.1.3)	not-accessible	InterfaceIndex	Integer32(1..2147483647)	Index of the interface used in DF selection .	As per the MIB.
pimBidirDFElectionWinnerAddressType (1.3.6.1.2.1.157.1.10.1.4)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of the DF winner.	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
pimBidirDFElectionWinnerAddress (1.3.6.1.2.1.157.1.10.1.5)	read-only	InetAddress	OCTET STRING (0 4 8 16 20)	IP address of the DF winner.	As per the MIB.
pimBidirDFElectionWinnerUpTime (1.3.6.1.2.1.157.1.10.1.6)	read-only	TimeTicks	Standard MIB values.	Time since the DF winner has come up.	As per the MIB.
pimBidirDFElectionWinnerMetricPref (1.3.6.1.2.1.157.1.10.1.7)	read-only	Unsigned32	Standard MIB values.	Metric preference of the DF winner.	As per the MIB.
pimBidirDFElectionWinnerMetric (1.3.6.1.2.1.157.1.10.1.8)	read-only	Unsigned32	Standard MIB values.	Metric of the DF winner.	As per the MIB.
pimBidirDFElectionState (1.3.6.1.2.1.157.1.10.1.9)	read-only	INTEGER	dfOffer(1), dfLose(2), dfWinner(3), dfBackoff(4)	DF status of the interface.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimBidirDFElectionStateTimer (1.3.6.1.2.1.157.1.10.1.10)	read-only	Timeticks	Standard MIB values.	DF election timeout time of the interface.	As per the MIB.

pimStaticRPEntry

About this table

This table contains static RP settings. It supports only the public network. ACL-based multicast group filtering for static RPs configured by using the **static-rp** command is not supported.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Read of the static-rp command with an ACL specified is not supported.

Columns

The table indexes are pimStaticRPAddressType, pimStaticRPGrpAddress, and pimStaticRPGrpPrefixLength.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimStaticRPAddressType (1.3.6.1.2.1.157.1.11.1.1)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Type of a static RP.	As per the MIB.
pimStaticRPGrpAddress (1.3.6.1.2.1.157.1.11.1.2)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Address of the multicast group to which the static RP is designated..	Supports only the following values: 224.0.0.0/4(ipv4) and FF :: / 8(ipv6).
pimStaticRPGrpPrefixLength (1.3.6.1.2.1.157.1.11.1.3)	not-accessible	InetAddressPrefix Length	Unsigned32(4..128)	Mask length of the multicast group address to which the static RP is designated.	Supports only the following values: 4(ipv4) and 8(ipv6).
pimStaticRPRPAddress (1.3.6.1.2.1.157.1.11.1.4)	read-create	InetAddress	OCTET STRING (4 8 16 20)	IP address of the static RP.	As per the MIB.
pimStaticRPPimMode (1.3.6.1.2.1.157.1.11.1.5)	read-create	PimMode	ssm(2), asm(3), bidir(4)	Mode of the static RP.	Supports only the following values: asm(3) and bidir(4).
pimStaticRPOverrideDynamic (1.3.6.1.2.1.157.1.11.1.6)	read-create	TruthValue	true(1), false(2)	Whether priority has been given to the static RP.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
11.1.6)					
pimStaticRPPrecedence (1.3.6.1.2.1.157.1.11.1.7)	read-create	Unsigned32	Standard MIB values.	Priority of the static RP.	Read-only. The value is always 1342177280.
pimStaticRPRowStatus (1.3.6.1.2.1.157.1.11.1.8)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	Supports only the following values: active(1), createAndGo(4), and destroy(6).
pimStaticRPStorageType (1.3.6.1.2.1.157.1.11.1.9)	read-create	StorageType	other(1)	Row storage type.	Read-only. Supports only value other(1).

pimGroupMappingTable

About this table

This table contains mappings between multicast group addresses to RPs. It supports only the public network.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pimGroupMappingOrigin, pimGroupMappingAddressType, pimGroupMappingGrpAddress, pimGroupMappingGrpPrefixLength, pimGroupMappingRPAddressType, and pimGroupMappingRPAddress.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimGroupMappingOrigin (1.3.6.1.2.1.157.1.13.1.1)	not-accessible	PimGroupMappingOriginType	fixed(1); configRp(2); configSsm(3); bsr(4); autoRP(5); embedded(6); other(7)	Mechanism by which this group mapping was learned.	Supports only BSR, SRP, and SSM.
pimGroupMappingAddressType (1.3.6.1.2.1.157.1.13.1.2)	not-accessible	InetAddressType	INTEGER{ ipv4(1), ipv6(2), }	Address type of the IP multicast group prefix.	Supports only values ipv4(1) and ipv6(2).
pimGroupMappingGrpAddress (1.3.6.1.2.1.157.1.13.1.3)	not-accessible	InetAddress	OCTET STRING (4 8 16 20)	Multicast group address that gives the group prefix for this mapping.	As per the MIB.
pimGroupMappingGrpPrefixLength (1.3.6.1.2.1.157.1.13.1.4)	not-accessible	InetAddressPrefixLength	Unsigned32(4..128)	Prefix length of the multicast group address that gives the group prefix for this mapping.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pimGroupMapping RPAAddressType (1.3.6.1.2.1.157.1.13.1.5)	not-accessible	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), }	Address type of the RP to be used for groups within this group prefix	Supports only the following values: unknown(0), ipv4(1), and ipv6(2).
pimGroupMapping RPAAddress (1.3.6.1.2.1.157.1.13.1.6)	not-accessible	InetAddress	OCTET STRING (0 4 8 16 20)	IP address of the RP to be used for groups within this group prefix.	As per the MIB.
pimGroupMapping PimMode (1.3.6.1.2.1.157.1.13.1.7)	read-only	PimMode	none(1); ssm(2); asm(3); bidir(4); dm(5); other(6)	PIM mode to be used for groups in this group prefix.	Supports only the following values: asm, ssm, and bidir.
pimGroupMapping Precedence (1.3.6.1.2.1.157.1.13.1.8)	read-only	Unsigned32	Standard MIB values.	Precedence of the SSM mapping.	If pimGroupMapping Origin is bsr(4), this object is (0x30000000 + rp priority). If pimGroupMapping Origin is configRp(2), this object is (0x50000000). If pimGroupMapping Origin is configSsm(3), this object is (0x00000000).

Notifications

pimNeighborLoss

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.157.0.1	PIM neighbor loss.	Informational	Minor	N/A	ON

Description

This notification indicates the loss of a PIM neighbor. This notification is generated when the PIM neighbor timer expires and the router does not have another neighbor on the same interface with the same IP version and a lower IP address than itself.

Status control

ON

CLI: Use the `snmp-agent trap enable { pim | pim6 } neighbor-loss` command.

OFF

CLI: Use the `undo snmp-agent trap enable { pim | pim6 } neighbor-loss` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.157.1.2.1.6 (pimNeighborUpTime)	Time since the neighbor has come up.	No	TimeTicks	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Verify that whether this notification is generated because of PIM neighbor configuration change.
2. Verify that PIM is correctly configured on the interface.
3. Verify that the lost PIM neighbor can operate correctly.
4. Verify that this router has sufficient memory.
5. Verify that this router does not have link failures.
6. If the issue persists, contact H3C Support.

pimRPMappingChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.157.0.4	RP change.	Informational	N/A	N/A	ON

Description

This notification is generated when the RP in PIM changes.

Status control

ON

CLI: Use the `snmp-agent trap enable { pim | pim6 } rp-mapping-change` command.

OFF

CLI: Use the `undo snmp-agent trap enable { pim | pim6 } rp-mapping-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.157.1.13.1.7 (pimGroupMappingPimMode)	PIM mode.	No	PimMode	Standard MIB values.
1.3.6.1.2.1.157.1.13.1.8 (pimGroupMappingPrecedence)	Priority.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

pimInterfaceElection

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.157.0.5	DR change.	Informational	N/A	N/A	ON

Description

This notification is generated when an interface is elected as the DR in PIM.

Status control

ON

CLI: Use the `snmp-agent trap enable { pim | pim6 } interface-election` command.

OFF

CLI: Use the `undo snmp-agent trap enable { pim | pim6 } interface-election` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.157.1.1.1.3 (pimInterfaceAddressType)	Interface address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.157.1.1.1.4 (pimInterfaceAddress)	Interface address	No	InetAddress	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-EVC-MIB

About this MIB

Use this MIB to configure EVC related settings.

MIB file name

hh3c-evc.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cEvc(106)

Tabular objects

hh3cEvcScalarGroup

About this table

Use this table to obtain global EVC information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcSrvInstEncapCapabilities (1.3.6.1.4.1.25506.2.106.1.1.1)	read-only	BITS	encapDefault(0), encapUntagged(1), encapTagged(2), encapSvlanId(3), encapSvlanIdList(4), encapSvlanIdOnlyTagged(5), encapSvlanIdCvlanId(6), encapSvlanIdCvlanIdList(7), encapCvlanId(8), encapCvlanIdList(9)	Capabilities of the EVC service instance.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcPortMaxSrvInstNum (1.3.6.1.4.1.25506.2.106.1.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Maximum number of EVC service instances supported on a port.	As per the MIB.

hh3cEvcSrvInstTable

About this table

Use this table to create and delete EVC service instances.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are ifIndex and hh3cEvcSrvInstId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcSrvInstId (1.3.6.1.4.1.25506.2.106.1.2.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Service instance ID.	As per the MIB.
hh3cEvcSrvInstEncap (1.3.6.1.4.1.25506.2.106.1.2.1.2)	read-create	INTEGER	none(0), default(1), untagged(2), tagged(3), svlanIdList(4), svlanIdListOnlyTagged(5), svlanIdCvlanId(6), svlanIdCvlanIdList(7), svlanIdCvlanIdAll(8), cvlanIdList(9)	Encapsulation type of the service instance.	As per the MIB.
hh3cEvcSrvInstSvlanIdListLow (1.3.6.1.4.1.25506.2.106.1.2.1.3)	read-create	OCTET STRING	OCTET STRING (0..256)	Low bit of the SVLAN list.	As per the MIB.
hh3cEvcSrvInstSvlanIdListHigh (1.3.6.1.4.1.25506.2.106.1.2.1.4)	read-create	OCTET STRING	OCTET STRING (0..256)	High bit of the SVLAN list.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcSrvInstRowStatus (1.3.6.1.4.1.25506.2.106.1.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports active(1), createAndGo(4), and destroy(6).
hh3cEvcSrvInstEnableInStat (1.3.6.1.4.1.25506.2.106.1.2.1.6)	read-create	TruthValue	true(1), false(2)	Inbound statistics function.	Supports only the read operation. The set operation will be ignored.
hh3cEvcSrvInstEnableOutStat (1.3.6.1.4.1.25506.2.106.1.2.1.7)	read-create	TruthValue	true(1), false(2)	Outbound statistics function.	Supports only the read operation. The set operation will be ignored.
hh3cEvcSrvInstCvlanIdListLow (1.3.6.1.4.1.25506.2.106.1.2.1.8)	read-create	OCTET STRING	OCTET STRING (0..256)	Low bit of the CVLAN list.	As per the MIB.
hh3cEvcSrvInstCvlanIdListHigh (1.3.6.1.4.1.25506.2.106.1.2.1.9)	read-create	OCTET STRING	OCTET STRING (0..256)	High bit of the CVLAN list.	As per the MIB.

hh3cEvcSrvInstCarTable

About this table

Use this table to configure CAR for EVC service instances.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are ifIndex and hh3cEvcSrvInstId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcSrvInstInCarIndex (1.3.6.1.4.1.25506.2.106.1.3.1.1)	read-write	Integer32	Integer32 (1..2147483647)	Global CAR index in the inbound direction.	Supports only the read operation.
hh3cEvcSrvInstOutCarIndex (1.3.6.1.4.1.25506.2.106.1.3.1.2)	read-write	Integer32	Integer32 (1..2147483647)	Global CAR index in the outbound direction.	Supports only the read operation.

hh3cEvcSrvInstStatInfoTable

About this table

Use this table to obtain forwarding statistics about an EVC service instance.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3cEvcSrvInstId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cEvcSrvInstInPackets (1.3.6.1.4.1.25506.2.106.1.4.1.1)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of packets received on this service instance.	As per the MIB.
hh3cEvcSrvInstInBytes (1.3.6.1.4.1.25506.2.106.1.4.1.2)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of bytes received on this service instance.	As per the MIB.
hh3cEvcSrvInstOutPackets (1.3.6.1.4.1.25506.2.106.1.4.1.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of packets transmitted on this service instance.	As per the MIB.
hh3cEvcSrvInstOutBytes (1.3.6.1.4.1.25506.2.106.1.4.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of bytes transmitted on this service instance.	As per the MIB.

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HH3C-L3VPN-MIB

About this MIB

This MIB contains L3VPN information.

MIB file name

hh3c-l3vpn.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cL3vpn (228)

Scalar objects

hh3cL3vpnVrfName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cL3vpnVrfName (1.3.6.1.4.1.25506.2.228.1.1)	accessible-for-notification	OCTET STRING	OCTET STRING (0..31)	Name of a VRF.	As per the MIB.

hh3cL3vpnIfName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cL3vpnIfName (1.3.6.1.4.1.25506.2.228.1.2)	accessible-for-notification	DisplayString	OCTET STRING (1..255)	Name of an interface bound to a VRF.	As per the MIB.

Notifications

hh3cL3vpnVrfV6Up

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.228.0.1	At least one of the IPv6 interfaces bound to the VRF come up from the down state.	Informational	Warning	N/A	ON

Description

This notification is generated when the status of the IPv6 interfaces associated with the VPN instance (VRF) changes from all down to partially up.

Status control

ON

CLI: Use the `snmp-agent trap enable l3vpn vrf-ipv6-up` command.

Off

CLI: Use the `undo snmp-agent trap enable l3vpn vrf-ipv6-up` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.228.1.1 (hh3cL3vpnVrfName)	Name of a VRF.	No	OCTET STRING	OCTET STRING(0..31)
1.3.6.1.4.1.25506.2.228.1.2 (hh3cL3vpnIfName)	Name of an interface bound to the VRF.	No	DisplayString	OCTET STRING(1..255)

Recommended action

Check the IPv6 interfaces bound to the VRF. If the status of the IPv6 interfaces is not as expected, collect trap and configuration information of the interfaces and then contact the technical support.

hh3cL3vpnVrfV6Down

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.228.0.2	The IPv6 interfaces bound to the VRF are all down.	Informational	Warning	N/A	ON

Description

This notification is generated when the IPv6 interfaces bound to the VPN instance (VRF) are all down.

Status control

ON

CLI: Use the `snmp-agent trap enable l3vpn vrf-ipv6-down` command.

Off

CLI: Use the `undo snmp-agent trap enable l3vpn vrf-ipv6-down` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.228.1.1 (hh3cL3vpnVrfName)	Name of a VRF.	No	OCTET STRING	OCTET STRING(0..31)
1.3.6.1.4.1.25506.2.228.1.2 (hh3cL3vpnIfName)	Name of an interface bound to the VRF.	No	DisplayString	OCTET STRING(1..255)

Recommended action

Check the IPv6 interfaces bound to the VRF. If the status of the IPv6 interfaces is not as expected, collect trap and configuration information of the interfaces and then contact the technical support.

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HH3C-VSI-MIB

About this MIB

Use this MIB to configure VSI.

MIB file name

hh3c-vsi.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cVsi(105)

Tabular objects

hh3cVsiScalarGroup

About this table

This table describes the global configuration for VSI.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiNextAvailableVsiIndex (1.3.6.1.4.1.25506.2.105.1.1.1)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Next available VSI entry index.	As per the MIB.
hh3cVsiL2vpnStatus (1.3.6.1.4.1.25506.2.105.1.1.2)	read-write	TruthValue	true(1) false(2)	Global enabling status of L2VPN.	As per the MIB.

hh3cVsiTable

About this table

Use this table to configure VSI parameters.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cVsiIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiIndex (1.3.6.1.4.1.25506.2.105.1.2.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	Index of a VSI.	As per the MIB.
hh3cVsiName (1.3.6.1.4.1.25506.2.105.1.2.1.2)	read-create	OCTET STRING	OCTET STRING (1..31)	Name of a VSI.	Not editable after creation.
hh3cVsiMode (1.3.6.1.4.1.25506.2.105.1.2.1.3)	read-create	INTEGER	default(0), martini(1), minm(2) martiniAndMinm(3), kompella(4), kompellaAndMinm(5), minmpxp(6), martiniAndMinmpxp(7), kompellaAndMinmpxp(8), vxlan(9)	Mode of the VSI.	Supports only default(0) and vxlan(9). The set operation on other variables will be ignored. The default value is default(0).
hh3cMinmlsid (1.3.6.1.4.1.25506.2.105.1.2.1.4)	read-create	Integer32	Integer32 (1..2147483647)	PBB I-SID of the VSI in MAC-in-MAC mode.	Implementation varies by product. Not editable after creation.
hh3cVsiId (1.3.6.1.4.1.25506.2.105.1.2.1.5)	read-create	Unsigned32	Unsigned32 (0..4294967295)	Default PW ID.	Not editable after creation.
hh3cVsiTransMode (1.3.6.1.4.1.25506.2.105.1.2.1.6)	read-create	INTEGER	vlan(1), ethernet(2)	Transmit mode of the VSI.	Supports only the read operation. The value is always vlan(1).
hh3cVsiEnableHubSpoke (1.3.6.1.4.1.25506.2.105.1.2.1.7)	read-create	INTEGER	disable(1), enable(2)	Hub-spoke capability of the VSI.	Implementation varies by product. Not editable after creation.
hh3cVsiAdminState (1.3.6.1.4.1.25506.2.105.1.2.1.8)	read-create	INTEGER	adminUp(1), adminDown(2)	Administrative state of the VSI.	Default value: adminUp(1).

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiRowStatus (1.3.6.1.4.1.25506.2.105.1.2.1.9)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6). Active(1) is only used to change the value for hh3cVsiAdminState, hh3cVsiArpSuppression, hh3cVsiFlooding, and hh3cVsiStatistics.
hh3cVsiSpblsid (1.3.6.1.4.1.25506.2.105.1.2.1.10)	read-create	Integer32	Integer32 (1..2147483647)	SPB I-SID of the VSI in MAC-in-MAC mode.	Implementation varies by product. Not editable after creation.
hh3cVsiVxlanID (1.3.6.1.4.1.25506.2.105.1.2.1.11)	read-only	Unsigned32	Unsigned32 (0..4294967295)	VXLAN ID.	As per the MIB.
hh3cVsiArpSuppression (1.3.6.1.4.1.25506.2.105.1.2.1.12)	read-create	TruthValue	true(1) false(2)	The capability of ARP suppression.	Implementation varies by product.
hh3cVsiFlooding (1.3.6.1.4.1.25506.2.105.1.2.1.13)	read-create	TruthValue	true(1) false(2)	The capability of MAC flooding.	Implementation varies by product.
hh3cVsiLocalMacCount (1.3.6.1.4.1.25506.2.105.1.2.1.14)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Number of local MAC addresses of the VSI.	This value is 0 if hh3cVsiVxlanID uses an invalid value. This value cannot be 0 if hh3cVsiVxlanID uses a valid value.
hh3cVsiInterfaceID (1.3.6.1.4.1.25506.2.105.1.2.1.15)	read-create	Unsigned32	Unsigned32 (0..4294967295)	VSI interface number.	Implementation varies by product.
hh3cVsiStatistics (1.3.6.1.4.1.25506.2.105.1.2.1.16)	read-create	TruthValue	true(1) false(2)	VSI traffic statistics capability.	Implementation varies by product.
hh3cVsiNvgreID (1.3.6.1.4.1.25506.2.105.1.2.1.17)	read-only	Unsigned32	Unsigned32 (0..4294967295)	NVGRE ID	As per the MIB.

hh3cVsiXconnectTable

About this table

Use this table to configure AC-VSI bindings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cVsiXconnectIfIndex and hh3cVsiXconnectSvcInstId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiXconnectIfIndex (1.3.6.1.4.1.25506.2.105.1.3.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	Index of an interface.	As per the MIB.
hh3cVsiXconnectSvcInstId (1.3.6.1.4.1.25506.2.105.1.3.1.2)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	Service instance ID.	As per the MIB.
hh3cVsiXconnectVsiName (1.3.6.1.4.1.25506.2.105.1.3.1.3)	read-create	OCTET STRING	OCTET STRING (1..31)	Name of the VSI.	Not editable after creation.
hh3cVsiXconnectAccessMode (1.3.6.1.4.1.25506.2.105.1.3.1.4)	read-create	INTEGER	vlan(1), ethernet(2)	Access mode.	Not editable after creation.
hh3cVsiXconnectHubSpoke (1.3.6.1.4.1.25506.2.105.1.3.1.5)	read-create	INTEGER	none(1), hub(2), spoke(3)	The hub-spoke capability of the service instance.	Not editable after creation.
hh3cVsiXconnectRowStatus (1.3.6.1.4.1.25506.2.105.1.3.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3cVsiPwBindTable

About this table

Use this table to configure PW-VSI bindings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cVsiIndex and hh3cVsiPwIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiPwIndex (1.3.6.1.4.1.25506.2.105.1.4.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	Index of a PW.	As per the MIB.

hh3cVsiPwBindAttributes (1.3.6.1.4.1.25506.2.105.1.4.1.2)	read-create	BITS	noSplitHorizon (0), hub (1)	PW attribute.	As per the MIB.
hh3cVsiPwBindRowStatus (1.3.6.1.4.1.25506.2.105.1.4.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3cVsiFloodMacTable

About this table

This table contains MAC addresses enabled with selective flooding in a VSI.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cVsiIndex and hh3cVsiFloodMac.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiFloodMac (1.3.6.1.4.1.25506.2.105.1.5.1.1)	not-accessible	MacAddress	OCTET STRING (6)	MAC address.	As per the MIB.
hh3cVsiFloodMacRowStatus (1.3.6.1.4.1.25506.2.105.1.5.1.2)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

hh3cVsiLocalMacTable

About this table

This table contains information about local MAC addresses of a VSI.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cVsiIndex and hh3cVsiLocalMacAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiLocalMacAddr (1.3.6.1.4.1.25506.2.105.1.6.1.1)	not-accessible	MacAddress	OCTET STRING (6)	MAC address.	As per the MIB.
hh3cVsiLocalMacIfIndex (1.3.6.1.4.1.25506.2.105.1.6.1.2)	read-only	InterfaceIndex	InterfaceIndex (1..2147483647)	Outgoing interface of the MAC addresses.	As per the MIB.
hh3cVsiLocalMacSrvID (1.3.6.1.4.1.25506.2.105.1.6.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	ID of the service instance on the outgoing interface.	As per the MIB.

hh3cVsiPerfTable

About this table

This table contains performance statistics for VSIs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cVsiIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiPerfInOctets (1.3.6.1.4.1.25506.2.105.1.7.1.1)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets received by the VSI.	As per the MIB.
hh3cVsiPerfInPackets (1.3.6.1.4.1.25506.2.105.1.7.1.2)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets received by the VSI.	As per the MIB.
hh3cVsiPerfInErrors (1.3.6.1.4.1.25506.2.105.1.7.1.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of error packets received by the VSI.	As per the MIB.
hh3cVsiPerfInDiscards (1.3.6.1.4.1.25506.2.105.1.7.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of incoming packets discarded by the VSI.	As per the MIB.
hh3cVsiPerfOutOctets (1.3.6.1.4.1.25506.2.105.1.7.1.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets sent by the VSI.	As per the MIB.

hh3cVsiPerfOutPackets (1.3.6.1.4.1.25506.2.105.1.7.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets sent by the VSI.	As per the MIB.
hh3cVsiPerfOutErrors (1.3.6.1.4.1.25506.2.105.1.7.1.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of packets that failed to be sent because of a VSI error.	As per the MIB.
hh3cVsiPerfOutDiscards (1.3.6.1.4.1.25506.2.105.1.7.1.8)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of outgoing packets discarded by the VSI because of transmission failure.	As per the MIB.
hh3cVsiPerfInRateOctets (1.3.6.1.4.1.25506.2.105.1.7.1.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of bytes received per second by the VSI.	As per the MIB.
hh3cVsiPerfInRatePackets (1.3.6.1.4.1.25506.2.105.1.7.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of packets received per second by the VSI.	As per the MIB.
hh3cVsiPerfOutRateOctets (1.3.6.1.4.1.25506.2.105.1.7.1.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of bytes sent per second by the VSI.	As per the MIB.
hh3cVsiPerfOutRatePackets (1.3.6.1.4.1.25506.2.105.1.7.1.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Number of packets sent per second by the VSI.	As per the MIB.

hh3cVsiNextAvailableVsiIfID

About this table

This table contains information about next available VSI interface numbers.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsiNextAvailableVsiIfID (1.3.6.1.4.1.25506.2.105.1.8)	read-only	Unsigned32	Unsigned32 (0..4294967295)	VSI interface number.	Implementation varies by product.

hh3cVsilfTable

About this table

Use this table to configure VSI interface parameters.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cVsilfID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVsilfID (1.3.6.1.4.1.25506.2.105.1.9.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	VSI interface number.	As per the MIB.
hh3cVsilfIndex (1.3.6.1.4.1.25506.2.105.1.9.1.2)	read-only	InterfaceIndex	Integer32 (1..2147483647)	VSI interface index.	As per the MIB.
hh3cVsilfRowStatus (1.3.6.1.4.1.25506.2.105.1.9.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

Notifications

hh3cVsiChangeToUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.105.0.1	A VSI came up.	Recovery	Warning	-	OFF

Description

This notification is generated if a VSI comes up.

Status control

ON

CLI: Use the `snmp-agent trap enable 12vpn [vsi-state-change]` command.

OFF

CLI: Use the `undo snmp-agent trap enable l2vpn [vsi-state-change]` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.105.1.2.1.2 (hh3cVsiName)	VSI name.	No	OCTET STRING	As per the MIB.

Recommended action

No action is required.

hh3cVsiChangeToDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.105.0.2	A VSI went down.	Failure	Warning	-	OFF

Description

This notification is generated if a VSI goes down.

Status control

ON

CLI: Use the `snmp-agent trap enable l2vpn [vsi-state-change]` command.

OFF

CLI: Use the `undo snmp-agent trap enable l2vpn [vsi-state-change]` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.105.1.2.1.2 (hh3cVsiName)	VSI name.	No	OCTET STRING	As per the MIB.

Recommended action

No action is required.

hh3cVsiLabelResourceNotEnough

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.105.0.5	The label resources are insufficient.	Failure	Major	1.3.6.1.4.1.25506.2.105.0.6 (hh3cVsiLabelResourceRestore)	OFF

Description

This notification is generated if label request fails due to lack of label resources.

Status control

ON

CLI: Use the `snmp-agent trap enable 12vpn label-resource`

OFF

CLI: Use the `undo snmp-agent trap enable 12vpn label-resource`

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.105.1.2.1.2 (hh3cVsiName)	VSI name.	No	OCTET STRING	As per the MIB.

Recommended action

No action is required.

hh3cVsiLabelResourceRestore

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.105.0.6	Label resources became sufficient.	Recovery			OFF

Description

This notification is generated if label resources become sufficient.

Status control

ON

CLI: Use the `snmp-agent trap enable 12vpn label-resource` command.

OFF

CLI: Use the `undo snmp-agent trap enable 12vpn label-resource` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.105.1.2.1.2 (hh3cVsiName)	VSI name.	No	OCTET STRING	As per the MIB.

Recommended action

No action is required.

hh3cVsiPwNumberMaxExceed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.105.0.7	The PW limit was reached.	Failure	Major		OFF

Description

This notification is generated if the number of PWs reaches the upper limit.

Status control

ON

CLI: Use the `snmp-agent trap enable 12vpn pw-limitnum` command.

OFF

CLI: Use the `undo snmp-agent trap enable pw-limitnum` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.105.1.2.1.2 (hh3cVsiName)	VSI name.	No	OCTET STRING	As per the MIB.

Recommended action

No action is required.

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HH3C-VXLAN-MIB

About this MIB

Use this table to manage VXLAN configuration.

MIB file name

hh3c-vxlan.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cVxlan(150)

Tabular objects

hh3cVxlanScalarGroup

About this table

Use this table to configure global VXLAN settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

This table does not has an index.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanLocalMacNotify (1.3.6.1.4.1.25506.2.150.1.1.1)	read-write	TruthValue	true(1) false(2)	Status of local-MAC logging.	As per the MIB.
hh3cVxlanRemoteMacLearn (1.3.6.1.4.1.25506.2.150.1.1.2)	read-write	TruthValue	true(1) false(2)	Status of remote MAC address learning.	As per the MIB.
hh3cVxlanNextVxlanID (1.3.6.1.4.1.25506.2.150.1.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Next available VNI.	As per the MIB.
hh3cVxlanConfigured (1.3.6.1.4.1.25506.2.150.1.1.4)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Total number of VXLANs configured on the device.	As per the MIB.

hh3cVxlanTable

About this table

Use this table to configure VXLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cVxlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanID (1.3.6.1.4.1.25506 .2.150.1.2.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	VNI.	As per the MIB.
hh3cVxlanAddrType (1.3.6.1.4.1.25506 .2.150.1.2.1.2)	read-create	InetAddressType.	unknown(0) ipv4(1) ipv6(2) ipv4z(3) ipv6z(4) dns(16)	Address type.	Supports only ipv4(1).
hh3cVxlanGroupAddr (1.3.6.1.4.1.25506 .2.150.1.2.1.3)	read-create	InetAddress	OCTET STRING (0..255)	Destination address.	As per the MIB.
hh3cVxlanSourceAddr (1.3.6.1.4.1.25506 .2.150.1.2.1.4)	read-create	InetAddress	OCTET STRING (0..255)	Source address.	As per the MIB.
hh3cVxlanVsiIndex (1.3.6.1.4.1.25506 .2.150.1.2.1.5)	read-create	Unsigned32	Unsigned32 (0..4294967295)	VSI index.	Does not support modification after object creation.
hh3cVxlanRemoteMacCount (1.3.6.1.4.1.25506 .2.150.1.2.1.6)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Remote MAC address count.	As per the MIB.
hh3cVxlanRowStatus (1.3.6.1.4.1.25506 .2.150.1.2.1.7)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6). You can use active(1) to modify only the hh3cVxlanGroupAddr and hh3cVxlanSourceAddr objects.

hh3cVxlanTunnelTable

About this table

Use this table to configure tunnels for VXLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cVxlanID and hh3cVxlanTunnelID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanTunnelID (1.3.6.1.4.1.25506.2.150.1.3.1.1)	not-accessible	Unsigned32	Unsigned32 (0..4294967295)	Tunnel ID.	As per the MIB.
hh3cVxlanTunnelRowStatus (1.3.6.1.4.1.25506.2.150.1.3.1.2)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).
hh3cVxlanTunnelOctets (1.3.6.1.4.1.25506.2.150.1.3.1.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Byte count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelPackets (1.3.6.1.4.1.25506.2.150.1.3.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Packet count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelInputOctets (1.3.6.1.4.1.25506.2.150.1.3.1.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Incoming byte count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelOutputOctets (1.3.6.1.4.1.25506.2.150.1.3.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Outgoing byte count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelInputPackets (1.3.6.1.4.1.25506.2.150.1.3.1.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Incoming packet count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelOutputPackets (1.3.6.1.4.1.25506.2.150.1.3.1.8)	read-only	Counter64	Counter64 (0..18446744073709551615)	Outgoing packet count on the VXLAN tunnel.	Not supported

506.2.150.1.3.1.8)					
hh3cVxlanTunnelInputDiscards (1.3.6.1.4.1.25506.2.150.1.3.1.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Dropped incoming packet count on the VXLAN tunnel.	Not supported
hh3cVxlanTunnelOutputDiscards (1.3.6.1.4.1.25506.2.150.1.3.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Dropped outgoing packet count on the VXLAN tunnel.	Not supported

hh3cVxlanTunnelBoundTable

About this table

Use this table to display the number of VXLANs bound to a VXLAN tunnel.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Supported	Supported

Columns

The table index is hh3cVxlanTunnelID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanTunnelBoundVxlanNum (1.3.6.1.4.1.25506.2.150.1.4.1.1)	read-only	Unsigned32	Unsigned32 (0..4294967295)	The number of VXLANs bound to a VXLAN tunnel.	As per the MIB.

hh3cVxlanMacTable

About this table

Use this table to display remote MAC address information about VXLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cVxlanVsiIndex and hh3cVxlanMacAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanMacAddr	not-accessible	MacAddress	OCTET STRING	MAC address.	As per the MIB.

(1.3.6.1.4.1.25506.2.150.1.5.1.1)			(6)		
hh3cVxlanTunnelID (1.3.6.1.4.1.25506.2.150.1.5.1.2)	read-only	Unsigned32	Unsigned32 (0..4294967295)	VXLAN tunnel ID.	As per the MIB.
hh3cVxlanMacType (1.3.6.1.4.1.25506.2.150.1.5.1.3)	read-only	INTEGER	unknown (0) selfLearned (1) staticConfigured (2) protocolLearned (3) openflow (4) ovsdb (5)	MAC address type.	As per the MIB.

hh3cVxlanStaticMacTable

About this table

Use this table to display static remote MAC address information about VXLANs.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cVxlanVsiIndex and hh3cVxlanStaticMacAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cVxlanStaticMacAddr (1.3.6.1.4.1.25506.2.150.1.6.1.1)	not-accessible	MacAddress	OCTET STRING (6)	MAC address.	As per the MIB.
hh3cVxlanStaticMacTunnelID (1.3.6.1.4.1.25506.2.150.1.6.1.2)	read-create	Unsigned32	Unsigned32 (0..4294967295)	VXLAN tunnel ID.	Does not support modification after object creation.
hh3cVxlanStaticMacRowStatus (1.3.6.1.4.1.25506.2.150.1.6.1.3)	read-create	RowStatus	active(1) notInService(2) notReady(3) createAndGo(4) createAndWait(5) destroy(6)	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

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HH3C-ACL-MIB

About this MIB

This MIB provides some basic table for managing ACLs on a switch.

MIB file name

hh3c-acl.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cAcl(8)

Global objects

hh3cAclMib2Mode

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2Mode (1.3.6.1.4.1.25506 .2.8.2.1.1.1)	read-write	INTEGER	<ul style="list-style-type: none">linkBased(1)ipBased(2)	Mode in which the ACL is applied.	Not supported.

hh3cAclMib2Version

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2Version (1.3.6.1.4.1.25506 .2.8.2.1.1.2)	read-only	Integer32	<ul style="list-style-type: none">0..2147483647	Version of the ACL MIB file supported.	Not supported.

hh3cAclMib2ObjectsCapabilities

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2ObjectsCapabilities (1.3.6.1.4.1.25506 .2.8.2.1.1.3)	read-only	BITS	Standard MIB values.	Non-tabular objects and tables supported.	As per the MIB.

hh3cAclMib2ProcessingStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2ProcessingStatus (1.3.6.1.4.1.25506)	read-only	INTEGER	<ul style="list-style-type: none">processing(1)done(2)	ACL processing status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.1.1.4)			Default: done.		

hh3cAclMib2ResourceThreshold

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2ResourceThreshold (1.3.6.1.4.1.25506.2.8.2.1.1.5)	read-write	Integer32	0..100 Default: 0.	Sets the TCAM usage alarm threshold.	As per the MIB.

hh3cAclMib2ResourceLogInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclMib2ResourceLogInterval (1.3.6.1.4.1.25506.2.8.2.1.1.6)	read-write	Integer32	1..60 Default: 5.	Sets the interval for checking the TCAM usage.	As per the MIB.

hh3cPfilterDefaultAction

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterDefaultAction (1.3.6.1.4.1.25506.2.8.3.1.1)	read-write	INTEGER	<ul style="list-style-type: none"> permit(1) deny(2) Default: permit.	Sets the packet filtering default action.	As per the MIB.

hh3cPfilterProcessingStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterProcessingStatus (1.3.6.1.4.1.25506.2.8.3.1.2)	read-only	INTEGER	<ul style="list-style-type: none"> processing(1) done(2) Default: done.	Packet filter processing status.	As per the MIB.

Tabular objects

hh3cAclMib2CapabilityTable

About this table

ACL capability set. Use this table to obtain product-supported ACL information for only user-defined ACLs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cAcIb2EntityType, h3cAcIb2EntityIndex, h3cAcIb2ModuleIndex, and h3cAcIb2CharacteristicsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3cAcIb2EntityType (1.3.6.1.4.1.25506.2.8.2.1.2.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none">system(1)interface(2)	Type of the entity where the ACL is configured and applied.	As per the MIB.
h3cAcIb2EntityIndex (1.3.6.1.4.1.25506.2.8.2.1.2.1.2)	not-accessible	Integer32	0..2147483647	Index of the entity type.	As per the MIB.
h3cAcIb2ModuleIndex (1.3.6.1.4.1.25506.2.8.2.1.2.1.3)	not-accessible	INTEGER	<ul style="list-style-type: none">layer3(1)layer2(2)userDefined(3)	Index of the ACL type.	As per the MIB.
h3cAcIb2CharacteristicsIndex (1.3.6.1.4.1.25506.2.8.2.1.2.1.4)	not-accessible	Integer32	0..2147483647	Index of the ACL attribute.	As per the MIB.
h3cAcIb2CharacteristicsDesc (1.3.6.1.4.1.25506.2.8.2.1.2.1.5)	read-only	OCTET STRING	SIZE (0..255)	Description of the ACL attribute.	Not supported.
h3cAcIb2CharacteristicsValue (1.3.6.1.4.1.25506.2.8.2.1.2.1.6)	read-only	Unsigned32	Standard MIB values.	Value of the ACL attribute.	Not supported.

hh3cAcIb2NumberGroupTable

About this table

This table records numbered ACL configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcIb2NumberGroupType, and h3cAcIb2NumberGroupIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcINumberGroupType (1.3.6.1.4.1.25506.2.8.2.1.3.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> • ipv4(1) • ipv6(2) • mac(3) • user(4) 	ACL type.	Implementation varies by product
hh3cAcINumberGroupIndex (1.3.6.1.4.1.25506.2.8.2.1.3.1.2)	not-accessible	Integer32	<ul style="list-style-type: none"> • 2000..5999 • 10000..42767 	ACL number index.	Implementation varies by product
hh3cAcINumberGroupRowStatus (1.3.6.1.4.1.25506.2.8.2.1.3.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)
hh3cAcINumberGroupMatchOrder (1.3.6.1.4.1.25506.2.8.2.1.3.1.4)	read-create	INTEGER	<ul style="list-style-type: none"> • config(1) • auto(2) 	Rule match order.	As per the MIB.
hh3cAcINumberGroupStep (1.3.6.1.4.1.25506.2.8.2.1.3.1.5)	read-create	Integerd32	1..20	Rule numbering step.	As per the MIB.
hh3cAcINumberGroupDescription (1.3.6.1.4.1.25506.2.8.2.1.3.1.6)	read-create	OCTET STRING	SIZE (0..127)	ACL description.	As per the MIB.
hh3cAcINumberGroupCountClear (1.3.6.1.4.1.25506.2.8.2.1.3.1.7)	read-write	CounterClear	Standard MIB values.	Clear rule statistics for the ACL.	As per the MIB.
hh3cAcINumberGroupRuleCounter (1.3.6.1.4.1.25506.2.8.2.1.3.1.8)	read-only	Counter32	Standard MIB values.	Number of rules in the ACL.	As per the MIB.
hh3cAcINumberGroupName (1.3.6.1.4.1.25506.2.8.2.1.3.1.9)	read-create	OCTET STRING	SIZE (0..63)	ACL name.	As per the MIB.

hh3cAcINamedGroupTable

About this table

This table records named ACL configuration information. Use this table to add or delete a named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINamedGroupCategory, and h3cAcINamedGroupName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3cAcINamedGroupCategory (1.3.6.1.4.1.25506.2.8.2.1.4.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> invalid(0) basic(1) advanced(2) 	ACL category.	As per the MIB.
hh3cAcINamedGroupName (1.3.6.1.4.1.25506.2.8.2.1.4.1.2)	not-accessible	OCTET STRING	SIZE (1..63)	ACL name.	As per the MIB.
hh3cAcINamedGroupRowStatus (1.3.6.1.4.1.25506.2.8.2.1.4.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcINamedGroupMatchOrder (1.3.6.1.4.1.25506.2.8.2.1.4.1.4)	read-create	INTERGER	<ul style="list-style-type: none"> config(1) auto(2) 	Rule match order.	As per the MIB.
hh3cAcINamedGroupStep (1.3.6.1.4.1.25506.2.8.2.1.4.1.5)	read-create	Integer32	1..20	Rule numbering step.	As per the MIB.
hh3cAcINamedGroupDescription (1.3.6.1.4.1.25506.2.8.2.1.4.1.6)	read-create	OCTET STRING	SIZE (0..127)	ACL description.	As per the MIB.
hh3cAcINamedGroupCountClear (1.3.6.1.4.1.25506.2.8.2.1.4.1.7)	read-write	CounterClear	Standard MIB values.	Clear rule statistics for the ACL.	As per the MIB.
hh3cAcINamedGroupRuleCounter (1.3.6.1.4.1.25506.2.8.2.1.4.1.8)	read-only	Counter32	Standard MIB values.	Number of rules in the ACL.	As per the MIB.

hh3cAcIIPAcIBasicTable

About this table

This table records basic ACL configuration information. Use this table to add or delete a basic ACL rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINumberGroupIndex, and h3cAcIIPAcIBasicRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcIBasicRuleIndex (1.3.6.1.4.1.25506)	not-accessible	Integer32	0..65534	ACL rule ID.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.2.2.1.1)					
hh3cAclIPAcIBasicRowStatus (1.3.6.1.4.1.25506.2.8.2.2.2.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)
hh3cAclIPAcIBasicAct (1.3.6.1.4.1.25506.2.8.2.2.2.1.3)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> • permit(2) • deny(3)
hh3cAclIPAcIBasicSrcAddrType (1.3.6.1.4.1.25506.2.8.2.2.2.1.4)	read-create	InetAddressType	Standard MIB values.	Source address type.	As per the MIB.
hh3cAclIPAcIBasicSrcAddr (1.3.6.1.4.1.25506.2.8.2.2.2.1.5)	read-create	InetAddress	Standard MIB values.	Source IP address.	As per the MIB.
hh3cAclIPAcIBasicSrcPrefix (1.3.6.1.4.1.25506.2.8.2.2.2.1.6)	read-create	InetAddressPrefix Length	Standard MIB values.	Source IP address prefix.	As per the MIB.
hh3cAclIPAcIBasicSrcAny (1.3.6.1.4.1.25506.2.8.2.2.2.1.7)	read-create	TruthValue	<ul style="list-style-type: none"> • true(1) • false(2) 	Whether the source IP address can be any.	Default: true(1).
hh3cAclIPAcIBasicSrcWild (1.3.6.1.4.1.25506.2.8.2.2.2.1.8)	read-create	IpAddress	Standard MIB values.	Source IP address wildcard mask.	As per the MIB.
hh3cAclIPAcIBasicTimeRangeName (1.3.6.1.4.1.25506.2.8.2.2.2.1.9)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAclIPAcIBasicFragmentFlag (1.3.6.1.4.1.25506.2.8.2.2.2.1.10)	read-create	FragmentFlag	Standard MIB values.	Fragment flag.	Support 0 and 2.
hh3cAclIPAcIBasicLog (1.3.6.1.4.1.25506.2.8.2.2.2.1.11)	read-create	TruthValue	<ul style="list-style-type: none"> • true(1) • false(2) 	Enabling status of the logging feature.	As per the MIB.
hh3cAclIPAcIBasicCount (1.3.6.1.4.1.25506.2.8.2.2.2.1.12)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAclIPAcIBasicCountClear (1.3.6.1.4.1.25506.2.8.2.2.2.1.13)	read-write	INTEGER	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAclIPAcIBasicEnable (1.3.6.1.4.1.25506.2.8.2.2.2.1.14)	read-only	TruthValue	<ul style="list-style-type: none"> • true(1) • false(2) 	Enabling status of the rule.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcIBasicVpnInstanceName (1.3.6.1.4.1.25506.2.8.2.2.2.1.15)	read-create	OCTET STRING	SIZE (0..32)	VPN instance name.	Implementation varies by product
hh3cAcIIPAcIBasicComment (1.3.6.1.4.1.25506.2.8.2.2.2.1.16)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcIIPAcIBasicCounting (1.3.6.1.4.1.25506.2.8.2.2.2.1.17)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.
hh3cAcIIPAcIBasicRouteTypeAny (1.3.6.1.4.1.25506.2.8.2.2.2.1.18)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the rule matches all types of IPv6 routing headers.	As per the MIB.
hh3cAcIIPAcIBasicRouteTypeValue (1.3.6.1.4.1.25506.2.8.2.2.2.1.19)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	Type of IPv6 routing header.	As per the MIB.

hh3cAcIIPAcIAdvancedTable

About this table

This table records advanced ACL configuration information. Use this table to add or delete an advanced ACL rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINumberGroupIndex, and h3cAcIIPAcIAdvancedRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcIAdvancedRuleIndex (1.3.6.1.4.1.25506.2.8.2.2.3.1.1)	not-accessible	Integer32	0..65534	ACL rule ID.	As per the MIB.
hh3cAcIIPAcIAdvancedRowStatus (1.3.6.1.4.1.25506.2.8.2.2.3.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcIIPAcIAdvancedAct (1.3.6.1.4.1.25506.2.8.2.2.3.1.3)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcIIPAcIAdvancedProtocol (1.3.6.1.4.1.25506.2.8.2.2.3.1.4)	read-create	INTEGER	0..255	Number of a Layer 3 protocol or a protocol above	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.2.3.1.4)				Layer 3.	
hh3cAcIIPAcIAdvancedAddrFlag (1.3.6.1.4.1.25506.2.8.2.2.3.1.5)	read-create	AddressFlag	Standard MIB values.	Address flag for the IPv6 source address and destination address.	Not supported
hh3cAcIIPAcIAdvancedSrcAddrType (1.3.6.1.4.1.25506.2.8.2.2.3.1.6)	read-create	InetAddressType	Standard MIB values.	Source IP address type.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcAddr (1.3.6.1.4.1.25506.2.8.2.2.3.1.7)	read-create	InetAddress	Standard MIB values.	Source IP address.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcPrefix (1.3.6.1.4.1.25506.2.8.2.2.3.1.8)	read-create	InetAddressPrefix Length	Standard MIB values.	Source IP address prefix.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcAny (1.3.6.1.4.1.25506.2.8.2.2.3.1.9)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the source IP address can be any value.	Default: true(1).
hh3cAcIIPAcIAdvancedSrcWild (1.3.6.1.4.1.25506.2.8.2.2.3.1.10)	read-create	IpAddress	Standard MIB values.	Source IP address wildcard mask.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcOp (1.3.6.1.4.1.25506.2.8.2.2.3.1.11)	read-create	PortOp	Standard MIB values.	Port operator.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcPort1 (1.3.6.1.4.1.25506.2.8.2.2.3.1.12)	read-create	Integer32	0..65535	Source UDP or TCP port 1.	As per the MIB.
hh3cAcIIPAcIAdvancedSrcPort2 (1.3.6.1.4.1.25506.2.8.2.2.3.1.13)	read-create	Integer32	0..65535	Source UDP or TCP port 2.	As per the MIB.
hh3cAcIIPAcIAdvancedDestAddrType (1.3.6.1.4.1.25506.2.8.2.2.3.1.14)	read-create	InetAddressType	Standard MIB values.	Destination address type.	As per the MIB.
hh3cAcIIPAcIAdvancedDestAddr (1.3.6.1.4.1.25506.2.8.2.2.3.1.15)	read-create	InetAddress	Standard MIB values.	Destination IP address.	As per the MIB.
hh3cAcIIPAcIAdvancedDestPrefix (1.3.6.1.4.1.25506.2.8.2.2.3.1.16)	read-create	InetAddressPrefix Length	Standard MIB values.	Destination address prefix.	As per the MIB.
hh3cAcIIPAcIAdvancedDestAny (1.3.6.1.4.1.25506.2.8.2.2.3.1.17)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the destination IP address can be any value.	Default: true(1).

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcIAdvancedDestWild (1.3.6.1.4.1.25506.2.8.2.2.3.1.18)	read-create	IpAddress	Standard MIB values.	Destination IP address wildcard mask.	As per the MIB.
hh3cAcIIPAcIAdvancedDestOp (1.3.6.1.4.1.25506.2.8.2.2.3.1.19)	read-create	PortOp	Standard MIB values.	Port operator.	As per the MIB.
hh3cAcIIPAcIAdvancedDestPort1 (1.3.6.1.4.1.25506.2.8.2.2.3.1.20)	read-create	Integer32	0..65535	Destination UDP or TCP port 1.	As per the MIB.
hh3cAcIIPAcIAdvancedDestPort2 (1.3.6.1.4.1.25506.2.8.2.2.3.1.21)	read-create	Integer32	0..65535	Destination UDP or TCP port 2.	As per the MIB.
hh3cAcIIPAcIAdvancedIcmpType (1.3.6.1.4.1.25506.2.8.2.2.3.1.22)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	ICMP message type.	As per the MIB.
hh3cAcIIPAcIAdvancedIcmpCode (1.3.6.1.4.1.25506.2.8.2.2.3.1.23)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	ICMP message code.	As per the MIB.
hh3cAcIIPAcIAdvancedPrecedence (1.3.6.1.4.1.25506.2.8.2.2.3.1.24)	read-create	Integer32	<ul style="list-style-type: none"> 0..7 255 	IP precedence.	As per the MIB.
hh3cAcIIPAcIAdvancedTos (1.3.6.1.4.1.25506.2.8.2.2.3.1.25)	read-create	Integer32	<ul style="list-style-type: none"> 0..15 255 	ToS type	As per the MIB.
hh3cAcIIPAcIAdvancedDscp (1.3.6.1.4.1.25506.2.8.2.2.3.1.26)	read-create	DSCPValue	<ul style="list-style-type: none"> 0..63 255 	DSCP value.	As per the MIB.
hh3cAcIIPAcIAdvancedTimeRangeName (1.3.6.1.4.1.25506.2.8.2.2.3.1.27)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcIIPAcIAdvancedTCPFlag (1.3.6.1.4.1.25506.2.8.2.2.3.1.28)	read-create	TCPFlag	Standard MIB values.	TCP flag.	As per the MIB.
hh3cAcIIPAcIAdvancedFragmentFlag (1.3.6.1.4.1.25506.2.8.2.2.3.1.29)	read-create	FragmentFlag	Standard MIB values.	Fragments flag.	Support 0 and 2.
hh3cAcIIPAcIAdvancedLog (1.3.6.1.4.1.25506.2.8.2.2.3.1.30)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	As per the MIB.
hh3cAcIIPAcIAdvancedCount	read-only	Unsigned32	Standard MIB	Number of packets matching	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.2.2.3.1.31)			values.	the ACL rule.	
hh3cAcIIPAcIAdvancedCountClear (1.3.6.1.4.1.25506.2.8.2.2.3.1.32)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcIIPAcIAdvancedEnable (1.3.6.1.4.1.25506.2.8.2.2.3.1.33)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcIIPAcIAdvancedVpnInstanceName (1.3.6.1.4.1.25506.2.8.2.2.3.1.34)	read-create	OCTET STRING	SIZE (0..32)	VPN instance name.	Implementation varies by product.
hh3cAcIIPAcIAdvancedComment (1.3.6.1.4.1.25506.2.8.2.2.3.1.35)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcIIPAcIAdvancedReflective (1.3.6.1.4.1.25506.2.8.2.2.3.1.36)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether it is a reflective rule.	Not supported
hh3cAcIIPAcIAdvancedCounting (1.3.6.1.4.1.25506.2.8.2.2.3.1.37)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.
hh3cAcIIPAcIAdvancedTCPFlagMask (1.3.6.1.4.1.25506.2.8.2.2.3.1.38)	read-create	Hh3cAlarmStatus	<ul style="list-style-type: none"> tcpack(0) tcpfin(1) tcppsh(2) tcprst(3) tcpsyn(4) tcpurg(5) 	TCP flag bit mask.	As per the MIB.
hh3cAcIIPAcIAdvancedTCPFlagValue (1.3.6.1.4.1.25506.2.8.2.2.3.1.39)	read-create	Hh3cAlarmStatus	<ul style="list-style-type: none"> tcpack(0) tcpfin(1) tcppsh(2) tcprst(3) tcpsyn(4) tcpurg(5) 	TCP flag bit set.	As per the MIB.
hh3cAcIIPAcIAdvancedRouteTypeAny (1.3.6.1.4.1.25506.2.8.2.2.3.1.40)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the rule matches all types of IPv6 routing headers.	As per the MIB.
hh3cAcIIPAcIAdvancedRouteTypeValue (1.3.6.1.4.1.25506.2.8.2.2.3.1.41)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	Type of the IPv6 routing header.	As per the MIB.
hh3cAcIIPAcIAdvancedFlowLabel (1.3.6.1.4.1.25506.2.8.2.2.3.1.42)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..1048575 4294967295 	Flow label.	Default: 0.
h3cAcIIPAcIAdvanced	read-create	Unsigned32	Standard MIB	Source address	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
cedSrcSuffix			values.	suffix.	
h3cAcIIPAcIAdvan cedDestSuffix	read-create	Unsigned32	Standard MIB values.	Destination address suffix.	Not supported.

hh3cAcIIPAcINamedBscTable

About this table

This table records basic ACL configuration information. Use this table to add or delete a basic named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINamedGroupName, and h3cAcIIPAcIBasicRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcINam edBscRowStatus (1.3.6.1.4.1.25506 .2.8.2.2.4.1.1)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcIIPAcINam edBscAct (1.3.6.1.4.1.25506 .2.8.2.2.4.1.2)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcIIPAcINam edBscSrcAddrType (1.3.6.1.4.1.25506 .2.8.2.2.4.1.3)	read-create	InetAddressType	Standard MIB values.	Source address type.	As per the MIB.
hh3cAcIIPAcINam edBscSrcAddr (1.3.6.1.4.1.25506 .2.8.2.2.4.1.4)	read-create	InetAddress	Standard MIB values.	Source IP address.	As per the MIB.
hh3cAcIIPAcINam edBscSrcPrefix (1.3.6.1.4.1.25506 .2.8.2.2.4.1.5)	read-create	InetAddressPrefix Length	Standard MIB values.	Source IP address prefix.	As per the MIB.
hh3cAcIIPAcINam edBscSrcAny (1.3.6.1.4.1.25506 .2.8.2.2.4.1.6)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the source IP address can be any value.	Default: true(1)
hh3cAcIIPAcINam edBscSrcWild (1.3.6.1.4.1.25506 .2.8.2.2.4.1.7)	read-create	IpAddress	Standard MIB values.	Source IP address wildcard mask.	As per the MIB.
hh3cAcIIPAcINam edBscTimeRange Name (1.3.6.1.4.1.25506	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.2.4.1.8)					
hh3cAcIIPAcINam edBscFragmentFl ag (1.3.6.1.4.1.25506 .2.8.2.2.4.1.9)	read-create	FragmentFlag	Standard MIB values.	Fragments flag.	Support 0 and 2.
hh3cAcIIPAcINam edBscLog (1.3.6.1.4.1.25506 .2.8.2.2.4.1.10)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	As per the MIB.
hh3cAcIIPAcINam edBscCount (1.3.6.1.4.1.25506 .2.8.2.2.4.1.11)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAcIIPAcINam edBscCountClear (1.3.6.1.4.1.25506 .2.8.2.2.4.1.12)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcIIPAcINam edBscEnable (1.3.6.1.4.1.25506 .2.8.2.2.4.1.13)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcIIPAcINam edBscVpnInstNa me (1.3.6.1.4.1.25506 .2.8.2.2.4.1.14)	read-create	OCTET STRING	SIZE(0..32)	VPN instance name.	Implementation varies by product
hh3cAcIIPAcINam edBscComment (1.3.6.1.4.1.25506 .2.8.2.2.4.1.15)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcIIPAcINam edBscCounting (1.3.6.1.4.1.25506 .2.8.2.2.4.1.16)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.
hh3cAcIIPAcINam edBscRouteType Any (1.3.6.1.4.1.25506 .2.8.2.2.4.1.17)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the rule matches all types of IPv6 routing headers.	As per the MIB.
hh3cAcIIPAcINam edBscRouteType Value (1.3.6.1.4.1.25506 .2.8.2.2.4.1.18)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	Type of IPv6 routing header.	As per the MIB.

hh3cAcIIPAcINamedAdvTable

About this table

This table records advanced ACL configuration information. Use this table to add or delete an advanced named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINamedGroupName, and h3cAcIIPAcIAdvancedRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcINam edAdvRowStatus (1.3.6.1.4.1.25506 .2.8.2.2.5.1.1)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcIIPAcINam edAdvAct (1.3.6.1.4.1.25506 .2.8.2.2.5.1.2)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcIIPAcINam edAdvProtocol (1.3.6.1.4.1.25506 .2.8.2.2.5.1.3)	read-create	Integer32	0..255	Number of a Layer 3 protocol or a protocol above Layer 3.	As per the MIB.
hh3cAcIIPAcINam edAdvAddrFlag (1.3.6.1.4.1.25506 .2.8.2.2.5.1.4)	read-create	AddressFlag	Standard MIB values.	Address flag for the IPv6 source address and destination address.	Not supported
hh3cAcIIPAcINam edAdvSrcAddrTyp e (1.3.6.1.4.1.25506 .2.8.2.2.5.1.5)	read-create	InetAddressType	Standard MIB values.	Source IP address type.	As per the MIB.
hh3cAcIIPAcINam edAdvSrcAddr (1.3.6.1.4.1.25506 .2.8.2.2.5.1.6)	read-create	InetAddress	Standard MIB values.	Source IP address.	As per the MIB.
hh3cAcIIPAcINam edAdvSrcPrefix (1.3.6.1.4.1.25506 .2.8.2.2.5.1.7)	read-create	InetAddressPrefix Length	Standard MIB values.	Source IP address prefix.	As per the MIB.
hh3cAcIIPAcINam edAdvSrcAny (1.3.6.1.4.1.25506 .2.8.2.2.5.1.8)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the source IP address can be any value.	Default: true(1)
hh3cAcIIPAcINam edAdvSrcWild (1.3.6.1.4.1.25506 .2.8.2.2.5.1.9)	read-create	IpAddress	Standard MIB values.	Source IP address wildcard mask.	As per the MIB.
hh3cAcIIPAcINam edAdvSrcOp (1.3.6.1.4.1.25506 .2.8.2.2.5.1.10)	read-create	PortOp	Standard MIB values.	Port operator.	As per the MIB.
hh3cAcIIPAcINam edAdvSrcPort1 (1.3.6.1.4.1.25506 .2.8.2.2.5.1.11)	read-create	Integer32	0..65535	Source UDP or TCP port 1	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcINameAdvSrcPort2 (1.3.6.1.4.1.25506.2.8.2.2.5.1.12)	read-create	Integer32	0..65535	Source UDP or TCP port 2	As per the MIB.
hh3cAcIIPAcINameAdvDstAddrType (1.3.6.1.4.1.25506.2.8.2.2.5.1.13)	read-create	InetAddressType	Standard MIB values.	Destination address type.	As per the MIB.
hh3cAcIIPAcINameAdvDstAddr (1.3.6.1.4.1.25506.2.8.2.2.5.1.14)	read-create	InetAddress	Standard MIB values.	Destination IP address.	As per the MIB.
hh3cAcIIPAcINameAdvDstPrefix (1.3.6.1.4.1.25506.2.8.2.2.5.1.15)	read-create	InetAddressPrefix Length	Standard MIB values.	Destination address prefix.	As per the MIB.
hh3cAcIIPAcINameAdvDstAny (1.3.6.1.4.1.25506.2.8.2.2.5.1.16)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether the destination IP address can be any value.	Default: true(1)
hh3cAcIIPAcINameAdvDstWild (1.3.6.1.4.1.25506.2.8.2.2.5.1.17)	read-create	IpAddress	Standard MIB values.	Destination IP address wildcard mask.	As per the MIB.
hh3cAcIIPAcINameAdvDstOp (1.3.6.1.4.1.25506.2.8.2.2.5.1.18)	read-create	PortOp	Standard MIB values.	Port operator.	As per the MIB.
hh3cAcIIPAcINameAdvDstPort1 (1.3.6.1.4.1.25506.2.8.2.2.5.1.19)	read-create	Integer32	0..65535	Destination UDP or TCP port 1.	As per the MIB.
hh3cAcIIPAcINameAdvDstPort2 (1.3.6.1.4.1.25506.2.8.2.2.5.1.20)	read-create	Integer32	0..65535	Destination UDP or TCP port 2.	As per the MIB.
hh3cAcIIPAcINameAdvIcmpType (1.3.6.1.4.1.25506.2.8.2.2.5.1.21)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	ICMP message type.	As per the MIB.
hh3cAcIIPAcINameAdvIcmpCode (1.3.6.1.4.1.25506.2.8.2.2.5.1.22)	read-create	Integer32	<ul style="list-style-type: none"> 0..255 65535 	ICMP message code.	As per the MIB.
hh3cAcIIPAcINameAdvPrecedence (1.3.6.1.4.1.25506.2.8.2.2.5.1.23)	read-create	Integer32	<ul style="list-style-type: none"> 0..7 255 	IP precedence.	As per the MIB.
hh3cAcIIPAcINameAdvTos (1.3.6.1.4.1.25506.2.8.2.2.5.1.24)	read-create	Integer32	<ul style="list-style-type: none"> 0..15 255 	ToS.	As per the MIB.
hh3cAcIIPAcINameAdvDscp (1.3.6.1.4.1.25506.2.8.2.2.5.1.25)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	DSCP.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.2.5.1.25)					
hh3cAcIIPAcINam edAdvTRangeNa me (1.3.6.1.4.1.25506 .2.8.2.2.5.1.26)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcIIPAcINam edAdvTCPFlag (1.3.6.1.4.1.25506 .2.8.2.2.5.1.27)	read-create	TCPFlag	Standard MIB values.	TCP flag.	As per the MIB.
hh3cAcIIPAcINam edAdvFragmentFl ag (1.3.6.1.4.1.25506 .2.8.2.2.5.1.28)	read-create	FragmentFlag	Standard MIB values.	Fragments flag.	Support 0 and 2.
hh3cAcIIPAcINam edAdvLog (1.3.6.1.4.1.25506 .2.8.2.2.5.1.29)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	As per the MIB.
hh3cAcIIPAcINam edAdvCount (1.3.6.1.4.1.25506 .2.8.2.2.5.1.30)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAcIIPAcINam edAdvCountClear (1.3.6.1.4.1.25506 .2.8.2.2.5.1.31)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcIIPAcINam edAdvEnable (1.3.6.1.4.1.25506 .2.8.2.2.5.1.32)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcIIPAcINam edAdvVpnInstNa me (1.3.6.1.4.1.25506 .2.8.2.2.5.1.33)	read-create	OCTET STRING	SIZE (0..32)	VPN instance name.	Implementation varies by product
hh3cAcIIPAcINam edAdvComment (1.3.6.1.4.1.25506 .2.8.2.2.5.1.34)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcIIPAcINam edAdvReflective (1.3.6.1.4.1.25506 .2.8.2.2.5.1.35)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Whether it is a reflective rule.	Not supported
hh3cAcIIPAcINam edAdvCounting (1.3.6.1.4.1.25506 .2.8.2.2.5.1.36)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.
hh3cAcIIPAcINam edAdvTCPFlagMa sk (1.3.6.1.4.1.25506 .2.8.2.2.5.1.37)	read-create	Hh3cAlarmStatus	<ul style="list-style-type: none"> tcpack(0) tcpfin(1) tcppsh(2) tcprst(3) tcpsyn(4) tcpurg(5) 	TCP flag bit mask.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIIPAcINameAdvTCPFlagValue (1.3.6.1.4.1.25506.2.8.2.2.5.1.38)	read-create	Hh3cAlarmStatus	<ul style="list-style-type: none"> • tcpack(0) • tcpfin(1) • tcppsh(2) • tcprst(3) • tcpsyn(4) • tcpurg(5) 	TCP flag bit set.	As per the MIB.
hh3cAcIIPAcINameAdvRouteTypeAny (1.3.6.1.4.1.25506.2.8.2.2.5.1.39)	read-create	TruthValue	<ul style="list-style-type: none"> • true(1) • false(2) 	Whether the rule matches all types of IPv6 routing headers.	As per the MIB.
hh3cAcIIPAcINameAdvRouteTypeValue (1.3.6.1.4.1.25506.2.8.2.2.5.1.40)	read-create	Integer32	<ul style="list-style-type: none"> • 0..255 • 65535 	Type of IPv6 routing header.	As per the MIB.
hh3cAcIIPAcINameAdvFlowLabel (1.3.6.1.4.1.25506.2.8.2.2.5.1.41)	read-create	Unsigned32	<ul style="list-style-type: none"> • 0..1048575 • 4294967295 	Flow label.	Default: 0.
h3cAcIIPAcINameAdvSrcSuffix	read-create	Unsigned32	Standard MIB values.	Source address suffix.	Not supported.
h3cAcIIPAcINameAdvDstSuffix	read-create	Unsigned32	Standard MIB values.	Destination address suffix.	Not supported.

hh3cAcIIMACTable

About this table

This table records MAC ACL (also called Layer 2 ACL) configuration information. Use this table to add or delete a MAC ACL rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINumberGroupIndex, and h3cAcIMACRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIMACRuleIndex (1.3.6.1.4.1.25506.2.8.2.3.1.1.1)	not-accessible	Integer32	0..65534	ACL rule ID.	As per the MIB.
hh3cAcIMACRowStatus (1.3.6.1.4.1.25506.2.8.2.3.1.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)
hh3cAcIMACAct	read-create	RuleAction	Standard MIB	Action type.	<ul style="list-style-type: none"> • permit(2)

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.2.3.1.1.3)			values.		<ul style="list-style-type: none"> deny(3)
hh3cAcIMACTypeCode (1.3.6.1.4.1.25506.2.8.2.3.1.1.4)	read-create	OCTET STRING	SIZE (0..32)	Layer 2 protocol type.	As per the MIB.
hh3cAcIMACTypeMask (1.3.6.1.4.1.25506.2.8.2.3.1.1.5)	read-create	OCTET STRING	SIZE (0..32)	Mask of the Layer 2 protocol type.	As per the MIB.
hh3cAcIMACSrcMac (1.3.6.1.4.1.25506.2.8.2.3.1.1.6)	read-create	MacAddress	Standard MIB values.	Source MAC address.	As per the MIB.
hh3cAcIMACSrcMacWild (1.3.6.1.4.1.25506.2.8.2.3.1.1.7)	read-create	MacAddress	Standard MIB values.	Mask of the source MAC address.	As per the MIB.
hh3cAcIMACDestMac (1.3.6.1.4.1.25506.2.8.2.3.1.1.8)	read-create	MacAddress	Standard MIB values.	Destination MAC address.	As per the MIB.
hh3cAcIMACDestMacWild (1.3.6.1.4.1.25506.2.8.2.3.1.1.9)	read-create	MacAddress	Standard MIB values.	Destination MAC address mask.	As per the MIB.
hh3cAcIMACLSapCode (1.3.6.1.4.1.25506.2.8.2.3.1.1.10)	read-create	OCTET STRING	SIZE (0..32)	Encapsulation format of the frame.	As per the MIB.
hh3cAcIMACLSapMask (1.3.6.1.4.1.25506.2.8.2.3.1.1.11)	read-create	OCTET STRING	SIZE (0..32)	LSAP mask.	As per the MIB.
hh3cAcIMACCos (1.3.6.1.4.1.25506.2.8.2.3.1.1.12)	read-create	Integer32	<ul style="list-style-type: none"> 0..7 255 	802.1p priority in VLAN tags.	As per the MIB.
hh3cAcIMACTimeRangeName (1.3.6.1.4.1.25506.2.8.2.3.1.1.13)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcIMACCount (1.3.6.1.4.1.25506.2.8.2.3.1.1.14)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAcIMACCountClear (1.3.6.1.4.1.25506.2.8.2.3.1.1.15)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcIMACEnable (1.3.6.1.4.1.25506.2.8.2.3.1.1.16)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcIMACComment	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.2.3.1.1.17)					
hh3cAcI MACLog (1.3.6.1.4.1.25506.2.8.2.3.1.1.18)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	Not supported
hh3cAcI MACCounting (1.3.6.1.4.1.25506.2.8.2.3.1.1.19)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.

hh3cAcI NamedMACTable

About this table

This table records MAC ACL configuration information. Use this table to add or delete a rule for a named MAC ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcI NumberGroupType, h3cAcI NamedGroupName, and h3cAcI MACRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcI NamedM ACRowStatus (1.3.6.1.4.1.25506.2.8.2.3.2.1.1)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcI NamedM ACAct (1.3.6.1.4.1.25506.2.8.2.3.2.1.2)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcI NamedM ACTypeCode (1.3.6.1.4.1.25506.2.8.2.3.2.1.3)	read-create	OCTET STRING	SIZE(0..32)	Layer 2 protocol type.	As per the MIB.
hh3cAcI NamedM ACTypeMask (1.3.6.1.4.1.25506.2.8.2.3.2.1.4)	read-create	OCTET STRING	SIZE (0..32)	Mask of the Layer 2 protocol type.	As per the MIB.
hh3cAcI NamedM ACSrcMac (1.3.6.1.4.1.25506.2.8.2.3.2.1.5)	read-create	MacAddress	Standard MIB values.	Source MAC address.	As per the MIB.
hh3cAcI NamedM ACSrcMacWild (1.3.6.1.4.1.25506.2.8.2.3.2.1.6)	read-create	MacAddress	Standard MIB values.	Source MAC address mask.	As per the MIB.
hh3cAcI NamedM ACDstMac (1.3.6.1.4.1.25506.2.8.2.3.2.1.7)	read-create	MacAddress	Standard MIB values.	Destination MAC address.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.3.2.1.7)					
hh3cAcINamedM ACDStMacWild (1.3.6.1.4.1.25506 .2.8.2.3.2.1.8)	read-create	MacAddress	Standard MIB values.	Destination MAC address mask.	As per the MIB.
hh3cAcINamedM ACLSapCode (1.3.6.1.4.1.25506 .2.8.2.3.2.1.9)	read-create	OCTET STRING	SIZE (0..32)	Encapsulation format of the frame.	As per the MIB.
hh3cAcINamedM ACLSapMask (1.3.6.1.4.1.25506 .2.8.2.3.2.1.10)	read-create	OCTET STRING	SIZE (0..32)	LSAP mask.	As per the MIB.
hh3cAcINamedM ACCos (1.3.6.1.4.1.25506 .2.8.2.3.2.1.11)	read-create	Integer32	<ul style="list-style-type: none"> 0..7 255 	802.1p priority in VLAN tags.	As per the MIB.
hh3cAcINamedM ACTimeRangeNa me (1.3.6.1.4.1.25506 .2.8.2.3.2.1.12)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcINamedM ACCount (1.3.6.1.4.1.25506 .2.8.2.3.2.1.13)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAcINamedM ACCountClear (1.3.6.1.4.1.25506 .2.8.2.3.2.1.14)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcINamedM ACEnable (1.3.6.1.4.1.25506 .2.8.2.3.2.1.15)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcINamedM ACComment (1.3.6.1.4.1.25506 .2.8.2.3.2.1.16)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcINamedM ACLog (1.3.6.1.4.1.25506 .2.8.2.3.2.1.17)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	Not supported
hh3cAcINamedM ACCounting (1.3.6.1.4.1.25506 .2.8.2.3.2.1.18)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.

hh3cAcIEnUserTable

About this table

This table records user-defined ACL configuration information. Use this table to add or delete a user-defined ACL rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINumberGroupIndex, and h3cAcIEnUserRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIEnUserRuleIndex (1.3.6.1.4.1.25506.2.8.2.4.3.1.1)	not-accessible	Integer32	0..65534	ACL rule ID.	As per the MIB.
hh3cAcIEnUserRowStatus (1.3.6.1.4.1.25506.2.8.2.4.3.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcIEnUserAction (1.3.6.1.4.1.25506.2.8.2.4.3.1.3)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcIEnUserStartString (1.3.6.1.4.1.25506.2.8.2.4.3.1.4)	read-create	OCTET STRING	SIZE (0..255)	String for packet matching.	Not supported
hh3cAcIEnUserL2String (1.3.6.1.4.1.25506.2.8.2.4.3.1.5)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 2 packet matching.	Default: "0,(null),(null)"
hh3cAcIEnUserMplsString (1.3.6.1.4.1.25506.2.8.2.4.3.1.6)	read-create	OCTET STRING	SIZE (0..255)	String for MPLS packet matching.	Not supported
hh3cAcIEnUserIPv4String (1.3.6.1.4.1.25506.2.8.2.4.3.1.7)	read-create	OCTET STRING	SIZE (0..255)	String for IPv4 packet matching.	Default: "0,(null),(null)"
hh3cAcIEnUserIPv6String (1.3.6.1.4.1.25506.2.8.2.4.3.1.8)	read-create	OCTET STRING	SIZE (0..255)	String for IPv6 packet matching.	Default: "0,(null),(null)"
hh3cAcIEnUserL4String (1.3.6.1.4.1.25506.2.8.2.4.3.1.9)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 4 packet matching.	Default: "0,(null),(null)"
hh3cAcIEnUserL5String (1.3.6.1.4.1.25506.2.8.2.4.3.1.10)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 5 packet matching.	Not supported
hh3cAcIEnUserTimeRangeName (1.3.6.1.4.1.25506.2.8.2.4.3.1.11)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcIEnUserCount	read-only	Unsigned32	Standard MIB	Number of packets matching	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.2.4.3.1.12)			values.	the ACL rule.	
hh3cAcIEnUserCountClear (1.3.6.1.4.1.25506.2.8.2.4.3.1.13)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcIEnUserEnable (1.3.6.1.4.1.25506.2.8.2.4.3.1.14)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcIEnUserComment (1.3.6.1.4.1.25506.2.8.2.4.3.1.15)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcIEnUserLogging (1.3.6.1.4.1.25506.2.8.2.4.3.1.16)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	Not supported
hh3cAcIEnUserCounting (1.3.6.1.4.1.25506.2.8.2.4.3.1.17)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.

hh3cAcINamedUserTable

About this table

This table records named user-defined ACL configuration information. Use this table to add or delete a rule for a named user-defined ACL rule.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cAcINumberGroupType, h3cAcINamedGroupName, and h3cAcIEnUserRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcINamedUserRowStatus (1.3.6.1.4.1.25506.2.8.2.4.4.1.1)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cAcINamedUserAct (1.3.6.1.4.1.25506.2.8.2.4.4.1.2)	read-create	RuleAction	Standard MIB values.	Action type.	<ul style="list-style-type: none"> permit(2) deny(3)
hh3cAcINamedUserStartString (1.3.6.1.4.1.25506.2.8.2.4.4.1.3)	read-create	OCTET STRING	SIZE (0..255)	String for packet matching.	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcINamedUserL2String (1.3.6.1.4.1.25506.2.8.2.4.4.1.4)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 2 packet matching.	Default: "0,(null),(null)"
hh3cAcINamedUserMplsString (1.3.6.1.4.1.25506.2.8.2.4.4.1.5)	read-create	OCTET STRING	SIZE (0..255)	String for MPLS packet matching.	Not supported
hh3cAcINamedUserIPv4String (1.3.6.1.4.1.25506.2.8.2.4.4.1.6)	read-create	OCTET STRING	SIZE (0..255)	String for IPv4 packet matching.	Default: "0,(null),(null)"
hh3cAcINamedUserIPv6String (1.3.6.1.4.1.25506.2.8.2.4.4.1.7)	read-create	OCTET STRING	SIZE (0..255)	String for IPv6 packet matching.	Default: "0,(null),(null)"
hh3cAcINamedUserL4String (1.3.6.1.4.1.25506.2.8.2.4.4.1.8)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 4 packet matching.	Default: "0,(null),(null)"
hh3cAcINamedUserL5String (1.3.6.1.4.1.25506.2.8.2.4.4.1.9)	read-create	OCTET STRING	SIZE (0..255)	String for Layer 5 packet matching.	Not supported
hh3cAcINamedUserTimeRangeName (1.3.6.1.4.1.25506.2.8.2.4.4.1.10)	read-create	OCTET STRING	SIZE (0..32)	Time range name.	As per the MIB.
hh3cAcINamedUserCount (1.3.6.1.4.1.25506.2.8.2.4.4.1.11)	read-only	Unsigned32	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cAcINamedUserCountClear (1.3.6.1.4.1.25506.2.8.2.4.4.1.12)	read-write	CounterClear	Standard MIB values.	Clear the rule match count.	Not supported
hh3cAcINamedUserEnable (1.3.6.1.4.1.25506.2.8.2.4.4.1.13)	read-only	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the rule.	As per the MIB.
hh3cAcINamedUserComment (1.3.6.1.4.1.25506.2.8.2.4.4.1.14)	read-create	OCTET STRING	SIZE (0..127)	Rule description.	Read and write.
hh3cAcINamedUserLog (1.3.6.1.4.1.25506.2.8.2.4.4.1.15)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of the logging feature.	Not supported
hh3cAcINamedUserCounting (1.3.6.1.4.1.25506.2.8.2.4.4.1.16)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of counting packets matching the rule.	As per the MIB.

hh3cAcIResourceUsageTable

About this table

This table obtains the ACL TCAM resource usage information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cAcIResourceChassis, h3cAcIResourceSlot, h3cAcIResourceChip, and hh3cAcIResourceType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAcIResourceChassis (1.3.6.1.4.1.25506.2.8.2.5.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number.	As per the MIB.
hh3cAcIResourceSlot (1.3.6.1.4.1.25506.2.8.2.5.1.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number.	As per the MIB.
hh3cAcIResourceChip (1.3.6.1.4.1.25506.2.8.2.5.1.1.3)	not-accessible	Unsigned32	Standard MIB values.	Chip number that the ACL TCAM resource maps to.	As per the MIB.
hh3cAcIResourceType (1.3.6.1.4.1.25506.2.8.2.5.1.1.4)	not-accessible	Integer32	1..255	Type of the ACL TCAM resources.	As per the MIB.
hh3cAcIPortRange (1.3.6.1.4.1.25506.2.8.2.5.1.1.5)	read-only	OCTET STRING	SIZE (0..255)	Port range of the ACL TCAM resources.	As per the MIB.
hh3cAcIResourceTotal (1.3.6.1.4.1.25506.2.8.2.5.1.1.6)	read-only	Unsigned32	Standard MIB values.	Total number of the resources of the current type.	As per the MIB.
hh3cAcIResourceReserved (1.3.6.1.4.1.25506.2.8.2.5.1.1.7)	read-only	Unsigned32	Standard MIB values.	Number of reserved resources of the current type.	As per the MIB.
hh3cAcIResourceConfigured (1.3.6.1.4.1.25506.2.8.2.5.1.1.8)	read-only	Unsigned32	Standard MIB values.	Number of allocated resources of the current type.	As per the MIB.
hh3cAcIResourceUsagePercent (1.3.6.1.4.1.25506.2.8.2.5.1.1.9)	read-only	Unsigned32	Standard MIB values.	Usage of the resources of the current type.	As per the MIB.
hh3cAcIResourceTypeDescription (1.3.6.1.4.1.25506.2.8.2.5.1.1.10)	read-only	OCTET STRING	SIZE (0..31)	Description of the ACL resource type.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.8.2.5.1.1.10)					

hh3cAclIntervalTable

About this table

This table records ACL logging and notification configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is h3cAclIntervalType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAclIntervalType (1.3.6.1.4.1.25506.2.8.2.6.1.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> logging(1) trap(2) 	Object type of the interval.	As per the MIB.
hh3cAclIntervalValue (1.3.6.1.4.1.25506.2.8.2.6.1.1.2)	read-create	Integer32	5..1440	Interval value.	As per the MIB.
hh3cAclIntervalRowStatus (1.3.6.1.4.1.25506.2.8.2.6.1.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3cPfilterApplyTable

About this table

This MIB records packet filter application configuration. You can apply or cancel the packet filter configuration on a specified entity.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cPfilterApplyObjType, h3cPfilterApplyObjIndex, h3cPfilterApplyDirection, h3cPfilterApplyAclType, and h3cPfilterApplyAclIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterApplyObjType	not-accessible	INTEGER	<ul style="list-style-type: none"> interface (1) vlan(2) 	Entity type of the packet filter	Implementation varies by product

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.3.2.1.1)			<ul style="list-style-type: none"> global(3) 	application.	
hh3cPfilterApplyObjIndex (1.3.6.1.4.1.25506.2.8.3.2.1.2)	not-accessible	Integer32	0..2147483647	Packet filter application index.	As per the MIB.
hh3cPfilterApplyDirection (1.3.6.1.4.1.25506.2.8.3.2.1.3)	not-accessible	DirectionType	Standard MIB values.	Packet filter application direction.	As per the MIB.
hh3cPfilterApplyAcclType (1.3.6.1.4.1.25506.2.8.3.2.1.4)	not-accessible	INTEGER	<ul style="list-style-type: none"> ipv4(1) ipv6(2) default(3) mac(4) user(5) 	Type of the ACL in the packet filter.	Implementation varies by product
hh3cPfilterApplyAcclIndex (1.3.6.1.4.1.25506.2.8.3.2.1.5)	not-accessible	Integer32	0 2000..5999	Number of the ACL in the packet filter.	Implementation varies by product
hh3cPfilterApplyHardwareCount (1.3.6.1.4.1.25506.2.8.3.2.1.6)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of hardware counting.	Implementation varies by product
hh3cPfilterApplySequence (1.3.6.1.4.1.25506.2.8.3.2.1.7)	read-only	Unsigned32	Standard MIB values.	Packet filtering application sequence number.	As per the MIB.
hh3cPfilterApplyCounterClear (1.3.6.1.4.1.25506.2.8.3.2.1.8)	read-write	CounterClear	Standard MIB values.	Clear statistics for the specified ACL.	As per the MIB.
hh3cPfilterApplyRowStatus (1.3.6.1.4.1.25506.2.8.3.2.1.9)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cPfilterAcclGroupRunInfoTable

About this table

This table records ACL running information in packet filter. Use this table to obtain the packet filter status and statistics from a specified entity.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cPfilterRunApplyObjType, hh3cPfilterRunApplyObjIndex, hh3cPfilterRunApplyDirection, hh3cPfilterRunApplyAcclType, and hh3cPfilterRunApplyAcclIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterRunApplyObjType (1.3.6.1.4.1.25506.2.8.3.3.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> interface (1) vlan(2) global(3) 	Type of the entity on which the packet filter running information is obtained.	Implementation varies by product
hh3cPfilterRunApplyObjIndex (1.3.6.1.4.1.25506.2.8.3.3.1.2)	not-accessible	Integer32	0..2147483647	Packet filter application index.	As per the MIB.
hh3cPfilterRunApplyDirection (1.3.6.1.4.1.25506.2.8.3.3.1.3)	not-accessible	DirectionType	Standard MIB values.	Direction of the packet filter application.	As per the MIB.
hh3cPfilterRunApplyAclType (1.3.6.1.4.1.25506.2.8.3.3.1.4)	not-accessible	INTEGER	<ul style="list-style-type: none"> ipv4(1) ipv6(2) default(3) mac(4) user(5) 	Type of the ACL used in the packet filter application.	Implementation varies by product
hh3cPfilterRunApplyAclIndex (1.3.6.1.4.1.25506.2.8.3.3.1.5)	not-accessible	Integer32	<ul style="list-style-type: none"> 1..3 2000..5999 	Number of the ACL used in the packet filter application.	Implementation varies by product
hh3cPfilterAclGroupStatus (1.3.6.1.4.1.25506.2.8.3.3.1.6)	read-only	INTEGER	<ul style="list-style-type: none"> success(1) failed(2) partialSuccess(3) 	Application status of the ACL for the packet filter.	As per the MIB.
hh3cPfilterAclGroupCountStatus (1.3.6.1.4.1.25506.2.8.3.3.1.7)	read-only	INTEGER	<ul style="list-style-type: none"> success(1) failed(2) partialSuccess(3) 	Enabling status of the hardware count for the ACL used by the packet filter.	Implementation varies by product
hh3cPfilterAclGroupPermitPkts (1.3.6.1.4.1.25506.2.8.3.3.1.8)	read-only	Counter64	Standard MIB values.	Number of packets permitted by the ACL.	Implementation varies by product
hh3cPfilterAclGroupPermitBytes (1.3.6.1.4.1.25506.2.8.3.3.1.9)	read-only	Counter64	Standard MIB values.	Number of bytes permitted by the ACL.	Implementation varies by product
hh3cPfilterAclGroupDenyPkts (1.3.6.1.4.1.25506.2.8.3.3.1.10)	read-only	Counter64	Standard MIB values.	Number of packets dropped by the ACL.	Implementation varies by product
hh3cPfilterAclGroupDenyBytes (1.3.6.1.4.1.25506.2.8.3.3.1.11)	read-only	Counter64	Standard MIB values.	Number of bytes dropped by the ACL.	Implementation varies by product

hh3cPfilterAclRuleRunInfoTable

About this table

This table records the ACL rule running information for the packet filter. Use this table to obtain the packet filter status and statistics on an entity.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cPfilterRunApplyObjType, h3cPfilterRunApplyObjIndex, h3cPfilterRunApplyDirection, h3cPfilterRunApplyAclType, h3cPfilterRunApplyAclIndex, and h3cPfilterAclRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterAclRuleIndex (1.3.6.1.4.1.25506.2.8.3.4.1.1)	not-accessible	Integer32	0..65534	ACL rule ID.	As per the MIB.
hh3cPfilterAclRuleStatus (1.3.6.1.4.1.25506.2.8.3.4.1.2)	read-only	INTEGER	<ul style="list-style-type: none">• success(1)• failed(2)• partialSuccess(3)	Application status of the ACL rule.	As per the MIB.
hh3cPfilterAclRuleCountStatus (1.3.6.1.4.1.25506.2.8.3.4.1.3)	read-only	INTEGER	<ul style="list-style-type: none">• success(1)• failed(2)• partialSuccess(3)	Enabling status of the rule match count.	Implementation varies by product
hh3cPfilterAclRuleMatchPackets (1.3.6.1.4.1.25506.2.8.3.4.1.4)	read-only	Counter64	Standard MIB values.	Number of packets matching the ACL rule.	Implementation varies by product
hh3cPfilterAclRuleMatchBytes (1.3.6.1.4.1.25506.2.8.3.4.1.5)	read-only	Counter64	Standard MIB values.	Number of bytes matching the ACL rule.	Implementation varies by product

hh3cPfilterStatisticSumTable

About this table

Use this table to obtain the accumulated packet filter statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cPfilterSumDirection, h3cPfilterSumAcIType, h3cPfilterSumAcIIndex, and h3cPfilterSumRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilterSumDir ection (1.3.6.1.4.1.25506 .2.8.3.5.1.1)	not-accessible	DirectionType	Standard MIB values.	Direction of the application for which the accumulated statistics is obtained.	As per the MIB.
hh3cPfilterSumAcI Type (1.3.6.1.4.1.25506 .2.8.3.5.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none"> • ipv4(1) • ipv6(2) • mac(3) • user(4) 	Type of the ACL for which the accumulated statistics is obtained.	Implementation varies by product
hh3cPfilterSumAcI Index (1.3.6.1.4.1.25506 .2.8.3.5.1.3)	not-accessible	Integer32	2000..5999	Number of the ACL for which the accumulated statistics is obtained.	Implementation varies by product
hh3cPfilterSumRu leIndex (1.3.6.1.4.1.25506 .2.8.3.5.1.4)	not-accessible	Integer32	0..65534	Number of the ACL rule for which the accumulated statistics is obtained.	As per the MIB.
hh3cPfilterSumRu leMatchPackets (1.3.6.1.4.1.25506 .2.8.3.5.1.5)	read-only	Counter64	Standard MIB values.	Number of packets matching the rule in the packet filter.	Implementation varies by product
hh3cPfilterSumRu leMatchBytes (1.3.6.1.4.1.25506 .2.8.3.5.1.6)	read-only	Counter64	Standard MIB values.	Number of bytes matching the rule in the packet filter.	Implementation varies by product

hh3cPfilter2ApplyTable

About this table

This table records the packet filter application configuration. Use this table to apply or cancel the packet filter configuration on an entity.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cPfilter2ApplyObjType, h3cPfilter2ApplyObjIndex, h3cPfilter2ApplyDirection, h3cPfilter2ApplyAcIType, and h3cPfilter2ApplyAcIIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilter2Apply ObjType	accessible-for-noti fy	INTEGER	<ul style="list-style-type: none"> • interface (1) 	Type of the application object.	Implementation varies by product

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.8.3.6.1.1)			<ul style="list-style-type: none"> vlan(2) global(3) 		
hh3cPfilter2ApplyObjIndex (1.3.6.1.4.1.25506.2.8.3.6.1.2)	accessible-for-notify	Integer32	0..2147483647	Index of the application object.	As per the MIB.
hh3cPfilter2ApplyDirection (1.3.6.1.4.1.25506.2.8.3.6.1.3)	accessible-for-notify	DirectionType	Standard MIB values.	Packet filter application direction.	As per the MIB.
hh3cPfilter2ApplyAclType (1.3.6.1.4.1.25506.2.8.3.6.1.4)	accessible-for-notify	INTEGER	<ul style="list-style-type: none"> ipv4(1) ipv6(2) default(3) mac(4) user(5) 	Type of the ACL used by the packet filter.	Implementation varies by product
hh3cPfilter2ApplyAclIndex (1.3.6.1.4.1.25506.2.8.3.6.1.5)	accessible-for-notify	OCTET STRING	SIZE (1..63)	Number or name of the ACL used by the packet filter.	Implementation varies by product
hh3cPfilter2ApplyHardCount (1.3.6.1.4.1.25506.2.8.3.6.1.6)	read-create	TruthValue	<ul style="list-style-type: none"> true(1) false(2) 	Enabling status of hardware counting.	Implementation varies by product
hh3cPfilter2ApplySequence (1.3.6.1.4.1.25506.2.8.3.6.1.7)	read-only	Unsigned32	Standard MIB values.	Packet filter application sequence number.	As per the MIB.
hh3cPfilter2ApplyCountClear (1.3.6.1.4.1.25506.2.8.3.6.1.8)	read-write	CounterClear	Standard MIB values.	Clear statistics for the specified ACL.	As per the MIB.

hh3cPfilter2AclGroupRunInfoTable

About this table

This table records the ACL running information for the packet filter. Use this table to obtain the packet filter status and statistics from an entity. Different from h3cPfilterAclGroupRunInfoTable, hh3cPfilter2RunApplyAclIndex in this table supports obtaining statistics for numbered and named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cPfilter2RunApplyObjType, h3cPfilter2RunApplyObjIndex, h3cPfilter2RunApplyDirection, h3cPfilter2RunApplyAclType, and h3cPfilter2RunApplyAclIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilter2RunA pplyObjType (1.3.6.1.4.1.25506 .2.8.3.7.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> • interface (1) • vlan(2) • global(3) 	Type of the entity on which the ACL running information is obtained.	Implementation varies by product
hh3cPfilter2RunA pplyObjIndex (1.3.6.1.4.1.25506 .2.8.3.7.1.2)	not-accessible	Integer32	0..2147483647	Packet filter application index.	As per the MIB.
hh3cPfilter2RunA pplyDirection (1.3.6.1.4.1.25506 .2.8.3.7.1.3)	not-accessible	DirectionType	Standard MIB values.	Packet filter application direction.	As per the MIB.
hh3cPfilter2RunA pplyAcIType (1.3.6.1.4.1.25506 .2.8.3.7.1.4)	not-accessible	INTEGER	<ul style="list-style-type: none"> • ipv4(1) • ipv6(2) • default(3) • mac(4) • user(5) 	Type of the ACL used in the packet filter.	Implementation varies by product
hh3cPfilter2RunA pplyAcIIndex (1.3.6.1.4.1.25506 .2.8.3.7.1.5)	not-accessible	OCTET STRING	SIZE (1..63)	Number of name of the ACL.	Implementation varies by product
hh3cPfilter2AcIGr oupStatus (1.3.6.1.4.1.25506 .2.8.3.7.1.6)	read-only	INTEGER	<ul style="list-style-type: none"> • success(1) • failed(2) • partialSuccess (3) 	Application status of the ACL.	As per the MIB.
hh3cPfilter2AcIGr oupCountStatus (1.3.6.1.4.1.25506 .2.8.3.7.1.7)	read-only	INTEGER	<ul style="list-style-type: none"> • success(1) • failed(2) • partialSuccess (3) 	Enabling status of the hardware count for the ACL used by the packet filter.	Implementation varies by product
hh3cPfilter2AcIGr oupPermitPkts (1.3.6.1.4.1.25506 .2.8.3.7.1.8)	read-only	Counter64	Standard MIB values.	Number of packets permitted by the ACL.	Implementation varies by product
hh3cPfilter2AcIGr oupPermitBytes (1.3.6.1.4.1.25506 .2.8.3.7.1.9)	read-only	Counter64	Standard MIB values.	Number of bytes permitted by the ACL.	Implementation varies by product
hh3cPfilter2AcIGr oupDenyPkts (1.3.6.1.4.1.25506 .2.8.3.7.1.10)	read-only	Counter64	Standard MIB values.	Number of packets dropped by the ACL.	Implementation varies by product
hh3cPfilter2AcIGr oupDenyBytes (1.3.6.1.4.1.25506 .2.8.3.7.1.11)	read-only	Counter64	Standard MIB values.	Number of bytes dropped by the ACL.	Implementation varies by product

hh3cPfilter2AclRuleRunInfoTable

About this table

This table records the ACL rule running information for the packet filter. Use this table to obtain the packet filter status and statistics from an entity. Different from the tableh3cPfilterAclRuleRunInfoTable, the index in this table supports obtaining statistics for numbered and named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cPfilter2RunApplyObjType, h3cPfilter2RunApplyObjIndex, h3cPfilter2RunApplyDirection, h3cPfilter2RunApplyAclType, h3cPfilter2RunApplyAclIndex, and h3cPfilter2AclRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilter2AclRuleIndex (1.3.6.1.4.1.25506.2.8.3.8.1.1)	accessible-for-notify	Integer32	0..65534	ACL rule ID.	As per the MIB.
hh3cPfilter2AclRuleStatus (1.3.6.1.4.1.25506.2.8.3.8.1.2)	read-only	INTEGER	<ul style="list-style-type: none">• success(1)• failed(2)• partialSuccess(3)	Application status of the ACL rule.	As per the MIB.
hh3cPfilter2AclRuleCountStatus (1.3.6.1.4.1.25506.2.8.3.8.1.3)	read-only	INTEGER	<ul style="list-style-type: none">• success(1)• failed(2)• partialSuccess(3)	Enabling status of the rule match count.	As per the MIB.
hh3cPfilter2AclRuleMatchPkts (1.3.6.1.4.1.25506.2.8.3.8.1.4)	read-only	Counter64	Standard MIB values.	Number of packets matching the ACL rule.	As per the MIB.
hh3cPfilterAclNameRuleMatchBytes (1.3.6.1.4.1.25506.2.8.3.8.1.5)	read-only	Counter64	Standard MIB values.	Number of bytes matching the ACL rule.	Not support

hh3cPfilter2StatisticSumTable

About this table

This table records the accumulated ACL rule statistics for the packet filter. Different from the h3cPfilterStatisticSumTable, the h3cPfilter2SumAclIndex in this table supports numbered and named ACL.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cPfilter2SumDirection, hh3cPfilter2SumAcIType, hh3cPfilter2SumAcIIndex, and hh3cPfilter2SumRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cPfilter2SumDirection (1.3.6.1.4.1.25506.2.8.3.9.1.1)	not-accessible	DirectionType	Standard MIB values.	Direction of packet filter.	As per the MIB.
hh3cPfilter2SumAcIType (1.3.6.1.4.1.25506.2.8.3.9.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none">• ipv4(1)• ipv6(2)• mac(3)• user(4)	Type of the ACL in the packet filter.	Implementation varies by product
hh3cPfilter2SumAcIIndex (1.3.6.1.4.1.25506.2.8.3.9.1.3)	not-accessible	OCTET STRING	SIZE (1..63)	Number or name of the ACL.	Implementation varies by product
hh3cPfilter2SumRuleIndex (1.3.6.1.4.1.25506.2.8.3.9.1.4)	not-accessible	INTEGER	0..65534	ACL rule ID.	As per the MIB.
hh3cPfilter2SumRuleMatchPackets (1.3.6.1.4.1.25506.2.8.3.9.1.5)	read-only	Counter64	Standard MIB values.	Number of packets matching the ACL rule.	Implementation varies by product

Notifications

This section describes the HH3C-ACL-MIB notifications.

hh3cAcIRuleMatchCount

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.8.5.0.2	Notification for the ACL rule matches.	Informational	-	-	OFF

Description

When a trap interval is set through the table hh3cAcIIntervalTable, notifications will be generated at intervals. The notification information includes the number of rule matches in the interval.

Status control

ON

- CLI: Use the `acl trap interval interval` command.
- MIB: Set hh3cAcIIntervalType to trap(2), set the hh3cAcIIntervalValue to a value in the range of 5 to 1440, and use the table hh3cAcIIntervalTable to perform a create operation.

OFF

- MIB: Use the table hh3cAcIIntervalTable to perform a destroy operation.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.3.6.1.1 (hh3cPfilter2ApplyObjType)	Object to which the ACL is applied.	Yes	INTEGER	<ul style="list-style-type: none">• interface(1)• vlan(2)• global(3)
1.3.6.1.4.1.25506.2.8.3.6.1.2 (hh3cPfilter2ApplyObjIndex)	Object index.	Yes	Integer32	0 to 2147483647
1.3.6.1.4.1.25506.2.8.3.6.1.3 (hh3cPfilter2ApplyDirection)	Direction of the packet filter.	Yes	INTEGER	<ul style="list-style-type: none">• inbound(1)• outbound(2)
1.3.6.1.4.1.25506.2.8.3.6.1.4 (hh3cPfilter2ApplyAclType)	Type of the ACL.	No	INTEGER	<ul style="list-style-type: none">• ipv4(1)• ipv6(2)• default(3)• mac(4)• user(5)
1.3.6.1.4.1.25506.2.8.3.6.1.5 (hh3cPfilter2ApplyAclIndex)	ACL index.	Yes	OCTET STRING	SIZE (1 to 63)
1.3.6.1.4.1.25506.2.8.3.8.1.1 (hh3cPfilter2AclRuleIndex)	ACL rule index	Yes	Integer32	0 to 65534.
1.3.6.1.4.1.25506.2.8.3.8.1.4 (hh3cPfilter2AclRuleMatchPackets)	ACL rule match count.	No	Counter64	0 to 18446744073709551615.

Recommended action

No action is required.

hh3cAclFirstIPv4PktCaptured

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.8.5.0.3	Notification for the first IPv4 packet of a flow that match the ACL.	Informational	-	-	OFF

Description

After a trap interval is set through hh3cAclIntervalTable, a notification is generated when the first packet of a flow matches an ACL rule in the packet filter. The notification information includes the first packet information.

Status control

ON

- CLI: Use the `acl trap interval interval` command.
- MIB: Set hh3cAclIntervalType to trap(2), set hh3cAclIntervalValue to a value in the range of 5 to 1440, and use the table hh3cAclIntervalTable to perform a create operation.

OFF

- MIB: Use the table hh3cAclIntervalTable to perform a destroy operation.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.3.6.1.5 (hh3cPfilter2ApplyAclIndex)	ACL index.	Yes	OCTET STRING	SIZE (1 to 63)
1.3.6.1.4.1.25506.2.8.3.8.1.1 (hh3cPfilter2AclRuleIndex)	ACL rule index.	Yes	Integer32	0 to 65534
1.3.6.1.4.1.25506.2.8.4.9 (hh3cAclPacketIfName)	Interface name.	Yes	OCTET STRING	SIZE (0 to 255)
1.3.6.1.4.1.25506.2.8.4.10 (hh3cAclPacketDirection)	Application direction.	Yes	INTEGER	<ul style="list-style-type: none"> inbound(1) outbound(2)
1.3.6.1.4.1.25506.2.8.4.11 (hh3cAclPacketBAGG)	Aggregation group ID.	No	Integer32	0 to 2048
1.3.6.1.4.1.25506.2.8.4.12 (hh3cAclPacketVlanID)	VLAN ID	No	Integer32	0 to 4094
1.3.6.1.4.1.25506.2.8.4.13 (hh3cAclPacketSrcIP)	Packet source IP address.	No	OCTET STRING	SIZE (1 to 255)
1.3.6.1.4.1.25506.2.8.4.14 (hh3cAclPacketDstIP)	Packet destination IP address.	No	OCTET STRING	SIZE (1 to 255)
1.3.6.1.4.1.25506.2.8.4.15 (hh3cAclPacketProtocol)	Protocol.	No	Integer32	0 to 255
1.3.6.1.4.1.25506.2.8.4.16 (hh3cAclPacketDscp)	DSCP priority.	No	Integer32	0 to 2147483647
1.3.6.1.4.1.25506.2.8.4.18 (hh3cAclPacketIcmpIcmpType)	ICMP message type.	No	Integer32	0 to 255
1.3.6.1.4.1.25506.2.8.4.19 (hh3cAclPacketIcmpIcmpCode)	ICMP message code.	No	Integer32	0 to 255
1.3.6.1.4.1.25506.2.8.4.20 (hh3cAclPacketTcpFlags)	Packet TCP flag.	No	INTEGER	<ul style="list-style-type: none"> tcpack(1) tcpfin(2) tcppsh(3) tcprst(4) tcpsyn(5) tcpurg(6) invalid(255)
1.3.6.1.4.1.25506.2.8.4.21 (hh3cAclPacketSrcPort)	Source port number of the packet.	No	Integer32	0 to 65535
1.3.6.1.4.1.25506.2.8.4.22 (hh3cAclPacketDstPort)	Destination port number of the packet.	No	Integer32	0 to 65535

Recommended action

No action is required.

hh3cAcIFirstIPv6PktCaptured

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.8.5.0.4	Notification for the first IPv6 packet of a flow that match the ACL.	Informational	-	-	OFF

Description

When a trap interval is set through the table hh3cAcIIntervalTable, notifications will be generated at intervals. The notification information includes the number of rule matches in the interval.

Status control

ON

- CLI: Use the `acl trap interval interval` command.
- MIB: Set hh3cAcIIntervalType to trap(2), set hh3cAcIIntervalValue to a value in the range of 5 to 1440, and use the table hh3cAcIIntervalTable to perform a create operation.

OFF

- MIB: Use the table hh3cAcIIntervalTable to perform a destroy action.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.3.6.1.5 (hh3cPfilter2ApplyAcIIndex)	ACL index.	Yes	OCTET STRING	SIZE (1 to 63)
1.3.6.1.4.1.25506.2.8.3.8.1.1 (hh3cPfilter2AcIRuleIndex)	ACL rule index.	Yes	Integer32	0 to 65534
1.3.6.1.4.1.25506.2.8.4.9 (hh3cAcIPacketIfName)	Interface name.	Yes	OCTET STRING	SIZE (0 to 255)
1.3.6.1.4.1.25506.2.8.4.10 (hh3cAcIPacketDirection)	Application direction.	Yes	INTEGER	<ul style="list-style-type: none">inbound(1)outbound(2)
1.3.6.1.4.1.25506.2.8.4.11 (hh3cAcIPacketBAGG)	Aggregation group ID.	No	Integer32	0 to 2048
1.3.6.1.4.1.25506.2.8.4.12 (hh3cAcIPacketVlanID)	VLAN ID	No	Integer32	0 to 4094
1.3.6.1.4.1.25506.2.8.4.13 (hh3cAcIPacketSrcIP)	Packet source IP address.	No	OCTET STRING	SIZE (1 to 255)
1.3.6.1.4.1.25506.2.8.4.14 (hh3cAcIPacketDstIP)	Packet Destination IP address.	No	OCTET STRING	SIZE (1 to 255)
1.3.6.1.4.1.25506.2.8.4.15 (hh3cAcIPacketProtocol)	Packet protocol.	No	Integer32	0 to 255
1.3.6.1.4.1.25506.2.8.4.16 (hh3cAcIPacketDscp)	Packet DSCP value.	No	Integer32	0 to 2147483647
1.3.6.1.4.1.25506.2.8.4.17 (hh3cAcIPacketFlowLabel)	Packet flow label.	No	Unsigned32	<ul style="list-style-type: none">0 to 10485754294967295
1.3.6.1.4.1.25506.2.8.4.18 (hh3cAcIPacketIcmpIcmpType)	IGMP message type.	No	Integer32	0 to 255

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.4.19 (hh3cAcIPLcmplgmpCode)	IGMP message code.	No	Integer32	0 to 255
1.3.6.1.4.1.25506.2.8.4.20 (hh3cAcIPacketTcpFlags)	TCP flag.	No	INTEGER	<ul style="list-style-type: none"> • tcpack(1) • tcpfin(2) • tcppsh(3) • tcprst(4) • tcpsyn(5) • tcpurg(6) • invalid(255)
1.3.6.1.4.1.25506.2.8.4.21 (hh3cAcIPacketSrcPort)	Packet source port number.	No	Integer32	0 to 65535
1.3.6.1.4.1.25506.2.8.4.22 (hh3cAcIPacketDstPort)	Packet destination port number.	No	Integer32	0 to 65535

Recommended action

No action is required.

hh3cAcIFirstEthernetPktCaptured

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.8.5.0.5	Notification for the first Layer 2 packet of a flow that match the ACL.	Informational	-	-	OFF

Description

When a trap interval is set through the table hh3cAcIIntervalTable, notifications will be generated at intervals. The notification information includes the number of rule matches in the interval.

Status control

ON

- CLI: Use the `acl trap interval interval` command.
- MIB: Set hh3cAcIIntervalType to trap(2), set hh3cAcIIntervalValue to a value range of 5 to 1440, and use the table hh3cAcIIntervalTable to perform a create operation.

OFF

- MIB: Use the table hh3cAcIIntervalTable to perform a destroy operation.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.3.6.1.5 (hh3cFilter2ApplyAcIIndex)	ACL index.	Yes	OCTET STRING	SIZE (1 to 63)
1.3.6.1.4.1.25506.2.8.3.8.1.1 (hh3cFilter2AcIRuleIndex)	ACL rule index.	Yes	Integer32	0 to 65534
1.3.6.1.4.1.25506.2.8.4.9	Interface name.	Yes	OCTET STRING	SIZE (0 to 255)

OID (object name)	Description	Index	Type	Value range
(hh3cAclPacketIfName)				
1.3.6.1.4.1.25506.2.8.4.10 (hh3cAclPacketDirection)	Application direction.	Yes	INTEGER	<ul style="list-style-type: none"> inbound(1) outbound(2)
1.3.6.1.4.1.25506.2.8.4.11 (hh3cAclPacketBAGG)	Aggregation group ID.	No	Integer32	0 to 2048
1.3.6.1.4.1.25506.2.8.4.12 (hh3cAclPacketVlanID)	VLAN ID	No	Integer32	0 to 4094
1.3.6.1.4.1.25506.2.8.4.23 (hh3cAclPacketSrcMacAddr)	Packet source MAC address.	No	MacAddress	OCTET STRING (SIZE (6))
1.3.6.1.4.1.25506.2.8.4.24 (hh3cAclPacketDstMacAddr)	Packet destination MAC address.	No	MacAddress	OCTET STRING (SIZE (6))
1.3.6.1.4.1.25506.2.8.4.25 (hh3cAclPacketMacTypeLen)	Link layer protocol type.	No	Integer32	0 to 65535
1.3.6.1.4.1.25506.2.8.4.26 (hh3cAclPacketVlanPCP)	VLAN priority.	No	Integer32	<ul style="list-style-type: none"> 0 to 7 255

Recommended action

No action is required.

hh3cAclResourceTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.8.7.0.1	TCAM resource usage notification.	Informational	-	-	OFF

Description

Notifications will be generated for violations of threshold set by hh3cAclMib2ResourceThreshold at intervals set by hh3cAclMib2ResourceLogInterval. The notification information includes the Ternary Content Addressable Memory (TCAM) resource usage for each card.

Status control

ON

- CLI: Use the commands:
 - `acl resource threshold percent percent`
 - `acl resource log interval interval`
- MIB: Set hh3cAclMib2ResourceThreshold to a value in the range of 1 to 100, and set hh3cAclMib2ResourceLogInterval to a value in the range of 1 to 60.

OFF

- CLI: Use the commands:
 - `undo acl resource threshold percent`
 - `undo acl log threshold interval`
- MIB: Set hh3cAclMib2ResourceThreshold to 0, and set hh3cAclMib2ResourceLogInterval to 0.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.8.6.1 (hh3cAcIResourceTypeName)	Resource type.	No	OCTET STRING	SIZE (1 to 255)
1.3.6.1.4.1.25506.2.8.6.2 (hh3cAcIResourceUsage)	Resource usage.	No	Integer32	0 to 100
1.3.6.1.4.1.25506.2.8.6.3 (hh3cAcIResourceUsedEntries)	Number of used resources.	No	Integer32	-
1.3.6.1.4.1.25506.2.8.6.4 (hh3cAcIResourceTotalEntries)	Total number of resources.	No	INTEGER	-
1.3.6.1.4.1.25506.2.8.2.1.1.5 (hh3cAcIMib2ResourceThreshold)	Resource usage alarm threshold.	No	Integer32	0 to 100
1.3.6.1.4.1.25506.2.8.6.5 (hh3cAcIResourceChassisID)	Chassis number.	Yes	Integer32	-
1.3.6.1.4.1.25506.2.8.6.6 (hh3cAcIResourceSlotID)	Slot number.	Yes	Integer32	-

Recommended action

No action is required.

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HH3C-CBQOS2-MIB

About this MIB

Use this MIB to configure class-based QoS (CBQoS).

CBQoS applies different service quality levels to different classes of packets, enabling multiple service support on the network.

MIB file name

hh3c-cbqos2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cQos2(65)

Scalar objects

h3cCBQoSClassifierIndexNext

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSClassifierIndexNext (1.3.6.1.4.1.25506.2.65.2.1.1.1)	read-only	Integer32	Standard MIB values.	Index of the next available traffic class.	As per the MIB.

h3cCBQoSBehaviorIndexNext

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSBehaviorIndexNext (1.3.6.1.4.1.25506.2.65.2.1.2.1)	read-only	Integer32	Standard MIB values.	Index of the next available traffic behavior.	As per the MIB.

h3cCBQoSPolicyIndexNext

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPolicyIndexNext (1.3.6.1.4.1.25506.2.65.2.1.3.1)	read-only	Integer32	Standard MIB values.	Index of the next available QoS policy.	As per the MIB.

h3cCBQoSApplyingStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSApplyingStatus (1.3.6.1.4.1.25506.2.65.2.1.6.1)	read-only	INTEGER	<ul style="list-style-type: none">idle(1)busy(2)	QoS policy application status.	As per the MIB.

Tabular objects

hh3cCBQoSClassifierCfgInfoTable

About this table

This table configures a traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSClassifierIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSClassifierIndex (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.1)	not-accessible	Integer32	Standard MIB values.	Traffic class index.	As per the MIB.
hh3cCBQoSClassifierName (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.2)	read-create	OCTET STRING	SIZE (1..31)	Traffic class name.	As per the MIB.
hh3cCBQoSClassifierRuleCount (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.3)	read-only	Integer32	Standard MIB values.	Number of match criteria.	As per the MIB.
hh3cCBQoSClassifierOperator (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.4)	read-create	INTEGER	<ul style="list-style-type: none">and(1)or(2)	Relationship among match criteria.	As per the MIB.
hh3cCBQoSClassifierLayer (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.5)	read-create	INTEGER	<ul style="list-style-type: none">unavailable(1)I2(2)I3(3)both(4)	Protocol layer for the traffic class.	This object is not configurable and is fixed at unavailable(1).
hh3cCBQoSClassifierType (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.6)	read-only	INTEGER	<ul style="list-style-type: none">systemDefined(1)userDefined(2)	Traffic class type.	Implementation varies by product.
hh3cCBQoSClassifierMatchRuleNextIndex	read-only	Integer32	Standard MIB values.	Index used to create a match	If the value is 2147483647, the a match criterion

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.2.1.1.2.1.7)				criterion.	cannot be created.
hh3cCBQoSClassifierRowStatus (1.3.6.1.4.1.25506.2.65.2.1.1.2.1.8)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)

hh3cCBQoSMatchRuleCfgInfoTable

About this table

This table configures match criteria for a traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSClassifierIndex and h3cCBQoSMatchRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMatchRuleIndex (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.1)	not-accessible	Integer32	Standard MIB values.	Match criterion index.	As per the MIB.
hh3cCBQoSMatchRuleIfNot (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.2)	read-create	INTEGER	<ul style="list-style-type: none"> • match(1) • notMatch (2) 	Match attribute.	Implementation varies by product.
hh3cCBQoSMatchRuleType (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.3)	read-create	MatchRuleType	Standard MIB values.	Match criterion type.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMatchRuleStringValue (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.4)	read-create	OCTET STRING	SIZE (1..255)	Match criterion type string value. The corresponding match criterion types include: <ul style="list-style-type: none"> • IPv4acl • MACACL • UserACL • IPv6acl • Source-MAC • Destination-MAC • Classifier • Inbound-interface • VlanID • SourceIp • MplsLabel • SecondMplsLabel 	As per the MIB.
hh3cCBQoSMatchRuleIntValue1 (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.5)	read-create	Unsigned32	Standard MIB values.	Match criterion type integer value. The corresponding match criterion types include: <ul style="list-style-type: none"> • IPv4acl • MACACL • UserACL • IPv6acl • Software QoS • Hardware QoS • RtpPort • IpPrec • Dscp • Vlan8021p • MplsExp • SourceIp • QoSLocalID • AtmClp • FrDe • LocalPrecedence • DropPriority • ServiceDot1p • SecondMplsExp • PacketLength • ForwardingLayer 	As per the MIB.
hh3cCBQoSMatchRuleIntValue2	read-create	Unsigned32	Standard MIB values.	Match criterion type integer value.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.2.1.1.3.1.6)				The corresponding match criterion types include: <ul style="list-style-type: none"> RTP-PORT DSCP PacketLength 	
hh3cCBQoSMatchhlpAddressType (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.7)	read-create	InetAddressType	Standard MIB values.	Match criterion type integer value. The corresponding match criterion type is SourceIP.	Not supported. The value is fixed at unknown(0).
hh3cCBQoSMatchhlpAddress (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.8)	read-create	InetAddress	Standard MIB values.	Match criterion type integer value. The corresponding integer value is a source IP address.	Not supported. The value is fixed at zero length.
hh3cCBQoSMatchhRuleRowStatus (1.3.6.1.4.1.25506.2.65.2.1.1.3.1.9)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSMatchCpProtoCfgTable

About this table

Use this MIB to configure a match criterion to match protocol traffic to a control plane.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSClassifierIndex and h3cCBQoSMatchRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMatchhCpProtoIfNot (1.3.6.1.4.1.25506.2.65.2.1.1.4.1.1)	read-create	INTEGER	<ul style="list-style-type: none"> match(1) matchNot(2) 	Match attribute.	Implementation varies by product.
hh3cCBQoSMatchhCpProtoValue (1.3.6.1.4.1.25506.2.65.2.1.1.4.1.2)	read-create	OCTET STRING	SIZE (0..255)	Control plane protocol.	Implementation varies by product.
hh3cCBQoSMatchhCpProtoRowStatus (1.3.6.1.4.1.25506.2.65.2.1.1.4.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSMatchCpGroupCfgTable

About this table

Use this MIB to configure a match criterion to match protocol group traffic to a control plane.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSClassifierIndex and h3cCBQoSMatchRuleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMatchCpGroupIfNot (1.3.6.1.4.1.25506.2.65.2.1.1.5.1.1)	read-create	INTEGER	<ul style="list-style-type: none">match(1)matchNot(2)	Match attribute.	Implementation varies by product.
hh3cCBQoSMatchCpGroupValue (1.3.6.1.4.1.25506.2.65.2.1.1.5.1.2)	read-create	INTEGER	<ul style="list-style-type: none">critical(1)important(2)management(3)normal(4)redirect(5)monitor(6)exception(7)	Control plane protocol group.	Implementation varies by product.
hh3cCBQoSMatchCpGroupRowStatus (1.3.6.1.4.1.25506.2.65.2.1.1.5.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">active(1)createAndGo(4)destroy(6)

hh3cCBQoSBehaviorCfgInfoTable

About this table

This table configures match criteria for a traffic behavior.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSBeha	not-accessible	Integer32	Standard MIB	Traffic behavior	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vh3cCBQoSBehav iorIndex (1.3.6.1.4.1.25506 .2.65.2.1.2.2.1.1)			values.	index.	
hh3cCBQoSBehav iorName (1.3.6.1.4.1.25506 .2.65.2.1.2.2.1.2)	read-create	OCTET STRING	SIZE (1..31)	Traffic behavior name.	As per the MIB.
hh3cCBQoSBehav iorType (1.3.6.1.4.1.25506 .2.65.2.1.2.2.1.3)	read-only	INTEGER	<ul style="list-style-type: none"> systemDefined (1) userDefined(2) 	Traffic behavior type.	Implementation varies by product.
hh3cCBQoSBehav iorRowStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.2.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSCarCfgInfoTable

About this table

This table configures a CAR action for a traffic behavior.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSCarCi r (1.3.6.1.4.1.25506 .2.65.2.1.2.3.1.1)	read-create	Unsigned32	Standard MIB values.	CIR.	Implementation varies by product.
hh3cCBQoSCarC bs (1.3.6.1.4.1.25506 .2.65.2.1.2.3.1.2)	read-create	Unsigned32	Standard MIB values.	CBS.	Implementation varies by product.
hh3cCBQoSCarE bs (1.3.6.1.4.1.25506 .2.65.2.1.2.3.1.3)	read-create	Unsigned32	Standard MIB values.	EBS.	Implementation varies by product.
hh3cCBQoSCarPi r (1.3.6.1.4.1.25506 .2.65.2.1.2.3.1.4)	read-create	Unsigned32	Standard MIB values.	PIR.	Implementation varies by product.
hh3cCBQoSCarP bs (1.3.6.1.4.1.25506 .2.65.2.1.2.3.1.5)	read-create	Unsigned32	Standard MIB values.	PBS.	Not supported. The value is fixed at 4294967295.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSCarGreenAction (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.6)	read-create	CarAction	Standard MIB values.	Action to take on green packets.	Implementation varies by product.
hh3cCBQoSCarGreenRemarkValue (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.7)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for green packets.	As per the MIB.
hh3cCBQoSCarYellowAction (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.8)	read-create	CarAction	Standard MIB values.	Action to take on yellow packets.	Implementation varies by product.
hh3cCBQoSCarYellowRemarkValue (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.9)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for yellow packets.	As per the MIB.
hh3cCBQoSCarRedAction (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.10)	read-create	CarAction	Standard MIB values.	<ul style="list-style-type: none"> For VRP: Action to take on packets exceeding the CIR. For 10G: Action to take on packets exceeding the PIR. 	Implementation varies by product.
hh3cCBQoSCarRedRemarkValue (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.11)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for red packets.	As per the MIB.
hh3cCBQoSCarPolicedPriorityMapType (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.12)	read-create	INTEGER	<ul style="list-style-type: none"> none (0) policed-service-map (1) local-precedence-dot1p-map (2) drop-precedence-map (3) 	Priority map type.	Not supported. The value is fixed at none(0).
hh3cCBQoSCarRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.3.1.13)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSGtsCfgInfoTable

About this table

This table contains GTS configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSGTsCir (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.1)	read-create	Unsigned32	Standard MIB values.	CIR.	Implementation varies by product.
hh3cCBQoSGTsCbs (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.2)	read-create	Unsigned32	Standard MIB values.	CBS.	Implementation varies by product.
hh3cCBQoSGTsEbs (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.3)	read-create	Unsigned32	Standard MIB values.	EBS.	Implementation varies by product.
hh3cCBQoSGTsQueueLength (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.4)	read-create	Integer32	1..1024	Queue length.	As per the MIB.
hh3cCBQoSGTsRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">• active(1)• createAndGo(4)• destroy(6)
hh3cCBQoSGTsPir (1.3.6.1.4.1.25506.2.65.2.1.2.5.1.6)	read-create	Unsigned32	Standard MIB values.	PIR.	Implementation varies by product.

hh3cCBQoSRemarkCfgInfoTable

About this table

This table contains marking configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSBehaviorIndex and h3cCBQoSRemarkType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSRemarkType (1.3.6.1.4.1.25506.2.65.2.1.2.6.1.1)	not-accessible	RemarkType	Standard MIB values.	Marking type.	Implementation varies by product.
hh3cCBQoSRemarkValue (1.3.6.1.4.1.25506.2.65.2.1.2.6.1.2)	read-create	Integer32	0..4095	Value to mark for green packets.	As per the MIB.
hh3cCBQoSRemarkRowStatus	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">• active(1)• createAndGo(

(1.3.6.1.4.1.25506.2.65.2.1.2.6.1.3)					4) • destroy(6)
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hh3cCBQoSQueueCfgInfoTable

About this table

This table contains queuing configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSQueueType (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.1)	read-create	QueueType	Standard MIB values.	Queuing type.	Implementation varies by product.
hh3cCBQoSQueueDropType (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.2)	read-create	INTEGER	<ul style="list-style-type: none"> unavailable(0) tail-drop(1) wred(2) 	Packet drop type.	Not supported.
hh3cCBQoSQueueLength (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.3)	read-create	Integer32	1..2147483647	Queue length.	Implementation varies by product.
hh3cCBQoSQueueBandwidthUnit (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.4)	read-create	QueueBandwidth Unit	Standard MIB values.	Bandwidth unit.	Implementation varies by product.
hh3cCBQoSQueueBandwidthValue (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.5)	read-create	Integer32	<ul style="list-style-type: none"> 1..100000000 2147483647 	Bandwidth value.	Implementation varies by product.
hh3cCBQoSQueueCbs (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.6)	read-create	Integer32	<ul style="list-style-type: none"> 32..1000000000 2147483647 	CBS.	Implementation varies by product.
hh3cCBQoSQueueQueueNumber (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.7)	read-create	INTEGER	<ul style="list-style-type: none"> unavailable(0) a16(16) a32(32) a64(64) a128(128) a256(256) a512(512) a1024(1024) a2048(2048) a4096(4096) 	Maximum number of queues.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSQueueCbsRatio (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.8)	read-create	Integer32	<ul style="list-style-type: none"> 25..500 2147483647 	Allowed burst ratio.	Implementation varies by product.
hh3cCBQoSQueueRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.7.1.9)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSFirewallCfgInfoTable

About this table

This table contains firewall configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSFirewallAction (1.3.6.1.4.1.25506.2.65.2.1.2.12.1.1)	read-create	INTEGER	<ul style="list-style-type: none"> permit(1) deny(2) 	Firewall behavior.	As per the MIB.
hh3cCBQoSFirewallRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.12.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3cCBQoSAccountCfgInfoTable

About this table

This table contains accounting configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSAccounting (1.3.6.1.4.1.25506.2.65.2.1.2.14.1.1)	read-create	INTEGER	<ul style="list-style-type: none"> true(1) false(2) 	Accounting.	Not supported. The value is fixed at true(1).
hh3cCBQoSAccountRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.14.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cCBQoSAccountingMode (1.3.6.1.4.1.25506.2.65.2.1.2.14.1.3)	read-create	INTEGER	<ul style="list-style-type: none"> auto(1) packet(2) byte(3) both(4) 	Accounting mode.	Implementation varies by product.

hh3cCBQoSRedirectCfgInfoTable

About this table

This table configures a redirecting action for a traffic behavior.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSRedirectType (1.3.6.1.4.1.25506.2.65.2.1.2.15.1.1)	read-create	INTEGER	<ul style="list-style-type: none"> cpu(1) interface(2) nextHop(3) 	Redirecting destination.	Implementation varies by product.
hh3cCBQoSRedirectIfIndex (1.3.6.1.4.1.25506.2.65.2.1.2.15.1.2)	read-create	Integer32	Standard MIB values.	Interface index.	As per the MIB.
hh3cCBQoSRedirectIpAddressType	read-create	InetAddressType	Standard MIB values.	Next-hop address type.	Not supported. The value is fixed at unknown(0).
hh3cCBQoSRedirectIpAddress1	read-create	InetAddress	Standard MIB values.	First next-hop address.	Not supported. The value is fixed at zero-length.
hh3cCBQoSRedirectIpAddress2	read-create	InetAddress	Standard MIB values.	Second next-hop address.	Not supported. The value is fixed at zero-length.
hh3cCBQoSRedirectRowStatus (1.3.6.1.4.1.25506)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.65.2.1.2.15.1.6)					4) • destroy(6)
hh3cCBQoSRedir ectIpv6Interface1	read-create	Integer32	Standard MIB values.	Outgoing interface for the first next-hop IPv6 address.	Not supported. The value is fixed at 0.
hh3cCBQoSRedir ectIpv6Interface2	read-create	Integer32	Standard MIB values.	Outgoing interface for the second next-hop IPv6 address.	Not supported. The value is fixed at 0.
hh3cCBQoSRedir ectIfVlanID (1.3.6.1.4.1.25506 .2.65.2.1.2.15.1.9)	read-create	Integer32	0..4094 65535	VLAN ID.	Implementation varies by product.

hh3cCBQoSMirrorCfgInfoTable

About this table

This table contains flow mirroring configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMirror Type (1.3.6.1.4.1.25506 .2.65.2.1.2.17.1.1)	read-create	INTEGER	<ul style="list-style-type: none"> interface(1) cpu(2) vlan(3) 	Mirroring destination.	Implementation varies by product.
hh3cCBQoSMirror IfIndex (1.3.6.1.4.1.25506 .2.65.2.1.2.17.1.2)	read-create	OCTET STRING	SIZE (1..255)	Destination interface index.	Not supported. The value is fixed at zero-length.
hh3cCBQoSMirror VlanID (1.3.6.1.4.1.25506 .2.65.2.1.2.17.1.3)	read-create	Integer32	0..4094	Destination VLAN ID.	Implementation varies by product.
hh3cCBQoSMirror RowStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.17.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSNEstCfgInfoTable

About this table

This table configures nesting for VLAN mapping.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSNEstServiceVlanID (1.3.6.1.4.1.25506.2.65.2.1.2.18.1.1)	read-create	Integer32	<ul style="list-style-type: none">1..409465535	Service provider VLAN ID.	As per the MIB.
hh3cCBQoSNEstServiceDot1pValue (1.3.6.1.4.1.25506.2.65.2.1.2.18.1.2)	read-create	Integer32	<ul style="list-style-type: none">0..765535	Outer 802.1p priority value.	Implementation varies by product.
hh3cCBQoSNEstCustomerVlanID	read-create	Integer32	<ul style="list-style-type: none">1..409465535	Customer VLAN ID.	Not supported. The value is fixed at 65535.
hh3cCBQoSNEstCustomerDot1pValue	read-create	Integer32	<ul style="list-style-type: none">0..765535	Inner 802.1p priority value.	Not supported. The value is fixed at 65535.
hh3cCBQoSNEstRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.18.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">active(1)createAndGo(4)destroy(6)

hh3cCBQoSNEstPolicyCfgInfoTable

About this table

This table nests a QoS policy.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSNEst	read-create	OCTET STRING	SIZE (1..31)	Nested policy	As per the MIB.

PolicyName (1.3.6.1.4.1.25506 .2.65.2.1.2.19.1.1)				name.	
hh3cCBQoSRowStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.19.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)

hh3cCBQoSMirrorIfCfgInfoTable

About this table

This table contains information about flow mirroring to an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSMirrorIfMainIfIndex (1.3.6.1.4.1.25506 .2.65.2.1.2.20.1.1)	not-accessible	Integer32	Standard MIB values.	Destination interface index.	As per the MIB.
hh3cCBQoSMirrorIfMainIfStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.20.1.2)	read-only	INTEGER	<ul style="list-style-type: none"> • inactive(1) • active(2) 	Destination interface status.	As per the MIB.
hh3cCBQoSMirrorIfBackupIfIndex (1.3.6.1.4.1.25506 .2.65.2.1.2.20.1.3)	read-create	Integer32	Standard MIB values.	Backup destination interface index.	Implementation varies by product.
hh3cCBQoSMirrorIfBackupIfStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.20.1.4)	read-only	INTEGER	<ul style="list-style-type: none"> • inactive(1) • active(2) 	Backup destination interface status.	As per the MIB.
hh3cCBQoSMirrorIfRowStatus (1.3.6.1.4.1.25506 .2.65.2.1.2.20.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)

hh3cCBQoSColoredRemarkCfgTable

About this table

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSBehaviorIndex, h3cCBQoSColoredRemarkType, and h3cCBQoSColoredRemarkColor.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSColor edRemarkType (1.3.6.1.4.1.25506 .2.65.2.1.2.21.1.1)	not-accessible	RemarkType	Standard MIB values.	Marking type.	Implementation varies by product.
hh3cCBQoSColor edRemarkColor (1.3.6.1.4.1.25506 .2.65.2.1.2.21.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none"> green(1) yellow(2) red(3) 	Marking color.	Implementation varies by product.
hh3cCBQoSColor edRemarkValue (1.3.6.1.4.1.25506 .2.65.2.1.2.21.1.3)	read-create	Integer32	0..4095	Value to mark for packets.	As per the MIB.
hh3cCBQoSColor edRemarkRowSta tus (1.3.6.1.4.1.25506 .2.65.2.1.2.21.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSPrimapCfgInfoTable

About this table

This table contains information about predefined priority maps. The system modifies the priority of matching packets according to the predefined priority map.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPrima pColorType (1.3.6.1.4.1.25506 .2.65.2.1.2.22.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> noColorMap(1) colorMap(2) 	Predefined priority map color attribute.	Implementation varies by product.
h3cCBQoSPrePri MapTableType(1. 3.6.1.4.1.25506.2. 65.2.1.2.22.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none"> invalid(0) dot1pToLp(1) dot1pToDp(2) expToLp(3) dscpToLp(4) expToDp(5) dscpToDp(6) dscpToDot1p(Predefined priority map type.	Implementation varies by product.

			<ul style="list-style-type: none"> 7) • dot1pToDscp(8) • dscpToDscp(9) • dscpToExp(10) • expToDscp(11) • expToDot1p(12) • expToExp(13) • lpToDot1p(14) • dot1pToRpr(15) • dscpToRpr(16) • expToRpr(17) • ippToRpr(18) • upToDot1p(19) • upToDscp(20) • upToExp(21) • upToDp(22) • upToLp(23) • upToRpr(24) • upToFc(25) • lpToDscp(26) • dot11eToLp(27) • lpToDot11e(28) • lpToLp(29) • dot1pToExp(30) • lpToExp(31) • lpToDp(32) • upToUp(33) • dot1pToDot1p(34) 		
hh3cCBQoSPrimapRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.22.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)

hh3cCBQoSColorMapDpCfgInfoTable

About this table

This table contains information about packet color-to-drop priority mappings. The system assigns drop priority to packets according to the packet color.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSColorMapDpEnable (1.3.6.1.4.1.25506.2.65.2.1.2.23.1.1)	read-create	INTEGER	<ul style="list-style-type: none">true(1)false(2)	Color-to-drop priority mapping enable status.	As per the MIB.
hh3cCBQoSColorMapDpRowStatus (1.3.6.1.4.1.25506.2.65.2.1.2.23.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">active(1)createAndGo(4)destroy(6)

hh3cCBQoSPolicyCfgInfoTable

About this table

This table configures a QoS policy.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cCBQoSBehaviorIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPolicyIndex (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.1)	not-accessible	Integer32	Standard MIB values.	Policy index.	As per the MIB.
hh3cCBQoSPolicyName (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.2)	read-create	OCTET STRING	SIZE (1..31)	Policy name.	As per the MIB.
hh3cCBQoSPolicyClassCount (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.3)	read-only	Integer32	Standard MIB values.	Number of traffic classes in the QoS policy.	As per the MIB.
hh3cCBQoSPolicyConfigMode (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.4)	read-create	INTEGER	<ul style="list-style-type: none">unavailable(0)config(1)auto(2)	Policy mode.	Not supported. The value is fixed at unavailable(0).
hh3cCBQoSPolicyType (1.3.6.1.4.1.25506)	read-only	INTEGER	<ul style="list-style-type: none">systemDefined(1)	Policy type.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.65.2.1.3.2.1.5)			<ul style="list-style-type: none"> userDefined(2) 		
hh3cCBQoSPPolicyClassNextIndex (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.6)	read-only	Integer32	Standard MIB values.	Traffic class index used to create a traffic class.	If the value is 2147483647, no traffic class can be created for hh3cCBQoSPPolicyClassCfInfoTable.
hh3cCBQoSPPolicyRowStatus (1.3.6.1.4.1.25506.2.65.2.1.3.2.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSPPolicyClassCfInfoTable

About this table

This table describes CB association information for a QoS policy.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSPPolicyIndex and h3cCBQoSPPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPPolicyClassIndex (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.1)	not-accessible	Integer32	Standard MIB values.	Traffic class index.	As per the MIB.
hh3cCBQoSPPolicyClassClassifierIndex (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.2)	read-create	Integer32	Standard MIB values.	Traffic class index.	As per the MIB.
hh3cCBQoSPPolicyClassClassifierName (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.3)	read-only	OCTET STRING	SIZE (1..31)	Traffic class name.	As per the MIB.
hh3cCBQoSPPolicyClassBehaviorIndex (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.4)	read-create	Integer32	Standard MIB values.	Traffic behavior index.	As per the MIB.
hh3cCBQoSPPolicyClassBehaviorName (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.5)	read-only	OCTET STRING	SIZE (1..31)	Traffic behavior name.	As per the MIB.
hh3cCBQoSPPolicyClassPrecedence (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.6)	read-create	Integer32	<ul style="list-style-type: none"> 0..16383 2147483647 	Traffic class priority.	Not supported. The value is fixed at 2147483647.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPolicyClassRowStatus (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4) • destroy(6)
hh3cCBQoSPolicyClassMode (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.8)	read-create	INTEGER	<ul style="list-style-type: none"> • modeNo(1) • modeDot1q(2) • modeQppb(3) • modeIpSourceGuard(4) • modeVoiceVlan(5) • modeDcbx(6) 	CB association mode.	
hh3cCBQoSPolicyClassCfgOrder (1.3.6.1.4.1.25506.2.65.2.1.3.3.1.9)	read-only	Integer32	Standard MIB values.	CB association configuration order.	Not supported

hh3cCBQoSIfApplyPolicyTable

About this table

.This table applies a QoS policy to an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSIfApplyPolicyIfIndex and h3cCBQoSIfApplyPolicyDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSIfApplyPolicyIfIndex (1.3.6.1.4.1.25506.2.65.2.1.4.1.1.1)	accessible-for-notification	Integer32	Standard MIB values.	Index of the interface to which a QoS policy is applied.	As per the MIB.
hh3cCBQoSIfApplyPolicyDirection (1.3.6.1.4.1.25506.2.65.2.1.4.1.1.2)	accessible-for-notification	DirectionType	Standard MIB values.	Application direction.	As per the MIB.
hh3cCBQoSIfApplyPolicyName (1.3.6.1.4.1.25506.2.65.2.1.4.1.1.3)	read-create	OCTET STRING	SIZE (1..31)	Policy name.	As per the MIB.
hh3cCBQoSIfApplyPolicyEnableDynamic (1.3.6.1.4.1.25506.2.65.2.1.4.1.1.4)	read-create	INTEGER	<ul style="list-style-type: none"> • unavailable(1) • true(2) • false(3) 	Dynamic QoS	Not supported. The value is fixed at unavailable(1).
hh3cCBQoSIfApplyPolicyRowStatus	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> • active(1) • createAndGo(4)

(1.3.6.1.4.1.25506.2.65.2.1.4.1.1.5)					4) • destroy(6)
hh3cCBQoSIfApplyPolicyStatus (1.3.6.1.4.1.25506.2.65.2.1.4.1.1.6)	read-only	INTEGER	<ul style="list-style-type: none"> processing (0) success (1) partialItemFailed (2) 	Application status.	As per the MIB.

hh3cCBQoSvlanApplyPolicyTable

About this table

This table applies a QoS policy to a VLAN interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cCBQoSvlanApplyPolicyVlanid and hh3cCBQoSvlanApplyPolicyDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSvlanApplyPolicyVlanid (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.1)	accessible-for-notify	Integer32	Standard MIB values.	VLAN ID.	As per the MIB.
hh3cCBQoSvlanApplyPolicyDirection (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.2)	accessible-for-notify	DirectionType	Standard MIB values.	Application direction.	As per the MIB.
hh3cCBQoSvlanApplyPolicyName (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.3)	read-create	OCTET STRING	SIZE (1..31)	Policy name.	As per the MIB.
hh3cCBQoSvlanApplyPriority (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.4)	read-create	Integer32	0..4095	Policy priority.	Not supported. The value is fixed at 0.
hh3cCBQoSvlanApplyPolicyRowStatus (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3cCBQoSvlanApplyPolicyStatus (1.3.6.1.4.1.25506.2.65.2.1.4.3.1.6)	read-create	INTEGER	<ul style="list-style-type: none"> processing (1) success (2) partialItemFailed (3) 	Application status.	As per the MIB.

hh3cCBQoSGlobalApplyTable

About this table

This table applies a QoS policy globally.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cCBQoSGlobalApplyDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSGlobalApplyDirection (1.3.6.1.4.1.25506.2.65.2.1.4.6.1.1)	not-accessible	DirectionType	Standard MIB values.	Application direction.	As per the MIB.
hh3cCBQoSGlobalApplyName (1.3.6.1.4.1.25506.2.65.2.1.4.6.1.2)	read-create	OCTET STRING	SIZE (1..31)	Policy name.	As per the MIB.
hh3cCBQoSGlobalApplyRowStatus (1.3.6.1.4.1.25506.2.65.2.1.4.6.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">• active(1)• createAndGo(4)• destroy(6)
hh3cCBQoSGlobalApplyStatus (1.3.6.1.4.1.25506.2.65.2.1.4.6.1.4)	read-only	INTEGER	<ul style="list-style-type: none">• processing (1)• success (2)• partialItemFailed (3)	Application status.	As per the MIB.

hh3cCBQoS CpApplyPolicyTable

About this table

This table describes application information for a QoS policy applied to a control plane.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cCBQoS CpApplyPolicyChassis, hh3cCBQoS CpApplyPolicySlot, and hh3cCBQoS CpApplyPolicyDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoS CpApplyPolicyChassis (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number for the control plane.	As per the MIB.
hh3cCBQoS CpApplyPolicySlot (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number for the control plane.	As per the MIB.

hh3cCBQoSApplyPolicyDirection (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.3)	not-accessible	DirectionType	Standard MIB values.	Application direction.	As per the MIB.
hh3cCBQoSApplyPolicyName (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.4)	read-create	OCTET STRING	SIZE (1..31)	Policy name.	As per the MIB.
hh3cCBQoSApplyPolicyStatus (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.5)	read-only	INTEGER	<ul style="list-style-type: none"> processing (0) success (1) partialItemFailed (2) 	Application status.	As per the MIB.
hh3cCBQoSApplyRowStatus (1.3.6.1.4.1.25506.2.65.2.1.4.7.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cCBQoSApplyObjectTable

About this table

This table obtains the application entity information for a QoS policy.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cCBQoSApplyObjectIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSApplyObjectIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	Application entity index.	As per the MIB.
hh3cCBQoSApplyObjectType (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.2)	read-only	ApplyObjectType	Standard MIB values.	Application entity type.	<ul style="list-style-type: none"> interface(1) vlan(2) controlPlane(5)
hh3cCBQoSApplyObjectDirection (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.3)	read-only	DirectionType	Standard MIB values.	Application entity direction.	As per the MIB.
hh3cCBQoSApplyObjectMainSite (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.4)	read-only	Unsigned32	Standard MIB values.	Main index of the application entity.	As per the MIB.
hh3cCBQoSApplyObjectSubChannel (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.5)	read-only	Unsigned32	Standard MIB values.	Subchannel ID of the application entity.	As per the MIB.

.65.2.1.5.5.1.1.5)					
hh3cCBQoSApplyObjectSubClass (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.6)	read-only	Unsigned32	Standard MIB values.	Level-1 subclass number for level-2 nesting.	As per the MIB.
hh3cCBQoSApplyObjectSubClassSec (1.3.6.1.4.1.25506.2.65.2.1.5.5.1.1.7)	read-only	Unsigned32	Standard MIB values.	Level-2 subclass number for level-3 nesting.	As per the MIB.

hh3cCBQoSIntApplyObjectTable

About this table

This table obtains the application entity index for a QoS policy applied to an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cCBQoSIntApplyObjectIfIndex and h3cCBQoSApplyObjectDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSIntApplyObjectIfIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.2.1.1)	not-accessible	Unsigned32	Standard MIB values.	Index of the interface to which a QoS policy is applied.	As per the MIB.
hh3cCBQoSIntApplyObjectIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.2.1.2)	read-only	Unsigned32	Standard MIB values.	Application entity index.	As per the MIB.

hh3cCBQoSVlanApplyObjectTable

About this table

This table obtains the application entity index for a QoS policy applied to a VLAN or globally.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSVlanApplyObjectVlanID and h3cCBQoSApplyObjectDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSvlanApplyObjectVlanID (1.3.6.1.4.1.25506.2.65.2.1.5.5.3.1.1)	not-accessible	Unsigned32	0..4094	ID of the VLAN to which a QoS policy is applied.	When the value is 0, the QoS policy is applied globally.
hh3cCBQoSvlanApplyObjectIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.3.1.2)	read-only	Unsigned32	Standard MIB values.	Application entity index.	As per the MIB.

hh3cCBQoSNEstPolicyApplyObjectTable

About this table

This table obtains the application entity index for a child QoS policy.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSNEstPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSNEstPolicyClassIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.5.1.1)	not-accessible	Unsigned32	Standard MIB values.	Policy class index.	As per the MIB.
hh3cCBQoSNEstPolicyApplyObjectIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.5.1.2)	read-only	Unsigned32	Standard MIB values.	Application entity index.	As per the MIB.

hh3cCBQoS CpApplyObjectTable

About this table

This table obtains QoS policy application information for a control plane.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoS CpApplyObjectChassis, h3cCBQoS CpApplyObjectSlot, and h3cCBQoSApplyObjectDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoS CpAppl yObjectChassis (1.3.6.1.4.1.25506.2 .65.2.1.5.5.6.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number for the control plane.	As per the MIB.
hh3cCBQoS CpAppl yObjectSlot (1.3.6.1.4.1.25506.2 .65.2.1.5.5.6.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number for the control plane.	As per the MIB.
hh3cCBQoS CpAppl yObjectIndex (1.3.6.1.4.1.25506.2 .65.2.1.5.5.6.1.3)	read-only	Unsigned32	Standard MIB values.	Application entity index.	As per the MIB.

hh3cCBQoS CbqRunInfoTable

About this table

This table obtains CBQ queue statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is h3cCBQoS ApplyObjectIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoS CbqQu eueSize (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.1)	read-only	Integer32	Standard MIB values.	Current CBQ queue size.	As per the MIB.
hh3cCBQoS CbqDis card (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.2)	read-only	Counter64	Standard MIB values.	Number of packets dropped by the CBQ queue.	As per the MIB.
hh3cCBQoS CbqEf QueueSize (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.3)	read-only	Integer32	Standard MIB values.	EF queue size.	As per the MIB.
hh3cCBQoS CbqAf QueueSize (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.4)	read-only	Integer32	Standard MIB values.	AF queue size.	As per the MIB.
hh3cCBQoS CbqBe QueueSize (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.5)	read-only	Integer32	Standard MIB values.	BE queue size.	As per the MIB.
hh3cCBQoS CbqBe ActiveQueueNum (1.3.6.1.4.1.25506.2 .65.2.1.5.6.1.1.6)	read-only	Integer32	Standard MIB values.	Number of active BE queues.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSClassMaxActiveQueueNum (1.3.6.1.4.1.25506.2.65.2.1.5.6.1.1.7)	read-only	Integer32	Standard MIB values.	Maximum number of active BE queues that have existed.	As per the MIB.
hh3cCBQoSClassTotalQueueNum (1.3.6.1.4.1.25506.2.65.2.1.5.6.1.1.8)	read-only	Integer32	Standard MIB values.	Total number of BE queues.	As per the MIB.
hh3cCBQoSClassAllocatedQueueNum (1.3.6.1.4.1.25506.2.65.2.1.5.6.1.1.9)	read-only	Integer32	Standard MIB values.	Number of AF queues that have been allocated.	As per the MIB.

hh3cCBQoSClassMatchRunInfoTable

About this table

This table obtains matching statistics about a traffic class.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSClassMatchedPackets (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.1)	read-only	Counter64	Standard MIB values.	Number of matching packets.	As per the MIB.
hh3cCBQoSClassMatchedBytes (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.2)	read-only	Counter64	Standard MIB values.	Number of matching bytes.	As per the MIB.
hh3cCBQoSClassFwdPktps (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.3)	read-only	Unsigned32	Standard MIB values.	Number of packets sent per second during the last collection interval.	Not supported
hh3cCBQoSClassFwdPktbps (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.4)	read-only	Unsigned32	Standard MIB values.	Number of bits sent per second during the last collection interval.	Not supported
hh3cCBQoSClassDropPktps (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.5)	read-only	Unsigned32	Standard MIB values.	Number of packets dropped per second during the last collection interval.	Not supported
hh3cCBQoSClassDropPktbps (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.6)	read-only	Unsigned32	Standard MIB	Number of bits dropped per	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.6)			values.	second during the last collection interval.	
hh3cCBQoSClassFlowStatInterval (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.7)	read-only	Unsigned32	Standard MIB values.	Statistics collection interval.	Not supported
hh3cCBQoSClassBehaviorStatus (1.3.6.1.4.1.25506.2.65.2.1.5.6.2.1.8)	read-only	INTEGER	<ul style="list-style-type: none"> • success(1) • failure(2) • partialSuccess(3) 	CB association application status.	As per the MIB.

hh3cCBQoSCarRunInfoTable

About this table

This table obtains CAR statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSCarGreenPackets (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.1)	read-only	Counter64	Standard MIB values.	Number of packets matching the CAR configuration	As per the MIB.
hh3cCBQoSCarGreenBytes (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.2)	read-only	Counter64	Standard MIB values.	Number of bytes matching the CAR configuration	As per the MIB.
hh3cCBQoSCarRedPackets (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.3)	read-only	Counter64	Standard MIB values.	Number of red packets.	As per the MIB.
hh3cCBQoSCarRedBytes (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.4)	read-only	Counter64	Standard MIB values.	Number of red bytes.	As per the MIB.
hh3cCBQoSCarYellowPackets (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.5)	read-only	Counter64	Standard MIB values.	Number of yellow packets.	As per the MIB.
hh3cCBQoSCarYellowBytes (1.3.6.1.4.1.25506.2.65.2.1.5.6.3.1.6)	read-only	Counter64	Standard MIB values.	Number of yellow bytes.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSClass ssName (1.3.6.1.4.1.25506.2 .65.2.1.5.6.3.1.7)	read-only	OCTET STRING	SIZE (1..31)	Traffic class name.	As per the MIB.

hh3cCBQoSRemarkRunInfoTable

About this table

This table obtains marking statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSRemark edPackets (1.3.6.1.4.1.25506.2 .65.2.1.5.6.5.1.1)	read-only	Counter64	Standard MIB values.	Number of packets marked.	As per the MIB.

hh3cCBQoSQueueRunInfoTable

About this table

.This table obtains queue-related traffic statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSQueue MatchedPackets (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.1)	read-only	Counter64	Standard MIB values.	Number of packets matching a queue.	As per the MIB.
hh3cCBQoSQueue MatchedBytes (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.2)	read-only	Counter64	Standard MIB values.	Number of bytes matching the queue.	As per the MIB.

hh3cCBQoSQueue EnqueuedPackets (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.3)	read-only	Counter64	Standard MIB values.	Number of packets enqueued.	As per the MIB.
hh3cCBQoSQueue EnqueuedBytes (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.4)	read-only	Counter64	Standard MIB values.	Number of bytes enqueued.	As per the MIB.
hh3cCBQoSQueue DiscardedPackets (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.5)	read-only	Counter64	Standard MIB values.	Number of packets dropped by the queue.	As per the MIB.
hh3cCBQoSQueue DiscardedBytes (1.3.6.1.4.1.25506.2 .65.2.1.5.6.6.1.6)	read-only	Counter64	Standard MIB values.	Number of bytes dropped by the queue.	As per the MIB.

hh3cCBQoSAccountingRunInfoTable

About this table

This table obtains traffic statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSAccountingPackets (1.3.6.1.4.1.25506.2 .65.2.1.5.6.8.1.1)	read-only	Counter64	Standard MIB values.	Number of packets.	As per the MIB.
hh3cCBQoSAccountingBytes (1.3.6.1.4.1.25506.2 .65.2.1.5.6.8.1.2)	read-only	Counter64	Standard MIB values.	Number of bytes.	As per the MIB.
hh3cCBQoSAccountingPktps (1.3.6.1.4.1.25506.2 .65.2.1.5.6.8.1.3)	read-only	Counter64	Standard MIB values.	Traffic rate in pps.	As per the MIB.
hh3cCBQoSAccountingPktbps (1.3.6.1.4.1.25506.2 .65.2.1.5.6.8.1.4)	read-only	Counter64	Standard MIB values.	Traffic rate in bps.	As per the MIB.

hh3cCBQoSPolicyAccRunInfoTable

About this table

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are h3cCBQoSApplyObjectIndex and h3cCBQoSPolicyClassIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cCBQoSPolicyAccPackets	read-only	Counter64	Standard MIB values.	Number of packets.	As per the MIB.
hh3cCBQoSPolicyAccBytes	read-only	Counter64	Standard MIB values.	Number of bytes.	As per the MIB.

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HH3C-IFQOS2-MIB

About this MIB

Use this MIB to configure or obtain settings for the following modules:

- Hardware queuing.
- Software queuing.
- Rate limit.
- CAR.
- GTS.
- WRED.
- Port priority and priority trust mode.
- Priority map.

CAR includes aggregate CAR and three-color CAR. WRED includes table-based WRED and interface WRED.

WRED

WRED avoids global TCP synchronization by randomly dropping packets before a queue is full. WRED sets an upper threshold and lower threshold for each queue, and processes the packets in a queue as follows:

- When the queue size is shorter than the lower threshold, no packet is dropped.
- When the queue size reaches the upper threshold, all subsequent packets are dropped.
- When the queue size is between the lower threshold and the upper threshold, the received packets are dropped at random. The drop probability in a queue increases along with the queue size under the maximum drop probability.

WRED can discard packets based on the IP precedence, DSCP, or MPLS EXP value and selectively discard low-priority packets.

Through combining WRED with WFQ, the flow-based WRED can be realized.

WRED has the following types:

- Port-based WRED: Applies WRED to all packets on a port.
- Queue-based WRED: Applies WRED to only packets on WRED-enabled queues.
- Drop level-based WRED: Applies different WRED parameters to packets with different WRED parameters.
- ACL-based WRED: Applies different WRED parameters to packets matching different ACLs.
- 802.1p-based WRED: Applies different WRED parameters to packets with different 802.1p priorities.
- EXP-based WRED: Applies different WRED parameters to packets with different EXP priorities.
- ATM CLP-based WRED: Applies different WRED parameters to packets with different CLP priorities.
- DSCP-based WRED: Applies different WRED parameters to packets with different DSCP values.
- IP precedence-based WRED: Applies different WRED parameters to packets with different IP precedences.
- FR DE-based WRED: Applies different WRED parameters to packets with different DE bit settings.

ComwareV500R002 supports two WRED configuration approaches:

- **Interface configuration**—Configure WRED parameters on an interface or PVC and enable WRED.
- **WRED table configuration**—Configure a WRED table in system view and then apply the WRED table to an interface. A maximum number of 64 WRED tables is supported.

Aggregate CAR

Some switch models support aggregate CAR.

An aggregate CAR action is created globally. It can be directly applied to interfaces or used in the traffic behaviors associated with different traffic classes to police multiple traffic flows as a whole. The total rate of the traffic flows must conform to the traffic policing specifications set in the aggregate CAR action.

MIB file name

hh3c-ifqos2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).huawei(2011).h3c(10).h3cCommon(2).h3cQos2(65).h3clfQos2(1)

Tabular objects

hh3clfQoSModeTable

About this table

This table specifies the queuing mode. This table and hh3clfQoSWeightTable together configure the queuing settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSMode (1.3.6.1.4.1.25506 .2.65.1.1.1.1.1.1)	read-write	INTEGER	<ul style="list-style-type: none">sp(1)sp0(2)sp1(3)sp2(4)wrr(5)hwfq(6)wrr-sp(7)byteCountWrr(8)byteCountWfq(9)gmb(10)	Queuing mode.	Implementation varies by product.

hh3clfQoSWeightTable

About this table

This table configures attributes for non-SP queues. This table and h3clfQoSModeTable together configure the queuing settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3clfQoSQueueID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSQueueID (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.1)	not-accessible	Integer32	Standard MIB values.	Queue ID.	As per the MIB.
hh3clfQoSQueueGroupType (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.2)	read-write	INTEGER	<ul style="list-style-type: none"> group0(1) group1(2) group2(3) group3(4) group4(5) 	WRR group.	Implementation varies by product.
hh3clfQoSQueueType (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.3)	read-write	INTEGER	<ul style="list-style-type: none"> weight(1) byte-count(2) 	Queuing type.	As per the MIB.
hh3clfQoSQueueSchedulingWeight (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.4)	read-write	Integer32	Standard MIB values.	Scheduling weight.	As per the MIB.
hh3clfQoSQueueMaxDelay (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.5)	read-write	Integer32	Standard MIB values.	Maximum delay.	Not supported. The value is fixed at 9.
hh3clfQoSQueueMinBandwidth (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.6)	read-write	Integer32	Standard MIB values.	Minimum guaranteed bandwidth.	Implementation varies by product.
hh3clfQoSQueueMinBandwidthPercent (1.3.6.1.4.1.25506.2.65.1.1.1.2.1.7)	read-write	Unsigned32	<ul style="list-style-type: none"> 0..100 255 	Percentage of the minimum guaranteed bandwidth to the available bandwidth.	Implementation varies by product.

hh3clfQoSHardwareQueueRunInfoTable

About this table

This table contains queue-based traffic statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3clfQoSQueueID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSPassPackets (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.1)	read-only	Counter64	Standard MIB values.	Number of forwarded packets.	As per the MIB.
hh3clfQoSDropPackets (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.2)	read-only	Counter64	Standard MIB values.	Number of dropped packets.	As per the MIB.
hh3clfQoSPassBytes (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.3)	read-only	Counter64	Standard MIB values.	Number of forwarded bytes.	As per the MIB.
hh3clfQoSPassPPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.4)	read-only	Unsigned32	Standard MIB values.	Packet forwarding rate in packets per second.	As per the MIB.
hh3clfQoSPassBPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.5)	read-only	Unsigned32	Standard MIB values.	Packet forwarding rate in bytes per second.	As per the MIB.
hh3clfQoSDropBytes (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.6)	read-only	Counter64	Standard MIB values.	Number of dropped bytes.	As per the MIB.
hh3clfQoSQueueLengthInPkts (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.7)	read-only	Unsigned32	Standard MIB values.	Maximum queue length in packets.	As per the MIB.
hh3clfQoSQueueLengthInBytes (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.8)	read-only	Unsigned32	Standard MIB values.	Maximum queue length in bytes.	Not supported
hh3clfQoSCurQueuePkts (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.9)	read-only	Unsigned32	Standard MIB values.	Current queue length in packets.	Not supported
hh3clfQoSCurQueueBytes (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.10)	read-only	Unsigned32	Standard MIB values.	Current queue length in bytes.	Not supported
hh3clfQoSCurQueuePPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.11)	read-only	Unsigned32	Standard MIB values.	Number of packets enqueued per second.	Not supported
hh3clfQoSCurQueueBPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.12)	read-only	Unsigned32	Standard MIB values.	Number of bytes enqueued per second.	Not supported
hh3clfQoSTailDropPkts (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.13)	read-only	Counter64	Standard MIB values.	Number of packets dropped by tail drop.	Not supported
hh3clfQoSTailDropBytes	read-only	Counter64	Standard MIB values.	Number of bytes dropped by tail	Not supported

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.1.1.2.1.1.14)				drop.	
hh3clfQoSSTailDrop PPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.15)	read-only	Unsigned32	Standard MIB values.	Number of packets dropped per second by tail drop.	Not supported
hh3clfQoSSTailDrop BPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.16)	read-only	Unsigned32	Standard MIB values.	Number of bytes dropped per second by tail drop.	Not supported
hh3clfQoSWredDropPkts (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.17)	read-only	Counter64	Standard MIB values.	Number of packets dropped by WRED.	Not supported
hh3clfQoSWredDropBytes (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.18)	read-only	Counter64	Standard MIB values.	Number of bytes dropped by WRED.	Not supported
hh3clfQoSWredDropPPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.19)	read-only	Unsigned32	Standard MIB values.	Number of packets dropped per second by WRED.	Not supported
hh3clfQoSWredDropBPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.20)	read-only	Unsigned32	Standard MIB values.	Number of bytes dropped per second by WRED.	Not supported
hh3clfQoSPEakPassPPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.24)	read-only	Unsigned32	Standard MIB values.	Peak number of packets forwarded.	As per the MIB.
hh3clfQoSPEakPassBPS (1.3.6.1.4.1.25506.2.65.1.1.2.1.1.25)	read-only	Unsigned32	Standard MIB values.	Peak number of bytes forwarded.	As per the MIB.

hh3clfQoSHQueueTcpRunInfoTable

About this table

This table contains queue-based traffic statistics on TCP packets and non-TCP packets.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and h3clfQoSQueueID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSWredDropLPPreNTcpPkts	read-only	Counter64	Standard MIB values.	Number of low-priority	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.1.1.2.2.1.1)				non-TCP packets dropped by WRED.	
hh3clfQoSredDr opLPreNTcpBytes (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.2)	read-only	Counter64	Standard MIB values.	Number of low-priority non-TCP bytes dropped by WRED.	As per the MIB.
hh3clfQoSredDr opLPreNTcpPPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.3)	read-only	Unsigned32	Standard MIB values.	Number of low-priority non-TCP packets dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opLPreNTcpBPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.4)	read-only	Unsigned32	Standard MIB values.	Number of low-priority non-TCP bytes dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opLPreTcpPkts (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.5)	read-only	Counter64	Standard MIB values.	Number of low-priority TCP packets dropped by WRED.	As per the MIB.
hh3clfQoSredDr opLPreTcpBytes (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.6)	read-only	Counter64	Standard MIB values.	Number of low-priority TCP bytes dropped by WRED.	As per the MIB.
hh3clfQoSredDr opLPreTcpPPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.7)	read-only	Unsigned32	Standard MIB values.	Number of low-priority TCP packets dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opLPreTcpBPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.8)	read-only	Unsigned32	Standard MIB values.	Number of low-priority TCP bytes dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opHPreNTcpPkts (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.9)	read-only	Counter64	Standard MIB values.	Number of high-priority non-TCP packets dropped by WRED.	As per the MIB.
hh3clfQoSredDr opHPreNTcpBytes (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.10)	read-only	Counter64	Standard MIB values.	Number of high-priority non-TCP bytes dropped by WRED.	As per the MIB.
hh3clfQoSredDr opHPreNTcpPPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.11)	read-only	Unsigned32	Standard MIB values.	Number of high-priority non-TCP packets dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opHPreNTcpBPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.12)	read-only	Unsigned32	Standard MIB values.	Number of high-priority non-TCP bytes dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr	read-only	Counter64	Standard MIB	Number of	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
opHPPreTcpPkts (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.13)			values.	high-priority TCP packets dropped by WRED.	
hh3clfQoSredDr opHPPreTcpBytes (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.14)	read-only	Counter64	Standard MIB values.	Number of high-priority TCP bytes dropped by WRED.	As per the MIB.
hh3clfQoSredDr opHPPreTcpPPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.15)	read-only	Unsigned32	Standard MIB values.	Number of high-priority TCP packets dropped by WRED per second.	As per the MIB.
hh3clfQoSredDr opHPPreTcpBPS (1.3.6.1.4.1.25506.2.65.1.1.2.2.1.16)	read-only	Unsigned32	Standard MIB values.	Number of high-priority TCP bytes dropped by WRED per second.	As per the MIB.

hh3clfQoSLRConfigTable

About this table

This table configures the inbound or outbound rate limit on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and h3clfQoSLRDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSLRDirection (1.3.6.1.4.1.25506.2.65.1.3.1.1.1)	not-accessible	Direction	Standard MIB values.	Rate limit direction.	Implementation varies by product.
hh3clfQoSLRCir (1.3.6.1.4.1.25506.2.65.1.3.1.1.2)	read-create	Unsigned32	Standard MIB values.	CIR.	Implementation varies by product.
hh3clfQoSLRCbs (1.3.6.1.4.1.25506.2.65.1.3.1.1.3)	read-create	Unsigned32	Standard MIB values.	CBS.	Implementation varies by product.
hh3clfQoSLREbs (1.3.6.1.4.1.25506.2.65.1.3.1.1.4)	read-create	Unsigned32	Standard MIB values.	EBS.	Implementation varies by product.
hh3clfQoSRowStatus (1.3.6.1.4.1.25506.2.65.1.3.1.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3clfQoSLRPir (1.3.6.1.4.1.25506.2.65.1.3.1.1.6)	read-create	Unsigned32	Standard MIB	PIR.	Implementation

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.65.1.3.1.1.6)			values.		varies by product.
hh3clfQoSLRUnit (1.3.6.1.4.1.25506 .2.65.1.3.1.1.7)	read-create	INTEGER	<ul style="list-style-type: none"> unitAbsolute(1) unitPercent(2) 	Rate limit unit.	Implementation varies by product.

hh3clfQoSLRRunInfoTable

About this table

This table contains rate limit statistics on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex and hh3clfQoSLRDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSLRRunInfoPassedPackets (1.3.6.1.4.1.25506 .2.65.1.3.2.1.1)	read-only	Counter64	Standard MIB values.	Number of forwarded packets.	As per the MIB.
hh3clfQoSLRRunInfoPassedBytes (1.3.6.1.4.1.25506 .2.65.1.3.2.1.2)	read-only	Counter64	Standard MIB values.	Number of forwarded bytes.	As per the MIB.
hh3clfQoSLRRunInfoDelayedPackets (1.3.6.1.4.1.25506 .2.65.1.3.2.1.3)	read-only	Counter64	Standard MIB values.	Number of delayed packets.	As per the MIB.
hh3clfQoSLRRunInfoDelayedBytes (1.3.6.1.4.1.25506 .2.65.1.3.2.1.4)	read-only	Counter64	Standard MIB values.	Number of delayed bytes.	As per the MIB.
hh3clfQoSLRRunInfoActiveShaping (1.3.6.1.4.1.25506 .2.65.1.3.2.1.5)	read-only	INTEGER	<ul style="list-style-type: none"> active(1) inactive(2) 	Rate limit configuration status.	As per the MIB.

hh3clfQoSAggregateCarConfigTable

About this table

This table contains aggregate CAR configuration, which can police the traffic on multiple ports. Routers do not support aggregate CAR. Some switch models support aggregate CAR.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is h3clfQoSAggregateCarIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSAggregateCarIndex (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.1)	not-accessible	Integer32	1..65534	Aggregate CAR index.	As per the MIB.
h3clfQoSAggregateCarName (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.2)	read-create	OCTET STRING	SIZE (1..31)	Aggregate CAR name.	As per the MIB.
h3clfQoSAggregateCarCir (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.3)	read-create	Unsigned32	Standard MIB values.	CIR.	As per the MIB.
h3clfQoSAggregateCarCbs (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.4)	read-create	Unsigned32	Standard MIB values.	CBS.	Implementation varies by product.
h3clfQoSAggregateCarEbs (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.5)	read-create	Unsigned32	Standard MIB values.	EBS.	Implementation varies by product.
h3clfQoSAggregateCarPir (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.6)	read-create	Unsigned32	Standard MIB values.	PIR.	Implementation varies by product.
h3clfQoSAggregateCarGreenActionType (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.7)	read-create	Hh3clfCarAction	Standard MIB values.	Action to take on green packets.	Implementation varies by product.
h3clfQoSAggregateCarGreenActionValue (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.8)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for green packets.	Implementation varies by product.
h3clfQoSAggregateCarYellowActionType (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.9)	read-create	Hh3clfCarAction	Standard MIB values.	Action to take on yellow packets.	Implementation varies by product.
h3clfQoSAggregateCarYellowActionValue (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.10)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for yellow packets.	Implementation varies by product.
h3clfQoSAggregateCarRedActionType	read-create	Hh3clfCarAction	Standard MIB values.	Action to take on red packets.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.1.4.1.2.1.11)					
h3clfQoSAggregateCarRedActionValue (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.12)	read-create	Integer	<ul style="list-style-type: none"> 0..63 255 	Value to mark for red packets.	Implementation varies by product.
h3clfQoSAggregateCarType (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.13)	read-create	INTEGER	<ul style="list-style-type: none"> aggregative(1) NotAggregative(2) hierarchy(3) 	Aggregate CAR type.	Implementation varies by product.
h3clfQoSAggregateCarRowStatus (1.3.6.1.4.1.25506.2.65.1.4.1.2.1.14)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3clfQoSAggregateCarApplyTable

About this table

This table contains aggregate CAR application information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex, h3clfQoSAggregateCarApplyDirection, h3clfQoSAggregateCarApplyRuleType, and h3clfQoSAggregateCarApplyRuleValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSAggregateCarApplyDirection (1.3.6.1.4.1.25506.2.65.1.4.1.3.1.1)	not-accessible	Direction	Standard MIB values.	CAR direction.	Implementation varies by product.
hh3clfQoSAggregateCarApplyRuleType (1.3.6.1.4.1.25506.2.65.1.4.1.3.1.2)	read-create	INTEGER	<ul style="list-style-type: none"> ipv4acl(1) ipv6acl(2) carl(3) any(4) 	CAR type.	Implementation varies by product.
hh3clfQoSAggregateCarApplyRuleValue (1.3.6.1.4.1.25506.2.65.1.4.1.3.1.3)	read-create	Integer32	0..2147483647	CAR type value.	Implementation varies by product.
hh3clfQoSAggregateCarApplyCarIndex (1.3.6.1.4.1.25506.2.65.1.4.1.3.1.4)	read-create	Integer32	1..65534	Aggregate CAR index.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSAggregateCarApplyRowStatus (1.3.6.1.4.1.25506.2.65.1.4.1.3.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3clfQoSAggregateCarRunInfoTable

About this table

This table contains aggregate CAR statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is h3clfQoSAggregateCarIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3clfQoSAggregateCarGreenPackets (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.1)	read-only	Counter64	Standard MIB values.	Number of green packets.	Implementation varies by product.
h3clfQoSAggregateCarGreenBytes (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.2)	read-only	Counter64	Standard MIB values.	Number of green bytes.	Implementation varies by product.
h3clfQoSAggregateCarYellowPackets (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.3)	read-only	Counter64	Standard MIB values.	Number of yellow packets.	Implementation varies by product.
h3clfQoSAggregateCarYellowBytes (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.4)	read-only	Counter64	Standard MIB values.	Number of yellow bytes.	Implementation varies by product.
h3clfQoSAggregateCarRedPackets (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.5)	read-only	Counter64	Standard MIB values.	Number of red packets.	Implementation varies by product.
h3clfQoSAggregateCarRedBytes (1.3.6.1.4.1.25506.2.65.1.4.1.4.1.6)	read-only	Counter64	Standard MIB values.	Number of red bytes.	Implementation varies by product.

hh3clfQoSTricolorCarConfigTable

About this table

This table contains three-color CAR configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is h3clfQoSAggregativeCarIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSTricolorCarDirection (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.1)	not-accessible	Direction	Standard MIB values.	Aggregate CAR index.	Implementation varies by product.
hh3clfQoSTricolorCarType (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none">ipv4acl(1)ipv6acl(2)carl(3)any(4)	Aggregate CAR name.	Implementation varies by product.
hh3clfQoSTricolorCarValue (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.3)	not-accessible	Integer32	0..2147483647	CAR.	Implementation varies by product.
hh3clfQoSTricolorCarCir (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.4)	read-create	Unsigned32	Standard MIB values.	CIR.	Implementation varies by product.
hh3clfQoSTricolorCarCbs (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.5)	read-create	Unsigned32	Standard MIB values.	CBS.	Implementation varies by product.
hh3clfQoSTricolorCarEbs (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.6)	read-create	Unsigned32	Standard MIB values.	EBS.	Implementation varies by product.
hh3clfQoSTricolorCarPir (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.7)	read-create	Unsigned32	Standard MIB values.	PIR.	Implementation varies by product.
hh3clfQoSTricolorCarGreenActionType (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.8)	read-create	Hh3clfCarAction	Standard MIB values.	Action to take on green packets.	Implementation varies by product.
hh3clfQoSTricolorCarGreenActionValue (1.3.6.1.4.1.25506.2.65.1.4.2.1.1.9)	read-create	Integer32	<ul style="list-style-type: none">0..63255	Value to mark for green packets.	Implementation varies by product.
hh3clfQoSTricolorCarYellowActionType	read-create	Hh3clfCarAction	Standard MIB	Action to take on	Implementation

Object (OID)	Access	Syntax	Value range	Description	Implementation
ype (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.10)			values.	yellow packets.	varies by product.
hh3clfQoSTricolor CarYellowActionV alue (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.11)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for yellow packets.	Implementation varies by product.
hh3clfQoSTricolor CarRedActionTyp e (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.12)	read-create	Hh3clfCarAction	Standard MIB values.	Action to take on red packets.	Implementation varies by product.
hh3clfQoSTricolor CarRedActionValu e (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.13)	read-create	Integer32	<ul style="list-style-type: none"> 0..63 255 	Value to mark for red packets.	Implementation varies by product.
hh3clfQoSTricolor CarRowStatus (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.14)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.
hh3clfQoSTricolor CarUnitType (1.3.6.1.4.1.25506 .2.65.1.4.2.1.1.15)	read-create	INTEGER	<ul style="list-style-type: none"> unitAbsolute(1) unitPercent(2) 	Unit.	.Implementation varies by product.

hh3clfQoSTricolorCarRunInfoTable

About this table

This table contains three-color CAR statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3clfQoSTricolorCarDirection, hh3clfQoSTricolorCarType, and hh3clfQoSTricolorCarValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSTricolor CarGreenPackets (1.3.6.1.4.1.25506 .2.65.1.4.2.2.1.1)	read-only	Counter64	Standard MIB values.	Number of green packets.	Implementation varies by product.
hh3clfQoSTricolor CarGreenBytes (1.3.6.1.4.1.25506 .2.65.1.4.2.2.1.2)	read-only	Counter64	Standard MIB values.	Number of green bytes.	Implementation varies by product.
hh3clfQoSTricolor CarYellowPackets	read-only	Counter64	Standard MIB	Number of yellow	Implementation

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.1.4.2.2.1.3)			values.	packets.	varies by product.
hh3clfQoSSTricolorCarYellowBytes (1.3.6.1.4.1.25506.2.65.1.4.2.2.1.4)	read-only	Counter64	Standard MIB values.	Number of yellow bytes.	Implementation varies by product.
hh3clfQoSSTricolorCarRedPackets (1.3.6.1.4.1.25506.2.65.1.4.2.2.1.5)	read-only	Counter64	Standard MIB values.	Number of red packets.	Implementation varies by product.
hh3clfQoSSTricolorCarRedBytes (1.3.6.1.4.1.25506.2.65.1.4.2.2.1.6)	read-only	Counter64	Standard MIB values.	Number of red bytes.	Implementation varies by product.

hh3clfQoSGTSTConfigTable

About this table

This table contains GTS configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex, hh3clfQoSGTSTClassRuleType, and hh3clfQoSGTSTClassRuleValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSGTSTClassRuleType (1.3.6.1.4.1.25506.2.65.1.5.1.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> any(1) ipv4acl(2) ipv6acl(3) queue(4) 	GTS type.	Supports only queue(4).
hh3clfQoSGTSTClassRuleValue (1.3.6.1.4.1.25506.2.65.1.5.1.1.2)	not-accessible	Integer32	0..2147483647	GTS type value.	The value range is 0 to 7.
hh3clfQoSGTSTCIR (1.3.6.1.4.1.25506.2.65.1.5.1.1.3)	read-create	Unsigned32	Standard MIB values.	CIR.	<ul style="list-style-type: none"> The value range is 300 to 1000000 for GE interfaces. The value range is 300 to 10000000 for 10-GE interfaces. The value range is 300 to 40000000 for 40-GE interfaces. The value

Object (OID)	Access	Syntax	Value range	Description	Implementation
					range is 300 to 100000000 for 100-GE interfaces.
hh3clfQoSGTSCbs (1.3.6.1.4.1.25506.2.65.1.5.1.1.4)	read-create	Unsigned32	Standard MIB values.	CBS.	<ul style="list-style-type: none"> The value range is 4096 to 133169152 for GE interfaces. The value range is 4096 to 133169152 for 10-GE interfaces. The value range is 4096 to 535822336 for 40-GE interfaces. The value range is 4096 to 1341128704 for 100-GE interfaces.
hh3clfQoSGTSEbs (1.3.6.1.4.1.25506.2.65.1.5.1.1.5)	read-create	Unsigned32	Standard MIB values.	EBS in bytes.	Not supported.
hh3clfQoSGTSCQueueLength (1.3.6.1.4.1.25506.2.65.1.5.1.1.6)	read-create	Integer32	Standard MIB values.	Queue length.	Not supported.
hh3clfQoSGTSCConfigRowStatus (1.3.6.1.4.1.25506.2.65.1.5.1.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)
hh3clfQoSGTSPir (1.3.6.1.4.1.25506.2.65.1.5.1.1.8)	read-create	Unsigned32	Standard MIB values.	PIR.	Not supported.
hh3clfQoSGTSUnitType (1.3.6.1.4.1.25506.2.65.1.5.1.1.9)	read-create	INTEGER	<ul style="list-style-type: none"> unitAbsolute(1) unitPercent(2) 	GTS unit.	Supports only unitAbsolute(1).

hh3clfQoSGTSRunInfoTable

About this table

This table contains GTS statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3clfQoSGTSClassRuleType, and hh3clfQoSGTSClassRuleValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSGTSQueueSize (1.3.6.1.4.1.25506.2.65.1.5.2.1.1)	read-only	Integer32	Standard MIB values.	Current number of packets in the queue.	As per the MIB.
hh3clfQoSGTSPassdPackets (1.3.6.1.4.1.25506.2.65.1.5.2.1.2)	read-only	Counter64	Standard MIB values.	Number of forwarded packets.	As per the MIB.
hh3clfQoSGTSPassdBytes (1.3.6.1.4.1.25506.2.65.1.5.2.1.3)	read-only	Counter64	Standard MIB values.	Number of forwarded bytes.	As per the MIB.
hh3clfQoSGTSDiscardPackets (1.3.6.1.4.1.25506.2.65.1.5.2.1.4)	read-only	Counter64	Standard MIB values.	Number of dropped packets.	As per the MIB.
hh3clfQoSGTSDiscardBytes (1.3.6.1.4.1.25506.2.65.1.5.2.1.5)	read-only	Counter64	Standard MIB values.	Number of dropped bytes.	As per the MIB.
hh3clfQoSGTSDelayedPackets (1.3.6.1.4.1.25506.2.65.1.5.2.1.6)	read-only	Counter64	Standard MIB values.	Number of delayed packets.	As per the MIB.
hh3clfQoSGTSDelayedBytes (1.3.6.1.4.1.25506.2.65.1.5.2.1.7)	read-only	Counter64	Standard MIB values.	Number of delayed bytes.	As per the MIB.

hh3clfQoSWredGroupTable

About this table

This table creates a WRED table.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3clfQoSWredGroupIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSWredGroupIndex (1.3.6.1.4.1.25506.2.65.1.6.1.2.1.1)	not-accessible	Integer32	0..256	WRED table index.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSredGroup Name (1.3.6.1.4.1.25506 .2.65.1.6.1.2.1.2)	read-create	OCTET STRING	SIZE (1..32)	WRED table name.	As per the MIB.
hh3clfQoSredGroup Type (1.3.6.1.4.1.25506 .2.65.1.6.1.2.1.3)	read-create	INTEGER	<ul style="list-style-type: none"> • userdefined(0) • dot1p(1) • ippre(2) • dscp(3) • localpre(4) • atmclp(5) • frde(6) • exp(7) • queue(8) • dropLevel(9) 	WRED table type.	.Implementation varies by product.
hh3clfQoSredGroup WeightingCon stant (1.3.6.1.4.1.25506 .2.65.1.6.1.2.1.4)	read-create	Integer32	1..15	WRED exponent for average queue size calculation.	The default value is 9.
hh3clfQoSredGroup RowStatus (1.3.6.1.4.1.25506 .2.65.1.6.1.2.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3clfQoSredGroupContentTable

About this table

This table configures a WRED table.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are h3clfQoSredGroupIndex, h3clfQoSredGroupContentIndex, and h3clfQoSredGroupContentSubIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSredGroup ContentIndex (1.3.6.1.4.1.25506 .2.65.1.6.1.3.1.1)	not-accessible	Integer32	0..63	Second index.	Implementation varies by product.
hh3clfQoSredGroup ContentSubIn dex (1.3.6.1.4.1.25506 .2.65.1.6.1.3.1.2)	not-accessible	Integer32	0..63	Third index.	Implementation varies by product.
hh3clfQoSredLow Limit	read-create	Integer32	Standard MIB values.	Lower limit.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.65.1.6.1.3.1.3)					
hh3clfQoSredHighLimit (1.3.6.1.4.1.25506.2.65.1.6.1.3.1.4)	read-create	Integer32	Standard MIB values.	Higher limit.	Implementation varies by product.
hh3clfQoSredDiscardProb (1.3.6.1.4.1.25506.2.65.1.6.1.3.1.5)	read-create	Integer32	Standard MIB values.	Drop probability.	Implementation varies by product.
hh3clfQoSredGroupExponent (1.3.6.1.4.1.25506.2.65.1.6.1.3.1.6)	read-create	Integer32	0..15	WRED exponent for average queue size calculation.	The default value is 9.
hh3clfQoSredRowStatus (1.3.6.1.4.1.25506.2.65.1.6.1.3.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3clfQoSredGroupApplyIfTable

About this table

This table contains WRED table application information for an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSredGroupApplyIndex (1.3.6.1.4.1.25506.2.65.1.6.1.4.1.1)	read-create	Integer32	0..256	WRED table index.	As per the MIB.
hh3clfQoSredGroupApplyName (1.3.6.1.4.1.25506.2.65.1.6.1.4.1.2)	read-only	OCTET STRING	SIZE (1..32)	WRED table name.	As per the MIB.
hh3clfQoSredGroupIfRowStatus (1.3.6.1.4.1.25506.2.65.1.6.1.4.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	As per the MIB.

hh3clfQoSPortPriorityTable

About this table

This table contains the port priority. After the switch receives a packet, it performs priority mapping according to the configured priority trust mode. If no local precedence is successfully assigned or no packet priority is trusted, the switch uses the priority of the input interface as the local precedence or 802.1p priority for priority mapping. Routers do not support this table.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSPortPriorityValue (1.3.6.1.4.1.25506.2.65.1.7.1.1.1.1)	read-write	Integer32	0..7	Port priority.	Implementation varies by product.

hh3clfQoSPortPriorityTrustTable

About this table

This table contains the priority trust mode.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSPortPriorityTrustTrustType (1.3.6.1.4.1.25506.2.65.1.7.1.2.1.1)	read-write	INTEGER	<ul style="list-style-type: none">• untrust(1)• dot1p(2)• dscp(3)• exp(4)• ipPrecedence(5)• dot11e(6)• auto(7)	Priority trust mode.	Implementation varies by product.
hh3clfQoSPortPriorityTrustOvercastType (1.3.6.1.4.1.25506.2.65.1.7.1.2.1.2)	read-write	INTEGER	<ul style="list-style-type: none">• noOvercast(1)• overcastDSCP(2)• overcastCOS(3)	Overwrite mode.	Implementation varies by product.

			• overcast(4)		
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hh3clfQoSPrePriMapTable

About this table

This table configures a priority map.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3clfQoSPrePriMapTableType, hh3clfQoSPrePriMapTableColor, hh3clfQoSPrePriMapTableDirection, and hh3clfQoSPrePriMapTableImportValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSPrePriMapTableType (1.3.6.1.4.1.25506.2.65.1.9.1.4.1.1)	not-accessible	INTEGER	<ul style="list-style-type: none"> • dot1pToLp(1) • dot1pToDp(2) • expToLp(3) • dscpToLp(4) • expToDp(5) • dscpToDp(6) • dscpToDot1p(7) • dot1pToDscp(8) • dscpToDscp(9) • dscpToExp(10) • expToDscp(11) • expToDot1p(12) • expToExp(13) • lpToDot1p(14) • dot1pToRpr(15) • dscpToRpr(16) • expToRpr(17) • ippreToRpr(18) • upToDot1p(19) • upToDscp(20) • upToExp(21) • upToDp(22) • upToLp(23) • upToRpr(24) • upToFc(25) • lpTodscp(26) 	Priority map type.	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			<ul style="list-style-type: none"> • dot11eToLp(27) • lpToDot11e(28) • lpToLp(29) • dot1pToExp(30) • lpToExp(31) • lpToDp(32) • upToUp(33) • dot1pToDot1p(34) 		
hh3clfQoSPrePriMapTableColor (1.3.6.1.4.1.25506.2.65.1.9.1.4.1.2)	not-accessible	INTEGER	<ul style="list-style-type: none"> • nocolor(1) • green(2) • yellow(3) • red(4) 	Priority map color.	Implementation varies by product.
hh3clfQoSPrePriMapTableDirection (1.3.6.1.4.1.25506.2.65.1.9.1.4.1.3)	not-accessible	INTEGER	<ul style="list-style-type: none"> • nodirection(1) • inbound(2) • outbound(3) 	Priority map direction.	Implementation varies by product.
hh3clfQoSPrePriMapTableImportValue (1.3.6.1.4.1.25506.2.65.1.9.1.4.1.4)	not-accessible	Integer32	0..63	Input values of the priority map.	As per the MIB.
hh3clfQoSPrePriMapTableExportValue (1.3.6.1.4.1.25506.2.65.1.9.1.4.1.5)	read-write	Integer32	0..63	Output values of the priority map.	As per the MIB.

hh3cQoSRemarkTcpPortPriTable

About this table

This table contains TCP port-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cQoSRemarkTcpPortStart.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkTcpPortStart(1.3.6.1.4.1.25506.2.65.1.12.1.1.1)	not-accessible	Integer32	0..65535	Start port number of a TCP port range.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkTcpPortEnd (1.3.6.1.4.1.25506.2.65.1.12.1.1.2)	read-create	Integer32	0..65535	End port number of a TCP port range.	As per the MIB.
hh3cQoSRemarkTcpPortType (1.3.6.1.4.1.25506.2.65.1.12.1.1.3)	read-create	INTEGER	<ul style="list-style-type: none"> ipAll(1) ipv4(2) ipv6(3) 	IP type of matching packets.	As per the MIB.
hh3cQoSRemarkTcpPortDot1p (1.3.6.1.4.1.25506.2.65.1.12.1.1.4)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..7 255 	802.1p priority value of matching packets.	As per the MIB.
hh3cQoSRemarkTcpPortDscp (1.3.6.1.4.1.25506.2.65.1.12.1.1.5)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..63 255 	DSCP value of matching packets.	As per the MIB.
hh3cQoSRemarkTcpPortRowStatus (1.3.6.1.4.1.25506.2.65.1.12.1.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cQoSRemarkUdpPortPriTable

About this table

This table contains UDP port-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	

Columns

The table index is hh3cQoSRemarkUdpPortStart.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkUdpPortStart (1.3.6.1.4.1.25506.2.65.1.12.2.1.1)	not-accessible	Integer32	0..65535	Start port number of a UDP port range.	As per the MIB.
hh3cQoSRemarkUdpPortEnd (1.3.6.1.4.1.25506.2.65.1.12.2.1.2)	read-create	Integer32	0..65535	End port number of the UDP port range.	As per the MIB.
hh3cQoSRemarkUdpPortType (1.3.6.1.4.1.25506.2.65.1.12.2.1.3)	read-create	INTEGER	<ul style="list-style-type: none"> ipAll(1) ipv4(2) ipv6(3) 	IP type of matching packets.	As per the MIB.
hh3cQoSRemarkUdpPortDot1p (1.3.6.1.4.1.25506.2.65.1.12.2.1.4)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..7 255 	802.1p priority value of matching packets.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.65.1.12.2.1.4)					
hh3cQoSRemarkUdpPortDscp (1.3.6.1.4.1.25506.2.65.1.12.2.1.5)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..63 255 	DSCP value of matching packets.	As per the MIB.
hh3cQoSRemarkUdpPortRowStatus (1.3.6.1.4.1.25506.2.65.1.12.2.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cQoSRemarkIPv4AddrPriTable

About this table

This table contains IPv4 address-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cQoSRemarkIPv4AddrValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkIPv4AddrValue (1.3.6.1.4.1.25506.2.65.1.12.3.1.1)	not-accessible	IpAddress	Standard MIB values.	IPv4 address.	As per the MIB.
hh3cQoSRemarkIPv4AddrMask (1.3.6.1.4.1.25506.2.65.1.12.3.1.2)	read-create	IpAddress	Standard MIB values.	Mask for the IPv4 address.	As per the MIB.
hh3cQoSRemarkIPv4AddrMaskLength (1.3.6.1.4.1.25506.2.65.1.12.3.1.3)	read-create	Unsigned32	<ul style="list-style-type: none"> 1..32 4294967295 	Mask length for the IPv4 address	As per the MIB.
hh3cQoSRemarkIPv4AddrDot1p (1.3.6.1.4.1.25506.2.65.1.12.3.1.4)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..7 255 	802.1p priority value of matching packets.	As per the MIB.
hh3cQoSRemarkIPv4AddrDscp (1.3.6.1.4.1.25506.2.65.1.12.3.1.5)	read-create	Unsigned32	<ul style="list-style-type: none"> 0..63 255 	DSCP value of matching packets.	As per the MIB.
hh3cQoSRemarkIPv4AddrRowStatus (1.3.6.1.4.1.25506.2.65.1.12.3.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

hh3cQoSRemarkIPv6AddrPriTable

About this table

This table contains IPv6 address-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is h3cQoSRemarkIPv6AddrValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkIPv6AddrValue (1.3.6.1.4.1.25506.2.65.1.12.4.1.1)	not-accessible	InetAddressIPv6	Standard MIB values.	IPv6 address.	As per the MIB.
hh3cQoSRemarkIPv6AddrPrefixLength (1.3.6.1.4.1.25506.2.65.1.12.4.1.2)	read-create	InetAddressPrefixLength	Standard MIB values.	Prefix length for the IPv6 address.	As per the MIB.
hh3cQoSRemarkIPv6AddrDot1p (1.3.6.1.4.1.25506.2.65.1.12.4.1.3)	read-create	Unsigned32	<ul style="list-style-type: none">0..7255	802.1p priority value of matching packets.	As per the MIB.
hh3cQoSRemarkIPv6AddrDscp (1.3.6.1.4.1.25506.2.65.1.12.4.1.4)	read-create	Unsigned32	<ul style="list-style-type: none">0..63255	DSCP value of matching packets.	As per the MIB.
hh3cQoSRemarkIPv6AddrRowStatus (1.3.6.1.4.1.25506.2.65.1.12.4.1.5)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">active(1)createAndGo(4)destroy(6)

hh3cQoSRemarkProtocolPriTable

About this table

This table contains Layer 3 protocol-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cQoSRemarkProtocolValue.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkProtocolValue (1.3.6.1.4.1.25506.2.65.1.12.5.1.1)	not-accessible	Integer32	<ul style="list-style-type: none">ip(1)ipx(2)arp(3)appletalk(4)sna(5)netbeui(6)	Layer 3 protocol type.	As per the MIB.
hh3cQoSRemarkProtocolDot1p (1.3.6.1.4.1.25506.2.65.1.12.5.1.2)	read-create	Unsigned32	<ul style="list-style-type: none">0..7255	802.1p priority value of matching packets.	As per the MIB.
hh3cQoSRemarkProtocolRowStatus (1.3.6.1.4.1.25506.2.65.1.12.5.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">active(1)createAndGo(4)destroy(6)

hh3cQoSRemarkVlanPriTable

About this table

This table contains VLAN-based priority information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cQoSRemarkVlanStart.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSRemarkVlanStart (1.3.6.1.4.1.25506.2.65.1.12.6.1.1)	not-accessible	Integer32	1..4094	Start VLAN of a VLAN range.	As per the MIB.
hh3cQoSRemarkVlanEnd (1.3.6.1.4.1.25506.2.65.1.12.6.1.2)	read-create	Integer32	1..4094	End VLAN of the VLAN range.	As per the MIB.
hh3cQoSRemarkVlanDot1p (1.3.6.1.4.1.25506.2.65.1.12.6.1.3)	read-create	Unsigned32	<ul style="list-style-type: none">0..7255	802.1p priority value of matching packets.	As per the MIB.
hh3cQoSRemarkVlanDscp (1.3.6.1.4.1.25506.2.65.1.12.6.1.4)	read-create	Unsigned32	<ul style="list-style-type: none">0..63255	DSCP value of matching packets.	As per the MIB.
hh3cQoSRemarkVlanRowStatus	read-create	RowStatus	Standard MIB	Row status.	<ul style="list-style-type: none">active(1)

VlanRowStatus (1.3.6.1.4.1.25506 .2.65.1.12.6.1.6)			values.		<ul style="list-style-type: none"> • createAndGo(4) • destroy(6)
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hh3clfQoSFlowStatTable

About this table

This table contains protocol traffic statistics for a control plane.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3clfQoSFlowStatChassis, hh3clfQoSFlowStatSlot, and hh3clfQoSFlowStatProType.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clfQoSFlowStatChassis (1.3.6.1.4.1.25506 .2.65.1.14.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number for the control plane.	As per the MIB.
hh3clfQoSFlowStatSlot (1.3.6.1.4.1.25506 .2.65.1.14.1.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number for the control plane.	As per the MIB.
hh3clfQoSFlowStatProType (1.3.6.1.4.1.25506 .2.65.1.14.1.1.3)	not-accessible	Unsigned32	1..65	Protocol type.	As per the MIB.
hh3clfQoSFlowPassPackets (1.3.6.1.4.1.25506 .2.65.1.14.1.1.4)	read-only	Counter64	Standard MIB values.	Number of forwarded packets.	As per the MIB.
hh3clfQoSFlowPassBytes (1.3.6.1.4.1.25506 .2.65.1.14.1.1.5)	read-only	Counter64	Standard MIB values.	Number of forwarded bytes.	As per the MIB.
hh3clfQoSFlowDropPackets (1.3.6.1.4.1.25506 .2.65.1.14.1.1.6)	read-only	Counter64	Standard MIB values.	Number of dropped packets.	As per the MIB.
hh3clfQoSFlowDropBytes (1.3.6.1.4.1.25506 .2.65.1.14.1.1.7)	read-only	Counter64	Standard MIB values.	Number of dropped bytes.	As per the MIB.

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HH3C-QOS-CAPABILITY-MIB

About this MIB

Use this MIB to obtain QoS capabilities.

MIB file name

hh3c-qos-capability.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).h3c(10).h3cSNMPAgCpb(7).h3cQosCapability(1)

Tabular objects

hh3cQoSSysCapabilityTable

About this table

This table obtains global QoS feature values.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are h3cQoSSysCapModuleIndex and h3cQoSSysCapCharacteristicsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSSysCapModuleIndex (1.3.6.1.4.1.25506.7.1.1.1.2.1.1)	not-accessible	Integer32	1..2147483647	QoS module index.	As per the MIB.
hh3cQoSSysCapCharacteristicsIndex (1.3.6.1.4.1.25506.7.1.1.1.2.1.2)	not-accessible	Integer32	1..2147483647	QoS system feature index.	As per the MIB.
hh3cQoSSysCapCharacteristicsValue (1.3.6.1.4.1.25506.7.1.1.1.2.1.3)	read-only	Unsigned32	Standard MIB values.	QoS feature value.	As per the MIB.

hh3cQoSIfCapabilityTable

About this table

This table obtains interface QoS feature values.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are h3cQoSIfCapIfIndex, h3cQoSIfCapModuleIndex, and h3cQoSIfCapCharacteristicsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cQoSIfCapIfIndex (1.3.6.1.4.1.25506.7.1.1.1.3.1.1)	not-accessible	Integer32	0..2147483647	Interface index.	As per the MIB.
hh3cQoSIfCapModuleIndex (1.3.6.1.4.1.25506.7.1.1.1.3.1.2)	not-accessible	Integer32	0..2147483647	QoS module index.	As per the MIB.
hh3cQoSIfCapCharacteristicsIndex (1.3.6.1.4.1.25506.7.1.1.1.3.1.3)	not-accessible	Integer32	0..2147483647	QoS interface feature index.	As per the MIB.
hh3cQoSIfCapCharacteristicsValue (1.3.6.1.4.1.25506.7.1.1.1.3.1.4)	read-only	Unsigned32	Standard MIB values.	QoS feature value.	As per the MIB.

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HH3C-TRNG2-MIB

About this MIB

Use this MIB to configure a time range.

MIB file name

hh3c-trng2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTRNG2(121)

Tabular objects

hh3cTrangeCreateTimerangeTable

About this table

This table creates a time range.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cTrangeIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTrangeIndex (1.3.6.1.4.1.25506 .2.121.1.1.1.1)	not-accessible	Integer32	0..2147483647	Time range index.	The value range is 1 to 1024.
hh3cTrangeName (1.3.6.1.4.1.25506 .2.121.1.1.1.2)	read-create	OCTET STRING	1..32	Time range name.	As per the MIB.
hh3cTrangeValidF lag (1.3.6.1.4.1.25506 .2.121.1.1.1.3)	read-only	TruthValue	Standard MIB values.	Validity flag.	As per the MIB.
hh3cTrangeCreat eRowStatus (1.3.6.1.4.1.25506 .2.121.1.1.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none">• active(1)• createAndGo(4)• destroy(6)

hh3cTrangeAbsoluteTable

About this table

This table configures an absolute time range.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cTrangeAbsoluteNameIndex and hh3cTrangeAbsoluteSubIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTrangeAbsoluteNameIndex (1.3.6.1.4.1.25506.2.121.1.2.1.1)	not-accessible	Integer32	0..2147483647	Time range index.	The value range is 1 to 1024.
hh3cTrangeAbsoluteSubIndex (1.3.6.1.4.1.25506.2.121.1.2.1.2)	not-accessible	Integer32	1..12	Subitem index.	The value range is 1 to 12.
hh3cTrangeAbsoluteStartTime (1.3.6.1.4.1.25506.2.121.1.2.1.3)	read-create	DateAndTime	Standard values. MIB	Start date and time of the time range, in the format YYYY-MM-DD,hh:mm:0,0.	As per the MIB.
hh3cTrangeAbsoluteEndTime (1.3.6.1.4.1.25506.2.121.1.2.1.4)	read-create	DateAndTime	Standard values. MIB	End date and time of the time range, in the format YYYY-MM-DD,hh:mm:0,0.	As per the MIB.
hh3cTrangeAbsoluteRowStatus (1.3.6.1.4.1.25506.2.121.1.2.1.5)	read-create	RowStatus	Standard values. MIB	Row status.	<ul style="list-style-type: none">• active(1)• createAndGo(4)• destroy(6)

hh3cTrangePeriodicTable

About this table

This table configures a periodic time range.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cTrangePeriodicNameIndex and h3cTrangePeriodicSubIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTrangePeriodicNameIndex (1.3.6.1.4.1.25506.2.121.1.3.1.1)	not-accessible	Integer32	0..2147483647	Time range index.	The value range is 1 to 1024.
hh3cTrangePeriodicSubIndex (1.3.6.1.4.1.25506.2.121.1.3.1.2)	not-accessible	Integer32	1..32	Subitem index.	The value range is 1 to 32.
hh3cTrangePeriodicDayOfWeek (1.3.6.1.4.1.25506.2.121.1.3.1.3)	read-create	BITS	<ul style="list-style-type: none"> sunday(0) monday(1) tuesday(2) wednesday(3) thursday(4) friday(5) saturday(6) 	Day of the week.	As per the MIB.
hh3cTrangePeriodicStartTime (1.3.6.1.4.1.25506.2.121.1.3.1.4)	read-create	DateAndTime	Standard values. MIB	Start date and time of the time range, in the format hh:mm:0,0.	As per the MIB.
hh3cTrangePeriodicEndTime (1.3.6.1.4.1.25506.2.121.1.3.1.5)	read-create	DateAndTime	Standard values. MIB	End date and time of the time range, in the format hh:mm:0,0.	As per the MIB.
hh3cTrangePeriodicRowStatus (1.3.6.1.4.1.25506.2.121.1.3.1.6)	read-create	RowStatus	Standard values. MIB	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

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IEEE8021-CN-MIB

About this MIB

Use this MIB to configure QCN to control congestion on a CP, including CND settings and congestion detection settings

MIB file name

ieee8021-cn.mib

Root object

iso(1).org(3).oid_ieee(111).oid_standards-association-numbered-series-standards(2).oid_lan-man-stds(802).oid_ieee802dot1(1).oid_ieee802dot1mibs(1).ieee8021CnMib(18)

Tabular objects

ieee8021CnGlobalTable

About this table

This table configures global QCN settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ieee8021CnGlobalComponentId.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnGlobalComponentId (1.3.111.2.802.1.1.18.1.1.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	Component ID.	The value is fixed at 1.
ieee8021CnGlobalMasterEnable (1.3.111.2.802.1.1.18.1.1.1.2)	read-write	TruthValue	<ul style="list-style-type: none">true(1)false(2)	Global QCN state.	As per the MIB.
ieee8021CnGlobalCnmTransmitPriority (1.3.111.2.802.1.1.18.1.1.1.3)	read-write	IEEE8021PriorityValue	Standard MIB values.	Priority of outgoing CNMs.	Not supported..
ieee8021CnGlobalDiscardedFrames (1.3.111.2.802.1.1.18.1.1.1.4)	read-only	Counter64	Standard MIB values.	Number of frames discarded from full CP queues.	Not supported..

ieee8021CnErroredPortTable

About this table

This table obtains the index of the interface on which a CNPV is configured as an alternate priority.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ieee8021CnEpComponentId, ieee8021CnEpPriority, and ieee8021CnEpIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnEpComponentId (1.3.111.2.802.1.1.18.1.2.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	Component ID.	The value is fixed at 1.
ieee8021CnEpPriority (1.3.111.2.802.1.1.18.1.2.1.2)	not-accessible	IEEE8021PriorityValue	Standard MIB values.	Alternate priority.	As per the MIB.
ieee8021CnEpIfIndex (1.3.111.2.802.1.1.18.1.2.1.3)	read-only	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.

ieee8021CnCompntPriTable

About this table

This table configures global CND settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ieee8021CnComPriComponentId and ieee8021CnComPriPriority.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnComPriComponentId (1.3.111.2.802.1.1.18.1.3.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	Component ID.	The value is fixed at 1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnComPriPriority (1.3.111.2.802.1.1.18.1.3.1.2)	not-accessible	IEEE8021Priority Value	Standard MIB values.	802.1p priority.	As per the MIB.
ieee8021CnComPriDefModeChoice (1.3.111.2.802.1.1.18.1.3.1.3)	read-create	ieee8021CnControlChoice	Standard MIB values.	Defense mode choosing mode.	As per the MIB.
ieee8021CnComPriAlternatePriority (1.3.111.2.802.1.1.18.1.3.1.4)	read-create	IEEE8021Priority Value	Standard MIB values.	Alternate priority in Admin mode.	As per the MIB.
ieee8021CnComPriAutoAltPri (1.3.111.2.802.1.1.18.1.3.1.5)	read-only	IEEE8021Priority Value	Standard MIB values.	Alternate priority in Auto mode.	As per the MIB.
ieee8021CnComPriAdminDefenseMode (1.3.111.2.802.1.1.18.1.3.1.6)	read-create	ieee8021CnDefenseMode	Standard MIB values.	Defense mode in Admin mode.	As per the MIB.
ieee8021CnComPriCreation (1.3.111.2.802.1.1.18.1.3.1.7)	read-create	INTEGER	<ul style="list-style-type: none"> cncpAutoEnable(1) cncpAutoDisable(2) 	Creation method.	Not supported.
ieee8021CnComPriLldpInstanceChoice (1.3.111.2.802.1.1.18.1.3.1.8)	read-create	ieee8021CnLldpChoice	Standard MIB values.	LLDP instance choosing mode.	Not supported.
ieee8021CnComPriLldpInstanceSelector (1.3.111.2.802.1.1.18.1.3.1.9)	read-create	LldpV2DestAddressTableIndex	Standard MIB values.	LLDP instance index.	Not supported.
ieee8021CnComPriRowStatus (1.3.111.2.802.1.1.18.1.3.1.10)	read-create	RowStatus	Standard MIB values.	Row status.	<ul style="list-style-type: none"> active(1) createAndGo(4) destroy(6)

ieee8021CnPortPriTable

About this table

This table configures CND settings on an interface.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ieee8021CnPortPriComponentId, ieee8021CnPortPriority, and ieee8021CnPortPriIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnPortPriComponentId (1.3.111.2.802.1.1.18.1.4.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	Component ID.	The value is fixed at 1.
ieee8021CnPortPriority (1.3.111.2.802.1.1.18.1.4.1.2)	not-accessible	IEEE8021PriorityValue	Standard MIB values.	802.1p priority.	As per the MIB.
ieee8021CnPortPriIfIndex (1.3.111.2.802.1.1.18.1.4.1.3)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
ieee8021CnPortPriDefModeChoice (1.3.111.2.802.1.1.18.1.4.1.4)	read-write	ieee8021CnControlChoice	Standard MIB values.	Priority value choosing mode.	As per the MIB.
ieee8021CnPortPriAdminDefenseMode (1.3.111.2.802.1.1.18.1.4.1.5)	read-write	ieee8021CnDefenseMode	Standard MIB values.	Defense mode in Admin mode.	As per the MIB.
ieee8021CnPortPriAutoDefenseMode (1.3.111.2.802.1.1.18.1.4.1.6)	read-only	ieee8021CnDefenseMode	Standard MIB values.	Negotiated defense mode in Auto mode.	As per the MIB.
ieee8021CnPortPriLldpInstanceChoice (1.3.111.2.802.1.1.18.1.4.1.7)	read-write	ieee8021CnLldpChoice	Standard MIB values.	LLDP instance choosing mode.	Not supported.
ieee8021CnPortPriLldpInstanceSelector (1.3.111.2.802.1.1.18.1.4.1.8)	read-write	LldpV2DestAddressTableIndex	Standard MIB values.	Selected LLDP instance.	Not supported.
ieee8021CnPortPriAlternatePriority (1.3.111.2.802.1.1.18.1.4.1.9)	read-write	IEEE8021PriorityValue	Standard MIB values.	Alternate priority in Admin mode.	As per the MIB.

ieee8021CnCpTable

About this table

This table obtains congestion detection settings.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ieee8021CnCpComponentId, ieee8021CnCpIfIndex, and ieee8021CnCpIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnCpComponentId (1.3.111.2.802.1.1.18.1.5.1.1)	not-accessible	IEEE8021PbbComponentIdentifier	Standard MIB values.	Component ID.	The value is fixed at 1.
ieee8021CnCpIfIndex (1.3.111.2.802.1.1.18.1.5.1.2)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
ieee8021CnCpIndex (1.3.111.2.802.1.1.18.1.5.1.3)	not-accessible	Unsigned32	1..4096	CP index.	As per the MIB.
ieee8021CnCpPriority (1.3.111.2.802.1.1.18.1.5.1.4)	read-only	IEEE8021PriorityValue	Standard MIB values.	802.1p priority.	As per the MIB.
ieee8021CnCpMacAddress (1.3.111.2.802.1.1.18.1.5.1.5)	read-only	MacAddress	Standard MIB values.	Source MAC address of outgoing CNMs.	Not supported.
ieee8021CnCpIdentifier (1.3.111.2.802.1.1.18.1.5.1.6)	read-only	OCTET STRING	SIZE(8)	CPID in CNMs.	Not supported.
ieee8021CnCpQueueSizeSetPoint (1.3.111.2.802.1.1.18.1.5.1.7)	read-write	Unsigned32	100..4294967295	Desired queue length.	Supports only the read operation.
ieee8021CnCpFeedbackWeight (1.3.111.2.802.1.1.18.1.5.1.8)	read-write	Integer32	-10..10	Weight value.	Supports only the read operation.
ieee8021CnCpMinSampleBase (1.3.111.2.802.1.1.18.1.5.1.9)	read-write	Unsigned32	10000..4294967295	Minimum number of octets to enqueue in the CP's queue between transmissions of CNMs.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021CnCpDiscardedFrames (1.3.111.2.802.1.1.18.1.5.1.10)	read-only	Counter64	Standard MIB values.	Number of data frames discarded.	As per the MIB.
ieee8021CnCpTransmittedFrames (1.3.111.2.802.1.1.18.1.5.1.11)	read-only	Counter64	Standard MIB values.	Number of data frames passed on to the queue.	As per the MIB.
ieee8021CnCpTransmittedCnms (1.3.111.2.802.1.1.18.1.5.1.12)	read-only	Counter64	Standard MIB values.	Number of CNMs transmitted.	As per the MIB.
ieee8021CnCpMinHeaderOctets (1.3.111.2.802.1.1.18.1.5.1.13)	read-write	Unsigned32	0..64	Minimum number of octets to be returned in a CNM	Not supported.

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HH3C-TUNNEL-MIB

About this MIB

Use this MIB to configure and obtain tunnel settings for various encapsulation protocols.

MIB file name

hh3c-tunnel.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cTunnel (53)

Scalar objects

hh3cTunnelVxlanUdpPort

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelVxlanUdpPort (1.3.6.1.4.1.25506.2.53.1.1.8.1)	read-write	Integer32	Unsigned32(1..65535)	UDP port number for VXLAN tunnels.	As per the MIB.

hh3cTunnelVxlanDropWrongCksmPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelVxlanDropWrongCksmPkt (1.3.6.1.4.1.25506.2.53.1.1.8.2)	read-write	TruthValue	true(1), false(2)	Whether to drop the VXLAN packets with checksum errors.	As per the MIB.

hh3cTunnelVxlanDropVlanTagPkt

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelVxlanDropVlanTagPkt (1.3.6.1.4.1.25506.2.53.1.1.8.3)	read-write	TruthValue	true(1), false(2)	Whether to drop VXLAN packets with inner VLAN tags.	As per the MIB.

Tabular objects

hh3cTunnelEviTable

About this table

This table contains EVI tunnel configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cTunnelEviTunnNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelEviTunnNum (1.3.6.1.4.1.25506.2.53.1.1.4.1.1)	not-accessible	Integer32	1..2147483647	Tunnel number.	As per the MIB.
hh3cTunnelEviIndex (1.3.6.1.4.1.25506.2.53.1.1.4.1.2)	read-only	Integer32	(1..2147483647)	Tunnel interface index.	As per the MIB.
hh3cTunnelEviStatus (1.3.6.1.4.1.25506.2.53.1.1.4.1.3)	read-create	INTEGER	active(1), createAndGo(4), destroy(6)	Row status.	As per the MIB.
hh3cTunnelEviAddressType (1.3.6.1.4.1.25506.2.53.1.1.4.1.4)	read-create	INTEGER	ipv4(1), ipv6(2)	IP address type.	Only supports IPv4.
hh3cTunnelEviLocalAddr (1.3.6.1.4.1.25506.2.53.1.1.4.1.5)	read-create	InetAddress	OCTET STRING (0..255)	Address of the local end of the tunnel.	As per the MIB.
hh3cTunnelEviNetworkID (1.3.6.1.4.1.25506.2.53.1.1.4.1.6)	read-create	Integer32	Integer32 (0..16777215)	Network ID of the tunnel.	As per the MIB.
hh3cTunnelEviKeepaliveInterval ((1.3.6.1.4.1.25506.2.53.1.1.4.1.7)	read-create	Integer32	Integer32 (1..32767)	Keepalive interval of the tunnel.	As per the MIB.
hh3cTunnelEviKeepaliveTimes ((1.3.6.1.4.1.25506.2.53.1.1.4.1.8)	read-create	Integer32	Integer32(1..255)	Maximum number of consecutive keepalive failures that are allowed.	As per the MIB.

hh3cTunnelEviLinkTable

About this table

This table provides EVI-link interface information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cTunnelEviTunnNum and hh3cTunnelEviLinkNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelEviLinkNum (1.3.6.1.4.1.25506.2.53.1.1.5.1.1)	not-accessible	Integer32	Unsigned32(1..2147483647)	EVI-Link number.	As per the MIB.
hh3cTunnelEviLinkIfIndex (1.3.6.1.4.1.25506.2.53.1.1.5.1.2)	read-only	Integer32	Integer32(1..2147483647)	EVI-Link interface index.	As per the MIB.
hh3cTunnelEviLinkAddressType (1.3.6.1.4.1.25506.2.53.1.1.5.1.3)	read-only	Integer32	ipv4(1), ipv6(2)	IP address type.	As per the MIB.
hh3cTunnelEviLinkRemoteAddr (1.3.6.1.4.1.25506.2.53.1.1.5.1.4)	read-only	InetAddress	OCTET STRING (0..255)	Address of the remote end of the tunnel.	As per the MIB.

hh3cTunnelVxlanIfTable

About this table

This table contains VXLAN tunnel interface configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cTunnelVxlanIfTunnNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelVxlanIfTunnNum (1.3.6.1.4.1.25506.2.53.1.1.7.1.1)	not-accessible	INTEGER	INTEGER (1..2147483647)	Tunnel number.	As per the MIB.
hh3cTunnelVxlanIfTunnIfIndex (1.3.6.1.4.1.25506.2.53.1.1.7.1.2)	read-only	Integer32	Integer32(1..2147483647)	Tunnel interface index.	As per the MIB.
hh3cTunnelVxlanIfAddressType (1.3.6.1.4.1.25506.2.53.1.1.7.1.3)	read-create	INTEGER	ipv4(1), ipv6(2)	IP address type.	As per the MIB.
hh3cTunnelVxlanIfLocalAddr (1.3.6.1.4.1.25506.2.53.1.1.7.1.4)	read-create	OCTET STRING	OCTET STRING (0..255)	Address of the local end of the tunnel.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelVxlanIfRemoteAddr (1.3.6.1.4.1.25506.2.53.1.1.7.1.5)	read-create	OCTET STRING	OCTET STRING (0..255)	Address of the remote end of the tunnel.	As per the MIB.
hh3cTunnelVxlanIfStatus (1.3.6.1.4.1.25506.2.53.1.1.7.1.6)	read-create	INTEGER	active(1), createAndGo(4), destroy(6)	Row status.	As per the MIB.

hh3cTunnelTotalNumTable

About this table

Use this table to get the total number of tunnels of a specific tunnel mode.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is hh3cTunnelEncapsMethod.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelEncapsMethod (1.3.6.1.4.1.25506.2.53.1.1.10.1.1)	not-accessible	Hh3cTunnelType	Standard MIB values.	Tunnel mode (encapsulation method used by the tunnel).	As per the MIB.
hh3cTunnelTotalNum (1.3.6.1.4.1.25506.2.53.1.1.10.1.2)	read-only	Unsigned32	Standard MIB values.	Total number of tunnels of this tunnel mode.	As per the MIB.

hh3cTunnelNvgrelfTable

About this table

This table contains the NVGRE tunnel interface configuration.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cTunnelNvgrelfTunnNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelNvgrelfTunnNum (1.3.6.1.4.1.25506)	not-accessible	Integer32	Unsigned32(1..2147483647)	Tunnel number.	As per the MIB.

.2.53.1.1.11.1.1)					
hh3cTunnelNvgreTunnelIndex (1.3.6.1.4.1.25506.2.53.1.1.11.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Tunnel interface index.	As per the MIB.
hh3cTunnelNvgrelfAddressType (1.3.6.1.4.1.25506.2.53.1.1.11.1.3)	read-create	InetAddressType	ipv4(1), ipv6(2)	IP address type.	As per the MIB.
hh3cTunnelNvgrelfLocalAddr (1.3.6.1.4.1.25506.2.53.1.1.11.1.4)	read-create	InetAddressType	OCTET STRING (SIZE (0..255))	Address of the local end of the tunnel.	As per the MIB.
hh3cTunnelNvgrelfRemoteAddr (1.3.6.1.4.1.25506.2.53.1.1.11.1.5)	read-create	OCTET STRING	OCTET STRING (0..255)	Address of the remote end of the tunnel.	As per the MIB.
hh3cTunnelNvgrelfStatus (1.3.6.1.4.1.25506.2.53.1.1.11.1.6)	read-create	INTEGER	active(1), createAndGo(4), destroy(6)	Row status.	As per the MIB.

hh3cTunnelDestinationTable

About this table

This table contains tunnel destination address information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table indexes are hh3cTunnelDestinationDstAddr, hh3cTunnelDestinationDstType, and hh3cTunnelDestinationTunNum.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cTunnelDestinationDstAddr (1.3.6.1.4.1.25506.2.53.1.1.12.1)	not-accessible	OCTET STRING	(0..255)	Destination address of a tunnel.	As per the MIB.
hh3cTunnelDestinationDstAddrType (1.3.6.1.4.1.25506.2.53.1.1.12.2)	not-accessible	INTEGER	ipv4(1), ipv6(2)	Destination address type.	As per the MIB.
hh3cTunnelDestinationTunNum (1.3.6.1.4.1.25506.2.53.1.1.12.3)	not-accessible	Unsigned32	Unsigned32(1..2147483647)	Tunnel number.	The value range varies by product.
hh3cTunnelDestinationTunIndex (1.3.6.1.4.1.25506.2.53.1.1.12.4)	read-only	OCTET STRING	OCTET STRING (0..255)	Tunnel interface index.	As per the MIB.

.2.53.1.1.12.4)					
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HH3C-8021X-EXT2-MIB

About this MIB

Use this MIB to configure 802.1X parameters.

MIB file name

hh3c-8021x-ext2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3c8021XExt2(153)

Scalar objects

hh3c8021XExt2System

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3c8021XExt2A uthQuietPeriod (1.3.6.1.4.1.25506 .2.153.1.1.1)	read-write	Unsigned32	Unsigned32 (10..120)	Quiet time after authentication failure.	As per the MIB.
hh3c8021XExt2A uthTxPeriod (1.3.6.1.4.1.25506 .2.153.1.1.2)	read-write	Unsigned32	Unsigned32 (1..120)	Username request timeout time.	As per the MIB.
hh3c8021XExt2A uthSuppTimeout (1.3.6.1.4.1.25506 .2.153.1.1.3)	read-write	Unsigned32	Unsigned32 (1..120)	Client response timeout time.	As per the MIB.
hh3c8021XExt2A uthServerTimeout (1.3.6.1.4.1.25506 .2.153.1.1.4)	read-write	Unsigned32	Unsigned32 (100..300)	Server response timeout time.	As per the MIB.
hh3c8021XExt2A uthMaxReq (1.3.6.1.4.1.25506 .2.153.1.1.5)	read-write	Unsigned32	Unsigned32 (1..10)	Maximum number of attempts to send an authentication request to the same client.	As per the MIB.
hh3c8021XExt2A uthReAuthPeriod (1.3.6.1.4.1.25506 .2.153.1.1.6)	read-write	Unsigned32	Unsigned32 (60..86400)	Periodic reauthentication interval on the access device.	Value range: 60 to 86400.
hh3c8021XExt2A uthMethod (1.3.6.1.4.1.25506 .2.153.1.1.7)	read-write	INTEGER	chap(1), pap(2), eap(3)	EAP message handling method used by the access device.	As per the MIB.

Tabular objects

hh3c8021XExt2AuthConfigExtTable

About this table

Use this table to configure port-specific extended 802.1X features.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is dot1xPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3c8021XExt2PaePortAuthAdminStatus (1.3.6.1.4.1.25506.2.153.1.2.1.1.1)	read-write	TruthValue	true(1), false(2)	Whether 802.1X is enabled on a port.	As per the MIB.
hh3c8021XExt2PaePortControlledType (1.3.6.1.4.1.25506.2.153.1.2.1.1.2)	read-write	INTEGER	portbased(1), macbased(2)	Port access control method.	As per the MIB.
hh3c8021XExt2PaePortMaxUserNum (1.3.6.1.4.1.25506.2.153.1.2.1.1.3)	read-write	Unsigned32	Unsigned32 (1..4294967295)	Maximum number of concurrent users on the port.	As per the MIB.
hh3c8021XExt2PaePortUserNumNow (1.3.6.1.4.1.25506.2.153.1.2.1.1.4)	read-only	Unsigned32	Standard MIB values	Number of current online users on the port.	As per the MIB.
hh3c8021XExt2PaePortClearStatistics (1.3.6.1.4.1.25506.2.153.1.2.1.1.5)	read-write	INTEGER	noClear(0), clear(1)	Clears 802.1X statistics.	As per the MIB. You can set the value only to clear(1).
hh3c8021XExt2PaePortMcastTriggerStatus (1.3.6.1.4.1.25506.2.153.1.2.1.1.6)	read-write	TruthValue	true(1), false(2)	Whether to enable the multicast trigger.	As per the MIB.
hh3c8021XExt2PaePortHandshakeStatus (1.3.6.1.4.1.25506.2.153.1.2.1.1.7)	read-write	TruthValue	true(1), false(2)	Whether to send handshake packets.	As per the MIB.

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HH3C-DOMAIN-MIB

About this MIB

Use this MIB to manage domains.

MIB file name

hh3c-domain.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cDomain(46)

Scalar objects

hh3cDomainControl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDomainDefault (1.3.6.1.4.1.25506.2.46.1.1)	read-write	OCTET STRING	SIZE (1..255)	Name of the default domain.	Default: system. (Comware 5) Default: 24.

hh3cDomainGlobalStat

Object (OID)	Access	Syntax	Value range	Description	Implementation
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Tabular objects

hh3cDomainInfoTable

About this table

Use this table to configure or obtain ISP domain settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cDomainName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDomainName	read-only	OCTET STRING	SIZE (0..255)	Name of a domain.	String of 1 to 64 characters.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.46.2.1.1.1)					
hh3cDomainState (1.3.6.1.4.1.25506.2.46.2.1.1.2)	read-create	INTEGER	active(1) block(2)	Status of the domain.	As per the MIB.
hh3cDomainRowStatus (1.3.6.1.4.1.25506.2.46.2.1.1.14)	read-create	RowStatus	Standard MIB values.	Row status.	The following values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cDomainSchemeTable

About this table

This table contains AAA schemes for a domain. By default, a domain has only a local scheme.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cDomainName and hh3cDomainSchemeIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDomainSchemeIndex (1.3.6.1.4.1.25506.2.46.2.2.1.1)	not-accessible	Integer32	Standard MIB values.	Index of an AAA scheme.	As per the MIB.
hh3cDomainSchemeMode (1.3.6.1.4.1.25506.2.46.2.2.1.2)	read-create	H3cModeOfDomainScheme	INTEGER{ none(1) local(2) radius(3) tacacs(4) ldap(5) }	Mode of the AAA scheme.	As per the MIB.
hh3cDomainAuthSchemeName (1.3.6.1.4.1.25506.2.46.2.2.1.3)	read-create	OCTET STRING	OCTET STRING (SIZE (0..32))	Name of the authentication scheme.	This object has been replaced by hh3cDomainSchemeAAAName. Its value will be ignored.
hh3cDomainAcctSchemeName (1.3.6.1.4.1.25506.2.46.2.2.1.4)	read-create	OCTET STRING	OCTET STRING (SIZE (0..32))	Name of the accounting scheme.	This object has been replaced by hh3cDomainSchemeAAAName. Its value will be ignored.
hh3cDomainScheme	read-create	RowStatus	Standard MIB	Row status.	The following

Object (OID)	Access	Syntax	Value range	Description	Implementation
meRowStatus (1.3.6.1.4.1.25506.2.46.2.2.1.5)			values.		values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).
hh3cDomainSchemeAAAType (1.3.6.1.4.1.25506.2.46.2.2.1.6)	read-create	Hh3cAAATypeDomainScheme	INTEGER{ accounting(1) authentication(2) authorization(3) none(4) }	Service type of the server, accounting, authentication, or authorization.	As per the MIB.
hh3cDomainSchemeAAAName (1.3.6.1.4.1.25506.2.46.2.2.1.7)	read-create	OCTET STRING	OCTET STRING (SIZE (0..32))	Scheme name of the domain.	If the hh3cDomainSchemeMode is RADIUS, TACACS, or LDAP scheme mode, you must specify a valid scheme name. If the hh3cDomainSchemeMode is none or local, the object will be ignored. When read, this object returns a zero-length string.
hh3cDomainSchemeAccessMode (1.3.6.1.4.1.25506.2.46.2.2.1.8)	read-create	Hh3cAccessModeofDomainScheme	INTEGER{ default(1) login(2) lanAccess(3) portal(4) ppp(5) gcm(6) dvpn(7) dhcp(8) voice(9) superauthen(10) command(11) reserved(12) }	Access mode of the scheme for the domain.	Supports only the value default.

hh3cDomainStatTable

About this table

This table contains statistics for a domain.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cDomainName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDomainOnlineIpoEUser (1.3.6.1.4.1.25506.2.46.2.4.1.4)	read-only	Unsigned32	Standard MIB values.	Number of online IPoE users in the domain.	As per the MIB.
hh3cDomainOnlinePPPoEUser (1.3.6.1.4.1.25506.2.46.2.4.1.5)	read-only	Unsigned32	Standard MIB values.	Number of online PPPoE users in the domain.	As per the MIB.
hh3cDomainOnlinePPPoAUser (1.3.6.1.4.1.25506.2.46.2.4.1.6)	read-only	Unsigned32	Standard MIB values.	Number of online PPPoA users in the domain.	As per the MIB.
hh3cDomainOnlineLacUser (1.3.6.1.4.1.25506.2.46.2.4.1.8)	read-only	Unsigned32	Standard MIB values.	Number of online LAC users in the domain.	As per the MIB.

hh3cDomainIPPoolStatTable

About this table

This table contains IP pool statistics for a domain.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cDomainName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
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HH3C-PORT-SECURITY-MIB

About this MIB

Use this MIB to implement port security.

MIB file name

hh3c-port-security.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cPortSecurity(26).hh3cPortSecurityMIB(1)

Scalar objects

hh3cSecurePortSecurity

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecurePortSecurityControl (1.3.6.1.4.1.25506.2.26.1.1.1)	read-write	INTEGER	enabled(1), disabled(2)	Whether to enable port security.	As per the MIB.
hh3cSecurePortVlanMembershipList (1.3.6.1.4.1.25506.2.26.1.1.2)	accessible-for-notification	DisplayString	OCTET STRING (0..255)	VLAN IDs assigned to each port, which are used by notifications.	As per the MIB.

hh3cSecureRalmObjects

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureRalmDefaultSessionTime (1.3.6.1.4.1.25506.2.26.1.1.4.1)	read-write	INTEGER	INTEGER (1..1000000)	Periodic MAC reauthentication interval.	Not supported.
hh3cSecureRalmHoldoffTime (1.3.6.1.4.1.25506.2.26.1.1.4.2)	read-write	INTEGER	INTEGER (1..1000000)	Quiet timer before a blocked (denied) MAC address can be reauthenticated.	As per the MIB.
hh3cSecureRalmReauthenticate (1.3.6.1.4.1.25506.2.26.1.1.4.3)	read-write	MacAddress	OCTET STRING (6)	Writing a MAC address to this object causes an immediate RALM reauthentication of this address.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureRalmAuthMode (1.3.6.1.4.1.25506.2.26.1.1.4.4)	read-write	INTEGER	papUsernameAsMacAddress(1), papUsernameFixed(2)	MAC authentication user account policy.	<p>If the value is set to papUsernameAsMacAddress(1), the MAC address of each user is used as both the username and password.</p> <p>If the value is set to papUsernameFixed(2), the username and password are from the hh3cSecureRalmAuthUsername and hh3cSecureRalmAuthPassword objects. In this mode, the MAC address of each user can be carried in the Calling-Station-Id attribute of RADIUS packets.</p> <p>The hh3cSecureRalmAuthMode object supports the get and set operations.</p>
hh3cSecureRalmAuthUsername (1.3.6.1.4.1.25506.2.26.1.1.4.5)	read-write	DisplayString	OCTET STRING (1..80)	Username.	<p>Length: 1 to 55 characters.</p> <p>The username cannot contain a space or an at sign (@).</p>
hh3cSecureRalmAuthPassword (1.3.6.1.4.1.25506.2.26.1.1.4.6)	read-write	DisplayString	OCTET STRING (1..63)	Password.	Supports only the plaintext form.
hh3cSecureRalmAuthDomain (1.3.6.1.4.1.25506.2.26.1.1.4.7)	read-write	DisplayString	OCTET STRING (1..255)	Domain used only by MAC authentication users.	As per the MIB.
hh3cSecureRalmAuthOfflineTime (1.3.6.1.4.1.25506.2.26.1.1.4.8)	read-write	Integer32	Integer32 (60..2147483647)	<p>MAC authentication offline detect timer.</p> <p>This timer sets the interval that the device must wait for traffic from a user before the device determines that the user is idle. If the device has not received traffic from a user</p>	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				before the timer expires, the device logs off that user and requests the accounting server to stop accounting for the user.	
hh3cSecureRalmAuthServerTimeoutTime (1.3.6.1.4.1.25506.2.26.1.1.4.9)	read-write	INTEGER	INTEGER (1..65535)	Server timeout timer. This timer sets the interval that the device waits for a response from a RADIUS server before the device determines that the RADIUS server is unavailable.	Value range: 100 to 300 seconds.
hh3cSecureMacControl (1.3.6.1.4.1.25506.2.26.1.1.4.10)	read-write	TruthValue	enabled(1), disabled(2)	Whether to enable MAC authentication globally.	As per the MIB.

Tabular objects

hh3cSecurePortTable

About this table

Use this table to configure or obtain security attributes on each port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cDomainName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecurePortMode (1.3.6.1.4.1.25506.2.26.1.2.1.1.1)	read-write	INTEGER	noRestrictions(1), continuousLearning(2), autoLearn(3), secure(4), userLogin(5), userLoginSecure(6), userLoginWithOUI(7),	Port security mode of a port.	The continuousLearning mode is not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			macAddressWithRadius(8), macAddressOrUserLoginSecure(9), macAddressElseUserLoginSecure(10), userLoginSecureExt(11), macAddressOrUserLoginSecureExt(12), macAddressElseUserLoginSecureExt(13), macAddressAndUserLoginSecure(14), macAddressAndUserLoginSecureExt(15)		
hh3cSecureNeedToKnowMode (1.3.6.1.4.1.25506.2.26.1.2.1.1.2)	read-write	INTEGER	notAvailable(1), disabled(2), needToKnowOnly(3), needToKnowWithBroadcastsAllowed(4), needToKnowWithMulticastsAllowed(5), permanentNeedToKnowOnly(6), permanentNeedToKnowWithBroadcastsAllowed(7), permanentNeedToKnowWithMulticastsAllowed(8)	This object determines which frames are allowed to pass through the port by detecting the destination MAC addresses of the frames.	As per the MIB.
hh3cSecureIntrusionAction (1.3.6.1.4.1.25506.2.26.1.2.1.1.3)	read-write	INTEGER	notAvailable(1), noAction(2), disablePort(3), disablePortTemporarily(4), allowDefaultAccesses(5), blockMacAddress(6)	Intrusion protection action to take when intrusion protection detects illegal frames on the port by detecting the source MAC addresses of the frames.	The allowDefaultAccess action is not supported.
hh3cSecureNumberOfAddresses (1.3.6.1.4.1.25506.2.26.1.2.1.1.4)	read-write	Integer32	Standard MIB values.	Maximum number of MAC addresses that the port can learn or store.	As per the MIB.
hh3cSecureNumberOfAddressesStored (1.3.6.1.4.1.25506.2.26.1.2.1.1.5)	read-only	INTEGER	Standard MIB values.	Number of MAC addresses that the port has learned or stored.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.26.1.2.1.1.5)					
hh3cSecureMaximumAddresses (1.3.6.1.4.1.25506.2.26.1.2.1.1.6)	read-only	INTEGER	Standard MIB values.	Maximum value that the hh3cSecureNumberAddresses object supports.	As per the MIB.

hh3cSecureAddressTable

About this table

Use this table to configure or obtain information about MAC addresses on each port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3cSecureAddrMAC, and hh3cSecureAddrVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureAddrMAC (1.3.6.1.4.1.25506.2.26.1.2.2.1.1)	accessible-for-notify	MacAddress	Standard MIB values.	MAC address on a port.	Not supported.
hh3cSecureAddrVlanID (1.3.6.1.4.1.25506.2.26.1.2.2.1.2)	not-accessible	Integer32	Standard MIB values.	VLAN ID of the MAC address.	Not supported.
hh3cSecureAddrMACStatus (1.3.6.1.4.1.25506.2.26.1.2.2.1.3)	read-create	INTEGER	addressBlackhole(1), addressUserConfig(2), addressDot1xAuth(3), addressRALM(4)	MAC address attribute.	Not supported.
hh3cSecureAddrRowStatus (1.3.6.1.4.1.25506.2.26.1.2.2.1.4)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

hh3cSecureOUItable

About this table

Use this table to configure or obtain Organizationally Unique Identifier (OUI) values.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cSecureOUIIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureOUIIndex (1.3.6.1.4.1.25506.2.26.1.2.3.1.1)	not-accessible	INTEGER	INTEGER (1..1024)	OUI index	1..16
hh3cSecureOUI (1.3.6.1.4.1.25506.2.26.1.2.3.1.2)	read-create	OCTET STRING	OCTET STRING (3)	OUI value.	As per the MIB.
hh3cSecureOUIRowStatus (1.3.6.1.4.1.25506.2.26.1.2.3.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

hh3cSecureBindingTable

About this table

Use this table to configure or obtain information about port, IP address, and MAC address binding entries.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cSecureBindingIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureBindingIndex (1.3.6.1.4.1.25506	not-accessible	Integer32	Standard MIB values.	Index of a binding entry.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.26.1.2.4.1.1)					
hh3cSecureBindingPort (1.3.6.1.4.1.25506.2.26.1.2.4.1.2)	read-create	Integer32	Standard MIB values.	Port index in the binding entry.	Not supported.
hh3cSecureBindingAddrMAC (1.3.6.1.4.1.25506.2.26.1.2.4.1.3)	read-create	MacAddress	Standard MIB values.	MAC address in the binding entry.	Not supported.
hh3cSecureBindingAddrIp (1.3.6.1.4.1.25506.2.26.1.2.4.1.4)	read-create	IpAddress	Standard MIB values.	IP address in the binding entry.	Not supported.
hh3cSecureBindingRowStatus (1.3.6.1.4.1.25506.2.26.1.2.4.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Not supported.

hh3cSecureAssignTable

About this table

Use this table to configure or obtain information about port assignment.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSecureAssignEnable (1.3.6.1.4.1.25506.2.26.1.2.5.1.1)	read-write	TruthValue	true(1), false(2)	Whether to apply the authorization attributes received from the server to a port.	As per the MIB.
hh3cSecureVlanAssignment (1.3.6.1.4.1.25506.2.26.1.2.5.1.2)	read-only	OCTET STRING	OCTET STRING (0..255)	Authorization VLAN information (including VLAN IDs and the tagged or untagged attribute) assigned by the server to the port.	As per the MIB.

Notifications

hh3cSecureAddressLearned

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.1	A new secure MAC address was learned.	Informational	N/A	N/A	ON

Description

This notification is generated when a new secure MAC address is learned.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security address-learned` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security address-learned` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	INTEGER	1.. 2147483647
1.3.6.1.4.1.25506.2.26.1.2.2.1.1(hh3cSecureAddrMAC)	Learned MAC address.	Yes	MacAddress	Standard MIB values.

Recommended action

No action is required.

hh3cSecureViolation

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.2	Intrusion protection event occurred.	Informational	N/A	N/A	ON

Description

This notification is generated when an intrusion protection event occurs.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security intrusion` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security intrusion` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	Integer32	1.. 2147483647
1.3.6.1.4.1.25506.2.26.1.2.2.1.1 (hh3cSecureAddrMAC)	MAC address.	Yes	MacAddress	Standard MIB values.
1.3.6.1.2.1.2.2.1.7 (ifAdminStatus)	Link layer status.	No	INTEGER	up(1) down(2) testing(3)

Recommended action

No action is required.

hh3cSecureLoginFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.3	An 802.1X user failed authentication.	Informational	N/A	N/A	ON

Description

This notification is generated when an 802.1X user fails authentication.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security dot1x-failure` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security dot1x-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	InterfaceIndex	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.26.1.2.2.1.1 (hh3cSecureAddrMAC)	User MAC address.	Yes	MacAddress	Standard MIB values.
1.0.8802.1.1.1.2.4.1.9 (dot1xAuthSessionUserName)	Authentication user name.	Yes	SnmpAdminString	OCTET STRING(SIZE (0..255))

Recommended action

No action is required.

hh3cSecureLogon

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.4	An 802.1X user logged on.	Informational	N/A	N/A	ON

Description

A notification is generated when an 802.1X user logs on.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security dot1x-logon` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security dot1x-logon` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	Integer32	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.26.1.2.2.1.1 (hh3cSecureAddrMAC)	User MAC address.	Yes	MacAddress	Standard MIB values.
1.0.8802.1.1.1.1.2.4.1.9 (dot1xAuthSessionUserName)	Username.	Yes	SnmpAdminString	OCTET STRING(SIZE (0..255))
1.0.8802.1.1.1.1.2.4.1.6 (dot1xAuthSessionAuthenticationMethod)	Authentication method.	No	INTEGER	remoteAuthServer(1) localAuthServer(2)
1.3.6.1.4.1.25506.2.26.1.1.2(hh3cSecurePortVlanMembershipList)	VLAN membership assigned to the port on session activation.	No	DisplayString	OCTET STRING (0..255)

Recommended action

No action is required.

hh3cSecureLogoff

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.5	An 802.1X user logged off.	Informational	N/A	N/A	ON

Description

This notification is generated when an 802.1X user logs off.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security dot1x-logoff` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security dot1x-logoff` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index	Yes	Integer32	Integer32(1..2147483647)
1.3.6.1.4.1.25506.2.26 .1.2.2.1.1 (hh3cSecureAddrMAC)	User MAC address.	Yes	MacAddress	Standard MIB values.
1.0.8802.1.1.1.1.2.4.1. 9 (dot1xAuthSessionUs erName)	Username.	Yes	SnmpAdminString	OCTET STRING(SIZE (0.. 255))
1.0.8802.1.1.1.1.2.4.1. 8(dot1xAuthSessionTe rminateCause)	802.1X session termination cause.	No	INTEGER	supplicantLogoff(1) portFailure(2) supplicantRestart(3) reauthFailed(4) authControlForceUnau th(5) portReInit(6) portAdminDisabled(7) notTerminatedYet(999)
1.3.6.1.4.1.25506.2.26 .1.1.2(hh3cSecurePort VlanMembershipList)	VLAN membership assigned to the port on session termination.	No	DisplayString	OCTET STRING (0..255)

Recommended action

No action is required.

hh3cSecureRalmLoginFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.26.1.3.6	A MAC authentication user failed authentication.	Informational	N/A	N/A	ON

Description

This notification is generated when a MAC authentication user fails authentication.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security mac-auth-failure` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security mac-auth-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	Integer32	1.. 2147483647
1.3.6.1.4.1.25506.2.26.1.2.2.1.1(hh3cSecureAddrMAC)	User MAC address.	Yes	MacAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.26.1.1.4.4(hh3cSecureRalmAuthMode)	User account policy.	No	INTEGER	papUsernameAsMacAddress(1) papUsernameFixed(2)
1.3.6.1.4.1.25506.2.26.1.1.4.5(hh3cSecureRalmAuthUsername)	Authentication user name.	No	DisplayString	OCTET STRING (1..80)

Recommended action

No action is required.

hh3cSecureRalmLogon

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.7	A MAC authentication user logged on.	Informational	N/A	N/A	ON

Description

This notification is generated when a MAC authentication user logs on.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security mac-auth-logon` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security mac-auth-logon` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	Integer32	1.. 2147483647
1.3.6.1.4.1.25506.2.26.1.2.2.1.1 (hh3cSecureAddrMAC)	User MAC address.	Yes	MacAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.26	User account policy.	No	INTEGER	papUsernameAsMacA

OID (object name)	Description	Index	Type	Value range
.1.1.4.4(hh3cSecureRalmAuthMode)				ddress(1) papUsernameFixed(2)
1.3.6.1.4.1.25506.2.26 .1.1.4.5(hh3cSecureRalmAuthUsername)	Authentication user name.	No	DisplayString	OCTET STRING (1..80)
1.3.6.1.4.1.25506.2.26 .1.1.2(hh3cSecurePortVlanMembershipList)	VLAN membership assigned to the port on session activation.	No	DisplayString	OCTET STRING (0..255)

Recommended action

No action is required.

hh3cSecureRalmLogoff

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.26.1.3.8	A MAC authentication user logged off.	Informational	N/A	N/A	ON

Description

This notification is generated when a MAC authentication user logs off.

Status control

ON

CLI: Use the `snmp-agent trap enable port-security mac-auth-logoff` command.

OFF

CLI: Use the `undo snmp-agent trap enable port-security mac-auth-logoff` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Port index.	Yes	Integer32	0..2147483647
1.3.6.1.4.1.25506.2.26 .1.2.2.1.1 (hh3cSecureAddrMAC)	Secure MAC address.	Yes	MacAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.26 .1.1.4.4(hh3cSecureRalmAuthMode)	User account policy.	No	INTEGER	papUsernameAsMacA ddress(1) papUsernameFixed(2)
1.3.6.1.4.1.25506.2.26 .1.1.4.5(hh3cSecureRalmAuthUsername)	Authentication user name.	No	DisplayString	OCTET STRING (1..80)
1.3.6.1.4.1.25506.2.26 .1.1.2(hh3cSecurePortVlanMembershipList)	VLAN membership assigned to the port on session termination.	No	DisplayString	OCTET STRING (0..255)

Recommended action

No action is required.

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HH3C-RADIUS-MIB

About this MIB

Use this MIB to obtain and configure RADIUS server settings.

MIB file name

hh3c-radius.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cRadius(13)

Scalar objects

hh3cRadiusAuthErrThreshold

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRadiusAuthErrThreshold (1.3.6.1.4.1.25506.2.13.1.3.1)	read-write	Unsigned32	Unsigned32 (1..100)	Authentication failure alarm threshold.	As per the MIB.

hh3cRadiusStatistic

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRadiusStatAccReq (1.3.6.1.4.1.25506.2.13.6.1)	read-only	Counter64	Standard MIB values.	Number of RADIUS accounting requests sent to the RADIUS server, including start-accounting requests and real-time accounting requests.	As per the MIB.
hh3cRadiusStatAccAck (1.3.6.1.4.1.25506.2.13.6.2)	read-only	Counter64	Standard MIB values.	Number of RADIUS accounting responses received from the RADIUS server.	As per the MIB.
hh3cRadiusStatLogoutReq (1.3.6.1.4.1.25506.2.13.6.3)	read-only	Counter64	Standard MIB values.	Number of logout requests sent to the RADIUS server.	As per the MIB.
hh3cRadiusStatLogoutAck (1.3.6.1.4.1.25506.2.13.6.4)	read-only	Counter64	Standard MIB values.	Number of logout responses received from the RADIUS server.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.13.6.4)				RADIUS server.	

Tabular objects

hh3cRdInfoTable

About this table

Use this table to configure or obtain RADIUS authentication scheme settings. Each RADIUS scheme contains a primary authentication server, a secondary authentication server, and other settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cRdGroupName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdGroupNa me (1.3.6.1.4.1.25506 .2.13.1.1.1.1)	not-accessible	DisplayString	OCTET STRING (1..32)	Name of a RADIUS scheme.	The access privilege is not-accessible.
hh3cRdPrimUdpP ort (1.3.6.1.4.1.25506 .2.13.1.1.1.3)	read-create	Integer32	Standard MIB values.	Port number of the primary authentication server.	Value range: 1 to 65535.
hh3cRdPrimState (1.3.6.1.4.1.25506 .2.13.1.1.1.4)	read-create	INTEGER	active(1), block(2)	Status of the primary authentication server.	As per the MIB.
hh3cRdSecUdpPo rt (1.3.6.1.4.1.25506 .2.13.1.1.1.6)	read-create	Integer32	Standard MIB values.	Port number of the secondary authentication server.	Value range: 1 to 65535.
hh3cRdSecState (1.3.6.1.4.1.25506 .2.13.1.1.1.7)	read-create	INTEGER	active(1), block(2)	Status of the secondary authentication server.	As per the MIB.
hh3cRdKey (1.3.6.1.4.1.25506 .2.13.1.1.1.8)	read-create	DisplayString	OCTET STRING (1..32)	Shared key for communication with the authentication server.	The shared key is a string of 0 to 64 characters. In dayou OEM version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special

Object (OID)	Access	Syntax	Value range	Description	Implementation
					characters. When read, this object returns a zero-length string.
hh3cRdRetry (1.3.6.1.4.1.25506.2.13.1.1.1.9)	read-create	Integer32	Standard MIB values.	Maximum number of attempts for transmitting an authentication packet to the authentication server.	Value range: 1 to 20.
hh3cRdTimeout (1.3.6.1.4.1.25506.2.13.1.1.1.10)	read-create	Integer32	Standard MIB values.	Response timeout time for the RADIUS authentication server, in seconds.	Value range: 1 to 10.
hh3cRdPrimAuthIpAddrType (1.3.6.1.4.1.25506.2.13.1.1.1.11)	read-create	InetAddressType	Standard MIB values.	Type of the IP address for the primary authentication server.	You must specify hh3cRdPrimAuthIpAddrType and hh3cRdPrimAuthIpAddr in pairs in an SNMP request.
hh3cRdPrimAuthIpAddr (1.3.6.1.4.1.25506.2.13.1.1.1.12)	read-create	InetAddress	OCTET STRING (0..255)	IP address of the primary authentication server.	As per the MIB.
hh3cRdSecAuthIpAddrType (1.3.6.1.4.1.25506.2.13.1.1.1.13)	read-create	InetAddressType	Standard MIB values.	Type of the IP address for the secondary authentication server.	You must specify hh3cRdSecAuthIpAddrType and hh3cRdSecAuthIpAddr in pairs in an SNMP request.
hh3cRdSecAuthIpAddr (1.3.6.1.4.1.25506.2.13.1.1.1.14)	read-create	InetAddress	OCTET STRING (0..255)	IP address of the secondary authentication server.	As per the MIB.
hh3cRdQuietTime (1.3.6.1.4.1.25506.2.13.1.1.1.16)	read-create	Integer32	Integer32 (0..255)	Quiet time for the authentication server to restore to the active status, in minutes.	Value range: 0 to 255.
hh3cRdUserNameFormat (1.3.6.1.4.1.25506.2.13.1.1.1.17)	read-create	INTEGER	withoutdomain(1), withdomain(2) , keeporiginal(3)	Format of usernames sent to the RADIUS server.	As per the MIB.
hh3cRdRowStatus (1.3.6.1.4.1.25506.2.13.1.1.1.18)	read-create	RowStatus	Standard MIB values.	Row status.	The following values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).
hh3cRdSecKey (1.3.6.1.4.1.25506.2.13.1.1.1.19)	read-create	DisplayString	OCTET STRING (0..64)	Shared key for communication with the secondary authentication	The shared key is a string of 0 to 64 characters. In dayou OEM

Object (OID)	Access	Syntax	Value range	Description	Implementation
				server.	version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special characters. When read, this object returns a zero-length string.
hh3cRdPrimVpnName (1.3.6.1.4.1.25506.2.13.1.1.1.20)	read-create	DisplayString	OCTET STRING (0..31)	Name of the VPN to which the primary authentication server belongs.	As per the MIB.
hh3cRdSecVpnName (1.3.6.1.4.1.25506.2.13.1.1.1.21)	read-create	DisplayString	OCTET STRING (0..31)	Name of the VPN to which the secondary authentication server belongs.	As per the MIB.
hh3cRdAuthNasIpAddrType (1.3.6.1.4.1.25506.2.13.1.1.1.22)	read-create	InetAddressType	Standard MIB values.	Type of the NAS IP addresses for RADIUS authentication packets sent to the authentication server.	Not supported.
hh3cRdAuthNasIpAddr (1.3.6.1.4.1.25506.2.13.1.1.1.23)	read-create	IpAddress	Standard MIB values.	NAS IPv4 address.	As per the MIB.
hh3cRdAuthNasIpv6Addr (1.3.6.1.4.1.25506.2.13.1.1.1.24)	read-create	Ipv6Address	Standard MIB values.	NAS IPv6 address.	As per the MIB.

hh3cRdAccInfoTable

About this table

Use this table to configure or obtain RADIUS accounting scheme settings. Each RADIUS scheme contains a primary accounting server, a secondary accounting server, and other settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

You must specify hh3cRdAccRealTime and hh3cRdAccRealTimeUnit in pairs in an SNMP request.

Columns

The table index is hh3cRdAccGroupName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdAccGroup Name (1.3.6.1.4.1.25506 .2.13.1.2.1.1)	not-accessible	DisplayString	OCTET STRING (1..32)	Name of a RADIUS accounting scheme.	The access privilege is not-accessible.
hh3cRdPrimAccIp AddrType (1.3.6.1.4.1.25506 .2.13.1.2.1.2)	read-create	InetAddressType	Standard MIB values.	Type of the IP address for the primary accounting server.	You must specify hh3cRdPrimAccIp AddrType and hh3cRdPrimAccIp Addr in pairs in an SNMP request.
hh3cRdPrimAccIp Addr (1.3.6.1.4.1.25506 .2.13.1.2.1.3)	read-create	InetAddress	OCTET STRING (0..255)	IP address of the primary accounting server.	As per the MIB.
hh3cRdPrimAccU dpPort (1.3.6.1.4.1.25506 .2.13.1.2.1.4)	read-create	Integer32	Standard MIB values.	Port number of the primary accounting server.	Value range: 1 to 65535.
hh3cRdPrimAccSt ate (1.3.6.1.4.1.25506 .2.13.1.2.1.5)	read-create	INTEGER	active(1), block(2)	Status of the primary accounting server.	As per the MIB.
hh3cRdSecAccIp AddrType (1.3.6.1.4.1.25506 .2.13.1.2.1.6)	read-create	InetAddressType	Standard MIB values.	Type of the IP address for the secondary accounting server.	You must specify hh3cRdSecAccIp AddrType and hh3cRdSecAccIp Addr in pairs in an SNMP request.
hh3cRdSecAccIp Addr (1.3.6.1.4.1.25506 .2.13.1.2.1.7)	read-create	InetAddress	OCTET STRING (0..255)	IP address of the secondary accounting server.	As per the MIB.
hh3cRdSecAccUd pPort (1.3.6.1.4.1.25506 .2.13.1.2.1.8)	read-create	Integer32	Standard MIB values.	Port number of the secondary accounting server.	Value range: 1 to 65535.
hh3cRdSecAccSt ate (1.3.6.1.4.1.25506 .2.13.1.2.1.9)	read-create	INTEGER	active(1), block(2)	Status of the primary accounting server.	As per the MIB.
hh3cRdAccKey (1.3.6.1.4.1.25506 .2.13.1.2.1.10)	read-create	DisplayString	OCTET STRING (0..64)	Shared key for communication with the accounting server.	The shared key is a string of 0 to 64 characters. In dayou OEM version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special characters. When read, this object returns a zero-length string.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdAccRetry (1.3.6.1.4.1.25506.2.13.1.2.1.11)	read-create	Integer32	Standard MIB values.	Maximum number of attempts for transmitting an accounting packet to the accounting server.	Value range: 1 to 20.
hh3cRdAccTimeout (1.3.6.1.4.1.25506.2.13.1.2.1.12)	read-create	Integer32	Standard MIB values.	Response timeout time for the accounting server, in seconds.	Value range: 1 to 10.
hh3cRdAccServerType (1.3.6.1.4.1.25506.2.13.1.2.1.13)	read-create	INTEGER	standard(1), iphotel(2), portal(3), extended(4)	Service type provided by the accounting server.	Only standard RADIUS attributes (value 1) are supported.
hh3cRdAccQuietTime (1.3.6.1.4.1.25506.2.13.1.2.1.14)	read-create	Integer32	Integer32 (0..255)	Quiet time for the accounting server to restore to the active status, in minutes.	Value range: 0 to 255.
hh3cRdAccFailureAction (1.3.6.1.4.1.25506.2.13.1.2.1.15)	read-create	INTEGER	ignore (1), reject(2)	Action to take on accounting failure.	Not supported
hh3cRdAccRealTime (1.3.6.1.4.1.25506.2.13.1.2.1.16)	read-create	Integer32	Integer32 (0..71582)	Interval for sending real-time accounting packets (in minutes by default).	As per the MIB.
hh3cRdAccRealTimeRetry (1.3.6.1.4.1.25506.2.13.1.2.1.17)	read-create	Integer32	Integer32 (1..255)	Maximum number of accounting attempts.	As per the MIB.
hh3cRdAccSaveStopPktEnable (1.3.6.1.4.1.25506.2.13.1.2.1.18)	read-create	TruthValue	true(1), false(2)	Whether to buffer RADIUS stop-accounting requests to which no responses have been received.	Not supported.
hh3cRdAccStopRetry (1.3.6.1.4.1.25506.2.13.1.2.1.19)	read-create	Integer32	Integer32 (10..65535)	Maximum number of transmission attempts for individual RADIUS stop-accounting requests.	Not supported.
hh3cRdAccDataFlowUnit (1.3.6.1.4.1.25506.2.13.1.2.1.20)	read-create	INTEGER	byte(1), kiloByte(2), megaByte(3), gigaByte(4)	Data flow measurement unit for traffic statistics.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdAccPacketUnit (1.3.6.1.4.1.25506.2.13.1.2.1.21)	read-create	INTEGER	onePacket(1), kiloPacket (2), megaPacket (3), gigaPacket (4)	Packet measurement unit for traffic statistics.	As per the MIB.
hh3cRdAccRowStatus (1.3.6.1.4.1.25506.2.13.1.2.1.22)	read-create	RowStatus	Standard MIB values.	Row status.	The following values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).
hh3cRdAcctOnEnable (1.3.6.1.4.1.25506.2.13.1.2.1.23)	read-create	TruthValue	true(1), false(2)	Enabling status of the accounting-on feature.	As per the MIB.
hh3cRdAcctOnSendTimes (1.3.6.1.4.1.25506.2.13.1.2.1.24)	read-create	Integer32	Standard MIB values.	Maximum number of accounting-on packet transmission attempts.	As per the MIB.
hh3cRdAcctOnSendInterval (1.3.6.1.4.1.25506.2.13.1.2.1.25)	read-create	Integer32	Standard MIB values.	Interval for retransmitting an accounting-on packet.	As per the MIB.
hh3cRdSecAccKey (1.3.6.1.4.1.25506.2.13.1.2.1.26)	read-create	DisplayString	OCTET STRING (0..64)	Shared key for communication with the secondary accounting server.	The shared key is a string of 0 to 64 characters. In dayou OEM version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special characters. When read, this object returns a zero-length string.
hh3cRdPrimAccVpnName (1.3.6.1.4.1.25506.2.13.1.2.1.27)	read-create	DisplayString	OCTET STRING (0..31)	Name of the VPN to which the primary accounting server belongs.	As per the MIB.
hh3cRdSecAccVpnName (1.3.6.1.4.1.25506.2.13.1.2.1.28)	read-create	DisplayString	OCTET STRING (0..31)	Name of the VPN to which the secondary accounting server belongs.	As per the MIB.
hh3cRdAccNasIpAddrType (1.3.6.1.4.1.25506.2.13.1.2.1.29)	read-create	InetAddressType	Standard MIB values.	Type of the NAS IP addresses for RADIUS accounting packets sent to the RADIUS	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				accounting server.	
hh3cRdAccNasIpAddr (1.3.6.1.4.1.25506.2.13.1.2.1.30)	read-create	IpAddress	Standard MIB values.	NAS IPv4 address.	As per the MIB.
hh3cRdAccNasIpv6Addr (1.3.6.1.4.1.25506.2.13.1.2.1.31)	read-create	Ipv6Address	Standard MIB values.	NAS IPv6 address.	As per the MIB.
hh3cRdAccRealTimeUnit (1.3.6.1.4.1.25506.2.13.1.2.1.32)	read-create	INTEGER	minute(0), second(1)	Interval for sending real-time accounting packets.	As per the MIB.

hh3cRdSecondaryAuthServerTable

About this table

Use this table to configure or obtain secondary RADIUS authentication server settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cRdGroupName, hh3cRdSecondaryAuthIpAddrType, hh3cRdSecondaryAuthIpAddr, hh3cRdSecondaryAuthVpnName, and hh3cRdSecondaryAuthUdpPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdSecondaryAuthIpAddrType (1.3.6.1.4.1.25506.2.13.1.4.1.1)	not-accessible	InetAddressType	Standard MIB values.	Type of the IP address for a secondary authentication server.	As per the MIB.
hh3cRdSecondaryAuthIpAddr (1.3.6.1.4.1.25506.2.13.1.4.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the secondary authentication server.	As per the MIB.
hh3cRdSecondaryAuthVpnName (1.3.6.1.4.1.25506.2.13.1.4.1.3)	not-accessible	DisplayString	OCTET STRING (0..31)	Name of the VPN to which the secondary authentication server belongs.	As per the MIB.
hh3cRdSecondaryAuthUdpPort (1.3.6.1.4.1.25506.2.13.1.4.1.4)	not-accessible	Integer32	Integer32 (1..65535)	Port number of the secondary authentication server.	As per the MIB.
hh3cRdSecondaryAuthState (1.3.6.1.4.1.25506.2.13.1.4.1.5)	read-create	INTEGER	active(1), block(2)	Status of the secondary authentication	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.13.1.4.1.5)				server.	
hh3cRdSecondaryAuthKey (1.3.6.1.4.1.25506.2.13.1.4.1.6)	read-create	DisplayString	OCTET STRING (0..64)	Shared key for communication with the secondary authentication server.	The shared key is a string of 0 to 64 characters. In dayou OEM version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special characters. When read, this object returns a zero-length string.
hh3cRdSecondaryAuthRowStatus (1.3.6.1.4.1.25506.2.13.1.4.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	The following values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cRdSecondaryAccServerTable

About this table

Use this table to configure or obtain secondary RADIUS accounting server settings.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are hh3cRdAccGroupName, hh3cRdSecondaryAccIpAddrType, hh3cRdSecondaryAccIpAddr, hh3cRdSecondaryAccVpnName, and hh3cRdSecondaryAccUdpPort.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRdSecondaryAccIpAddrType (1.3.6.1.4.1.25506.2.13.1.5.1.1)	not-accessible	InetAddressType	Standard MIB values.	Type of the IP address for a secondary accounting server.	As per the MIB.
hh3cRdSecondaryAccIpAddr (1.3.6.1.4.1.25506.2.13.1.5.1.2)	not-accessible	InetAddress	OCTET STRING (0..255)	IP address of the secondary accounting server.	As per the MIB.
hh3cRdSecondaryAccVpnName	not-accessible	DisplayString	OCTET STRING	Name of the VPN to which the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.13.1.5.1.3)			(0..31)	secondary accounting server belongs.	
hh3cRdSecondaryAccUdpPort (1.3.6.1.4.1.25506.2.13.1.5.1.4)	not-accessible	Integer32	Integer32 (1..65535)	Port number of the secondary accounting server.	As per the MIB.
hh3cRdSecondaryAccState (1.3.6.1.4.1.25506.2.13.1.5.1.5)	read-create	INTEGER	active(1), block(2)	Status of the secondary accounting server.	As per the MIB.
hh3cRdSecondaryAccKey (1.3.6.1.4.1.25506.2.13.1.5.1.6)	read-create	DisplayString	OCTET STRING (0..64)	Shared key for communication with the secondary accounting server.	The shared key is a string of 0 to 64 characters. In dayou OEM version, the shared key string must be nine characters long or longer and must contain digits, uppercase letters, lowercase letters, and special characters. When read, this object returns a zero-length string.
hh3cRdSecondaryAccRowStatus (1.3.6.1.4.1.25506.2.13.1.5.1.7)	read-create	RowStatus	Standard MIB values.	Row status.	The following values are supported: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cRadiusAccServerTable

About this table

This table collects packet statistics by RADIUS accounting server, which is not implemented by standard MIBs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is radiusAccServerIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRadiusAccClientStartRequests (1.3.6.1.4.1.25506)	read-only	Counter32	Standard MIB values.	Number of start-accounting requests sent to	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.13.2.1.1.1.1)				the RADIUS server.	
hh3cRadiusAccClientStartResponses (1.3.6.1.4.1.25506.2.13.2.1.1.1.2)	read-only	Counter32	Standard MIB values.	Number of start-accounting requests received from the RADIUS server.	As per the MIB.
hh3cRadiusAccClientInterimRequests (1.3.6.1.4.1.25506.2.13.2.1.1.1.3)	read-only	Counter32	Standard MIB values.	Number of real-time accounting request sent to the RADIUS server.	As per the MIB.
hh3cRadiusAccClientInterimResponses (1.3.6.1.4.1.25506.2.13.2.1.1.1.4)	read-only	Counter32	Standard MIB values.	Number of real-time accounting requests received from the RADIUS server.	As per the MIB.
hh3cRadiusAccClientStopRequests (1.3.6.1.4.1.25506.2.13.2.1.1.1.5)	read-only	Counter32	Standard MIB values.	Number of stop-accounting request sent to the RADIUS server.	As per the MIB.
hh3cRadiusAccClientStopResponses (1.3.6.1.4.1.25506.2.13.2.1.1.1.6)	read-only	Counter32	Standard MIB values.	Number of stop-accounting requests received from the RADIUS server.	As per the MIB.

hh3cRadiusAuthServerTable

About this table

This table collects authentication failure statistics by RADIUS authentication server, which is not implemented by standard MIBs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is radiusAuthServerIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRadiusAuthFailureTimes (1.3.6.1.4.1.25506.2.13.4.1.1.1.1)	read-only	Counter32	Standard MIB values.	Number of authentication failures.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRadiusAuthTimeoutTimes (1.3.6.1.4.1.25506.2.13.4.1.1.1.2)	read-only	Counter32	Standard MIB values.	Number of authentication timeouts.	As per the MIB.
hh3cRadiusAuthRejectTimes (1.3.6.1.4.1.25506.2.13.4.1.1.1.3)	read-only	Counter32	Standard MIB values.	Number of authentication rejections.	As per the MIB.

Notifications

hh3cRadiusAuthServerUpTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.1	Authentication server up	Informational	N/A	N/A	OFF

Description

This notification is generated when the status of an authentication server changes from blocked to active.

This notification cannot function correctly with SNMPv2 and later versions. It has been replaced with hh3cRadiusAuthenticationServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.4) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS authentication server up event (if enabled) depends on the SNMP version for the event:

- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAuthServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.1) notification.
- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAuthenticationServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.4) notification.

Status control

ON

CLI: Use both the **snmp-agent trap enable radius authentication-server-up** and **radius trap-version v1** commands.

OFF

CLI: Use either the **undo snmp-agent trap enable radius authentication-server-up** command or the **radius trap-version v2** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.1.2.1.1.3.1.2 (radiusAuthServerAddress)	IP address of an authentication server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.1.2.1.1.3.1.3 (radiusAuthClientServerPortNumber)	Port number of the authentication server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAccServerUpTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.2	Accounting server up	Informational	N/A	N/A	OFF

Description

This notification is generated when the status of an accounting server changes from blocked to active.

This notification cannot function correctly with SNMPv2 and later versions. It has been replaced with hh3cRadiusAccountingServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.5) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS accounting server up event (if enabled) depends on the SNMP version for the event:

- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAccServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.2) notification.
- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAccountingServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.5) notification.

Status control

ON

CLI: Use both the **snmp-agent trap enable radius accounting-server-up** and **radius trap-version v1** commands.

OFF

CLI: Use either the **undo snmp-agent trap enable radius accounting-server-up** command or the **radius trap-version v2** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.2.2.1.1.3.1.2 (radiusAccServerAddress)	IP address of an accounting server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.2.2.1.1.3.1.3 (radiusAccClientServerPortNumber)	Port number of the accounting server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAuthErrTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.3	Authentication failure alarm threshold	Informational	Major	N/A	OFF

OID	Event	Type	Severity	Recovery notification	Default status
	crossing.				

Description

This notification is generated when the authentication failure ratio reaches the authentication failure alarm threshold.

Status control

ON

CLI: Use the `snmp-agent trap enable radius authentication-error-threshold` command.

OFF

CLI: Use the `undo snmp-agent trap enable radius authentication-error-threshold` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.1.2.1.1.3.1.2 (radiusAuthServerAddress)	IP address of an authentication server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.1.2.1.1.3.1.3 (radiusAuthClientServerPortNumber)	Port number of the authentication server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAuthenticationServerUpTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.4	Authentication server up	Informational	N/A	N/A	OFF

Description

This notification is generated when the status of an authentication server changes from blocked to active.

This notification replaces hh3cRadiusAuthServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.1) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS authentication server up event (if enabled) depends on the SNMP version for the event:

- If SNMPv2 is specified for this event by using the `radius trap-version v2` command, the device generates the hh3cRadiusAuthenticationServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.4) notification.
- If SNMPv1 is specified for this event by using the `radius trap-version v1` command, the device generates the hh3cRadiusAuthServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.1) notification.

Status control

ON

CLI: Use both the `snmp-agent trap enable radius authentication-server-up` and `radius trap-version v2` commands.

OFF

CLI: Use either the `undo snmp-agent trap enable radius authentication-server-up` command or the `radius trap-version v1` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.1.2.1.1.3.1.2 (radiusAuthServerAddress)	IP address of an authentication server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.1.2.1.1.3.1.3 (radiusAuthClientServerPortNumber)	Port number of the authentication server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAccountingServerUpTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.5	Accounting server up	Informational	N/A	N/A	OFF

Description

This notification is generated when the status of an accounting server changes from blocked to active.

This notification replaces hh3cRadiusAccServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.2) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS accounting server up event (if enabled) depends on the SNMP version for the event:

- If SNMPv2 is specified for this event by using the `radius trap-version v2` command, the device generates the hh3cRadiusAccountingServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.5) notification.
- If SNMPv1 is specified for this event by using the `radius trap-version v1` command, the device generates the hh3cRadiusAccServerUpTrap (1.3.6.1.4.1.25506.2.13.3.0.2) notification.

Status control

ON

CLI: Use both the `snmp-agent trap enable radius accounting-server-up` and `radius trap-version v2` commands.

OFF

CLI: Use either the `undo snmp-agent trap enable radius accounting-server-up` command or the `radius trap-version v1` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.2.2.1.1.3.1.2 (radiusAccServerAddress)	IP address of an accounting server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.2.2.1.1.3.1.3 (radiusAccClientServerPortNumber)	Port number of the accounting server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAuthenticationServerDownTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.6	Authentication server down	Informational	Major	N/A	OFF

Description

This notification is generated when the status of an authentication server changes from active to blocked.

This notification replaces hh3cRadiusAuthServerDownTrap (1.3.6.1.4.1.25506.2.13.3.1) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS authentication server down event (if enabled) depends on the SNMP version for the event:

- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAuthenticationServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.6) notification.
- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAuthServerDownTrap (1.3.6.1.4.1.25506.2.13.3.1) notification.

Status control

ON

CLI: Use both the **snmp-agent trap enable radius authentication-server-down** and **radius trap-version v2** commands.

OFF

CLI: Use either the **undo snmp-agent trap enable radius authentication-server-down** command or the **radius trap-version v1** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.1.2.1.1.3.1.2 (radiusAuthServerAddress)	IP address of an authentication server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.1.2.1.1.3.1.3 (radiusAuthClientServerPortNumber)	Port number of the authentication server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAccountingServerDownTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.0.7	Accounting server down	Informational	Major	N/A	OFF

Description

This notification is generated when the status of an accounting server changes from active to blocked.

This notification replaces hh3cRadiusAccServerDownTrap (1.3.6.1.4.1.25506.2.13.3.2) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS accounting server down event (if enabled) depends on the SNMP version for the event:

- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAccountingServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.7) notification.
- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAccServerDownTrap (1.3.6.1.4.1.25506.2.13.3.2) notification.

Status control

ON

CLI: Use both the **snmp-agent trap enable radius accounting-server-down** and **radius trap-version v2** commands.

OFF

CLI: Use either the **undo snmp-agent trap enable radius accounting-server-down** command or the **radius trap-version v1** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.2.2.1.1.3.1.2 (radiusAccServerAddress)	IP address of an accounting server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.2.2.1.1.3.1.3 (radiusAccClientServerPortNumber)	Port number of an accounting server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAuthServerDownTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.1	Authentication server down	Informational	Major	N/A	OFF

Description

This notification is generated when the status of an authentication server changes from active to blocked.

This notification cannot function correctly with SNMPv2 and later versions. It has been replaced with hh3cRadiusAuthenticationServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.6) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS authentication server down event (if enabled) depends on the SNMP version for the event:

- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAuthServerDownTrap (1.3.6.1.4.1.25506.2.13.3.1) notification.
- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAuthenticationServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.6) notification.

Status control

ON

CLI: Use both the **snmp-agent trap enable radius authentication-server-down** and **radius trap-version v1** commands.

OFF

CLI: Use either the **undo snmp-agent trap enable radius authentication-server-down** command or the **radius trap-version v2** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.1.2.1.1.3.1.2 (radiusAuthServerAddress)	IP address of an authentication server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.1.2.1.1.3.1.3 (radiusAuthClientServerPortNumber)	Port number of the authentication server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

hh3cRadiusAccServerDownTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.13.3.2	Accounting server down	Informational	Major	N/A	OFF

Description

This notification is generated when the status of an accounting server changes from active to blocked.

This notification cannot function correctly with SNMPv2 and later versions. It has been replaced with hh3cRadiusAccountingServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.7) in SNMPv2 and later versions.

The notification generated by the device for the RADIUS accounting server down event (if enabled) depends on the SNMP version for the event:

- If SNMPv1 is specified for this event by using the **radius trap-version v1** command, the device generates the hh3cRadiusAccServerDownTrap (1.3.6.1.4.1.25506.2.13.3.2) notification.
- If SNMPv2 is specified for this event by using the **radius trap-version v2** command, the device generates the hh3cRadiusAccountingServerDownTrap (1.3.6.1.4.1.25506.2.13.3.0.7) notification.

Status control

ON

CLI: Use both the `snmp-agent trap enable radius accounting-server-down` and `radius trap-version v1` commands.

OFF

CLI: Use either the `undo snmp-agent trap enable radius accounting-server-down` command or the `radius trap-version v2` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.67.2.2.1.1.3.1.2 (radiusAccServerAddress)	IP address of an accounting server.	Yes	IP Address	Standard MIB values.
1.3.6.1.2.1.67.2.2.1.1.3.1.3 (radiusAccClientServerPortNumber)	Port number of an accounting server.	Yes	INTEGER	1.. 65535

Recommended action

No action is required.

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HH3C-USER-MIB

About this MIB

Use this MIB to manage local users.

MIB file name

hh3c-user.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cUser(12)

Scalar objects

hh3cUserObject

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cUserMaxNum (1.3.6.1.4.1.25506.2.12.1.3)	read-only	Integer32	Standard MIB values.	Maximum number of local users can be created.	Implementation varies by product.
hh3cUserCurrNum (1.3.6.1.4.1.25506.2.12.1.4)	read-only	Integer32	Standard MIB values.	Number of existing local users.	As per the MIB.
hh3cUserIndexIndicator (1.3.6.1.4.1.25506.2.12.1.5)	read-only	Integer32	Standard MIB values.	Index to be used for the next local user.	As per the MIB.

Tabular objects

hh3cUserInfoTable

About this table

Use this table to configure or obtain basic information of a local user.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

You must specify hh3cUserPassword and hh3cAuthMode in pairs in an SNMP request.

Columns

The table index is hh3cUserIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cUserName (1.3.6.1.4.1.25506 .2.12.1.1.1.1)	read-create	DisplayString	OCTET STRING (1..255)	Name of a local user.	<p>The username cannot contain any of the following characters: backslash (\), forward slash (/), colon (:), asterisk (*), question mark (?), quotation mark ("), left angle bracket (<), right angle bracket (>), or vertical bar (). It cannot be a, al, or all and cannot begin with or end with at sign (@).</p> <p>A username that contains a domain name is in the format of <i>localusername@domain</i>. The <i>localusername</i> part in the username cannot contain any of the following characters: backslash (\), forward slash (/), colon (:), asterisk (*), question mark (?), quotation mark ("), left angle bracket (<), right angle bracket (>), or vertical bar ().. The maximum length of this part varies by device model.</p> <p>The username of each local user is unique. You cannot edit an existing username.</p>
hh3cUserPassword (1.3.6.1.4.1.25506 .2.12.1.1.1.2)	read-create	DisplayString	OCTET STRING (0..255)	Password of the local user.	When read, this object returns a zero-length string.
hh3cAuthMode (1.3.6.1.4.1.25506 .2.12.1.1.1.3)	read-create	Integer32	Standard MIB values.	Encryption type of the user password.	Value range: 0 or 7.
hh3cUserState (1.3.6.1.4.1.25506 .2.12.1.1.1.5)	read-create	INTEGER	active(0), block(1)	Status of the local user.	As per the MIB.

hh3cUserInfoRow Status (1.3.6.1.4.1.25506 .2.12.1.1.1.6)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	As per the MIB.
hh3cUserIndex (1.3.6.1.4.1.25506 .2.12.1.1.1.7)	not-accessible	Integer32	Integer32 (1..2147483646)	Index of the local user.	Value range: 1 to 1024.

hh3cUserAttributeTable

About this table

This table contains attributes of a local user.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is hh3cUserIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cAccessLimit (1.3.6.1.4.1.25506 .2.12.1.2.1.1)	read-write	Integer32	Standard MIB values.	Maximum number of concurrent users that can use a username to access the device.	Default: No limit is placed on the maximum number of concurrent users that can use a username to access the device. Value range: 0 to 1024.
hh3cIdleCut (1.3.6.1.4.1.25506 .2.12.1.2.1.2)	read-write	Integer32	Standard MIB values.	Idle timeout period, in seconds.	This object will round the specified value to the nearest multiple of 60.
hh3cIPAddress (1.3.6.1.4.1.25506 .2.12.1.2.1.3)	read-write	IpAddress	Standard MIB values.	IP address of a user.	Default: 0.0.0.0.
hh3cNasIPAdress s (1.3.6.1.4.1.25506 .2.12.1.2.1.4)	read-write	IpAddress	Standard MIB values.	IP address of the NAS for the user.	Not supported.
hh3cSlotNum (1.3.6.1.4.1.25506 .2.12.1.2.1.5)	read-write	Integer32	Standard MIB values.	Slot number of the user.	Not supported.
hh3cSubSlotNum (1.3.6.1.4.1.25506 .2.12.1.2.1.6)	read-write	Integer32	Standard MIB values.	Subslot number of the user.	Not supported.
hh3cPortNum (1.3.6.1.4.1.25506 .2.12.1.2.1.7)	read-write	Integer32	Standard MIB values.	Port number of the user.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMacAddress (1.3.6.1.4.1.25506.2.12.1.2.1.8)	read-write	MacAddress	OCTET STRING (6)	MAC address of the user.	As per the MIB.
hh3cVlan (1.3.6.1.4.1.25506.2.12.1.2.1.9)	read-write	Integer32	Integer32 (0..4094)	ID of the VLAN to which the user belongs.	As per the MIB.
hh3cFtpService (1.3.6.1.4.1.25506.2.12.1.2.1.10)	read-write	ServiceType	enable(1), disable(2)	FTP service.	Not supported.
hh3cFtpDirectory (1.3.6.1.4.1.25506.2.12.1.2.1.11)	read-write	OCTET STRING	Standard MIB values.	FTP directory.	Not supported.
hh3cLanAccessService (1.3.6.1.4.1.25506.2.12.1.2.1.12)	read-write	ServiceType	enable(1), disable(2)	LAN access service.	As per the MIB.
hh3cSshService (1.3.6.1.4.1.25506.2.12.1.2.1.13)	read-write	ServiceType	enable(1), disable(2)	SSH service.	Not supported.
hh3cTelnetService (1.3.6.1.4.1.25506.2.12.1.2.1.14)	read-write	ServiceType	enable(1), disable(2)	Telnet service.	Not supported.
hh3cTerminalService (1.3.6.1.4.1.25506.2.12.1.2.1.15)	read-write	ServiceType	enable(1), disable(2)	Terminal service.	Not supported.
hh3cExpirationDate (1.3.6.1.4.1.25506.2.12.1.2.1.16)	read-write	DateAndTime	OCTET STRING (8)	Expired date of the user.	Not supported.
hh3cUserGroup (1.3.6.1.4.1.25506.2.12.1.2.1.17)	read-write	DisplayString	OCTET STRING (0..255)	User group of the user.	A user group name cannot exceed 32 characters.
hh3cPortalService (1.3.6.1.4.1.25506.2.12.1.2.1.18)	read-write	ServiceType	enable(1), disable(2)	Portal service.	As per the MIB.
hh3cPPPSERVICE (1.3.6.1.4.1.25506.2.12.1.2.1.19)	read-write	ServiceType	enable(1), disable(2)	PPP service.	As per the MIB.
hh3cHttpService (1.3.6.1.4.1.25506.2.12.1.2.1.20)	read-write	ServiceType	enable(1), disable(2)	HTTP service.	Not supported
hh3cHttpsService (1.3.6.1.4.1.25506.2.12.1.2.1.21)	read-write	ServiceType	enable(1), disable(2)	HTTPS service.	Not supported
hh3cUserInterface (1.3.6.1.4.1.25506.2.12.1.2.1.22)	read-write	Integer32	Standard MIB values.	Index of the user's access interface.	As per the MIB.

hh3cUserRoleTable

About this table

Use this table to configure or obtain basis information of a local user.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cUserIndex and hh3cUserRole.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cUserRole (1.3.6.1.4.1.25506 .2.12.1.6.1.1)	not-accessable	DisplayString	OCTET STRING (1..63))	User role.	In MDCs, the default user role is mdc-operator. In non-MDCs, the default user role is network-operator.
hh3cUserRoleStat us (1.3.6.1.4.1.25506 .2.12.1.6.1.2)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	You must specify hh3cUserIndex when you create a local user.

hh3cUserGroupInfoTable

About this table

Use this table to configure or obtain basic information of a user group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cUserGroupName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cUserGroupN ame (1.3.6.1.4.1.25506 .2.12.2.1.1.1)	not-accessible	DisplayString	OCTET STRING (1..255)	Name of a user group.	As per the MIB.
hh3cUserGroupInf oRowStatus (1.3.6.1.4.1.25506 .2.12.2.1.1.2)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status.	As per the MIB.

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IEEE8021-PAE-MIB

About this MIB

Use this MIB to manage 802.1X basic settings.

MIB file name

ieee8021-pae.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).ieee8021paeMIB(1)

Scalar objects

dot1xPaeSystemAuthControl

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xPaeSystemAuthControl (1.0.8802.1.1.1.1.1)	read-write	INTEGER	enabled(1), disabled(2)	Enabling status of 802.1X	As per the MIB.

Tabular objects

dot1xPaePortTable

About this table

Use this table to configure or obtain information about 802.1X parameters on ports.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is dot1xPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xPaePortNumber (1.0.8802.1.1.1.1.2.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	Port number.	As per the MIB.
dot1xPaePortProtocolVersion	read-only	Unsigned32	Standard MIB	Protocol version.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.0.8802.1.1.1.1.1.2.1.2)			values.		
dot1xPaePortCapabilities (1.0.8802.1.1.1.1.1.2.1.3)	read-only	BITS	dot1xPaePortAuthCapable(0), dot1xPaePortSupportCapable(1)	PAE capabilities supported by the port.	As per the MIB.
dot1xPaePortInitialize (1.0.8802.1.1.1.1.1.2.1.4)	read-write	TruthValue	true(1), false(2)	Port initialization control.	Not supported
dot1xPaePortReauthenticate (1.0.8802.1.1.1.1.1.2.1.5)	read-write	TruthValue	true(1), false(2)	Port reauthentication control.	As per the MIB.

dot1xAuthConfigTable

About this table

Use this table to configure or obtain information about 802.1X authentication parameters.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Supported	Supported

Columns

The table index is dot1xPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xAuthPaeState (1.0.8802.1.1.1.1.1.2.1.1)	read-only	INTEGER	initialize(1), disconnected(2), connecting(3), authenticating(4), authenticated(5), aborting(6), held(7), forceAuth(8), forceUnauth(9)	Current value of the Authenticator PAE state machine.	Supports only initialize(1), forceAuth(8), and forceUnauth(9).
dot1xAuthBackendAuthState (1.0.8802.1.1.1.1.1.2.1.2)	read-only	INTEGER	request(1), response(2), success(3), fail(4), timeout(5), idle(6), initialize(7)	Current state of the Backend Authentication state machine.	As per the MIB.
dot1xAuthAdminC	read-write	INTEGER	both(0),	Current value of	Supports only the

Object (OID)	Access	Syntax	Value range	Description	Implementation
controlledDirections (1.0.8802.1.1.1.1.2.1.1.3)			in(1)	the administrative controlled directions parameter for the port.	read operation.
dot1xAuthOperControlledDirections (1.0.8802.1.1.1.1.2.1.1.4)	read-only	INTEGER	both(0), in(1)	Current value of the operational controlled directions parameter for the port.	As per the MIB.
dot1xAuthAuthControlledPortStatus (1.0.8802.1.1.1.1.2.1.1.5)	read-only	INTEGER	authorized(1), unauthorized(2)	Current value of the controlled port status parameter for the port.	Supports only for port-based access control.
dot1xAuthAuthControlledPortControl (1.0.8802.1.1.1.1.2.1.1.6)	read-write	INTEGER	unauthforce(1), auto(2), authforce(3)	Current value of the controlled port control parameter for the port.	As per the MIB.
dot1xAuthQuietPeriod (1.0.8802.1.1.1.1.2.1.1.7)	read-write	Unsigned32	Standard MIB values.	Quiet period.	Supports only the read operation. The value is fixed at 0. To modify the quiet period, use the private MIB of 802.1X.
dot1xAuthTxPeriod (1.0.8802.1.1.1.1.2.1.1.8)	read-write	Unsigned32	Standard MIB values.	Username request timeout timer.	Supports only the read operation. The value is fixed at 0. To modify the username request timeout timer, use the private MIB of 802.1X.
dot1xAuthSuppTimeout (1.0.8802.1.1.1.1.2.1.1.9)	read-write	Unsigned32	Standard MIB values.	Client timeout timer.	Supports only the read operation. The value is fixed at 0. To modify the client timeout timer, use the private MIB of 802.1X.
dot1xAuthServerTimeout (1.0.8802.1.1.1.1.2.1.1.10)	read-write	Unsigned32	Standard MIB values.	Server timeout timer.	Supports only the read operation. The value is fixed at 0. To modify the server timeout timer, use the private MIB of 802.1X.
dot1xAuthMaxReq (1.0.8802.1.1.1.1.2.1.1.11)	read-write	Unsigned32	Standard MIB values.	Maximum number of attempts for	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
2.1.1.11)				sending an authentication request to a client.	The value is fixed at 0. To modify the value, use the private MIB of 802.1X.
dot1xAuthReAuth Period (1.0.8802.1.1.1.1.2.1.1.12)	read-write	Unsigned32	Standard MIB values.	Reauthentication interval.	Value range: 0 and 60 to 86400, in seconds. Default: 0 seconds.
dot1xAuthReAuth Enabled (1.0.8802.1.1.1.1.2.1.1.13)	read-write	TruthValue	true(1), false(2)	Enabling status of periodic reauthentication.	As per the MIB.
dot1xAuthKeyTxEnabled (1.0.8802.1.1.1.1.2.1.1.14)	read-write	TruthValue	true(1), false(2)	Enabling status of key transmission.	Supports only the read operation.

dot1xAuthStatsTable

About this table

This table contains 802.1X authentication statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is dot1xPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xAuthEapolFramesRx (1.0.8802.1.1.1.1.2.2.1.1)	read-only	Counter32	Standard MIB values.	Number of received EAPOL frames.	As per the MIB.
dot1xAuthEapolFramesTx (1.0.8802.1.1.1.1.2.2.1.2)	read-only	Counter32	Standard MIB values.	Number of sent EAPOL frames.	As per the MIB.
dot1xAuthEapolStartFramesRx (1.0.8802.1.1.1.1.2.2.1.3)	read-only	Counter32	Standard MIB values.	Number of received EAPOL-Start frames.	As per the MIB.
dot1xAuthEapolLogoffFramesRx (1.0.8802.1.1.1.1.2.2.1.4)	read-only	Counter32	Standard MIB values.	Number of received EAPOL-LogOff frames.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xAuthEapolRespIdFramesRx (1.0.8802.1.1.1.1.2.2.1.5)	read-only	Counter32	Standard MIB values.	Number of received EAP-Response/Id entity frames.	As per the MIB.
dot1xAuthEapolRespFramesRx (1.0.8802.1.1.1.1.2.2.1.6)	read-only	Counter32	Standard MIB values.	Number of received EAPOL-Response frames.	As per the MIB.
dot1xAuthEapolReqIdFramesTx (1.0.8802.1.1.1.1.2.2.1.7)	read-only	Counter32	Standard MIB values.	Number of sent EAP-Request/Id entity frames.	As per the MIB.
dot1xAuthEapolReqFramesTx (1.0.8802.1.1.1.1.2.2.1.8)	read-only	Counter32	Standard MIB values.	Number of sent EAPOL-Request frames.	As per the MIB.
dot1xAuthInvalidEapolFramesRx (1.0.8802.1.1.1.1.2.2.1.9)	read-only	Counter32	Standard MIB values.	Number of received invalid EAPOL frames.	As per the MIB.
dot1xAuthEapLengthErrorFramesRx (1.0.8802.1.1.1.1.2.2.1.10)	read-only	Counter32	Standard MIB values.	Number of received frames with invalid length.	Not supported.
dot1xAuthLastEapolFrameVersion (1.0.8802.1.1.1.1.2.2.1.11)	read-only	Unsigned32	Standard MIB values.	Protocol version number carried in the most recently received EAPOL frame.	As per the MIB.
dot1xAuthLastEapolFrameSource (1.0.8802.1.1.1.1.2.2.1.12)	read-only	MacAddress	OCTET STRING (6)	Source MAC address carried in the most recently received EAPOL frame.	Not supported.

dot1xAuthSessionStatsTable

About this table

Use this table to obtain 802.1X authentication session statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is dot1xAuthSessionUserName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot1xAuthSessionOctetsRx (1.0.8802.1.1.1.1.2.4.1.1)	read-only	Counter64	Standard MIB values.	Number of received octets.	As per the MIB.
dot1xAuthSessionOctetsTx (1.0.8802.1.1.1.1.2.4.1.2)	read-only	Counter64	Standard MIB values.	Number of sent octets.	As per the MIB.
dot1xAuthSessionFramesRx (1.0.8802.1.1.1.1.2.4.1.3)	read-only	Counter64	Standard MIB values.	Number of received frames.	As per the MIB.
dot1xAuthSessionFramesTx (1.0.8802.1.1.1.1.2.4.1.4)	read-only	Counter64	Standard MIB values.	Number of sent frames.	As per the MIB.
dot1xAuthSessionId (1.0.8802.1.1.1.1.2.4.1.5)	read-only	SnmpAdminString	OCTET STRING (0..65535)	Session ID.	As per the MIB.
dot1xAuthSessionAuthenticMethod (1.0.8802.1.1.1.1.2.4.1.6)	read-only	INTEGER	remoteAuthServer(1), localAuthServer(2)	Authentication method.	Not supported
dot1xAuthSessionTime (1.0.8802.1.1.1.1.2.4.1.7)	read-only	TimeTicks	Standard MIB values.	Session duration.	As per the MIB.
dot1xAuthSessionTerminateCause (1.0.8802.1.1.1.1.2.4.1.8)	read-only	INTEGER	supplicantLogoff(1), portFailure(2), supplicantRestart(3), reauthFailed(4), authControlForceUnauth(5), portReInit(6), portAdminDisabled(7), notTerminatedYet(999)	Session termination cause.	Not supported
dot1xAuthSessionUserName (1.0.8802.1.1.1.1.2.4.1.9)	read-only	SnmpAdminString	OCTET STRING (0..65535)	Session user name.	As per the MIB.

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IEEE8021-SECY-MIB

About this MIB

Use this MIB to manage MACsec.

MIB file name

ieee8021-secy.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).ieee8021SecyMIB(3)

Tabular objects

secyIfTable

About this table

Use this table to configure or obtain information about MACsec-enabled interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is secyIfInterfaceIndex.

Table OID: 1.0.8802.1.1.3.1.1.1.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyIfInterfaceIndex (1.0.8802.1.1.3.1.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	An interface index for a port with SecY management ability.	As per the MIB.
secyIfMaxPeerSCS (1.0.8802.1.1.3.1.1.2)	read-only	Unsigned32	Standard MIB values.	Maximum number of peer SCs that this SecY can support.	Not supported.
secyIfRxMaxKeys (1.0.8802.1.1.3.1.1.3)	read-only	Unsigned32	Standard MIB values.	Maximum number of keys in simultaneous use for reception that this SecY can support.	Not supported.
secyIfTxMaxKeys (1.0.8802.1.1.3.1.1.4)	read-only	Unsigned32	Standard MIB values.	Maximum number of keys in simultaneous use for transmission that this SecY can	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				support.	
secyIfProtectFramesEnable (1.0.8802.1.1.3.1.1.1.5)	read-write	TruthValue	true(1), false(2)	An object to enable or disable the protection function for egress frames.	Supports only the read operation.
secyIfValidateFrames (1.0.8802.1.1.3.1.1.1.6)	read-write	INTEGER	disabled(1), check(2), strict(3)	An object to control the validation function for ingress frames.	Default: strict.
secyIfReplayProtectEnable (1.0.8802.1.1.3.1.1.1.7)	read-write	TruthValue	true(1), false(2)	An object to enable or disable the replay protection function.	Supports only the read operation.
secyIfReplayProtectWindow (1.0.8802.1.1.3.1.1.1.8)	read-write	Unsigned32	Standard MIB values.	Replay protection window size, in frames.	Supports only the read operation.
secyIfCurrentCipherSuite (1.0.8802.1.1.3.1.1.1.9)	read-write	Unsigned32	Standard MIB values.	An object that points to an entry of the secyCipherSuiteTable with active row status to indicate the cipher suite that this SecY is currently using.	Not supported.
secyIfAdminPt2PtMAC (1.0.8802.1.1.3.1.1.1.10)	read-only	INTEGER	forceTrue(1), forceFalse(2), auto(3)	An object to control the service connectivity to at most one other system.	Not supported.
secyIfOperPt2PtMAC (1.0.8802.1.1.3.1.1.1.11)	read-only	TruthValue	true(1), false(2)	An object to reflect the current service connectivity status.	Not supported.
secyIfIncludeSCIEnable (1.0.8802.1.1.3.1.1.1.12)	read-write	TruthValue	true(1), false(2)	An object indicates whether to include the SCI information in security TAG (SecTAG) field while transmitting MACsec frames.	Not supported.
secyIfUseESEnable (1.0.8802.1.1.3.1.1.1.13)	read-write	TruthValue	true(1), false(2)	An object indicates whether to enable the ES bit in security TAG (SecTAG) field while transmitting MACsec frames.	Not supported.
secyIfUseSCBEnable (1.0.8802.1.1.3.1.1.1.14)	read-write	TruthValue	true(1), false(2)	An object indicates whether to enable the SCB bit in security TAG (SecTAG) field	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				while transmitting MACsec frames.	

secyTxSCTable

About this table

Use this table to obtain information about transmitting SCs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is secyIfInterfaceIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyTxSCI (1.0.8802.1.1.3.1.1.2.1.1)	read-only	SecySCI	OCTET STRING (0..65535)	SCI for transmitting MACsec frames of a transmitting SC in a SecY.	The read operation is returned a value only when MACsec is enabled on the port that holds the transmitting SC.
secyTxSCState (1.0.8802.1.1.3.1.1.2.1.2)	read-only	INTEGER	inUse(1), notInUse(2)	State of the current transmitting SC in the SecY.	Not supported.
secyTxSCEncodingSA (1.0.8802.1.1.3.1.1.2.1.3)	read-only	RowPointer	Standard MIB values.	Current transmitting SA in use.	The read operation is returned a value only when MACsec is enabled on the port that holds the transmitting SC.
secyTxSCEncipheringSA (1.0.8802.1.1.3.1.1.2.1.4)	read-only	RowPointer	Standard MIB values.	Previous transmitting SA in use.	The read operation is returned a value only when MACsec is enabled on the port that holds the transmitting SC.
secyTxSCCreatedTime (1.0.8802.1.1.3.1.1.2.1.5)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SC was created.	Not supported.
secyTxSCStartedTime (1.0.8802.1.1.3.1.1.2.1.6)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SC last started	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
1.2.1.6)				transmitting MACsec frames.	
secyTxSCStoppe dTime (1.0.8802.1.1.3.1. 1.2.1.7)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SC last stopped transmitting MACsec frames.	Not supported.

secyTXSATable

About this table

Use this table to obtain information about transmitting SAs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are secyIfInterfaceIndex and secyTxSA.

Table OID:1.0.8802.1.1.3.1.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyTxSA (1.0.8802.1.1.3.1. 1.3.1.1)	not-accessible	SecyAN	Unsigned32(0..42 94967295)	Association number (AN) for identifying a transmitting SA.	As per the MIB.
secyTxSAState (1.0.8802.1.1.3.1. 1.3.1.2)	read-only	INTEGER	inUse(1), notInUse(2)	Current status of the transmitting SA.	Not supported.
secyTxSANextPN (1.0.8802.1.1.3.1. 1.3.1.3)	read-only	Unsigned32	Unsigned32 (0..4294967295)	Next packet number (PN) that will be used in transmitting MACsec frames in the SA.	Supports only the read operation. The read operation is returned a value only when MACsec is enabled on the port that holds the transmitting SA.
secyTxSAConfide ntiality (1.0.8802.1.1.3.1. 1.3.1.4)	read-only	TruthValue	true(1), false(2)	Whether the SA supports the confidentiality as well as integrity function in transmitting frames.	Not supported.
secyTxSASAKUn changed	read-only	TruthValue	true(1),	A reference to an SAK that is	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.0.8802.1.1.3.1.1.3.1.5)			false(2)	unchanged for the life of the transmitting SA.	
secyTxSACreatedTime (1.0.8802.1.1.3.1.1.3.1.6)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SA was created.	Not supported.
secyTxSASStartedTime (1.0.8802.1.1.3.1.1.3.1.7)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SA last started transmitting MACsec frames.	Not supported.
SecyTxSASStoppedTime (1.0.8802.1.1.3.1.1.3.1.8)	read-only	TimeStamp	Standard MIB values.	System time when the transmitting SA last stopped transmitting MACsec frames.	Not supported.

secyRxSCTable

About this table

Use this table to obtain information about receiving SCs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are secyIfInterfaceIndex and secyRxSCI.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyRxSCI (1.0.8802.1.1.3.1.1.4.1.1)	not-accessible	SecySCI	OCTET STRING (0..65535)	SCI for identifying a receiving SC in a SecY.	As per the MIB.
secyRxSCState (1.0.8802.1.1.3.1.1.4.1.2)	read-only	INTEGER	inUse(1), notInUse(2)	State of the receiving SC in the SecY.	Not supported.
secyRxSCCurrentSA (1.0.8802.1.1.3.1.1.4.1.3)	read-only	RowPointer	Standard MIB values.	Current receiving association number of the SC in use.	The read operation is returned a value only when MACsec is enabled on the port that holds the receiving SC.
secyRxSCCreatedTime (1.0.8802.1.1.3.1.1.4.1.4)	read-only	TimeStamp	Standard MIB values.	System time when the receiving SC was created.	Not supported.
secyRxSCStartedTime	read-only	TimeStamp	Standard MIB	System time when the receiving SC	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.0.8802.1.1.3.1.1.4.1.5)			values.	last started receiving MACsec frames.	
secyRxSCStoppe dTime (1.0.8802.1.1.3.1.1.4.1.6)	read-only	TimeStamp	Standard MIB values.	System time when the receiving SC last stopped receiving MACsec frames.	Not supported.

secyRxSATable

About this table

Use this table to obtain information about receiving SAs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are secyIfInterfaceIndex and secyRxSCI.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyRxSA (1.0.8802.1.1.3.1.1.5.1.1)	not-accessible	SecyAN	Standard MIB values.	Association number (AN) for identifying a receiving SA.	As per the MIB.
secyRxSAState (1.0.8802.1.1.3.1.1.5.1.2)	read-only	INTEGER	inUse(1), notInUse(2)	Current state for the receiving SA.	Not supported.
secyRxSANextPN (1.0.8802.1.1.3.1.1.5.1.3)	read-write	Unsigned32	Standard MIB values.	Stored packet number (PN) for replay protection in the SA.	Supports only the read operation. The read operation is returned a value only when MACsec is enabled on the port that holds the receiving SA.
secyRxSASAKUn changed (1.0.8802.1.1.3.1.1.5.1.4)	read-only	TruthValue	true(1), false(2)	A reference to an SAK that is unchanged for the life of the receiving SA.	Not supported.
secyRxSACreated Time (1.0.8802.1.1.3.1.1.5.1.5)	read-only	TimeStamp	Standard MIB values.	System time when the receiving SA was created.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
secyRxSASStarted Time (1.0.8802.1.1.3.1. 1.5.1.6)	read-only	TimeStamp	Standard MIB values.	System time when the receiving SA last started receiving MACsec frames.	Not supported.
SecyRxSASStoppe dTime (1.0.8802.1.1.3.1. 1.5.1.7)	read-only	TimeStamp	Standard MIB values.	System time when the receiving SA last stopped receiving MACsec frames.	Not supported.

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IEEE8021X-PAE-MIB

About this MIB

This MIB manages the Port Access Entity (PAE) functions of IEEE 802.1X.

MIB file name

ieee8021x-pae.mib

Root object

iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).ieee8021XPaeMIB(15)

Tabular objects

ieee8021XPaePortTable

About this table

Use this table to configure or obtain system level information about each port supported by 802.1X PAE.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ieee8021XPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021XPaePortNumber (1.3.111.2.802.1.1.15.1.1.5.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	Port number.	As per the MIB.
ieee8021XPaePortCapabilities (1.3.111.2.802.1.1.15.1.1.5.1.7)	read-only	BITS	suplImplemented(0), authImplemented(1), mkalImplemented(2), macsecImplemented(3), announcementsImplemented(4), listenerImplemented(5), virtualPortsImple	Capabilities of the PAE port.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			mented(6)		
ieee8021XPaePortKayMkaEnable(1.3.111.2.802.1.1.5.1.1.5.1.16)	read-write	TruthValue	true(1), false(2)	Enables or disables the MACsec Key Agreement (MKA) protocol function in this PAE.	As per the MIB.

ieee8021XKayMkaTable

About this table

Use this table to manage or obtain information about each port supported by the Key Agreement Entity (KaY), a PAE entity responsible for MKA.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ieee8021XPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021XKayMkaActive(1.3.111.2.802.1.1.15.1.6.1.1.1)	read-only	TruthValue	true(1), false(2)	Whether an MKA active actor exists to transmit MKPDUs.	As per the MIB.
ieee8021XKayMkaAuthenticated(1.3.111.2.802.1.1.15.1.6.1.1.2)	read-only	TruthValue	true(1), false(2)	Whether the principal actor has determined that Controlled Port communication should proceed with MACsec.	As per the MIB.
ieee8021XKayMkaSecured(1.3.111.2.802.1.1.15.1.6.1.1.3)	read-only	TruthValue	true(1), false(2)	Whether the principal actor has determined that communication should use MACsec.	As per the MIB.
ieee8021XKayMkaFailed(1.3.111.2.802.1.1.15.1.6.1.1.4)	read-only	TruthValue	true(1), false(2)	Whether the MKA lifetime has elapsed.	As per the MIB.
ieee8021XKayMkaActorSCI(1.3.111.2.802.1.1.15.1.6.1.1.5)	read-only	SecySCI	OCTET STRING (0..65535)	Secure channel identifier (SCI) assigned by the system to the port.	As per the MIB.
ieee8021XKayMkaKeyServerPriority	read-write	ieee8021XMkaKeyServerPriority	OCTET STRING	Key server priority	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
aActorsPriority (1.3.111.2.802.1.1.15.1.6.1.1.6)		yServerPriority	(SIZE (1))	for all MKA actors on the port.	
ieee8021XKayMkaKeyServerPriority (1.3.111.2.802.1.1.15.1.6.1.1.7)	read-only	ieee8021XMkaKeyServerPriority	OCTET STRING (SIZE (1))	Priority of the elected key server.	Not supported.
ieee8021XKayMkaKeyServerSCI (1.3.111.2.802.1.1.15.1.6.1.1.8)	read-only	SecySCI	OCTET STRING (0..65535)	Key server SCI for the MKA principal actor.	As per the MIB.
ieee8021XKayAllowedJoinGroup (1.3.111.2.802.1.1.15.1.6.1.1.9)	read-only	TruthValue	true(1), false(2)	Whether the KaY accepts group connectivity association keys (CAKs) distributed by the MKA protocol.	Not supported.
ieee8021XKayAllowedFormGroup (1.3.111.2.802.1.1.15.1.6.1.1.10)	read-only	TruthValue	true(1), false(2)	Whether the KaY attempts to use point-to-point connectivity associations (CAs) to distribute a group CAK if the KaY's MKA principal actor is the key server for all the point-to-point CAs.	Not supported.
ieee8021XKayCreateNewGroup (1.3.111.2.802.1.1.15.1.6.1.1.11)	read-write	TruthValue	true(1), false(2)	Whether the KaY will distribute a new group CAK if the KaY's MKA principal actor is the key server for all the point-to-point CAs.	Not supported.
ieee8021XKayMacSecCapability (1.3.111.2.802.1.1.15.1.6.1.1.12)	read-only	INTEGER	noMACsec(0), macSecCapability 1(1), macSecCapability 2(2), macSecCapability 3(3)	Whether to implement MACsec and the MACsec capabilities.	As per the MIB.
ieee8021XKayMacSecDesired (1.3.111.2.802.1.1.15.1.6.1.1.13)	read-write	TruthValue	true(1), false(2)	Whether the MKA participants desire the use of MACsec to protect frames with this KaY.	As per the MIB.
ieee8021XKayMacSecProtect (1.3.111.2.802.1.1.15.1.6.1.1.14)	read-only	TruthValue	true(1), false(2)	Status of the MACsec protection function for this KaY.	Not supported.
ieee8021XKayMacSecReplayProtect	read-only	TruthValue	true(1), false(2)	Status of the MACsec replay	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
t (1.3.111.2.802.1.1 .15.1.6.1.1.15)				protection function for this KaY.	
ieee8021XKayMa cSecValidate (1.3.111.2.802.1.1 .15.1.6.1.1.16)	read-only	TruthValue	true(1), false(2)	Status of the MACsec validation function for this KaY.	Not supported.
ieee8021XKayMa cSecConfidentialit yOffset (1.3.111.2.802.1.1 .15.1.6.1.1.17)	read-write	Integer32	Integer32 (0 30 50)	Confidentiality protection offset options for the selected cipher suite in the MACsec.	Not supported.
ieee8021XKayMk aTxKN (1.3.111.2.802.1.1 .15.1.6.1.1.18)	read-only	ieee8021XMkaKN	Unsigned32 (1..2147483648)	Key number assigned by the key server to the secure association key (SAK) currently being used for transmission.	Not supported.
ieee8021XKayMk aTxAN (1.3.111.2.802.1.1 .15.1.6.1.1.19)	read-only	RowPointer	Standard MIB values.	Secure channel (SC) SA number (AN) assigned by the key server for use with the key number for transmission.	Not supported.
ieee8021XKayMk aRxKN (1.3.111.2.802.1.1 .15.1.6.1.1.20)	read-only	ieee8021XMkaKN	Unsigned32 (1..2147483648)	Key number assigned by the key server to the oldest SAK currently being used for reception.	Not supported.
ieee8021XKayMk aRxAN (1.3.111.2.802.1.1 .15.1.6.1.1.21)	read-only	RowPointer	Standard MIB values.	SC AN assigned by the key server for use with the key number for reception.	Not supported.

ieee8021XKayMkaPeerListTable

About this table

Use this table to obtain information about the MKA peer list for a KaY.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ieee8021XPaePortNumber.

Object (OID)	Access	Syntax	Value range	Description	Implementation
ieee8021XKayMk aPeerListMI (1.3.111.2.802.1.1 .15.1.6.3.1.1)	not-accessible	ieee8021XMkaMI	OCTET STRING (SIZE (12))	MI information of a peer entry in the peer list of this active participant in the MKA protocol.	As per the MIB.
ieee8021XKayMk aPeerListMN (1.3.111.2.802.1.1 .15.1.6.3.1.2)	read-only	ieee8021XMkaM N	Unsigned32 (1..2147483648)	Latest MN information of the peer entry in the peer list of this active participant in the MKA protocol.	As per the MIB.
ieee8021XKayMk aPeerListType (1.3.111.2.802.1.1 .15.1.6.3.1.3)	read-only	INTEGER	livePeerList(1), potentialPeerList(2)	Type of the peer entry in the peer list of this active participant in the MKA protocol.	As per the MIB.
ieee8021XKayMk aPeerListSCI (1.3.111.2.802.1.1 .15.1.6.3.1.4)	read-only	SecySCI	OCTET STRING (0..65535)	SCI information of the peer entry in the peer list of this active participant in the MKA protocol.	As per the MIB.

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RADIUS-ACC-CLIENT-MIB

About this MIB

Use this MIB to collect statistics about accounting packets of different types that a RADIUS client receives from RADIUS servers.

MIB file name

radius-acc-client.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).radiusMIB(67).radiusAccounting(2).radiusAccClientMIB(2)

Scalar objects

radiusAccClient

Object (OID)	Access	Syntax	Value range	Description	Implementation
radiusAccClientInvalidServerAddresses (1.3.6.1.2.1.67.2.2.1.1.1)	read-only	Counter32	Standard MIB values.	Number of unrecognizable IP addresses of accounting servers.	As per the MIB.
radiusAccClientIdentifier (1.3.6.1.2.1.67.2.2.1.1.2)	read-only	SnmpAdminString	OCTET STRING (SIZE (0..255))	ID of a client.	As per the MIB.

Tabular objects

radiusAccServerTable

About this table

This table contains the statistics about accounting packets that a RADIUS client receives from a RADIUS server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is radiusAccServerIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
radiusAccServerIndex	not-accessible	Integer32	1..2147483647	Index of an	As per the MIB.

dex (1.3.6.1.2.1.67.2.2.1.1.3.1.1)				accounting server.	
radiusAccServerAddress (1.3.6.1.2.1.67.2.2.1.1.3.1.2)	read-only	IpAddress	Standard MIB values.	IP address of the accounting server.	As per the MIB.
radiusAccClientServerPortNumber (1.3.6.1.2.1.67.2.2.1.1.3.1.3)	read-only	Integer32	0..65535	Port number of the accounting server.	As per the MIB.
radiusAccClientRoundTripTime (1.3.6.1.2.1.67.2.2.1.1.3.1.4)	read-only	TimeTicks	TimeTick	Round trip time.	As per the MIB.
radiusAccClientRequests (1.3.6.1.2.1.67.2.2.1.1.3.1.5)	read-only	Counter32	Standard MIB values.	Number of accounting requests sent to the server.	As per the MIB.
radiusAccClientRetransmissions (1.3.6.1.2.1.67.2.2.1.1.3.1.6)	read-only	Counter32	Standard MIB values.	Number of accounting requests retransmitted.	As per the MIB.
radiusAccClientResponses (1.3.6.1.2.1.67.2.2.1.1.3.1.7)	read-only	Counter32	Standard MIB values.	Number of accounting responses received.	As per the MIB.
radiusAccClientMalformedResponses (1.3.6.1.2.1.67.2.2.1.1.3.1.8)	read-only	Counter32	Standard MIB values.	Number of malformed accounting responses received.	As per the MIB.
radiusAccClientBadAuthenticators (1.3.6.1.2.1.67.2.2.1.1.3.1.9)	read-only	Counter32	Standard MIB values.	Number of Access-Reject packets received.	As per the MIB.
radiusAccClientPendingRequests (1.3.6.1.2.1.67.2.2.1.1.3.1.10)	read-only	Gauge32	Standard MIB values.	Number of pending authentication requests.	As per the MIB.
radiusAccClientTimeouts (1.3.6.1.2.1.67.2.2.1.1.3.1.11)	read-only	Counter32	Standard MIB values.	Number of timed out accounting requests.	As per the MIB.
radiusAccClientUnknownTypes (1.3.6.1.2.1.67.2.2.1.1.3.1.12)	read-only	Counter32	Standard MIB values.	Number of packets with unknown types.	As per the MIB.
radiusAccClientPacketsDropped (1.3.6.1.2.1.67.2.2.1.1.3.1.13)	read-only	Counter32	Standard MIB values.	Number of packets discarded.	As per the MIB.

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RADIUS-AUTH-CLIENT-MIB

About this MIB

Use this MIB to collect statistics about authentication packets of different types that a RADIUS client receives from RADIUS servers.

MIB file name

radius-auth-client.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).radiusMIB(67).radiusAuthentication(1).radiusAuthClientMIB(2)

Scalar objects

radiusAuthClient

Object (OID)	Access	Syntax	Value range	Description	Implementation
radiusAuthClientInvalidServerAddresses (1.3.6.1.2.1.67.1.2.1.1.1)	read-only	Counter32	Standard MIB values.	Number of unrecognizable IP addresses of authentication servers.	As per the MIB.
radiusAuthClientIdentifier (1.3.6.1.2.1.67.1.2.1.1.2)	read-only	SnmpAdminString	OCTET STRING (SIZE (0..255))	ID of a client.	As per the MIB.

Tabular objects

radiusAuthServerTable

About this table

This table contains the statistics about authentication packets that a RADIUS client receives from a RADIUS server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is radiusAuthServerIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
radiusAuthServerIndex (1.3.6.1.2.1.67.1.2.1.1.3.1.1)	not-accessible	Integer32	1..2147483647	Index of an authentication server.	As per the MIB.
radiusAuthServerAddress (1.3.6.1.2.1.67.1.2.1.1.3.1.2)	read-only	IpAddress	Standard MIB values.	IP address of the authentication server.	As per the MIB.
radiusAuthServerPortNumber (1.3.6.1.2.1.67.1.2.1.1.3.1.3)	read-only	Integer32	0..65535	Port number of the authentication server.	As per the MIB.
radiusAuthClientRoundTripTime (1.3.6.1.2.1.67.1.2.1.1.3.1.4)	read-only	TimeTicks	TimeTick	Round trip time.	As per the MIB.
radiusAuthClientAccessRequests (1.3.6.1.2.1.67.1.2.1.1.3.1.5)	read-only	Counter32	Standard MIB values.	Number of access requests sent to the server.	As per the MIB.
radiusAuthClientAccessRetransmissions (1.3.6.1.2.1.67.1.2.1.1.3.1.6)	read-only	Counter32	Standard MIB values.	Number of access requests retransmitted.	As per the MIB.
radiusAuthClientAccessAccepts (1.3.6.1.2.1.67.1.2.1.1.3.1.7)	read-only	Counter32	Standard MIB values.	Number of Access-Accept packets received.	As per the MIB.
radiusAuthClientAccessRejects (1.3.6.1.2.1.67.1.2.1.1.3.1.8)	read-only	Counter32	Standard MIB values.	Number of Access-Reject packets received.	As per the MIB.
radiusAuthClientAccessChallenges (1.3.6.1.2.1.67.1.2.1.1.3.1.9)	read-only	Counter32	Standard MIB values.	Number of Access-Challenge packets received.	As per the MIB.
radiusAuthClientMalformedAccessResponses (1.3.6.1.2.1.67.1.2.1.1.3.1.10)	read-only	Counter32	Standard MIB values.	Number of malformed access responses received.	As per the MIB.
radiusAuthClientBadAuthenticators (1.3.6.1.2.1.67.1.2.1.1.3.1.11)	read-only	Counter32	Standard MIB values.	Number of bad authenticators.	As per the MIB.
radiusAuthClientPendingRequests (1.3.6.1.2.1.67.1.2.1.1.3.1.12)	read-only	Gauge32	Standard MIB values.	Number of pending authentication requests.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
radiusAuthClientTimeouts (1.3.6.1.2.1.67.1.2.1.1.3.1.13)	read-only	Counter32	Standard MIB values.	Number of timed out access requests.	As per the MIB.
radiusAuthClientUnknownTypes (1.3.6.1.2.1.67.1.2.1.1.3.1.14)	read-only	Counter32	Standard MIB values.	Number of packets with unknown types.	As per the MIB.
radiusAuthClientPacketsDropped (1.3.6.1.2.1.67.1.2.1.1.3.1.15)	read-only	Counter32	Standard MIB values.	Number of packets discarded.	As per the MIB.

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HH3C-IKE-MONITOR-MIB

About this MIB

Use this MIB to obtain IKE monitor information, including IKE tunnel, IKE trap, and IKE MIB version information.

MIB file name

hh3c-ike-monitor.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cIKEMonitor(30)

Scalar objects

hh3cIKEGlobalActiveTunnels

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalActiveTunnels (1.3.6.1.4.1.25506.2.30.1.3.1)	read-only	Gauge32	Gauge32 (0..4294967295)	Number of currently active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInOctets

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInOctets (1.3.6.1.4.1.25506.2.30.1.3.2)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets received by all currently and previously active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInPkts

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInPkts (1.3.6.1.4.1.25506.2.30.1.3.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets received by all currently and previously active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInDropPkts

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInDropPkts (1.3.6.1.4.1.25506.2.30.1.3.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets dropped by all currently and previously active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInP2Exchgs

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInP2Exchgs (1.3.6.1.4.1.25506.2.30.1.3.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges received by all currently and previously active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInP2ExchgRejects

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInP2ExchgRejects (1.3.6.1.4.1.25506.2.30.1.3.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges received and rejected by all currently and previously active Phase-1 IKE Tunnels.	As per the MIB.

hh3cIKEGlobalInP2SaDelRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInP2SaDelRequests (1.3.6.1.4.1.25506.2.30.1.3.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 SA deletion requests received by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalInNotifys

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInNotifys (1.3.6.1.4.1.25506.2.30.1.3.8)	read-only	Counter32	Counter32 (0..4294967295)	Total number of notifications received by all Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutOctets

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutOctets (1.3.6.1.4.1.25506.2.30.1.3.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets sent by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutPkts

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutPkts (1.3.6.1.4.1.25506.2.30.1.3.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets sent by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutDropPkts

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutDropPkts (1.3.6.1.4.1.25506.2.30.1.3.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets dropped by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutP2Exchgs

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutP2Exchgs (1.3.6.1.4.1.25506.2.30.1.3.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges sent by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutP2ExchgRejects

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutP2ExchgRejects (1.3.6.1.4.1.25506.2.30.1.3.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges sent and rejected by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutP2SaDelRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutP2SaDelRequests (1.3.6.1.4.1.25506.2.30.1.3.14)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 SA deletion requests sent by all currently and previously active Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalOutNotifys

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalOutNotifys (1.3.6.1.4.1.25506.2.30.1.3.15)	read-only	Counter32	Counter32 (0..4294967295)	Total number of notifications sent by all Phase-1 IKE tunnels.	As per the MIB.

hh3cIKEGlobalInitTunnels

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInitTunnels (1.3.6.1.4.1.2550 6.2.30.1.3.16)	read-only	Counter32	Counter32 (0..4294967295)	Total number of locally initiated IKE tunnels.	As per the MIB.

hh3cIKEGlobalInitTunnelFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInitTunnelFails (1.3.6.1.4.1.2550 6.2.30.1.3.17)	read-only	Counter32	Counter32 (0..4294967295)	Total number of IKE tunnels that were locally initiated but failed to activate.	As per the MIB.

hh3cIKEGlobalRespTunnels

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalRespTunnels (1.3.6.1.4.1.2550 6.2.30.1.3.18)	read-only	Counter32	Counter32 (0..4294967295)	Total number of IKE tunnels that were remotely initiated.	As per the MIB.

hh3cIKEGlobalRespTunnelFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalRespTunnelFails (1.3.6.1.4.1.2550 6.2.30.1.3.19)	read-only	Counter32	Counter32 (0..4294967295)	Total number of IKE tunnels that were remotely initiated but failed to activate.	As per the MIB.

hh3cIKEGlobalAuthFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalAuthFails (1.3.6.1.4.1.2550 6.2.30.1.3.20)	read-only	Counter32	Counter32 (0..4294967295)	Number of IKE authentication failures.	As per the MIB.

hh3cIKEGlobalNoSaFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalNoSaFails (1.3.6.1.4.1.2550 6.2.30.1.3.21)	read-only	Counter32	Counter32 (0..4294967295)	Number of Phase-2 SA deletion failures because of nonexistent Phase-1 SAs.	As per the MIB.

hh3cIKEGlobalInvalidCookieFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInvalidCookieFails (1.3.6.1.4.1.2550 6.2.30.1.3.22)	read-only	Counter32	Counter32 (0..4294967295)	Number of invalid cookie failures occurred during packet header checking.	As per the MIB.

hh3cIKEGlobalAttrNotSuppFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalAttrNotSuppFails (1.3.6.1.4.1.2550 6.2.30.1.3.23)	read-only	Counter32	Counter32 (0..4294967295)	Number of attributes-not-supported failures occurred during packet Transform payload checking.	Not supported

hh3cIKEGlobalNoProposalChosenFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalNoProposalChosenFails (1.3.6.1.4.1.2550 6.2.30.1.3.24)	read-only	Counter32	Counter32 (0..4294967295)	Number of no proposal chosen failures occurred during the packet Proposal payload checking.	As per the MIB.

hh3cIKEGlobalUnsportExchTypeFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
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hh3cIKEGlobalUnsportExchTypeFails (1.3.6.1.4.1.25506.2.30.1.3.25)	read-only	Counter32	Counter32 (0..4294967295)	Number of packet drops caused by unsupported exchange type.	As per the MIB.
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hh3cIKEGlobalInvalidIdFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInvalidIdFails (1.3.6.1.4.1.25506.2.30.1.3.26)	read-only	Counter32	Counter32 (0..4294967295)	Number of invalid ID failures occurred during the packet ID payload checking.	As per the MIB.

hh3cIKEGlobalInvalidProFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInvalidProFails (1.3.6.1.4.1.25506.2.30.1.3.27)	read-only	Counter32	Counter32 (0..4294967295)	Number of invalid Protocol ID failures occurred during the packet Proposal payload checking.	As per the MIB.

hh3cIKEGlobalCertTypeUnsuppFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalCertTypeUnsuppFails (1.3.6.1.4.1.25506.2.30.1.3.28)	read-only	Counter32	Counter32 (0..4294967295)	Number of certificate type unsupported failures occurred during the packet ID payload checking.	As per the MIB.

hh3cIKEGlobalInvalidCertAuthFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInvalidCertAuthFails (1.3.6.1.4.1.25506.2.30.1.3.29)	read-only	Counter32	Counter32 (0..4294967295)	Number of invalid CA failures occurred during the packet ID payload	Not supported

				checking.	
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hh3cIKEGlobalInvalidSignFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalInvalidSignFails (1.3.6.1.4.1.25506.2.30.1.3.30)	read-only	Counter32	Counter32 (0..4294967295)	Number of invalid signature failures occurred during the packet HASH payload checking.	Not supported

hh3cIKEGlobalCertUnavailableFails

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEGlobalCertUnavailableFails (1.3.6.1.4.1.25506.2.30.1.3.31)	read-only	Counter32	Counter32 (0..4294967295)	Number of certificate unavailable failures occurred during the packet ID payload checking.	As per the MIB.

hh3cKETrapGlobalCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cKETrapGlobalCntl (1.3.6.1.4.1.25506.2.30.1.5.1)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable trap notifications for IKE events globally.	As per the MIB.

hh3cKETunnelStartTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cKETunnelStartTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.2)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cKETunnelStart trap notifications.	As per the MIB.

hh3cIKETunnelStopTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKETunnelStopTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.3)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKETunnelStop trap notifications.	As per the MIB.

hh3cIKENoSaTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKENoSaTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.4)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKENoSa trap notifications.	As per the MIB.

hh3cIKEEncryFailureTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEEncryFailureTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.5)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEEncryFailure trap notifications.	As per the MIB.

hh3cIKEDecryFailureTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEDecryFailureTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.6)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEDecryFailure trap notifications.	As per the MIB.

hh3cIKEInvalidProposalTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidProposalTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.7)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidProposal trap notifications.	As per the MIB.

hh3cIKEAuthFailTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEAuthFailTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.8)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEAuthFail trap notifications.	As per the MIB.

hh3cIKEInvalidCookieTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidCookieTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.9)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidCookie trap notifications.	As per the MIB.

hh3cIKEInvalidSpiTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidSpiTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.10)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidSpi trap notifications.	As per the MIB.

hh3cIKEAttrNotSuppTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEAttrNotSuppTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.11)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEAttrNotSupp trap notifications.	As per the MIB.

hh3cIKEUnsportExchTypeTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEUnsportExchTypeTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.12)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEUnsportExchType trap notifications.	As per the MIB.

6.2.30.1.5.12)				ntl trap notifications.	
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hh3cIKEInvalidIdTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidIdTrapCntl (1.3.6.1.4.1.2550 6.2.30.1.5.13)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidId trap notifications.	As per the MIB.

hh3cIKEInvalidProtocolTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidProtocolTrapCntl (1.3.6.1.4.1.2550 6.2.30.1.5.14)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidProtocol trap notifications.	As per the MIB.

hh3cKECertTypeUnsuppTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cKECertTypeUnsuppTrapCntl (1.3.6.1.4.1.2550 6.2.30.1.5.15)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cKECertTypeUnsupp trap notifications.	As per the MIB.

hh3cIKEInvalidCertAuthTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEInvalidCertAuthTrapCntl (1.3.6.1.4.1.2550 6.2.30.1.5.16)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIKEInvalidCertAuth trap notifications.	As per the MIB.

hh3cIKEInvalidSignTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
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hh3cIkeInvalidSignTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.17)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIkeInvalidSign trap notifications.	As per the MIB.
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hh3cIkeCertUnavailableTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIkeCertUnavailableTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.18)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIkeCertUnavailable trap notifications.	As per the MIB.

hh3cIkeProposalAddTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIkeProposalAddTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.19)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIkeProposalAdd trap notifications.	As per the MIB.

hh3cIkeProposalDelTrapCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIkeProposalDelTrapCntl (1.3.6.1.4.1.25506.2.30.1.5.20)	read-write	Hh3cTrapStatus	Integer32 (1,2)	Whether to enable hh3cIkeProposalDel trap notifications.	As per the MIB.

hh3cIkeProposalNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIkeProposalNumber (1.3.6.1.4.1.25506.2.30.1.4.1)	accessible-for-notification	Integer32	Integer32 (0..2147483647)	Number of an IKE proposal in a trap notification.	As per the MIB.

hh3cIkeProposalSize

Object (OID)	Access	Syntax	Value range	Description	Implementation
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hh3cIKEPropo lSize (1.3.6.1.4.1.2550 6.2.30.1.4.2)	accessible-for-no tify	Integer32	Integer32 (0..2147483647)	Number of IKE proposals in a trap notification.	As per the MIB.
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hh3cIKEIdInformation

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEIdInfor mation (1.3.6.1.4.1.2550 6.2.30.1.4.3)	accessible-for-no tify	DisplayString	OCTET STRING (1..255)	ID information in a trap notification.	As per the MIB.

hh3cIKEProtocolNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEProtocol Num (1.3.6.1.4.1.2550 6.2.30.1.4.4)	accessible-for-no tify	Integer32	Integer32 (0..2147483647)	Protocol number in a trap notification.	As per the MIB.

hh3cIKECertInformation

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKECertInfor mation (1.3.6.1.4.1.2550 6.2.30.1.4.5)	accessible-for-no tify	DisplayString	OCTET STRING (1..255)	Certificate information in a trap notification.	As per the MIB.

hh3cIKEMIBVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIKEMIBVers ion (1.3.6.1.4.1.2550 6.2.30.1.7.1)	read-only	DisplayString	OCTET STRING (1..255)	Version information of the IKE MIB.	As per the MIB.

Tabular objects

hh3clKETunnelTable

About this table

This table contains IKE tunnel information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clKETunIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clKETunIndex (1.3.6.1.4.1.25506.2.30.1.1.1.1)	accessible-for-no tify	Integer32	Integer32 (1..2147483647)	Index of a tunnel.	As per the MIB.
hh3clKETunLocalType (1.3.6.1.4.1.25506.2.30.1.1.1.2)	read-only	Hh3clKEIDType	Integer32 (0..11)	Type of the local ID of the tunnel.	As per the MIB.
hh3clKETunLocalValue1 (1.3.6.1.4.1.25506.2.30.1.1.1.3)	read-only	Display String	OCTET STRING (1..255)	Value of the local ID of the tunnel.	For a local ID that exceeds 255 bytes, this object displays only the first 255 bytes of information. The complete ID information is displayed by hh3clKETunLocalValue3.
hh3clKETunLocalValue2 (1.3.6.1.4.1.25506.2.30.1.1.1.4)	read-only	Display String	OCTET STRING (1..255)	The second specification of the local end's IP address.	Not supported
hh3clKETunLocalAddr (1.3.6.1.4.1.25506.2.30.1.1.1.5)	read-only	IP address	IP address	IP address of the tunnel local end.	Replaced by hh3clKETunLocalInetAddr.
hh3clKETunRemoteType (1.3.6.1.4.1.25506.2.30.1.1.1.6)	read-only	Hh3clKEIDType	Integer32 (0..11)	Type of the remote ID of the tunnel.	As per the MIB.
hh3clKETunRemoteValue1 (1.3.6.1.4.1.25506.2.30.1.1.1.7)	read-only	DisplayString	OCTET STRING (1..255)	Value of the remote ID of the tunnel.	For a remote ID that exceeds 255 bytes, this object displays only the

					first 255 bytes of information. The complete ID information is displayed by hh3cIKETunRemoteValue3.
hh3cIKETunRemoteValue2 (1.3.6.1.4.1.25506.2.30.1.1.1.8)	read-only	DisplayString	OCTET STRING (1..255)	The second specification of the remote end's IP address.	Not supported
hh3cIKETunRemoteAddr (1.3.6.1.4.1.25506.2.30.1.1.1.9)	read-only	IpAddress	OCTET STRING (4)	IP address of the tunnel remote end.	Replaced by hh3cIKETunRemoteIpnAddr.
hh3cIKETunInitiator (1.3.6.1.4.1.25506.2.30.1.1.1.10)	read-only	INTEGER	Integer32 (1,2)	Initiator of the tunnel.	As per the MIB.
hh3cIKETunNegotMode (1.3.6.1.4.1.25506.2.30.1.1.1.11)	read-only	Hh3cIKENegotMode	Integer32 (2,4,32,128)	Negotiation mode of the IKE tunnel.	As per the MIB.
hh3cIKETunDiffHellmanGrp (1.3.6.1.4.1.25506.2.30.1.1.1.12)	read-only	Hh3cDiffHellmanGrp	Integer32 (0,1,2,5,14,24,2147483647)	DH group used in IKE Phase-1 negotiations.	As per the MIB.
hh3cIKETunEncryptAlgo (1.3.6.1.4.1.25506.2.30.1.1.1.13)	read-only	Hh3cEncryptAlgo	Integer32(0..14,128..131,2147483647)	Encryption algorithm used in IKE Phase-1 negotiations.	As per the MIB.
hh3cIKETunHashAlgo (1.3.6.1.4.1.25506.2.30.1.1.1.14)	read-only	Hh3cAuthAlgo	Integer32(0..5,128,2147483647)	Hash algorithm used in IKE Phase-1 negotiations.	As per the MIB.
hh3cIKETunAuthMethod (1.3.6.1.4.1.25506.2.30.1.1.1.15)	read-only	Hh3cIKEAuthMethod	Integer32(0..3,5,6)	Authentication method used in IKE Phase-1 negotiations.	As per the MIB.
hh3cIKETunLifetime (1.3.6.1.4.1.25506.2.30.1.1.1.16)	read-only	Integer32	Integer32(1..2147483647)	Negotiated lifetime of the IKE tunnel.	Range from 1 to 2147483647
hh3cIKETunActiveTime (1.3.6.1.4.1.25506.2.30.1.1.1.17)	read-only	Integer32	Integer32(1..2147483648)	Active period of time of the IKE tunnel.	Range from 1 to 2147483647
hh3cIKETunRemainTime (1.3.6.1.4.1.25506.2.30.1.1.1.18)	read-only	Integer32	Integer32(1..2147483649)	Remaining lifetime of the IKE tunnel.	Range from 1 to 2147483647
hh3cIKETunTotalRefreshes (1.3.6.1.4.1.25506.2.30.1.1.1.19)	read-only	Counter32	Counter32 (0..4294967295)	Total number of IKE SA	As per the MIB.

6.2.30.1.1.1.19)				refreshes.	
hh3clKETunState (1.3.6.1.4.1.2550 6.2.30.1.1.1.20)	read-only	Hh3clKETunnelState	Integer32(1,2)	State of the IKE tunnel.	As per the MIB.
hh3clKETunDpdIntervalTime (1.3.6.1.4.1.2550 6.2.30.1.1.1.21)	read-only	Integer32	Integer32(1..2147483647)	Interval for sending DPD requests.	Not supported
hh3clKETunDpdTimeout (1.3.6.1.4.1.2550 6.2.30.1.1.1.22)	read-only	Integer32	Integer32(1..2147483648)	Timeout time of a DPD request.	Not supported
hh3clKETunLocalInetAddressType (1.3.6.1.4.1.2550 6.2.30.1.1.1.23)	read-only	InetAddressType	Integer32(1,2)	IP address type of the tunnel local end.	As per the MIB.
hh3clKETunLocalInetAddress (1.3.6.1.4.1.2550 6.2.30.1.1.1.24)	read-only	InetAddress	OCTET STRING (4)	IP address of the tunnel local end.	As per the MIB.
hh3clKETunRemoteInetAddressType (1.3.6.1.4.1.2550 6.2.30.1.1.1.25)	read-only	InetAddressType	Integer32(1,2)	IP address type of the tunnel remote end.	As per the MIB.
hh3clKETunRemoteInetAddress (1.3.6.1.4.1.2550 6.2.30.1.1.1.26)	read-only	InetAddress	OCTET STRING (4)	IP address of the tunnel remote end.	As per the MIB.

hh3clKETunnelStatTable

About this table

This table contains IKE tunnel packet statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3clKETunIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3clKETunInOctets (1.3.6.1.4.1.2550 6.2.30.1.2.1.1)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets received by the tunnel.	As per the MIB.
hh3clKETunInPackets	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets received	As per the MIB.

(1.3.6.1.4.1.25506.2.30.1.2.1.2)			709551615)	by the tunnel.	
hh3clKETunInDropPkts (1.3.6.1.4.1.25506.2.30.1.2.1.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets dropped by the tunnel.	As per the MIB.
hh3clKETunInP2Exchgs (1.3.6.1.4.1.25506.2.30.1.2.1.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges received by the tunnel.	As per the MIB.
hh3clKETunInP2ExchgRejets (1.3.6.1.4.1.25506.2.30.1.2.1.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound Phase-2 exchanges dropped by the tunnel.	As per the MIB.
hh3clKETunInP2SaDelRequests (1.3.6.1.4.1.25506.2.30.1.2.1.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of requests received by the tunnel for deleting Phase-2 exchanges.	As per the MIB.
hh3clKETunInP1SaDelRequests (1.3.6.1.4.1.25506.2.30.1.2.1.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of requests received by the tunnel for deleting Phase-1 SAs.	As per the MIB.
hh3clKETunInNotifys (1.3.6.1.4.1.25506.2.30.1.2.1.8)	read-only	Counter32	Counter32 (0..4294967295)	Total number of notifications received by the tunnel.	As per the MIB.
hh3clKETunOutOctets (1.3.6.1.4.1.25506.2.30.1.2.1.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets sent by the tunnel.	As per the MIB.
hh3clKETunOutPkts (1.3.6.1.4.1.25506.2.30.1.2.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets sent by the tunnel.	As per the MIB.
hh3clKETunOutDropPkts (1.3.6.1.4.1.25506.2.30.1.2.1.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets dropped by the tunnel.	As per the MIB.
hh3clKETunOutP2Exchgs (1.3.6.1.4.1.25506.2.30.1.2.1.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges sent by the tunnel.	As per the MIB.
hh3clKETunOutP2ExchgRejets (1.3.6.1.4.1.25506.2.30.1.2.1.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of Phase-2 exchanges sent and rejected by the tunnel.	As per the MIB.

hh3cIKETunOutP2SaDelRequests (1.3.6.1.4.1.25506.2.30.1.2.1.14)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of requests sent by the tunnel for deleting Phase-2 SAs.	As per the MIB.
hh3cIKETunOutP1SaDelRequests (1.3.6.1.4.1.25506.2.30.1.2.1.15)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of requests sent by the tunnel for deleting Phase-1 SAs.	As per the MIB.
hh3cIKETunOutNotifys (1.3.6.1.4.1.25506.2.30.1.2.1.16)	read-only	Counter32	Counter32 (0..4294967295)	Total number of notifications sent by the tunnel.	As per the MIB.

Notifications

The following information describes the notifications generated by HH3C-IKE-MONITOR-MIB.

hh3cIKETunnelStart

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.1	IKE tunnel created.	Informational	-	-	OFF

Description

This notification is generated when an IKE tunnel is created.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike tunnel-start` command.
- MIB: Set hh3cIKETunnelStartTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike tunnel-start` command
- MIB: Set hh3cIKETunnelStartTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote	No	IpAddress	Standard MIB values.

	end.			
1.3.6.1.4.1.25506.2.30.1.1.1.16 (hh3cIKETunLifeTime)	Lifetime of the IKE tunnel.	No	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKETunnelStop

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.2	IKE tunnel deleted.	Informational	-	-	OFF

Description

This notification is generated when an IKE tunnel is deleted.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike tunnel-stop` command
- MIB: Set hh3cIKETunnelStopTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike tunnel-stop` command
- MIB: Set hh3cIKETunnelStopTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.

1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.17 (hh3cIKETunActiveTime)	Active period of time of the tunnel.	No	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKENoSaFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.3	IKE tunnel received nonexistent SA.	Informational	-	-	OFF

Description

This notification is generated when an IKE tunnel receives a nonexistent SA.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike no-sa-failure` command.
- MIB: Set hh3cIKENoSaTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike no-sa-failure` command.
- MIB: Set hh3cIKENoSaTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEEncryFailFailure**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.4	IKE tunnel encryption failure.	Informational	-	-	OFF

Description

This notification is generated when an IKE tunnel has an encryption failure.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ike encrypt-failure` command.
- MIB: Set hh3cIKEEncryFailureTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike encrypt-failure` command.
- MIB: Set hh3cIKEEncryFailureTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEDecryFailFailure**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.5	IKE tunnel decryption failure.	Informational	-	-	OFF

Description

This notification is generated when an IKE tunnel has a decryption failure.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ike decrypt-failure` command.
- MIB: Set hh3cIKEDecryFailureTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike decrypt-failure` command.
- MIB: Set hh3cIKEDecryFailureTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEInvalidProposalFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.6	Invalid proposal received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an invalid proposal is received during an IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike invalid-proposal` command.
- MIB: SET hh3cIKEInvalidProposalTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-proposal` command.
- MIB: SET hh3cIKEInvalidProposalTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKEtunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKEtunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKEtunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKEtunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKEtunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKEtunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKEtunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEAuthFailFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.7	IKE Phase-1 authentication failure.	Informational	-	-	OFF

Description

This notification is generated when the IKE Phase-1 authentication fails.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike auth-failure` command.
- MIB: Set hh3cIKEAuthFailTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike auth-failure` command.
- MIB: Set hh3cIKEAuthFailTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKEtunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKEtunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKEtunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKEtunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKEtunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKEtunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKEtunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEInvalidCookieFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.8	Invalid cookie received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an invalid cookie is received during an IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike invalid-cookie` command.
- MIB: Set hh3cIKEInvalidCookieTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-cookie` command.

- MIB: Set hh3cIkeInvalidCookieTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIkeTunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIkeTunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIkeTunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIkeTunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIkeTunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIkeTunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIkeTunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIkeAttrNotSuppFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.9	Attributes not supported received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an unsupported attribute is received during IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike attr-not-support` command.
- MIB: Set hh3cIkeAttrNotSuppTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike attr-not-support` command.
- MIB: Set `hh3cIKEAttrNotSuppTrapCntl` to `disabled(2)`.

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEUnsportExchTypeFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.10	Unsupported exchange type received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an unsupported exchange type is received during the IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike unsupport-exch-type` command.
- MIB: Set `hh3cIKEUnsportExchTypeTrapCntl` to `enabled(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ike unsupport-exch-type` command.
- MIB: Set `hh3cIkeUnsportExchTypeTrapCntl` to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIkeTunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIkeTunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIkeTunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIkeTunLocalNetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIkeTunLocalNetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIkeTunRemoteNetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIkeTunRemoteNetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIkeInvalidIdFailure**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.11	Invalid ID received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an invalid ID is received during an IKE Phase-1 SA negotiation.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ike invalid-id` command.
- MIB: Set `hh3cIkeInvalidIdTrapCntl` to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-id` command.

- MIB: Set hh3cIkeInvalidIdTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIkeTunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIkeTunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.3 (hh3cIkeIdInformation)	ID of the IKE negotiation.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIkeTunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIkeTunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIkeTunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIkeTunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIkeTunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIkeInvalidProtocolFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.12	IKE tunnel protocol error.	Informational	-	-	OFF

Description

This notification is generated when a protocol related error occurs during the processing for an IKE tunnel.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike invalid-protocol` command.
- MIB: Set hh3cIkeInvalidProtocolTrapCntl to enabled(1)

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-protocol` command.
- MIB: Set `hh3cIkeInvalidProtocolTrapCntl` to disabled(2)

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIkeTunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIkeTunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.4 (hh3cIkeProtocolNum)	IKE protocol number	No	Integer32	-2147483648..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIkeTunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIkeTunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIkeTunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIkeTunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIkeTunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIkeCertTypeUnsuppFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.13	Unsupported certificate type received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an unsupported certificate type is received during an IKE Phase-1 SA negotiation.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ike cert-type-unsupport` command.
- MIB: Set `hh3cIKECertTypeUnsuppTrapCntl` to `enabled(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ike cert-type-unsupport` command.
- MIB: Set `hh3cIKECertTypeUnsuppTrapCntl` to `disabled(2)`.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.5 (hh3cIKECertInformation)	Certificate information	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEInvalidCertAuthFailure**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.14	Invalid certificate received in IKE Phase-1	Informational	-	-	OFF

	negotiation.				
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Description

This notification is generated when an invalid certificate is received during an IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike invalid-cert-auth` command.
- MIB: Set `hh3cIkeInvalidCertAuthTrapCntl` to `enabled(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-cert-auth` command.
- MIB: Set `hh3cIkeInvalidCertAuthTrapCntl` to `disabled(2)`.

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIkeTunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIkeTunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.5 (hh3cIkeCertInformation)	Certificate information.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIkeTunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIkeTunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIkeTunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIkeTunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIkeTunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKEInvalidSignFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.15	Invalid signature received in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when an invalid signature is received during an IKE Phase-1 SA negotiation.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike invalid-sign` command.
- MIB: Set hh3cIKEInvalidSignTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike invalid-sign` command.
- MIB: Set hh3cIKEInvalidSignTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.5 (hh3cKECertInformation)	Certificate information.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIKECertUnavailableFailure**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.16	Certificate unavailable in IKE Phase-1 negotiation.	Informational	-	-	OFF

Description

This notification is generated when a certificate is unavailable during an IKE Phase-1 SA negotiation.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ike cert-unavailable` command.
- MIB: Set hh3cIKECertUnavailableTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike cert-unavailable` command.
- MIB: Set hh3cIKECertUnavailableTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.1.1.5 (hh3cIKETunLocalAddr)	IP address of the tunnel local end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.9 (hh3cIKETunRemoteAddr)	IP address of the tunnel remote end.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.5 (hh3cIKECertInformation)	Certificate information.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.30.1.1.1.1 (hh3cIKETunIndex)	Index of a tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.30.1.1.1.23 (hh3cIKETunLocalInetAddrType)	IP address type of the tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.24 (hh3cIKETunLocalInetAddr)	IP address of the tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.1.1.25 (hh3cIKETunRemoteInetAddrType)	IP address type of the tunnel remote end.	No	InetAddressType	Standard MIB values.

1.3.6.1.4.1.25506.2.30.1.1.1.26 (hh3cIKETunRemoteInetAddr)	IP address of the tunnel remote end.	No	InetAddress	Standard MIB values.
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Recommended action

No action is required.

hh3cIKEProposalAdd

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.17	IKE proposal added.	Informational	-	-	OFF

Description

This notification is generated when an IKE proposal is added.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike proposal-add` command.
- MIB: Set hh3cIKEProposalAddTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike proposal-add` command.
- MIB: Set hh3cIKEProposalAddTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.4.1 (hh3cIKEProposalNumber)	IKE proposal number.	No	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.2 (hh3cIKEProposalSize)	Number of IKE proposals.	No	Integer32	Standard MIB values.

Recommended action

No action is required.

hh3cIKEProposalDel

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.30.1.6.1.18	IKE proposal deleted.	Informational	-	-	OFF

Description

This notification is generated when an IKE proposal is deleted.

Status control

ON

- CLI: Use the `snmp-agent trap enable ike proposal-delete` command.
- MIB: Set hh3cIKEProposalDelTrapCntl to enabled(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ike proposal-delete` command.
- MIB: Set hh3cIKEProposalDelTrapCntl to disabled(2).

Objects

OID(object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.30.1.4.1 (hh3cIKEProposalNumber)	IKE proposal number.	No	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.30.1.4.2 (hh3cIKEProposalSize)	Number of IKE proposals.	No	Integer32	Standard MIB values.

Recommended action

No action is required.

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HH3C-IPSEC-MONITOR-V2-MIB

About this MIB

Use this MIB to obtain information about IPsec tunnels, IPsec-protected traffic, IPsec SAs, IPsec tunnel packet statistics, and IPsec trap notifications.

MIB file name

hh3c-ipsec-monitor-v2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cIPsecMonitorV2(126)

Scalar objects

hh3cIPsecMIBVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecMIBVersion (1.3.6.1.4.1.25506.2.126.1.1.1)	read-only	DisplayString	OCTET STRING (1..255)	IPsec MIB version information.	As per the MIB.

hh3cIPsecGlobalActiveTunnelsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalActiveTunnelsV2 (1.3.6.1.4.1.25506.2.126.1.6.1)	read-only	Gauge32	Gauge32 (0..4294967295)	Total number of currently active IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalActiveSasV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalActiveSasV2 (1.3.6.1.4.1.25506.2.126.1.6.2)	read-only	Gauge32	Gauge32 (0..4294967295)	Total number of existing IPsec Phase-2 SAs.	As per the MIB.

hh3cIPsecGlobalInOctetsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInOctetsV2 (1.3.6.1.4.1.25506.2.126.1.6.3)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets received by all current and previous IPsec Phase-2 tunnels. This value is accumulated before determining whether or not the packet should be decompressed.	As per the MIB.

hh3cIPsecGlobalInDecompOctetsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInDecompOctetsV2 (1.3.6.1.4.1.25506.2.126.1.6.4)	read-only	Counter64	Counter64 (0..18446744073709551615)	The total number of decompressed octets received by all current and previous IPsec Phase-2 Tunnels. This value is accumulated after a packet is decompressed.	Not supported

hh3cIPsecGlobalInPktsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInPktsV2 (1.3.6.1.4.1.25506.2.126.1.6.5)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets received by all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalInDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.6)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets dropped by all current and previous IPsec	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				Phase-2 tunnels.	

hh3cIPsecGlobalInReplayDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInReplayDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.7)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets dropped due to anti-replay by all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalInAuthFailsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInAuthFailsV2 (1.3.6.1.4.1.25506.2.126.1.6.8)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets that failed authentication on all current previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalInDecryptFailsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInDecryptFailsV2 (1.3.6.1.4.1.25506.2.126.1.6.9)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of inbound packets that failed decryption on all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalOutOctetsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalOutOctetsV2 (1.3.6.1.4.1.25506.2.126.1.6.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets sent by all current and previous IPsec Phase-2 tunnels. This value is	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				accumulated before determining whether or not the packet should be compressed.	

hh3cIPsecGlobalOutUncompOctetsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalOutUncompOctetsV2 (1.3.6.1.4.1.25506.2.126.1.6.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	The total number of uncompressed octets sent by all current and previous IPsec Phase-2 Tunnels. This value is accumulated before a packet is compressed.	Not supported

hh3cIPsecGlobalOutPktsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalOutPktsV2 (1.3.6.1.4.1.25506.2.126.1.6.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets sent by all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalOutDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalOutDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets dropped by all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalOutEncryptFailsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalOutEncryptFailsV2 (1.3.6.1.4.1.25506.2.126.1.6.14)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets that failed encryption on all current and previous IPsec Phase-2 tunnels.	As per the MIB.

hh3cIPsecGlobalNoMemoryDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalNoMemoryDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.15)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to insufficient memory.	Not supported

hh3cIPsecGlobalNoFindSaDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalNoFindSaDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.16)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to SA not found.	As per the MIB.

hh3cIPsecGlobalQueueFullDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalQueueFullDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.17)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to full queue.	Not supported

hh3cIPsecGlobalInvalidLenDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInvalidLenDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.18)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to invalid packet length.	As per the MIB.

hh3cIPsecGlobalTooLongDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalTooLongDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.19)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to too long packet.	As per the MIB.

hh3cIPsecGlobalInvalidSaDropsV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecGlobalInvalidSaDropsV2 (1.3.6.1.4.1.25506.2.126.1.6.20)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by all current and previous IPsec Phase-2 tunnels due to invalid SA.	Not supported

hh3cIPsecPolicyNameV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicyNameV2 (1.3.6.1.4.1.25506.2.126.1.7.1)	accessible-for-notification	STRING	OCTET STRING (1..63)	Name of an IPsec policy in a trap notification.	As per the MIB.

hh3cIPsecPolicySeqNumV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicy	accessible-for-no	Integer32	Gauge32	Sequence	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
SeqNumV2 (1.3.6.1.4.1.2550 6.2.126.1.7.2)	tify		(0..4294967295)	number of an IPsec policy entry in a trap notification.	

hh3cIPsecPolicySizeV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicySizeV2 (1.3.6.1.4.1.2550 6.2.126.1.7.3)	accessible-for-notify	Integer32	Gauge32 (0..4294967295)	Number of IPsec policy entries in a trap notification.	As per the MIB.

hh3cIPsecTrapGlobalCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTrapGlobalCntIV2 (1.3.6.1.4.1.2550 6.2.126.1.8.1)	read-write	TruthValue	Integer32 (1,2)	Whether to enable trap notifications for IPsec events globally.	As per the MIB.

hh3cIPsecTunnelStartTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTunnelStartTrapCntIV2 (1.3.6.1.4.1.2550 6.2.126.1.8.2)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecTunnelStartV2 trap notifications.	As per the MIB.

hh3cIPsecTunnelStopTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTunnelStopTrapCntIV2 (1.3.6.1.4.1.2550 6.2.126.1.8.3)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecTunnelStopV2 trap notifications.	As per the MIB.

hh3cIPsecNoSaTrapCntlV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecNoSaTrapCntlV2 (1.3.6.1.4.1.25506.2.126.1.8.4)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecNoSaFailureV2 trap notifications.	As per the MIB.

hh3cIPsecAuthFailureTrapCntlV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecAuthFailureTrapCntlV2 (1.3.6.1.4.1.25506.2.126.1.8.5)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecAuthFailureV2 trap notifications.	As per the MIB.

hh3cIPsecEncryFailureTrapCntlV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecEncryFailureTrapCntlV2 (1.3.6.1.4.1.25506.2.126.1.8.6)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecEncryFailureV2 trap notifications.	As per the MIB.

hh3cIPsecDecryFailureTrapCntlV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecDecryFailureTrapCntlV2 (1.3.6.1.4.1.25506.2.126.1.8.7)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecDecryFailureV2 trap notifications.	As per the MIB.

hh3cIPsecInvalidSaTrapCntlV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecInvalidSaTrapCntlV2 (1.3.6.1.4.1.25506.2.126.1.8.8)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecInvalidSaFailureV2 trap notifications.	As per the MIB.

hh3cIPsecPolicyAddTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicyAddTrapCntIV2 (1.3.6.1.4.1.25506.2.126.1.8.9)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecPolicyAddV2 trap notifications.	As per the MIB.

hh3cIPsecPolicyDelTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicyDelTrapCntIV2 (1.3.6.1.4.1.25506.2.126.1.8.10)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecPolicyDelV2 trap notifications.	As per the MIB.

hh3cIPsecPolicyAttachTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicyAttachTrapCntIV2 (1.3.6.1.4.1.25506.2.126.1.8.11)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecPolicyAttachV2 trap notifications.	As per the MIB.

hh3cIPsecPolicyDetachTrapCntIV2

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecPolicyDetachTrapCntIV2 (1.3.6.1.4.1.25506.2.126.1.8.12)	read-write	TruthValue	Integer32 (1,2)	Whether to enable hh3cIPsecPolicyDetachV2 trap notifications.	As per the MIB.

Tabular objects

hh3cIPsecTunnelV2Table

About this table

This table contains IPsec tunnel information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cIPsecTunIndexV2.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTunIndexV2 (1.3.6.1.4.1.25506.2.126.1.2.1.1)	accessible-for-no tify	Integer32	Integer32 (1..2147483647)	Index of an IPsec tunnel.	As per the MIB.
hh3cIPsecTunIfaceIndexV2 (1.3.6.1.4.1.25506.2.126.1.2.1.2)	read-only	InterfaceIndex	Integer32 (1..2147483647)	Index of the interface.	As per the MIB.
hh3cIPsecTunIKE ETunnelIndexV2 (1.3.6.1.4.1.25506.2.126.1.2.1.3)	read-only	Integer32	Integer32 (1..2147483647)	Index of the IKE tunnel associated with the IPsec tunnel.	The index value of the IKEv2 tunnel associated with the IPsec tunnel is an invalid value of 2147483647.
hh3cIPsecTunIKE ETunLocalIDTypeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.4)	read-only	Hh3cIPsecIDTypeV2	Integer32 (0..11)	Type of the local ID of the IKE tunnel.	The value of the local ID type of the IKEv2 tunnel is an invalid value of 0.
hh3cIPsecTunIKE ETunLocalIDValueV2 (1.3.6.1.4.1.25506.2.126.1.2.1.5)	read-only	DisplayString	OCTET STRING (0..255)	Value of the local ID of the IKE tunnel.	For a local ID that exceeds 255 bytes, this object displays only the first 255 bytes of information. The complete ID information is displayed by hh3cIPsecTunIKE ETunLocalIDValueV3V2. The local ID of the IKEv2 tunnel is empty.
hh3cIPsecTunIKE	read-only	DisplayString	OCTET STRING	The second	The local IP

Object(OID)	Access	Syntax	Value range	Description	Implementation
ETunLocalIDVal2V2 (1.3.6.1.4.1.25506.2.126.1.2.1.6)			(0..255)	specification of the IP address of the IKE tunnel local end.	address of the IKEv2 tunnel is empty.
hh3clPsecTunIKETunRemoteIDTypeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.7)	read-only	Hh3clPsecIDTypeV2	Integer32 (0..11)	Type of the remote ID of the IKE tunnel.	The value of the remote ID type of the IKEv2 tunnel is an invalid value of 0.
hh3clPsecTunIKETunRemoteIDVal1V2 (1.3.6.1.4.1.25506.2.126.1.2.1.8)	read-only	DisplayString	OCTET STRING (0..255)	Value of the remote ID of the IKE tunnel.	For a remote ID that exceeds 255 bytes, this object displays only the first 255 bytes of information. The complete ID information is displayed by hh3clPsecTunIKETunRemoteIDVal3V2. The remote ID of the IKEv2 tunnel is empty.
hh3clPsecTunIKETunRemoteIDVal2V2 (1.3.6.1.4.1.25506.2.126.1.2.1.9)	read-only	DisplayString	OCTET STRING (0..255)	The second specification of the IP address of the IKE tunnel remote end.	The remote IP address of the IKEv2 tunnel is empty.
hh3clPsecTunLocalAddrTypeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.10)	read-only	InetAddressType	Integer32(1,2)	Type of the IP address of the IPsec tunnel local end.	As per the MIB.
hh3clPsecTunLocalAddrV2 (1.3.6.1.4.1.25506.2.126.1.2.1.11)	read-only	InetAddress	OCTET STRING (4)	IP address of the IPsec tunnel local end.	As per the MIB.
hh3clPsecTunRemoteAddrTypeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.12)	read-only	InetAddressType	Integer32(1,2)	Type of the IP address of the IPsec tunnel remote end.	As per the MIB.
hh3clPsecTunRemoteAddrV2 (1.3.6.1.4.1.25506.2.126.1.2.1.13)	read-only	InetAddress	OCTET STRING (4)	IP address of the IPsec tunnel remote end.	As per the MIB.
hh3clPsecTunKeyTypeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.14)	read-only	Hh3clPsecNegotTypeV2	Integer32(1,2,21 47483647)	Key negotiation mode of the IPsec tunnel.	As per the MIB.
hh3clPsecTunEncapModeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.15)	read-only	Hh3clPsecEncapModeV2	Integer32(1,2,21 47483647)	Encapsulation mode of the IPsec tunnel.	As per the MIB.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3clPsecTunInitiatorV2 (1.3.6.1.4.1.25506.2.126.1.2.1.16)	read-only	INTEGER	Integer32(1,2,2147483647)	Initiator of the IPsec tunnel.	As per the MIB.
hh3clPsecTunLifetimeSizeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.17)	read-only	Gauge32	Gauge32(0..4294967295)	Negotiated traffic-based IPsec SA lifetime, in kilobytes.	As per the MIB.
hh3clPsecTunLifetimeTimeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.18)	read-only	Integer32	Integer32(1..2147483647)	Negotiated time-based IPsec SA lifetime, in seconds.	As per the MIB.
hh3clPsecTunRemainingTimeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.19)	read-only	Integer32	Integer32(1..2147483647)	Remaining lifetime of the IPsec tunnel, in seconds.	As per the MIB.
hh3clPsecTunActiveTimeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.20)	read-only	Integer32	Integer32(1..2147483647)	Active period of time of the IPsec tunnel.	As per the MIB.
hh3clPsecTunRemainingSizeV2 (1.3.6.1.4.1.25506.2.126.1.2.1.21)	read-only	Gauge32	Gauge32(0..4294967295)	Remaining lifetime of the IPsec tunnel, in kilobytes.	outbound sa remain traffic duration
hh3clPsecTunTotalRefreshesV2 (1.3.6.1.4.1.25506.2.126.1.2.1.22)	read-only	Counter32	Counter32(0..4294967295)	Total number of SA refreshes.	As per the MIB.
hh3clPsecTunCurrentSaInstancesV2 (1.3.6.1.4.1.25506.2.126.1.2.1.23)	read-only	Gauge32	Gauge32(0..4294967295)	Number of active and expiring SAs.	As per the MIB.
hh3clPsecTunInSaEncryptAlgorithmV2 (1.3.6.1.4.1.25506.2.126.1.2.1.24)	read-only	Hh3clPsecEncryptAlgorithmV2	Integer32(0..26,128..131,2147483647)	Encryption algorithm used by the inbound SA of the IPsec tunnel.	As per the MIB.
hh3clPsecTunInSaAuthAlgorithmV2 (1.3.6.1.4.1.25506.2.126.1.2.1.25)	read-only	Hh3clPsecAuthAlgorithmV2	Integer32(0..6,128,2147483647)	Authentication algorithm used by the inbound AH SA of the IPsec tunnel.	As per the MIB.
hh3clPsecTunInSaEspAuthAlgorithmV2 (1.3.6.1.4.1.25506.2.126.1.2.1.26)	read-only	Hh3clPsecAuthAlgorithmV2	Integer32(0..6,128,2147483647)	Authentication algorithm used by the inbound ESP SA of the IPsec tunnel.	As per the MIB.
hh3clPsecTunDiffHellmanGroupV2 (1.3.6.1.4.1.25506.2.126.1.2.1.27)	read-only	Hh3clPsecDiffHellmanGroupV2	Integer32(0,1,2,5,12,14,2147483647)	DH group used in the IKE Phase-2 negotiation.	As per the MIB.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTunOutSaEncryptAlgoV2 (1.3.6.1.4.1.25506.2.126.1.2.1.28)	read-only	Hh3cIPsecEncryptAlgoV2	Integer32 (0..26,128..131,2147483647)	Encryption algorithm used by the outbound SA of the IPsec tunnel.	As per the MIB.
hh3cIPsecTunOutSaAuthAlgoV2 (1.3.6.1.4.1.25506.2.126.1.2.1.29)	read-only	Hh3cIPsecAuthAlgoV2	Integer32 (0..6,128,2147483647)	Authentication algorithm used by the outbound AH SA of the IPsec tunnel.	As per the MIB.
hh3cIPsecTunOutSaEspAuthAlgoV2 (1.3.6.1.4.1.25506.2.126.1.2.1.30)	read-only	Hh3cIPsecAuthAlgoV2	Integer32 (0..5,2147483647)	Authentication algorithm used by the outbound ESP SA of the IPsec tunnel.	As per the MIB.
hh3cIPsecTunPolicyNameV2 (1.3.6.1.4.1.25506.2.126.1.2.1.31)	read-only	DisplayString	OCTET STRING (0..255)	Name of the IPsec policy used by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunPolicyNumV2 (1.3.6.1.4.1.25506.2.126.1.2.1.32)	read-only	Integer32	Integer32 (1..2147483647)	Sequence number of the IPsec policy entry used by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunStatusV2 (1.3.6.1.4.1.25506.2.126.1.2.1.33)	read-only	INTEGER	Integer32 (1,2)	State of the IPsec tunnel.	As per the MIB.

hh3cIPsecTunnelStatV2Table

About this table

This table contains IPsec tunnel packet statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cIPsecTunIndexV2.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTunInOctetsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.1)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of octets received by the IPsec tunnel. This value is accumulated before	As per the MIB.

Object(OID)	Access	Syntax	Value range	Description	Implementation
				determining whether or not the packet should be decompressed.	
hh3cIPsecTunInDecompOctetsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.2)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of decompressed octets received by the IPsec tunnel. This value is accumulated after the packet is decompressed.	Not supported
hh3cIPsecTunInPktsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.3)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of packets received by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunInDropPktsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.4)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of inbound packets dropped by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunInReplayDropPktsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.5)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of inbound packets dropped by the IPsec tunnel due to anti-replay.	As per the MIB.
hh3cIPsecTunInAuthFailsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.6)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of inbound packets that failed authentication on the IPsec tunnel.	As per the MIB.
hh3cIPsecTunInDecryptFailsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.7)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of inbound packets that failed decryption on the IPsec tunnel.	As per the MIB.
hh3cIPsecTunOutOctetsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.8)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of octets sent by the IPsec tunnel. This value is accumulated after determining whether or not the packet should be compressed.	As per the MIB.
hh3cIPsecTunOutUncompOctetsV2 (1.3.6.1.4.1.2550.6.2.126.1.3.1.9)	read-only	Counter64	Counter64 (0..18446744073.709551615)	Total number of uncompressed octets sent by this IPsec tunnel. This value is accumulated before the packet	Not supported

Object(OID)	Access	Syntax	Value range	Description	Implementation
				is compressed.	
hh3cIPsecTunOutPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.10)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets sent by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunOutDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.11)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets dropped by the IPsec tunnel.	As per the MIB.
hh3cIPsecTunOutEncryptFailsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.12)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of outbound packets that failed encryption on the IPsec tunnel.	As per the MIB.
hh3cIPsecTunNoMemoryDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.13)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by the IPsec tunnel due to insufficient memory.	Not supported
hh3cIPsecTunQueueFullDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.14)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by the IPsec tunnel due to full queue.	Not supported
hh3cIPsecTunInvalidLenDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.15)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by the IPsec tunnel due to invalid length.	As per the MIB.
hh3cIPsecTunTooLongDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.16)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by the IPsec tunnel due to too long packet.	As per the MIB.
hh3cIPsecTunInvalidSaDropPktsV2 (1.3.6.1.4.1.25506.2.126.1.3.1.17)	read-only	Counter64	Counter64 (0..18446744073709551615)	Total number of packets dropped by the IPsec tunnel due to invalid SA.	Not supported.

hh3cIPsecSaV2Table

About this table

This table contains IPsec SA information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cIPsecTunIndexV2 and hh3cIPsecSaIndexV2.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecSaIndexV2 (1.3.6.1.4.1.25506.2.126.1.4.1.1)	accessible-for-no-tify	Integer32	Integer32 (1..2147483647)	Index of an SA in an IPsec tunnel.	As per the MIB.
hh3cIPsecSaDirectionV2 (1.3.6.1.4.1.25506.2.126.1.4.1.2)	read-only	INTEGER	Integer32 (1,2)	Direction of the SA.	As per the MIB.
hh3cIPsecSaSpiValueV2 (1.3.6.1.4.1.25506.2.126.1.4.1.3)	read-only	Unsigned32	Unsigned32 (1..4294967295)	SPI value of the SA.	As per the MIB.
hh3cIPsecSaProtocolV2 (1.3.6.1.4.1.25506.2.126.1.4.1.4)	read-only	Hh3cIPsecSaProtocolV2	Integer32 (0,2,3,4)	Security protocol used by the SA.	As per the MIB.
hh3cIPsecSaEncryptAlgoV2 (1.3.6.1.4.1.25506.2.126.1.4.1.5)	read-only	Hh3cIPsecEncryptAlgoV2	Integer32 (0..26,128..131,2147483647)	Encryption algorithm used by the SA.	As per the MIB.
hh3cIPsecSaAuthAlgoV2 (1.3.6.1.4.1.25506.2.126.1.4.1.6)	read-only	Hh3cIPsecAuthAlgoV2	Integer32 (0..6,128,2147483647)	Authentication algorithm used by the SA.	As per the MIB.
hh3cIPsecSaStatusV2 (1.3.6.1.4.1.25506.2.126.1.4.1.7)	read-only	INTEGER	Integer32 (1,2)	Status of the SA.	As per the MIB.

hh3cIPsecTrafficV2Table

About this table

This table contains information about the traffic protected by IPsec tunnels.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cIPsecTunIndexV2.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTrafficLocalTypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.1)	read-only	Hh3cIPsecTrafficTypeV2	Integer32 (1,4,5,6,7,8)	Type of the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalAddr1TypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.2)	read-only	InetAddressType	Integer32(1,2)	Type of the first IP address specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalAddr1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.3)	read-only	InetAddress	OCTET STRING (4)	The first IP address specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalAddr2TypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.4)	read-only	InetAddressType	Integer32(1,2)	Type of the second IP address specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalAddr2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.5)	read-only	InetAddress	OCTET STRING (4)	The second IP address specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalProtocol1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.6)	read-only	Integer32	Integer32 (0..255)	The first protocol number specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalProtocol2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.7)	read-only	Integer32	Integer32 (0..255)	The second protocol number specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalPort1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.8)	read-only	Integer32	Integer32 (0..65535)	The first port number specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficLocalPort2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.9)	read-only	Integer32	Integer32 (0..65535)	The second port number specification for the local end's traffic.	As per the MIB.
hh3cIPsecTrafficRemoteTypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.10)	read-only	Hh3cIPsecTrafficTypeV2	Integer32 (1,4,5,6,7,8)	Type of the remote end's traffic.	As per the MIB.

Object(OID)	Access	Syntax	Value range	Description	Implementation
hh3cIPsecTrafficRemAddr1TypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.11)	read-only	InetAddressType	Integer32(1,2)	Type of the first IP address specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemAddr1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.12)	read-only	InetAddress	OCTET STRING (4)	The first IP address specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemAddr2TypeV2 (1.3.6.1.4.1.25506.2.126.1.5.1.13)	read-only	InetAddressType	Integer32(1,2)	Type of the second IP address specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemAddr2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.14)	read-only	InetAddress	OCTET STRING (4)	The second IP address specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemoPro1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.15)	read-only	Integer32	Integer32 (0..255)	The first protocol number specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemoPro2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.16)	read-only	Integer32	Integer32 (0..255)	The second protocol number specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemPort1V2 (1.3.6.1.4.1.25506.2.126.1.5.1.17)	read-only	Integer32	Integer32 (0..65535)	The first port number specification for the remote end's traffic.	As per the MIB.
hh3cIPsecTrafficRemPort2V2 (1.3.6.1.4.1.25506.2.126.1.5.1.18)	read-only	Integer32	Integer32 (0..65535)	The second port number specification for the remote end's traffic.	As per the MIB.

Notifications

The following information describes the notifications generated by HH3C-IPSEC-MONITOR-V2-MIB.

hh3cIPsecTunnelStartV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.1	IPsec tunnel created.	Informational	-	-	OFF

Description

This notification is generated when an IPsec tunnel is created.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec tunnel-start` command.
- MIB: Set hh3cIPsecTunnelStartTrapCntIV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec tunnel-start` command.
- MIB: Set hh3cIPsecTunnelStartTrapCntIV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.18 (hh3cIPsecTunLifeTimeV2)	Time-based lifetime of the IPsec tunnel, in seconds.	No	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.17 (hh3cIPsecTunLifeSizeV2)	Time-based lifetime of the IPsec tunnel, in kilobytes.	No	Gauge32	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecTunnelStopV2**Basic information**

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.2	IPsec tunnel deleted.	Informational	-	-	OFF

Description

This notification is generated when an IPsec tunnel is deleted.

Status control**ON**

- CLI: Use the `snmp-agent trap enable ipsec tunnel-stop` command.
- MIB: Set hh3cIPsecTunnelStopTrapCntIV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec tunnel-stop` command.
- MIB: Set hh3cIPsecTunnelStopTrapCntIV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.20 (hh3cIPsecTunActiveTimeV2)	Active period of time of the IPsec tunnel.	No	Integer32	0..2147483647

Recommended action

No action is required.

hh3cIPsecNoSaFailureV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.3	No SA for IPsec tunnel.	Informational	Warning	-	OFF

Description

This notification is generated when no SA is available for an IPsec tunnel.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec no-sa-failure` command.
- MIB: Set hh3cIPsecNoSaTrapCntIV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec no-sa-failure` command.
- MIB: Set hh3cIPsecNoSaTrapCntIV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecAuthFailFailureV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.4	IPsec authentication failure.	Informational	Warning	-	OFF

Description

This notification is generated when an IPsec authentication failure occurs.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec auth-failure` command.
- MIB: Set hh3cIPsecAuthFailureTrapCntIV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec auth-failure` command.
- MIB: Set hh3cIPsecAuthFailureTrapCntIV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecEncryFailFailureV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.5	IPsec tunnel encryption failure.	Informational	Warning	-	OFF

Description

This notification is generated when an IPsec tunnel has an encryption failure.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec encrypt-failure` command.
- MIB: Set hh3cIPsecEncryFailureTrapCntIV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec encrypt-failure` command.
- MIB: Set hh3cIPsecEncryFailureTrapCntIV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecDecryFailFailureV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.6	IPsec tunnel encryption failure.	Informational	Warning	-	OFF

Description

This notification is generated when an IPsec tunnel has a decryption failure.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec decrypt-failure` command.
- MIB: Set hh3cIPsecDecryFailTrapCntlV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec decrypt-failure` command.
- MIB: Set hh3cIPsecDecryFailTrapCntlV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.2.1.1 (hh3cIPsecTunIndexV2)	Index of an IPsec tunnel.	Yes	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.2.1.10 (hh3cIPsecTunLocalAddrTypeV2)	Type of the IP address of the IPsec tunnel local end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.11 (hh3cIPsecTunLocalAddrV2)	IP address of the IPsec tunnel local end.	No	InetAddress	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.12 (hh3cIPsecTunRemoteAddrTypeV2)	Type of the IP address of the IPsec tunnel remote end.	No	InetAddressType	Standard MIB values.
1.3.6.1.4.1.25506.2.126.1.2.1.13 (hh3cIPsecTunRemoteAddrV2)	IP address of the IPsec tunnel remote end.	No	InetAddress	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecPolicyAddV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.8	IPsec policy added.	Informational	-	-	OFF

Description

This notification is generated when an IPsec policy is added.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec policy-add` command.
- MIB: Set hh3cIPsecPolicyAddTrapCntlV2 to true(1).

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec policy-add` command.
- MIB: Set hh3cIPsecPolicyAddTrapCntlV2 to false(2).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.7.1 (hh3cIPsecPolicyNameV2)	Name of an IPsec policy.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.126.1.7.2 (hh3cIPsecPolicySeqNumV2)	Sequence number an IPsec policy entry.	No	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.7.3 (hh3cIPsecPolicySizeV2)	Number of the IPsec policy entries.	No	InetAddressType	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecPolicyDelV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.9	IPsec policy deleted.	Informational	-	-	OFF

Description

This notification is generated when an IPsec policy is deleted.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec policy-delete` command.
- MIB: Set `hh3cIPsecPolicyDelTrapCntlV2` to `true(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec policy-delete` command.
- MIB: Set `hh3cIPsecPolicyDelTrapCntlV2` to `false(2)`.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.7.1 (hh3cIPsecPolicyNameV2)	Name of an IPsec policy.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.126.1.7.2 (hh3cIPsecPolicySeqNumV2)	Sequence number of an IPsec policy entry.	No	Integer32	1..2147483647
1.3.6.1.4.1.25506.2.126.1.7.3 (hh3cIPsecPolicySizeV2)	Number of the IPsec policy entries.	No	InetAddressType	Standard MIB values.

Recommended action

No action is required.

hh3cIPsecPolicyAttachV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.10	IPsec policy applied to interface.	Informational	-	-	OFF

Description

This notification is generated when an IPsec policy is applied to an interface.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec policy-attach` command.
- MIB: Set `hh3cIPsecPolicyAttachTrapCntlV2` to `true(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec policy-attach` command.
- MIB: Set `hh3cIPsecPolicyAttachTrapCntlV2` to `false(2)`.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.7.1 (hh3cIPsecPolicyNameV2)	Name of an IPsec policy.	No	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.126.1.7.3 (hh3cIPsecPolicySizeV2)	Number of the IPsec policy entries.	No	Integer32	1..2147483647
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32(1..2147483647)

Recommended action

No action is required.

hh3cIPsecPolicyDetachV2

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.126.1.9.0.11	IPsec policy application removed from interface.	Informational	-	-	OFF

Description

This notification is generated when an IPsec policy application is removed from an interface.

Status control

ON

- CLI: Use the `snmp-agent trap enable ipsec policy-detach` command.
- MIB: Set `hh3cIPsecPolicyDetachTrapCntlV2` to `true(1)`.

OFF

- CLI: Use the `undo snmp-agent trap enable ipsec policy-detach` command.
- MIB: Set `hh3cIPsecPolicyDetachTrapCntlV2` to `false(2)`.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.7.1 (hh3cIPsecPolicyNameV2)	Name of an IPsec policy.	No	DisplayString	OCTET STRING (SIZE (0..255))

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.126.1.7.3 (hh3clPsecPolicySizeV2)	Number of the IPsec policy entries.	No	Integer32	1..2147483647
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of an interface.	Yes	InterfaceIndex	Integer32(1..2147483647)

Recommended action

No action is required.

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HH3C-MACSEC-MIB

About this MIB

Use this MIB to configure MACsec.

MIB file name

hh3c-macsec.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cMACsec(163)

Tabular objects

hh3cMACsecCFGPortTable

About this table

Use this table to obtain or configure preshared key settings for MACsec-capable ports.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

You must specify hh3cMACsecCFGPortPSKCKNName and hh3cMACsecCFGPortPSKCAKValue in pairs in an SNMP request.

The hh3cMACsecCFGPortPSKCAKValue object is confidential. **N/A** is returned for the read operation.

Columns

The table index is hh3cMACsecCFGPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMACsecCFGPortIndex (1.3.6.1.4.1.25506.2.163.1.1.1.1)	not-accessible	InterfaceIndex	Standard MIB values.	Interface index.	As per the MIB.
hh3cMACsecCFGPortPSKCKNName (1.3.6.1.4.1.25506.2.163.1.1.1.2)	read-write	OCTET STRING	OCTET STRING (0..128)	CAK name.	Octet string, 0 to 64 characters, an even number of hexadecimal characters.
hh3cMACsecCFGPortPSKCAKValue (1.3.6.1.4.1.25506.2.163.1.1.1.3)	read-write	OCTET STRING	OCTET STRING (0..128)	CAK value.	Octet string, 0 to 64 characters, an even number of hexadecimal characters.

Notifications

hh3cMACsecTimeout

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.163.2.0.1	MACsec session timeout was detected on the interface.	Informational	Warning	1.3.6.1.4.1.25506.2.163.2.0.1 (hh3cMACsecTimeoutResume)	ON

Description

This notification is generated when MACsec session timeout was detected on the interface.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	No	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Local interface name.	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.163.2.1.1 (hh3cMACsecDeviceRole)	Local MACsec device role.	No	INTEGER	unknown(0), server(1), client(2)

Recommended action

Troubleshoot the link where the MACsec interface resides.

If the issue persists, contact H3C Support.

hh3cMACsecTimeoutResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.163.2.0.1	The MACsec MKA session was resumed on the interface.	Informational	-	-	ON

Description

This notification is generated when the MACsec MKA session was resumed on the interface.

Status control

This notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	No	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Local interface name.	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.163.2.1.1 (hh3cMACsecDeviceRole)	Local MACsec device role.	No	INTEGER	unknown(0), server(1), client(2)

Recommended action

No action is required.

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HH3C-SESSION-MIB

About this MIB

Use this table to manage sessions.

MIB file name

hh3c-session.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cSession(149)

Tabular objects

hh3cSessionStatTable

About this table

Use this table to obtain session statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cSessionStatChassis, hh3cSessionStatSlot, and hh3cSessionStatCPUID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSessionStatChassis (1.3.6.1.4.1.25506.2.149.1.1.1.1)	not-accessible	Unsigned32	0..65534	IRF member ID.	As per the MIB.
hh3cSessionStatSlot (1.3.6.1.4.1.25506.2.149.1.1.1.2)	not-accessible	Unsigned32	0..65534	Slot number.	As per the MIB.
hh3cSessionStatCPUID (1.3.6.1.4.1.25506.2.149.1.1.1.3)	not-accessible	Unsigned32	0..7	CPU ID.	As per the MIB.
hh3cSessionStatCount (1.3.6.1.4.1.25506.2.149.1.1.1.4)	read-only	Unsigned32	Standard MIB values.	Total number of sessions.	As per the MIB.
hh3cSessionStatCreateRate (1.3.6.1.4.1.25506.2.149.1.1.1.5)	read-only	Unsigned32	Standard MIB values.	Number of sessions created per second.	As per the MIB.
hh3cSessionStatTCPCount	read-only	Unsigned	Standard	Number of TCP	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.149.1.1.1.6)		d32	MIB values.	sessions.	
hh3cSessionStatUDPCount (1.3.6.1.4.1.25506.2.149.1.1.1.7)	read-only	Unsigned32	Standard MIB values.	Number of UDP sessions.	As per the MIB.
hh3cSessionStatOtherCount (1.3.6.1.4.1.25506.2.149.1.1.1.8)	read-only	Unsigned32	Standard MIB values.	Number of sessions other than TCP and UDP sessions.	As per the MIB.
hh3cSessionStatTCPCreateRate (1.3.6.1.4.1.25506.2.149.1.1.1.9)	read-only	Unsigned32	Standard MIB values.	Number of TCP sessions created per second.	As per the MIB.
hh3cSessionStatUDPCreateRate (1.3.6.1.4.1.25506.2.149.1.1.1.10)	read-only	Unsigned32	Standard MIB values.	Number of UDP sessions created per second.	As per the MIB.
hh3cSessionStatOtherCreateRate (1.3.6.1.4.1.25506.2.149.1.1.1.11)	read-only	Unsigned32	Standard MIB values.	Number of non-TCP and non-UDP sessions created per second.	As per the MIB.
hh3cSessionStatTCPTotal (1.3.6.1.4.1.25506.2.149.1.1.1.12)	read-only	Counter64	Standard MIB values.	Total number of TCP sessions created till now.	As per the MIB.
hh3cSessionStatUDPTotal (1.3.6.1.4.1.25506.2.149.1.1.1.13)	read-only	Counter64	Standard MIB values.	Total number of UDP sessions created till now.	As per the MIB.
hh3cSessionStatOtherTotal (1.3.6.1.4.1.25506.2.149.1.1.1.14)	read-only	Counter64	Standard MIB values.	Total number of non-TCP and non-UDP sessions created till now.	As per the MIB.

hh3cSessionEntTable

About this table

Use this table to obtain statistics about sessions by entity.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSessionEntIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSessionEntIndex	not-accessible	Unsigned32	1..2147483647	Device entity index.	As per the MIB.
hh3cSessionEntCount (1.3.6.1.4.1.25506.2.149.1.2.1.2)	read-only	Unsigned32	Standard MIB values.	Total number of sessions.	As per the MIB.
hh3cSessionEntCreateRate (1.3.6.1.4.1.25506.2.149.1.2.1.3)	read-only	Unsigned32	Standard MIB values.	Number of sessions created per second.	As per the MIB.
hh3cSessionEntTCPCount (1.3.6.1.4.1.25506.2.149.1.2.1.4)	read-only	Unsigned32	Standard MIB values.	Number of TCP sessions.	As per the MIB.
hh3cSessionEntUDPCount (1.3.6.1.4.1.25506.2.149.1.2.1.5)	read-only	Unsigned32	Standard MIB values.	Number of UDP sessions.	As per the MIB.
hh3cSessionEntOtherCount (1.3.6.1.4.1.25506.2.149.1.2.1.6)	read-only	Unsigned32	Standard MIB values.	Number of sessions other than TCP and UDP sessions.	As per the MIB.
hh3cSessionEntTCPCreateRate (1.3.6.1.4.1.25506.2.149.1.2.1.7)	read-only	Unsigned32	Standard MIB values.	Number of TCP sessions created per second.	As per the MIB.
hh3cSessionEntUDPCreateRate (1.3.6.1.4.1.25506.2.149.1.2.1.8)	read-only	Unsigned32	Standard MIB values.	Number of UDP sessions created per second.	As per the MIB.
hh3cSessionEntOtherCreateRate (1.3.6.1.4.1.25506.2.149.1.2.1.9)	read-only	Unsigned32	Standard MIB values.	Number of non-TCP and non-UDP sessions created per second.	As per the MIB.
hh3cSessionEntTCPTotal (1.3.6.1.4.1.25506.2.149.1.2.1.10)	read-only	Counter64	Standard MIB values.	Total number of TCP sessions created till now.	As per the MIB.
hh3cSessionEntUDPTotal (1.3.6.1.4.1.25506.2.149.1.2.1.11)	read-only	Counter64	Standard MIB values.	Total number of UDP sessions created till now.	As per the MIB.
hh3cSessionEntOtherTotal (1.3.6.1.4.1.25506.2.149.1.2.1.12)	read-only	Counter64	Standard MIB values.	Total number of non-TCP and non-UDP sessions created till now.	As per the MIB.

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HH3C-SSH-MIB

About this MIB

Secure Shell (SSH) is a network security protocol. Using encryption and authentication, SSH can implement secure remote access and file transfer over an insecure network.

SSH uses the typical client-server model to establish a channel for secure data transfer based on TCP.

SSH includes two versions: SSH1.x and SSH2.0 (hereinafter referred to as SSH1 and SSH2), which are not compatible. SSH2 is better than SSH1 in performance and security.

Use this MIB to configure the SSH service.

MIB file name

hh3c-ssh.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cSSH(22)

Scalar objects

hh3cSSHServerVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerVersion (1.3.6.1.4.1.25506.2.22.1.1.1.1)	read-only	DisplayString	Standard MIB values.	The SSH protocol version of the SSH server.	The default value is 2.00. It is not compatible with SSH 1.x versions.

hh3cSSHServerCompatibleSSH1x

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerCompatibleSSH1x (1.3.6.1.4.1.25506.2.22.1.1.1.2)	read-write	INTEGER	enableCompatibleSSH1x(1), disableCompatibleSSH1x(2)	Compatibility with SSH 1.x versions.	The default value is disableCompatibleSSH1x(2).

hh3cSSHServerRekeyInterval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerRekeyInterval (1.3.6.1.4.1.25506.2.22.1.1.1.3)	read-write	Integer32	Standard MIB values.	Time interval at which the SSH server key is regenerated.	Value range: 0 to 24. The default value is 0, meaning that the key will not be refreshed.

hh3cSSHServerAuthRetries

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerAuthRetries (1.3.6.1.4.1.25506.2.22.1.1.1.4)	read-write	Integer32	Standard MIB values.	Maximum number of SSH server authentication retries.	Range from 1 to 5. The default value is 3.

hh3cSSHServerAuthTimeout

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerAuthTimeout (1.3.6.1.4.1.25506.2.22.1.1.1.5)	read-write	Integer32	Standard MIB values.	SSH server authentication timeout time.	Range from 1 to 120. The default value is 60.

hh3cSFTPServerIdleTimeout

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSFTPServerIdleTimeout (1.3.6.1.4.1.25506.2.22.1.1.1.6)	read-write	Integer32	Standard MIB values.	SFTP connection idle timeout time.	Range from 1 to 35791. The default value is 10.

hh3cSSHServerEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHServerEnable (1.3.6.1.4.1.25506.2.22.1.1.1.7)	read-write	INTEGER	enableSSHServer (1), disableSSHServer (2)	Enable or disable the SSH server.	The default value is disableSSHServer (2).

hh3cSFTPServerEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSFTPServerEnable (1.3.6.1.4.1.25506.2.22.1.1.1.8)	read-write	INTEGER	enableSFTPService(1), disableSFTPService(2)	Enable or disable the SFTP server.	The default value is disableSFTPService(2).

hh3cSTelnetServerEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSTelnetServerEnable (1.3.6.1.4.1.25506.2.22.1.1.1.9)	read-write	INTEGER	enableSTelnetService(1), disableSTelnetService(2)	Enable or disable Stelnet server.	As per the MIB.

hh3cSCPServerEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSCPServerEnable (1.3.6.1.4.1.25506.2.22.1.1.1.10)	read-write	INTEGER	enableSCPServer(1), disableSCPServer(2)	Enable or disable SCP server.	As per the MIB.

hh3cSSHAttemptUserName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHAttemptUserName (1.3.6.1.4.1.25506.2.22.1.2.1)	accessible-for-notification	DisplayString	Standard MIB values.	Name of the user who failed to connect to the server.	Length: 1 to 255 characters.

hh3cSSHAttemptIpAddrType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHAttemptIpAddrType (1.3.6.1.4.1.25506.2.22.1.2.2)	accessible-for-notification	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	Address type of the user who failed to connect to the server.	As per the MIB.

hh3cSSHAttemptIpAddr

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHAttemptIpAddr (1.3.6.1.4.1.25506.2.22.1.2.3)	accessible-for-notification	InetAddress	OCTET STRING (0..255)	Address of user who failed to connect to the server.	As per the MIB.

hh3cSSHUserAuthFailureReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHUserAuthFailureReason (1.3.6.1.4.1.25506.2.22.1.2.4)	accessible-for-notification	INTEGER	exceedRetries(1), authTimeout(2), otherReason(3)	Reason for the connection failure.	As per the MIB.

Tabular objects

hh3cSSHUserConfigTable

About this table

Use this table to configure or obtain SSH user information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is hh3cSSHUserName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHUserName (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.1)	not-accessible	DisplayString	Standard MIB values.	Name of an SSH user.	Length: 1 to 255 characters.
hh3cSSHUserServiceType (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.2)	read-create	INTEGER	invalid(1), all(2), stelnet(3), sftp(4), scp(5), netconf(6)	Service type of the SSH user.	The default value is invalid(1).
hh3cSSHUserAuthType (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.3)	read-create	INTEGER	invalid(1), password(2), publicKey(3), any(4), publicKeyPassword(5), keyboardInteractive(6)	Authentication type for the SSH user.	The default value is invalid(1). If the value is password, the user must pass password authentication of AAA. If the value is publicKey, the user must pass the public key authentication of PKEY module. If the value is any, the user must pass password or public key authentication. If the value is publicKeyPassword, the user must pass both public key authentication and password authentication.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHUserPublicKeyName (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.4)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public key generated in the PKEY module.
hh3cSSHUserWorkDirectory (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.5)	read-create	DisplayString	Standard MIB values.	Work directory of the SSH user.	Not supported.
hh3cSSHUserRowStatus (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	When the hh3cSSHUserRowStatus is set to active(1), no objects in the conceptual row can be modified. In particular, a newly created user row which uses public key authentication cannot be made active(1) until the corresponding instance of 'hh3cSSHUserAuthType' is 'publicKey' or 'publicKeyPassword', and the 'hh3cSSHUserPublicKeyName' or at least one of the 'hh3cSSHUserPublicKeyName[2-6]' is configured appropriately.
hh3cSSHUserPublicKeyName2 (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.7)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public key generated in the PKEY module.
hh3cSSHUserPublicKeyName3 (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.8)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public key generated in the PKEY module.
hh3cSSHUserPublicKeyName4 (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.9)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public key generated in the PKEY module.
hh3cSSHUserPublicKeyName5 (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.10)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public

Object (OID)	Access	Syntax	Value range	Description	Implementation
					key generated in the PKEY module.
hh3cSSHUserPublicKeyName6 (1.3.6.1.4.1.25506.2.22.1.1.2.1.1.11)	read-create	DisplayString	Standard MIB values.	Name of the public key used for authentication of the SSH user.	Length: 1 to 64 characters. The default value is a zero-length string. The value for this object is obtained from the public key generated in the PKEY module.

hh3cSSHSessionInfoTable

About this table

This table contains SSH session information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cSSHSessionID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSSHSessionID (1.3.6.1.4.1.25506.2.22.1.1.3.1.1)	not-accessible	Integer32	Standard MIB values.	VTY number of an SSH session.	As per the MIB.
hh3cSSHSessionUserName (1.3.6.1.4.1.25506.2.22.1.1.3.1.2)	read-only	DisplayString	Standard MIB values.	User name of the SSH session.	Length: 1 to 255 characters.
hh3cSSHSessionUserIpAddrType (1.3.6.1.4.1.25506.2.22.1.1.3.1.3)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	User IP address type of the SSH session.	As per the MIB.
hh3cSSHSessionUserIpAddr (1.3.6.1.4.1.25506.2.22.1.1.3.1.4)	read-only	InetAddress	OCTET STRING (0..255)	User IP address of the SSH session.	As per the MIB.
hh3cSSHSessionClientVersion (1.3.6.1.4.1.25506.2.22.1.1.3.1.5)	read-only	DisplayString	Standard MIB values.	Client protocol version of the SSH session.	As per the MIB.
hh3cSSHSessionServiceType (1.3.6.1.4.1.25506.2.22.1.1.3.1.6)	read-only	INTEGER	invalid(1), stelnets(2), sftp(3), scp(4),	Service type of the SSH session.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			netconf(5)		
hh3cSSHSession Encry (1.3.6.1.4.1.25506 .2.22.1.1.3.1.7)	read-only	INTEGER	invalid(1), aes128CBC(2), desCBC(3), des3CBC(4), aes128CTR(5), aes192CTR(6), aes256CTR(7), aes128GCM(8), aes256GCM(9), aes256CBC(10), other(11)	Encryption algorithm of the SSH session.	As per the MIB.
hh3cSSHSession State (1.3.6.1.4.1.25506 .2.22.1.1.3.1.8)	read-only	INTEGER	init(1), verExchange(2), keysExchange(3), authRequest(4), serviceRequest(5) , established(6), disconnect(7)	Status of the SSH session.	As per the MIB.

Notifications

hh3cSSHUserAuthFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.22.1.3.0.1	User authentication failure	Informational	-	-	ON

Description

This notification is generated when a user failed authentication.

Status control

This notification cannot be set to the OFF state.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.22.1.2.1 (hh3cSSHAttemptUserName)	Name of the invalid user.	No	DisplayString	OCTET STRING(SIZE (0..255))
1.3.6.1.4.1.25506.2.22.1.2.2 (hh3cSSHAttemptIpAddrType)	Address type of the invalid user.	No	InetAddressType	INTEGER{ unknown(0), ipv4(1),

				ipv6(2), dns(16) }
1.3.6.1.4.1.25506.2.22.1.2.3 (hh3cSSHAttemptIpAddr)	Address of the invalid user.	No	InetAddress	OCTET STRING(0..255)
1.3.6.1.4.1.25506.2.22.1.2.4 (hh3cSSHUserAuthFailureReason)	Reason for the authentication failure.	No	INTEGER	exceedRetries(1) authTimeout(2) otherReason(3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Make sure there are no invalid users attempt to log in.

hh3cSSHVersionNegotiationFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.22.1.3.0.2	SSH version negotiation failure	Informational	-	-	ON

Description

This notification is generated when SSH version negotiation fails.

Status control

This notification cannot be set to the OFF state.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.22.1.2.2 (hh3cSSHAttemptIpAddrType)	Address type of the invalid user.	No	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }
1.3.6.1.4.1.25506.2.22.1.2.3 (hh3cSSHAttemptIpAddr)	Address of the invalid user.	No	InetAddress	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Make sure the client and server use the same SSH version.

hh3cSSHUserLogin

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.22.1.3.0.3	User login	Informational	-	-	ON

Description

This notification is generated when a user successfully logs in.

Status control

This notification cannot be set to the OFF state.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.22.1.1.3.1.2 (hh3cSSHSessionUserName)	User name of the SSH session.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.22.1.1.3.1.3 (hh3cSSHSessionUserIpAddrType)	User address type of the SSH session.	No	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }
1.3.6.1.4.1.25506.2.22.1.1.3.1.4 (hh3cSSHSessionUserIpAddr)	User address of the SSH session.	No	InetAddress	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cSSHUserLogoff

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.22.1.3.0.4	User logout	Informational	-	-	ON

Description

This notification is generated when a user logs out.

Status control

This notification cannot be set to the OFF state.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.22.1.1.3.1.2 (hh3cSSHSessionUserName)	User name of the SSH session.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.22.1.1.3.1.3 (hh3cSSHSessionUserIpAddrType)	User address type of the SSH session.	No	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }
1.3.6.1.4.1.25506.2.22.1.1.3.1.4 (hh3cSSHSessionUserIpAddr)	User address of the SSH session.	No	InetAddress	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Make sure the user is a valid user.

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DOT3-OAM-MIB

About this MIB

Ethernet Operation, Administration, and Maintenance (OAM) is a tool that monitors Layer 2 link status. It checks the connectivity of a link by sending OAM protocol data units (OAMPDUs) and reports to the network administrators when a link error occurs.

This MIB focuses on Ethernet OAM functions.

MIB file name

rfc4878-dot3-oam.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).dot3OamMIB(25506)

Tabular objects

dot3OamTable

About this table

This table contains information about basic Ethernet OAM functions of a port.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamAdminState (1.3.6.1.2.1.158.1.1.1.1)	read-write	INTEGER	1..2	Whether Ethernet OAM is enabled on the port.	As per the MIB.
dot3OamOperStatus (1.3.6.1.2.1.158.1.1.1.2)	read-only	INTEGER	disabled(1),linkFault(2),passiveWait(3),activeSendLocal(4),sendLocalAndRemote(5),sendLocalAndRemoteOk(6),oamPeeringLocallyRejected(7),oamPeeringRemotelyRejected(8),operational(9),nonOperHalfDuplex(10)	OAM capability of the link when the interface enters discovery state upon initialization or link error of the OAM entities.	As per the MIB.
dot3OamMode	read-write	INTEGER	1...2	OAM mode.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.158.1.1.1.3)				Ethernet interfaces have two OAM modes: passive(1) and active(2).	
dot3OamMaxOamPduSize (1.3.6.1.2.1.158.1.1.1.4)	read-only	Unsigned32	64...1518	Largest OAMPDU that the OAM entity supports.	As per the MIB.
dot3OamConfigRevision (1.3.6.1.2.1.158.1.1.1.5)	read-only	Unsigned32	0...65535	Configuration revision of the local OAM entity.	As per the MIB.
dot3OamFunctionsSupported (1.3.6.1.2.1.158.1.1.1.6)	read-only	BITS	unidirectionalSupport(0),loopbackSupport(1),eventSupport(2),variableSupport(3)	Functions supported by the OAM port.	As per the MIB.

dot3OamPeerTable

About this table

This table contains OAM peer configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamPeerMacAddress (1.3.6.1.2.1.158.1.2.1.1)	read-only	MacAddress	OCTET STRING (6) Original type + valid length.	MAC address of the OAM peer.	As per the MIB.
dot3OamPeerVendorOui (1.3.6.1.2.1.158.1.2.1.2)	read-only	EightOctetOui	OCTET STRING (3)	Peer OUI.	Not supported
dot3OamPeerVendorInfo (1.3.6.1.2.1.158.1.2.1.3)	read-only	Gauge32	Standard MIB values.	Vendor information of the OAM peer.	Not supported
dot3OamPeerMode (1.3.6.1.2.1.158.1.2.1.4)	read-only	INTEGER	passive(1), active(2), unknown(3)	Mode of the OAM peer.	As per the MIB.
dot3OamPeerMaxOamPduSize	read-only	Unsigned	1:0,2:64	Maximum OAMPDU length of	As per the MIB.

(1.3.6.1.2.1.158.1.2.1.5)		d32	...1518	the OAM peer.	
dot3OamPeerConfigRevision (1.3.6.1.2.1.158.1.2.1.6)	read-only	Unsigned d32	0..65535	Configuration revision of the OAM peer.	As per the MIB.
dot3OamPeerFunctionsSupport ed (1.3.6.1.2.1.158.1.2.1.7)	read-only	BITS	unidirectionalSup port(0), loopback Support(1), eventSu pport(2), variable Support(3)	Functions supported by the OAM peer.	As per the MIB.

dot3OamStatsTable

About this table

This table contains OAM statistics information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamInformationTx (1.3.6.1.2.1.158.1.4.1.1)	read-only	Counter 32	Standard MIB values.	Number of sent Information OAMPDUs.	As per the MIB.
dot3OamInformationRx (1.3.6.1.2.1.158.1.4.1.2)	read-only	Counter 32	Standard MIB values.	Number of received Information OAMPDUs.	As per the MIB.
dot3OamUniqueEventNotificatio nTx (1.3.6.1.2.1.158.1.4.1.3)	read-only	Counter 32	Standard MIB values.	Number of sent unique Event Notification OAMPDUs.	As per the MIB.
dot3OamUniqueEventNotificatio nRx (1.3.6.1.2.1.158.1.4.1.4)	read-only	Counter 32	Standard MIB values.	Number of received unique Event Notification OAMPDUs.	As per the MIB.
dot3OamDuplicateEventNotifica tionTx (1.3.6.1.2.1.158.1.4.1.5)	read-only	Counter 32	Standard MIB values.	Number of sent duplicate Event Notification OAMPDUs.	As per the MIB.
dot3OamDuplicateEventNotifica tionRx (1.3.6.1.2.1.158.1.4.1.6)	read-only	Counter 32	Standard MIB values.	Number of received duplicate Event Notification	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				OAMPDUs.	
dot3OamLoopbackControlTx (1.3.6.1.2.1.158.1.4.1.7)	read-only	Counter 32	Standard MIB values.	Number of sent Loopback Control OAMPDUs.	As per the MIB.
dot3OamLoopbackControlRx (1.3.6.1.2.1.158.1.4.1.8)	read-only	Counter 32	Standard MIB values.	Number of received Loopback Control OAMPDUs.	As per the MIB.
dot3OamVariableRequestTx (1.3.6.1.2.1.158.1.4.1.9)	read-only	Counter 32	Standard MIB values.	Number of sent Variable Request OAMPDUs.	Not supported
dot3OamVariableRequestRx (1.3.6.1.2.1.158.1.4.1.10)	read-only	Counter 32	Standard MIB values.	Number of received Variable Request OAMPDUs.	Not supported
dot3OamVariableResponseTx (1.3.6.1.2.1.158.1.4.1.11)	read-only	Counter 32	Standard MIB values.	Number of sent Variable Response OAMPDUs.	Not supported
dot3OamVariableResponseRx (1.3.6.1.2.1.158.1.4.1.12)	read-only	Counter 32	Standard MIB values.	Number of received Variable Response OAMPDUs.	Not supported
dot3OamOrgSpecificTx (1.3.6.1.2.1.158.1.4.1.13)	read-only	Counter 32	Standard MIB values.	Number of sent Organization Specific OAMPDUs.	Not supported
dot3OamOrgSpecificRx (1.3.6.1.2.1.158.1.4.1.14)	read-only	Counter 32	Standard MIB values.	Number of received Organization Specific OAMPDUs.	Not supported
dot3OamUnsupportedCodesTx (1.3.6.1.2.1.158.1.4.1.15)	read-only	Counter 32	Standard MIB values.	Number of sent OAMPDUs that do not support operation codes.	Not supported
dot3OamUnsupportedCodesRx (1.3.6.1.2.1.158.1.4.1.16)	read-only	Counter 32	Standard MIB values.	Number of received OAMPDUs that do not support operation codes.	Not supported
dot3OamFramesLostDueToOam (1.3.6.1.2.1.158.1.4.1.17)	read-only	Counter 32	Standard MIB values.	Number of dropped frames due to OAM.	Not supported

dot3OamEventConfigTable

About this table

This table contains OAM link event detection information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamErrSymPeriodWindowHi (1.3.6.1.2.1.158.1.5.1.1)	read-write	Unsigned32	Standard MIB values.	High 32 bits of the errored symbol event detection window.	Not supported
dot3OamErrSymPeriodWindowLo (1.3.6.1.2.1.158.1.5.1.2)	read-write	Unsigned32	Standard MIB values.	Low 32 bits of the errored symbol event detection window.	Not supported
dot3OamErrSymPeriodThresholdHi (1.3.6.1.2.1.158.1.5.1.3)	read-write	Unsigned32	Standard MIB values.	High 32 bits of the errored symbol event triggering threshold within the detection window.	Not supported
dot3OamErrSymPeriodThresholdLo (1.3.6.1.2.1.158.1.5.1.4)	read-write	Unsigned32	Standard MIB values.	Low 32 bits of the errored symbol event triggering threshold within the detection window.	Not supported
dot3OamErrSymPeriodEventNotifiable (1.3.6.1.2.1.158.1.5.1.5)	read-write	TruthValue	true(1), false(2)	Whether errored symbol event notification is enabled.	As per the MIB.
dot3OamErrFramePeriodWindow (1.3.6.1.2.1.158.1.5.1.6)	read-write	Unsigned32	100..6000(V5) 1-65535(V7)	Errored frame period event detection window.	Value range: 1 to 65535. Default: 1000.
dot3OamErrFramePeriodThreshold (1.3.6.1.2.1.158.1.5.1.7)	read-write	Unsigned32	0..4294967295	Errored frame period event triggering threshold.	As per the MIB.
dot3OamErrFramePeriodEventNotifiable (1.3.6.1.2.1.158.1.5.1.8)	read-write	TruthValue	true(1), false(2)	Whether errored frame period event notification is enabled.	As per the MIB.
dot3OamErrFrameWindow (1.3.6.1.2.1.158.1.5.1.9)	read-write	Unsigned32	10..600	Errored frame event detection window.	Value range: 10 -600. Default: 10.
dot3OamErrFrameThreshold (1.3.6.1.2.1.158.1.5.1.10)	read-write	Unsigned32	0..4294967295	Errored frame event triggering threshold.	As per the MIB.
dot3OamErrFrameEventNotifiable (1.3.6.1.2.1.158.1.5.1.11)	read-write	TruthValue	true(1), false(2)	Whether errored frame event notification is enabled.	As per the MIB.
dot3OamErrFrameSecsSummaryWindow (1.3.6.1.2.1.158.1.5.1.12)	read-write	Integer32	100..9000	Errored frame seconds event detection window.	Value range: 100 to 9000 Default: 600.
dot3OamErrFrameSecsSummaryThreshold (1.3.6.1.2.1.158.1.5.1.13)	read-write	Integer32	1..900	Errored frame seconds event triggering threshold.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamErrFrameSecsEvNotif Enable (1.3.6.1.2.1.158.1.5.1.14)	read-write	TruthValue	true(1), false(2)	Whether errored frame seconds event notification is enabled.	As per the MIB.
dot3OamDyingGaspEnable (1.3.6.1.2.1.158.1.5.1.15)	read-write	TruthValue	true(1), false(2)	Whether Dying Gasp notification is enabled.	Not supported
dot3OamCriticalEventEnable (1.3.6.1.2.1.158.1.5.1.16)	read-write	TruthValue	true(1), false(2)	Whether critical event notification is enabled.	Not supported

dot3OamEventLogTable

About this table

This table contains OAM event log information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and dot3OamEventLogIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
dot3OamEventLogIndex (1.3.6.1.2.1.158.1.6.1.1)	not-accessible	Unsigned32	1..100	Event index.	As per the MIB.
dot3OamEventLogTimestamp (1.3.6.1.2.1.158.1.6.1.2)	read-only	TimeStamp	Standard MIB values.	Timestamp of the event.	As per the MIB.
dot3OamEventLogOui (1.3.6.1.2.1.158.1.6.1.3)	read-only	EightOctetOui	OCTET STRING(3)	OUI of the event packet.	As per the MIB.
dot3OamEventLogType (1.3.6.1.2.1.158.1.6.1.4)	read-only	Unsigned32	erroredSymbolEvent(1),erroredFramePeriodEvent(2),erroredFrameEvent(3),erroredFrameSecondsEvent(4),linkFault(256),dyingGaspEvent(257),criticalLinkEvent(258)	Event type.	As per the MIB.
dot3OamEventLogLocation (1.3.6.1.2.1.158.1.6.1.5)	read-only	INTEGER	local(1), remote(2)	Whether the event is a local event or a peer event.	As per the MIB.
dot3OamEventLogWindowHi (1.3.6.1.2.1.158.1.6.1.6)	read-only	Unsigned32	Standard MIB values.	High bits of the event statistics window.	As per the MIB.
dot3OamEventLogWindowLo (1.3.6.1.2.1.158.1.6.1.7)	read-only	Unsigned32	Standard MIB values.	Low bits of the event statistics window.	As per the MIB.
dot3OamEventLogThresholdHi	read-only	Unsigned	Standard MIB	High bits of the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.158.1.6.1.8)		d32	values.	event statistics threshold.	
dot3OamEventLogThresholdLo (1.3.6.1.2.1.158.1.6.1.9)	read-only	Unsigned d32	Standard MIB values.	Low bits of the event statistics threshold.	As per the MIB.
dot3OamEventLogValue (1.3.6.1.2.1.158.1.6.1.10)	read-only	Counter Based Gauge64	Standard MIB values.	Number of occurrences for the event exceeding the threshold within the window.	As per the MIB.
dot3OamEventLogRunningTotal (1.3.6.1.2.1.158.1.6.1.11)	read-only	Counter Based Gauge64	Standard MIB values.	Total number of occurrences for the running event.	As per the MIB.
dot3OamEventLogEventTotal (1.3.6.1.2.1.158.1.6.1.12)	read-only	Unsigned d32	Standard MIB values.	Total number of times the event has occurred.	As per the MIB.

Notifications

This section contains trap notifications.

dot3OamThresholdEvent

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.158.0.1	A threshold-crossing event is detected.	Informational	N/A	N/A	OFF

Description

A notification sent when a threshold-crossing event is detected on the local or remote end. A device detects local threshold-crossing events through the local entity and detects remote threshold-crossing events through received OAMPDUs.

Status control

ON

MIB: Set dot3OamErrSymEvNotifEnable to true(1).

MIB: Set dot3OamErrFramePeriodEvNotifEnable to true(1).

MIB: Set dot3OamErrFrameEvNotifEnable to true(1).

MIB: Set dot3OamErrFrameSecsEvNotifEnable to true(1).

OFF

MIB: Set dot3OamErrSymEvNotifEnable to false(0)

MIB: Set dot3OamErrFramePeriodEvNotifEnable to false(0).

MIB: Set dot3OamErrFrameEvNotifEnable to false(0).

MIB: Set dot3OamErrFrameSecsEvNotifEnable to false(0).

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.158.1.6.1.2 (dot3OamEventLogTimestamp)	Timestamp of the event.	No	TimeStamp	TimeTicks
1.3.6.1.2.1.158.1.6.1.3 (dot3OamEventLogOui)	OUI of the event packet.	No	EightOTwoOui	OCTET STRING (SIZE (1..255))
1.3.6.1.2.1.158.1.6.1.4 (dot3OamEventLogType)	Event type.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.158.1.6.1.5 (dot3OamEventLogLocation)	Whether the event is a local event or a peer event.	No	INTEGER	local(1) remote(2)
1.3.6.1.2.1.158.1.6.1.6 (dot3OamEventLogWindowHi)	High bits of the event statistics window.	No	Unsigned32	0..65535
1.3.6.1.2.1.158.1.6.1.7 (dot3OamEventLogWindowLo)	Low bits of the event statistics window.	No	Unsigned32	0..65535
1.3.6.1.2.1.158.1.6.1.8 (dot3OamEventLogThresholdHi)	High bits of the event statistics threshold.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.158.1.6.1.9 (dot3OamEventLogThresholdLo)	Low bits of the event statistics threshold.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.158.1.6.1.10 (dot3OamEventLogValue)	Number of occurrences for the event exceeding the threshold within the window.	No	CounterBasedGauge64	Counter64
1.3.6.1.2.1.158.1.6.1.11 (dot3OamEventLogRunningTotal)	Total number of occurrences for the running event.	No	CounterBasedGauge64	Counter64
1.3.6.1.2.1.158.1.6.1.12 (dot3OamEventLogEventTotal)	Total number of times the event has occurred.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Detect links.

dot3OamNonThresholdEvent

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.158.0.2	A non-threshold-crossing event is detected.	Error	Major	N/A	ON

Description

A notification sent when a non-threshold-crossing event is detected on the local or remote end. A device detects local non-threshold-crossing events through the local entity and detects remote non-threshold-crossing events through received OAMPDUs.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.158.1.6.1.2 (dot3OamEventLogTimestamp)	Timestamp of the event.	No	TimeStamp	TimeTicks
1.3.6.1.2.1.158.1.6.1.3 (dot3OamEventLogOui)	OUI of the event packet.	No	EightOTwoOui	OCTET STRING (SIZE (1..255))
1.3.6.1.2.1.158.1.6.1.4 (dot3OamEventLogType)	Event type.	No	Unsigned32	linkFault(256) dyingGaspEvent(257) criticalLinkEvent(258)
1.3.6.1.2.1.158.1.6.1.5 (dot3OamEventLogLocation)	Whether the event is a local event or a peer event.	No	INTEGER	local(1) remote(2)
1.3.6.1.2.1.158.1.6.1.12 (dot3OamEventLogEventTotal)	Total number of times the event has occurred.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Do not use the link before it recovers.

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HH3C-BFD-STD-MIB

About this MIB

Upper layer protocols implement fast fault detection through the link layer. The fault detection time varies by link type, and failures might not be detected sometimes. POS has the fastest detection speed of approximately 50 milliseconds, which is used to measure fault detection time for other protocols.

BFD provides a general-purpose, standard, medium- and protocol-independent fast failure detection mechanism. BFD can uniformly and quickly detect the failures of the bidirectional forwarding paths between two devices for upper-layer protocols such as routing protocols and MPLS. BFD can provide detection measured in milliseconds, which is close to the detection time implemented by POS.

This document describes the following variables required to implement BFD:

- hh3cBfdGlobalObjects includes hh3cBfdVersionNumber (version number), hh3cBfdSysInitMode (session initialization mode), hh3cBfdSessNotificationsEnable (SNMP notifications switch), and hh3cBfdSessNumberLimit (session limit).
- hh3cBfdIfTable describes BFD interface information.
- hh3cBfdSessTable describes BFD session information.
- hh3cBfdSessStatTable describes BFD session statistics information.
- hh3cBfdSessPerfTable describes BFD session performance information.
- In hh3cBfdNotifications, hh3cBfdSessStateChange describes session state changes (from up to another state, or from another state to up), and hh3cBfdSessAuthFail describes authentication failure information.

HH3C-BFD-STD-MIB is based on draft-ietf-bfd-base-04.txt. This MIB is used for network management protocols in the Internet communities. It describes the objects used to configure or monitor bidirectional forwarding on devices supporting BFD.

MIB file name

hh3c-bfd-std.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cBfdMIB(72)

Scalar objects

hh3cBfdVersionNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdVersionNumber(1.3.6.1.4.1.25506.2.72.1.1.1)	read-only	Unsigned 32	Standard MIB values.	Version number.	Not supported

hh3cBfdSysInitMode

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSysInitMode(1.3.6.1.4.1.25506.2.72.1.1.2)	read-write	INTEGER	active(1), passive(2)	Mode for establishing a BFD session.	Not supported

hh3cBfdSessNotificationsEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSessNotificationsEnable(1.3.6.1.4.1.25506.2.72.1.1.3)	read-write	TruthValue	true(1), false(2)	Whether SNMP notifications is enabled.	As per the MIB.

hh3cBfdSessNumberLimit

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSessNumberLimit(1.3.6.1.4.1.25506.2.72.1.1.4)	read-only	Unsigned 32	Standard MIB values.	Active session limit.	Not supported

Tabular objects

hh3cBfdIfTable

About this table

This table contains information about the interface enabled with BFD.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cBfdIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdIfIndex(1.3.6.1.4.1.25506.2.72.1.2.1.1)	read-only	Interface Index	Integer32 (1..2147483647)	Index of the interface enabled with BFD.	As per the MIB.
hh3cBfdIfDesiredMinTxInterval(1.3.6.1.4.1.25506.2.72.1.2.1.2)	read-write	BfdInterval	Unsigned 32(1..4294967295)	Minimum interval for transmitting BFD control packets.	Supports only the read operation.
hh3cBfdIfDesiredMinRxInterval(1.3.6.1.4.1.25506.2.72.1.2.1.3)	read-write	BfdInterval	Unsigned 32(1..4294967295)	Minimum interval for receiving BFD control packets.	Supports only the read operation.
hh3cBfdIfDetectMult(1.3.6.1.4.1.25506.2.72.1.2.1.4)	read-write	Unsigned 32	Standard MIB	Detection time multiplier for control packet	Supports only the read operation.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			values.	mode.	
hh3cBfdIfAuthType(1.3.6.1.4.1.25506.2.72.1.2.1.5)	read-only	INTEGER	none(1), simple(2), md5(3), mmd5(4), sha1(5), msha1(6). The default value is none.	BFD authentication mode for BFD control packets.	As per the MIB.

hh3cBfdSessTable

About this table

This table contains BFD session information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is hh3cBfdSessIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSessIndex (1.3.6.1.4.1.25506.2.72.1.3.1.1)	accessible-for-notify	BfdSessIndex TC	Unsigned32(0..4294967295)	Session index that uniquely identifies a session.	As per the MIB.
hh3cBfdSessIfIndex (1.3.6.1.4.1.25506.2.72.1.3.1.2)	read-only	InterfaceIndex	Integer32(1..2147483647)	Index of the interface where the BFD session resides.	As per the MIB.
hh3cBfdSessAppSupportId(1.3.6.1.4.1.25506.2.72.1.3.1.3)	read-only	Hh3cAlarmStatus	BITS { none(0), ospf(1), isis(2), bgp(3), mpls(4) }	Upper-layer protocols supported by the BFD session.	As per the MIB.
hh3cBfdSessLocalDiscr (1.3.6.1.4.1.25506.2.72.1.3.1.4)	read-only	Unsigned32	Standard MIB values.	Local discriminator of the BFD session, which is a unique non-zero value.	As per the MIB.
hh3cBfdSessRemoteDiscr(1.3.6.1.4.1.25506.2.72.1.3.1.5)	read-only	Unsigned32	Standard MIB values.	Remote discriminator of the BFD session. The initial value is 0.	As per the MIB.
hh3cBfdSessDstPort(1.3.6.1.4.1.25506.2.72.1.3.1.6)	read-only	InetPortNumber	Standard MIB values.	UDP port number of the BFD session.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
3.1.6)			The default value is 3784.		
hh3cBfdSessOperMode(1.3.6.1.4.1.25506.2.72.1.3.1.7)	read-only	INTEGER	asynchModeWoeEchoFun(1), demandModeWoeEchoFunction(2), asynchModeWoeEchoFun(3), demandModeWoeEchoFunction(4). The default value is asynchModeWoeEchoFun.	BFD session mode.	As per the MIB.
hh3cBfdSessAddrType(1.3.6.1.4.1.25506.2.72.1.3.1.8)	read-only	InetAddressType	INTEGER{ unknown(0), ipv4(1), ipv6(2), dns(16) }	IP address type of the interface where the BFD session resides.	As per the MIB.
hh3cBfdSessLocalAddr(1.3.6.1.4.1.25506.2.72.1.3.1.9)	read-only	InetAddress	OCTET STRING (0..255)	IP address of the interface where the BFD session resides.	As per the MIB.
hh3cBfdSessRemoteAddr(1.3.6.1.4.1.25506.2.72.1.3.1.10)	read-only	InetAddress	OCTET STRING (0..255)	IP address of the interface that receives BFD packets.	As per the MIB.
hh3cBfdSessLocalDiag(1.3.6.1.4.1.25506.2.72.1.3.1.11)	read-only	BfdDiag	noDiagnostic(1), controlDetectionTimeExpired(2), echoFunctionFailed(3), neighborSignaledSessionDown(4), forwardingPlaneReset(5), pathDown(6), concatenatedPathDown(7), administrativelyDown(8), reverseConcatenatedPathDown(9). The default value is noDiagnostic.	Diagnosis code that indicates the most recent BFD session state change reason.	As per the MIB.
hh3cBfdSessState(1.3.6.1.4.1.25506.2.72.1.3.1.12)	read-only	INTEGER	adminDown(0), down(1), init(2), up(3), The default value is DOWN.	Current state of the BFD session.	As per the MIB.
hh3cBfdSessControlPlaneIndepFlag(1.3.6.1.4.1.25506.2.72.1.3.1.13)	read-only	TruthValue	true(1), false(2). The default value is false.	Whether the BFD session can operate independently of the control plane.	As per the MIB.
hh3cBfdSessAuthFlag(1.3.6.1.4.1.25506.2.72.1.3.1.14)	read-only	TruthValue	true(1), false(2). The default value is	Flag that indicates whether the BFD session requires	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
1.3.1.14)			false.	authentication.	
hh3cBfdSessDemandModeFlag(1.3.6.1.4.1.25506.2.72.1.3.1.15)	read-only	TruthValue	true(1), false(2) The default value is false.	Whether the BFD session supports the Demand mode.	As per the MIB.

hh3cBfdSessStatTable

About this table

This table contains BFD packet statistics information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSessStatPktInHC(1.3.6.1.4.1.25506.2.72.1.4.1.1)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of received BFD packets.	Not supported
hh3cBfdSessStatPktOutHC(1.3.6.1.4.1.25506.2.72.1.4.1.2)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of sent BFD packets.	Not supported
hh3cBfdSessStatDownCount(1.3.6.1.4.1.25506.2.72.1.4.1.3)	read-only	Counter32	INTEGER(0..4294967295)	Number of times the BFD session has entered down state since the most recent reboot of the system.	Not supported
hh3cBfdSessStatPktDiscard(1.3.6.1.4.1.25506.2.72.1.4.1.4)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of BFD control packets discarded by the receiver since the most recent reboot of the system.	Not supported
hh3cBfdSessStatPktLost(1.3.6.1.4.1.25506.2.72.1.4.1.5)	read-only	Counter64	INTEGER(0..18446744073709551615)	Number of BFD control packets failed to be sent since the most recent reboot of the system.	Not supported

hh3cBfdSessPerfTable

About this table

This table contains performance information about a BFD session.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cBfdSessPerfCreatTime(1.3.6.1.4.1.25506.2.72.1.5.1.1)	read-only	TimeStam p	TimeTick s	System time when the BFD session was created.	Not supported
hh3cBfdSessPerfLastUpTime(1.3.6.1.4.1.25506.2.72.1.5.1.2)	read-only	TimeStam p	TimeTick s	System time when the BFD session entered up state.	Not supported
hh3cBfdSessPerfLastDownTime(1.3.6.1.4.1.25506.2.72.1.5.1.3)	read-only	TimeStam p	TimeTick s	System time when the BFD session entered down state.	Not supported

Notifications

hh3cBfdSessStateUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.72.0.3	The BFD session comes up.	Informational	-	-	ON

Description

A notification sent when the BFD session comes up. A BFD session comes up upon completing three-way handshakes.

Status control

ON

CLI: Use the `snmp-agent trap enable bfd` command.

OFF

CLI: Use the `undo snmp-agent trap enable bfd` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.72.1.3.1.1 (hh3cBfdSessIndex)	Session index.	Yes	BfdSessIndexT C	Standard MIB values.
1.3.6.1.4.1.25506.2.72.1.3.1.2 (hh3cBfdSessIfIndex)	Index of the interface where the BFD session resides.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.72.1.3.1.12 (hh3cBfdSessState)	Session state.	No	INTEGER	adminDown(0) down(1) init(2) up(3)
1.3.6.1.4.1.25506.2.72.3.1 (hh3cBfdSessName)	Session name.	No	OCTET STRING (0..64)	Standard MIB values. No value is displayed if the session name does not exist.
1.3.6.1.4.1.25506.2.72.3.2 (hh3cBfdVpnInstanceName)	Name of the VPN to which session is bound.	No	OCTET STRING (0..31)	Standard MIB values. No value is displayed if the session is not bound to any VPNs.
1.3.6.1.4.1.25506.2.72.3.3 (hh3cBfdLocalAddr)	Source address of the session.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.72.3.4 (hh3cBfdRemoteAddr)	Destination address of the session.	No	DisplayString	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cBfdSessStateDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.72.0.4	The BFD session goes down.	Informational	Major	N/A	ON

Description

A notification sent when the BFD session goes down. A BFD session goes down after the communication path fails.

Status control

ON

CLI: Use the `snmp-agent trap enable bfd` command.

OFF

CLI: Use the `undo snmp-agent trap enable bfd` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.72.1.3.1.1 (hh3cBfdSessIndex)	Session index.	Yes	BfdSessIndexTC	Standard MIB values.
1.3.6.1.4.1.25506.2.72.1.3.1.2 (hh3cBfdSessIfIndex)	Index of the interface where the BFD session resides.	No	InterfaceIndex	Integer32 (1..2147483647)
1.3.6.1.4.1.25506.2.72.1.3.1.12 (hh3cBfdSessState)	Session state.	No	INTEGER	adminDown(0) down(1) init(2) up(3)
1.3.6.1.4.1.25506.2.72.3.1 (hh3cBfdSessName)	Session name.	No	OCTET STRING (0..64)	Standard MIB values. No value is displayed if the session name does not exist.
1.3.6.1.4.1.25506.2.72.3.2 (hh3cBfdVpnInstanceName)	Name of the VPN to which session is bound.	No	OCTET STRING (0..31)	Standard MIB values. No value is displayed if the session is not bound to any VPNs.
1.3.6.1.4.1.25506.2.72.3.3 (hh3cBfdLocalAddr)	Source address of the session.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.2.72.3.4 (hh3cBfdRemoteAddr)	Destination address of the session.	No	DisplayString	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cBfdSessReachLimit

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.72.0.5	The number of BFD sessions has reached the upper limit.	Informational	Major	N/A	ON

Description

A notification sent when the number of BFD sessions has reached the upper limit on the device. After the notification, new sessions will not become active.

Status control

ON

CLI: Use the `snmp-agent trap enable bfd` command.

OFF

CLI: Use the `undo snmp-agent trap enable bfd` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.72.1.1.4 (hh3cBfdSessNumberLimit)	Upper limit of BFD sessions.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

To resolve the issue:

1. Delete unnecessary BFD sessions.
2. If the issue persists, contact H3C Support.

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HH3C-DLDP2-MIB

About this MIB

HH3C-DLDP2-MIB is a private MIB used to implement network management on the DLDP feature. Use this MIB to enable DLDP globally or on a port, and obtain port running state information, link state information, and DLDP neighbor information.

MIB file name

hh3c-dldp2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cDldp2(117)

Scalar objects

hh3cDldp2GlobalEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2GlobalEnable (1.3.6.1.4.1.25506.2.117.1.1)	read-write	TruthValue	true(1), false(2)	Whether DLDP is enabled globally.	As per the MIB.

hh3cDldp2Interval

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2Interval (1.3.6.1.4.1.25506.2.117.1.2)	read-write	Integer32	Integer32(1..100)	Advertisement packet sending interval.	As per the MIB.

hh3cDldp2AuthMode

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2AuthMode (1.3.6.1.4.1.25506.2.117.1.3)	read-write	INTEGER	unknown(1), none(2), simple(3), md5(4)	Authentication mode.	As per the MIB.

hh3cDldp2AuthPassword

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2AuthPassword (1.3.6.1.4.1.25506.2.117.1.4)	read-write	OCTET STRING	OCTET STRING (0..16)	Authentication password.	As per the MIB.

hh3cDldp2UniShutdown

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2UniShutdown (1.3.6.1.4.1.25506.2.117.1.5)	read-write	INTEGER	unknown(1), auto(2), manual(3)	Port shutdown mode on detecting a unidirectional link.	As per the MIB.

Tabular objects

hh3cDldp2PortConfigTable

About this table

Use this table to enable DLDP on a port and obtain DLDP port configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2PortEnable (1.3.6.1.4.1.25506.2.117.2.1.1.1)	read-write	TruthValue	true(1), false(2)	Whether DLDP is enabled on the port.	As per the MIB.

hh3cDldp2PortStatusTable

About this table

Use this table to obtain DLDP port state and link state information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is ifIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2PortOperStatus (1.3.6.1.4.1.25506.2.117.2.2.1.1)	read-only	INTEGER	unknown(1), initial(2), inactive(3), unidirectional(4), bidirectional(5)	Port state.	As per the MIB.
hh3cDldp2PortLinkStatus (1.3.6.1.4.1.25506.2.117.2.2.1.2)	read-only	INTEGER	unknown(1), down(2), up(3)	Link state.	As per the MIB.

hh3cDldp2NeighborTable

About this table

Use this table to obtain neighbor information about a port.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are ifIndex, hh3cDldp2NeighborBridgeMac, and hh3cDldp2NeighborPortIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cDldp2NeighborBridgeMac (1.3.6.1.4.1.25506.2.117.2.3.1.1)	not-accessible	MacAddress	OCTET STRING (6)	Bridge MAC address of the neighbor.	As per the MIB.
hh3cDldp2NeighborPortIndex(1.3.6.1.4.1.25506.2.117.2.3.1.2)	not-accessible	Integer32	Integer32(1..2147483647)	Port index of the neighbor.	As per the MIB.
hh3cDldp2NeighborStatus (1.3.6.1.4.1.25506.2.117.2.3.1.3)	read-only	INTEGER	unknown(1), unconfirmed(2), confirmed(3)	State of the neighbor.	As per the MIB.
hh3cDldp2NeighborAgingTime (1.3.6.1.4.1.25506.2.117.2.3.1.4)	read-only	Integer32	Standard MIB values.	Aging time of the neighbor.	As per the MIB.

Notifications

This section contains trap notifications.

hh3cDldp2TrapUniLink

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.117.4.0.1	This notification is generated when DLDP detects unidirectional links.	Failure	Major	-	ON

Description

A notification sent when DLDP detects unidirectional links.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Y	InterfaceIndex	1..2147483647
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	N	DisplayString	OCTET STRING (SIZE (0..255))

Recommended action

Disable the interface, and restore the unidirectional links. If the issue cannot be resolved, contact H3C Support.

hh3cDldp2TrapBidLink

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.117.4.0.2	This notification is generated when DLDP detects bidirectional links.	Failure recovery	-	-	ON

Description

A notification sent when DLDP detects bidirectional links.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index.	Y	InterfaceIndex	1..2147483647

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface description.	N	DisplayString	OCTET STRING (SIZE (0..255))

Recommended action

No action is required.

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HH3C-ERPS-MIB

About this MIB

HH3C-ERPS-MIB is a private MIB used to implement network management for ERPS. Use this MIB to bind a ring port to an ERPS ring or obtain port state information.

MIB file name

hh3c-erps.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cErps(225)

Notifications

hh3cErpsPortStateForwarding

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.223.1.0.1	The ERPS ring port transitions to forwarding state.	Informational	Warning	N/A	ON

Description

A notification sent when the ERPS ring port state becomes forwarding.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.223.1.1.1 (hh3cErpsRingID)	ID of the ERPS ring.	N	Integer32	Integer32 (1..255)
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the interface	N	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Name of the interface.	N	OCTET STRING	OCTET STRING (0..255)

Recommended action

1. Examine the link attached to the blocked port.
2. If the issue persists, contact H3C Support.

hh3cErpsPortStateDiscarding

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.223.1.0.2	The ERPS ring port transitions to blocked state.	Informational	N/A	1.3.6.1.4.1.25506.2.223.1.0.1 (hh3cErpsPortStateForwarding)	ON

Description

A notification sent when the ERPS ring port state becomes blocked.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.223.1.1.1 (hh3cErpsRingID)	ID of the ERPS ring.	N	Integer32	Integer32 (1..255)
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Index of the interface	N	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Name of the interface.	N	OCTET STRING	OCTET STRING (0..255)

Recommended action

1. Examine the link attached to the blocked port.
2. If the issue persists, contact H3C Support.

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HH3C-ETHOAM-MIB

About this MIB

This MIB is a private MIB to implement Ethernet OAM functions.

MIB file name

hh3c-ethoam.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cEthoam(226)

Notifications

hh3cEthoamNonThresholdRecovery

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.226.1.0.1	The alarm for a non-threshold-crossing event is cleared.	Informational	-	-	ON

Description

A notification sent when the alarm for a non-threshold-crossing event is cleared on the local or remote end.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface name	No	OCTET STRING	OCTET STRING (0..255)
1.3.6.1.2.1.158.1.6.1.2 (dot3OamEventLogTimestamp)	Timestamp of the event.	No	TimeStamp	TimeTicks
1.3.6.1.2.1.158.1.6.1.3 (dot3OamEventLogOui)	OUI of the event packet.	No	EightOTwoOui	OCTET STRING (SIZE (1..255))

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.158.1.6.1.4 (dot3OamEventLogType)	Event type.	No	Unsigned32	linkFault(256) dyingGaspEvent(257) criticalLinkEvent(258)
1.3.6.1.2.1.158.1.6.1.5 (dot3OamEventLogLocation)	Whether the event is a local event or a peer event.	No	INTEGER	local(1) remote(2)
1.3.6.1.2.1.158.1.6.1.12 (dot3OamEventLogTimestamp)	Total number of times the event has occurred.	No	Unsigned32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

hh3cEthoamLoopbackFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506. 2.226.1.0.2	Loopback detection fails to be enabled on an interface.	Informational	Warning	-	ON

Description

This notification is generated when loopback detection fails to be enabled on an interface.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.2.2.1.1 (ifIndex)	Interface index	No	Integer32	Integer32 (1..2147483647)
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface name	No	OCTET STRING	OCTET STRING (0..255)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Verify that the OAM connection is established correctly. If the problem persists, contact H3C Support.

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HH3C-RRPP-MIB

About this MIB

The Rapid Ring Protection Protocol (RRPP) is a link layer protocol designed for Ethernet rings. RRPP can prevent broadcast storms caused by data loops when an Ethernet ring is healthy. RRPP can also rapidly restore the communication paths between the nodes when a link is disconnected on the ring.

Use this MIB to define management information for devices that support RRPP.

MIB file name

hh3c-rrpp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).h3c(10).h3cCommon(2).h3cRrpp(45)

Scalar objects

hh3cRrppEnableStatus

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppEnableStatus (1.3.6.1.4.1.25506.2.45.1.1)	read-write	INTEGER	enabled(1), disabled(2)	Whether RRPP is enabled on the device globally.	As per the MIB.

hh3cRrppPassword

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppPassword (1.3.6.1.4.1.25506.2.45.1.2)	read-write	OCTET STRING	OCTET STRING(SIZE(1..16))	Password configured for RRPP.	Not supported

hh3cRrppPasswordType

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppPasswordType (1.3.6.1.4.1.25506.2.45.1.3)	read-write	INTEGER	simple(1),cipher(2)	Password type.	Not supported

hh3cRrppProtectVlanConfigMode

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppProtectVlanConfigMode (1.3.6.1.4.1.25506.2.45.1.4)	read-only	INTEGER	vlan(1), instance(2)	Mode in which the protected VLANs are configured for RPPP.	As per the MIB.

Tabular objects

hh3cRrppDomainTable

About this table

This table contains RRPP domain configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
<ol style="list-style-type: none">1. A maximum of 128 RRPP domains can be created.2. When creating an RRPP domain, you must configure hh3cRrppDomainControlVlanID.3. hh3cRrppDomainID must be configured.4. hh3cRrppDomainHelloTime and hh3cRrppDomainFailTime are optional. If configuration is required, they must be both configured.5. By default, hh3cRrppDomainHelloTime is 1 and hh3cRrppDomainFailTime is 3.6. The hh3cRrppDomainFailTime value must be greater than or equal to three times the hh3cRrppDomainHelloTime value.7. hh3cRrppDomainInstanceListLow and hh3cRrppDomainInstanceListHigh are optional. If configuration is required, they must be both configured.8. hh3cRrppDomainProtectVlanListLow and hh3cRrppDomainProtectVlanListHigh are optional. If configuration is required, they must be both configured.9. If the value of hh3cRrppProtectVlanConfigMode is vlan, you can only use hh3cRrppDomainProtectVlanListLow and hh3cRrppDomainProtectVlanListHigh to configure protected VLANs. Configuration for the hh3cRrppDomainInstanceListLow and hh3cRrppDomainInstanceListHigh nodes does not take effect. If the value of hh3cRrppProtectVlanConfigMode is instance, you can only use	<ol style="list-style-type: none">1. hh3cRrppDomainControlVlanID cannot be modified after being created.2. To modify hh3cRrppDomainHelloTime and hh3cRrppDomainFailTime, configure the values for them at the same time.3. The hh3cRrppDomainFailTime value must be greater than or equal to three times the hh3cRrppDomainHelloTime value.4. To modify hh3cRrppDomainInstanceListLow and hh3cRrppDomainInstanceListHigh, configure the values for them at the same time.5. To modify hh3cRrppDomainProtectVlanListLow and hh3cRrppDomainProtectVlanListHigh, configure the values for them at the same time.6. If the value of hh3cRrppProtectVlanConfigMode is vlan, you can only use hh3cRrppDomainProtectVlanListLow and hh3cRrppDomainProtectVlanListHigh to configure protected VLANs. Configuration for the hh3cRrppDomainInstanceListLow and hh3cRrppDomainInstanceListHigh nodes does not take effect. If the value of hh3cRrppProtectVlanConfigMode is instance, you can only use hh3cRrppDomainInstanceListLow and hh3cRrppDomainInstanceListHigh to configure VLANs mapped to the specified MSTIs as protected VLANs. Configuration for the hh3cRrppDomainProtectVlanListLow	An RRPP domain that has RRPP rings cannot be deleted.	Supported

Create	Edit/Modify	Delete	Read
<p>h3cRrpDomainInstanceListLow and h3cRrpDomainInstanceListHigh to configure VLANs mapped to the specified MSTIs as protected VLANs. Configuration for the h3cRrpDomainProtectVlanListLow and h3cRrpDomainProtectVlanListHigh nodes does not take effect.</p> <p>10. When configuring h3cRrpDomainControlVlanID, make sure the VLAN does not exist nor is a reserved VLAN.</p>	<p>and h3cRrpDomainProtectVlanListHigh nodes does not take effect.</p>		

Columns

The table index is h3cRrpDomainID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrpDomainID (1.3.6.1.4.1.25506.2.45.2.1.1.1)	accessible-for-notify	Integer	1..16128	RRPP domain ID	As per the MIB.
hh3cRrpDomainControlVlanID (1.3.6.1.4.1.25506.2.45.2.1.1.2)	read-create	Integer32	2..4094 65535	Control VLAN ID	<ol style="list-style-type: none"> 1. This object sets the primary control VLAN by its ID in the range of 2 to 4093. The secondary control VLAN ID is automatically configured by using the primary control VLAN ID plus 1. 2. A control VLAN already configured for an RRPP domain cannot be modified or deleted. 3. Make sure the control VLAN for the RRPP domain has not been created nor reserved.
hh3cRrpDomainHelloTime (1.3.6.1.4.1.25506.2.45.2.1.1.3)	read-create	Integer32	1..10	Hello timer of the RRPP domain.	As per the MIB.
hh3cRrpDomainFailTime (1.3.6.1.4.1.25506.2.45.2.1.1.4)	read-create	Integer32	3..30	Fail timer of the RRPP domain.	As per the MIB.
hh3cRrpDomainRowStatus (1.3.6.1.4.1.25506.2.45.2.1.1.5)	read-create	RowStatus	SIZE(256)	Row status.	As per the MIB.
hh3cRrpDomainInstanceListLow	read-create	OCTET STRING		Low MSTI ID of the MSTI list	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.45.2.1.1.6)				mapped to protected VLANs.	
hh3cRrppDomainInstanceListHigh (1.3.6.1.4.1.25506.2.45.2.1.1.7)	read-create	OCTET STRING	SIZE(256)	High MSTI ID of the MSTI list mapped to protected VLANs.	As per the MIB.

hh3cRrppRingTable

About this table

This table contains RRPP ring configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
<ol style="list-style-type: none"> 1. A maximum of 128 RRPP rings can be created for an RRPP domain. 2. hh3cRrppDomainID must be configured. This index is provided by hh3cRrppDomainID in hh3cRrppDomainTable. 3. hh3cRrppRingID must be configured. 4. The ring IDs in an RRPP domain must be different. The ring IDs in different RRPP domains can be the same. 5. You must configure hh3cRrppRingNodeMode, hh3cRrppRingPrimaryPort, hh3cRrppRingSecondaryPort, and hh3cRrppRingLevel. 6. hh3cRrppRingEnableStatus is optional. The default value is disabled(2). 7. An RRPP ring cannot be created and enabled at the same time. You must create a ring and then enable it. 8. You must first create the primary ring and configure transit node for it before creating a subring and configure edge node and the assistant edge node for the subring. Make sure the two rings have only one common port. 	<ol style="list-style-type: none"> 1. Only the hh3cRrppRingEnableStatus value can be modified. If an RRPP domain contains both a primary ring and subrings: <ol style="list-style-type: none"> a. To set the value from disabled to enabled, first enable the primary ring and then enable the subrings. b. To set the value from enabled to disabled, first disable all subrings and then disable the primary ring. 2. Other values cannot be modified. To modify a value, delete the row and then create it again. 	<ol style="list-style-type: none"> 1. An activated domain cannot be deleted. If hh3cRrppRingActive is set to Active(1), the row cannot be deleted. 2. If subrings exist in an RRPP domain, the primary ring cannot be deleted. 	Supported

Columns

The table indexes are hh3cRrppDomainID and hh3cRrppRingID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppRingID	accessible-fo	Integer32	1..64128	RRPP ring ID.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.45.2.2.1.1)	r-notify				
hh3cRrppRingEnableStatus (1.3.6.1.4.1.25506.2.45.2.2.1.2)	read-create	INTEGER	enabled(1), disabled(2)	Enabling status of the RRPP ring.	As per the MIB.
hh3cRrppRingActive (1.3.6.1.4.1.25506.2.45.2.2.1.3)	read-only	INTEGER	active(1),inactive(2)	Whether the RRPP ring is activated.	As per the MIB.
hh3cRrppRingState (1.3.6.1.4.1.25506.2.45.2.2.1.4)	read-only	INTEGER	unknown(1), health(2), fault(3)	RRPP ring state.	As per the MIB.
hh3cRrppRingNodeMode (1.3.6.1.4.1.25506.2.45.2.2.1.5)	read-create	INTEGER	master(1), transit(2), edge(3), assistantEdge(4)	Node mode of the device in the RRPP ring.	As per the MIB.
hh3cRrppRingPrimaryPort (1.3.6.1.4.1.25506.2.45.2.2.1.6)	read-create	Integer32	Standard MIB values.	Primary port of the device in the RRPP ring.	<ol style="list-style-type: none"> On a primary node or transit node, the value is the interface index of the primary port. If no primary port exists, the value is 0. Common port on an edge node or the assistant edge node.
hh3cRrppRingSecondaryPort (1.3.6.1.4.1.25506.2.45.2.2.1.7)	read-create	Integer32	Standard MIB values.	Secondary port of the device in the RRPP ring.	If no secondary port or edge port exist, the value is 0.
hh3cRrppRingLevel (1.3.6.1.4.1.25506.2.45.2.2.1.8)	read-create	INTEGER	majorRing(1), subRing(2)	RRPP ring level.	As per the MIB.
hh3cRrppRingRowStatus (1.3.6.1.4.1.25506.2.45.2.2.1.9)	read-create	RowStatus	active(1),notInService(2),notReady(3),createAndGo(4),createAndWait(5),destroy(6)	Row status.	As per the MIB.

hh3cRrppPortTable

About this table

This table contains RRPP port statistics information.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cRrppDomainID, h3cRrppRingID, and h3cRrppPortID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRrppPortID (1.3.6.1.4.1.25506.2.45.2.3.1.1)	not-accessible	Integer32	Standard MIB values.	Port ID.	As per the MIB.
hh3cRrppPortRole (1.3.6.1.4.1.25506.2.45.2.3.1.2)	read-only	INTEGER	primary(1), secondary(2), common(3), edge(4)	Port role.	As per the MIB.
hh3cRrppPortState (1.3.6.1.4.1.25506.2.45.2.3.1.3)	read-only	INTEGER		Port state.	As per the MIB.
hh3cRrppPortRXError (1.3.6.1.4.1.25506.2.45.2.3.1.4)	read-only	Counter32	unknown(1), unblocked(2), blocked(3), down(4)	Number of error packets received on the port.	As per the MIB.
hh3cRrppPortRXHello (1.3.6.1.4.1.25506.2.45.2.3.1.5)	read-only	Counter32	Standard MIB values.	Number of hello packets received on the port.	As per the MIB.
hh3cRrppPortRXLinkUp (1.3.6.1.4.1.25506.2.45.2.3.1.6)	read-only	Counter32	Standard MIB values.	Number of LinkUp packets received on the port.	As per the MIB.
hh3cRrppPortRXLinkDown (1.3.6.1.4.1.25506.2.45.2.3.1.7)	read-only	Counter32	Standard MIB values.	Number of LinkDown packets received on the port.	As per the MIB.
hh3cRrppPortRXCommonFlush (1.3.6.1.4.1.25506.2.45.2.3.1.8)	read-only	Counter32	Standard MIB values.	Number of CommonFlush packets received on the port.	As per the MIB.
hh3cRrppPortRXCompleteFlush (1.3.6.1.4.1.25506.2.45.2.3.1.9)	read-only	Counter32	Standard MIB values.	Number of CompleteFlush packets received on the port.	As per the MIB.
hh3cRrppPortTXHello (1.3.6.1.4.1.25506.2.45.2.3.1.10)	read-only	Counter32	Standard MIB values.	Number of hello packets sent on the port.	As per the MIB.
hh3cRrppPortTXLinkUp (1.3.6.1.4.1.25506.2.45.2.3.1.11)	read-only	Counter32	Standard MIB values.	Number of LinkUp packets sent on the port.	As per the MIB.
hh3cRrppPortTXLinkDown (1.3.6.1.4.1.25506.2.45.2.3.1.12)	read-only	Counter32	Standard MIB values.	Number of LinkDown packets sent on the port.	As per the MIB.
hh3cRrppPortTXCommonFlush	read-only	Counter32	Standard MIB values.	Number of CommonFlush packets sent on	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.45.2.3.1.13)				the port.	
hh3cRrppPortTXCompleteFlush (1.3.6.1.4.1.25506.2.45.2.3.1.14)	read-only	Counter32	Standard MIB values.	Number of CompleteFlush packets sent on the port.	As per the MIB.
hh3cRrppPortRXEdgeHello (1.3.6.1.4.1.25506.2.45.2.3.1.15)	read-only	Counter32	Standard MIB values.	Number of EdgeHello packets received on the port.	As per the MIB.
hh3cRrppPortRXMajorFault (1.3.6.1.4.1.25506.2.45.2.3.1.16)	read-only	Counter32	Standard MIB values.	Number of MajorFault packets received on the port.	As per the MIB.
hh3cRrppPortTXEdgeHello (1.3.6.1.4.1.25506.2.45.2.3.1.17)	read-only	Counter32	Standard MIB values.	Number of EdgeHello packets sent on the port.	As per the MIB.
hh3cRrppPortTXMajorFault (1.3.6.1.4.1.25506.2.45.2.3.1.18)	read-only	Counter32	Standard MIB values.	Number of MajorFault packets sent on the port.	As per the MIB.

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HH3C-SMLK-MIB

About this MIB

HH3C-SMLK-MIB is a private MIB defined to implement network management on the Smart Link feature. You can use this MIB to create, modify, and delete smart link groups. Smart link group settings include preemption mode, control VLAN, and protected VLAN. You can also configure primary and secondary ports for a smart link group, configure the flush message receiving function, and obtain configuration information.

MIB file name

hh3c-smlk.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).h3cCommon(2).hh3cSmlk(147)

Tabular objects

hh3cSmlkGroupTable

About this table

Use this table to obtain and set basic smart link group information.

Support for operations

Create	Edit/Modify	Delete	Read
If a valid value is set for hh3cSmlkSpeedThreshold, hh3cSmlkPreemptionMode must be set to speed. hh3cSmlkInstanceListLow and hh3cSmlkInstanceListHigh are optional. If configuration is required, they must be both configured.	If a valid value is set for hh3cSmlkSpeedThreshold, hh3cSmlkPreemptionMode must be set to speed. hh3cSmlkInstanceListLow and hh3cSmlkInstanceListHigh must be both configured. If member ports are configured for a smart link group, hh3cSmlkInstanceListLow and hh3cSmlkInstanceListHigh cannot be both set to 0.	To delete a smart link group with member ports configured, delete the member ports from the group first.	Supported

Columns

The table index is hh3cSmlkGroupID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSmlkGroupID (1.3.6.1.4.1.25506.2.147.1.1.1.1)	accessible-for-notify	Integer32	Integer32(1..256)	Table index.	Smart link group ID. The valid value range is 1 to 256. Supported value varies by device

Object (OID)	Access	Syntax	Value range	Description	Implementation
					model.
hh3cSmlkDeviceID (1.3.6.1.4.1.25506.2.147.1.1.1.2)	read-only	MacAddress	OCTET STRING (6)	Device ID.	As per the MIB.
hh3cSmlkPreemptionMode (1.3.6.1.4.1.25506.2.147.1.1.1.3)	read-create	INTEGER	none(1), role(2), speed(3)	Preemption mode.	As per the MIB.
hh3cSmlkSpeedThreshold (1.3.6.1.4.1.25506.2.147.1.1.1.4)	read-create	Integer32	Integer32(0..10000)	Speed preemption threshold that applies only to speed preemption mode.	Default: 0. The value takes effect when hh3cSmlkPreemptionMode is set to speed.
hh3cSmlkPreemptionDelay (1.3.6.1.4.1.25506.2.147.1.1.1.5)	read-create	Integer32	Integer32(0..300)	Preemption delay.	As per the MIB.
hh3cSmlkControlVlanID (1.3.6.1.4.1.25506.2.147.1.1.1.6)	read-create	Integer32	Integer32(1..4094 65535)	Control VLAN.	Default: 1. The value 65535 is invalid, indicating not configured.
hh3cSmlkInstanceListLow (1.3.6.1.4.1.25506.2.147.1.1.1.7)	read-create	OCTET STRING	OCTET STRING (256)	Low bits of MSTIs mapped to protected VLANs.	As per the MIB.
hh3cSmlkInstanceListHigh (1.3.6.1.4.1.25506.2.147.1.1.1.8)	read-create	OCTET STRING	OCTET STRING (256)	High bits of MSTIs mapped to protected VLANs.	As per the MIB.
hh3cSmlkGroupRowStatus (1.3.6.1.4.1.25506.2.147.1.1.1.9)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

hh3cSmlkPortTable

About this table

Use this table to obtain and set Smart Link port information.

Support for operations

Create	Edit/Modify	Delete	Read
Before creating hh3cSmlkPortTable, you must create protected	Once set, the port roles of the smart link group cannot be modified.	Supported	Supported

VLANs. Do not enable STP, RRPP, or ERPS for the port. When assigning a port to multiple smart link groups, configure each group with a different protected VLAN. Port roles must be specified for the smart link group.			
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Columns

The table indexes are hh3cSmlkGroupID and hh3cSmlkPortIfIdx.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSmlkPortIfIdx (1.3.6.1.4.1.25506.2.147.1.2.1.1)	accessible-for-notify	InterfaceIndex	Integer32 (1..2147483647)	Interface index of the smart link group.	As per the MIB.
hh3cSmlkPortRole (1.3.6.1.4.1.25506.2.147.1.2.1.2)	read-create	INTEGER	primary(1), secondary(2)	Port role.	As per the MIB.
hh3cSmlkPortStatus (1.3.6.1.4.1.25506.2.147.1.2.1.3)	read-only	INTEGER	down(1), active(2), standby(3)	Port state.	As per the MIB.
hh3cSmlkFlushCount (1.3.6.1.4.1.25506.2.147.1.2.1.4)	read-only	Counter64	Standard MIB values.	Number of flush messages sent by the port.	As per the MIB.
hh3cSmlkLastFlushTime (1.3.6.1.4.1.25506.2.147.1.2.1.5)	read-only	TimeStamp	Standard MIB values.	Most recent time when flush messages were sent.	As per the MIB.
hh3cSmlkPortRowStatus (1.3.6.1.4.1.25506.2.147.1.2.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

hh3cSmlkFlushEnableTable

About this table

Use this table to enable flush message receiving on a port and obtain flush message configuration information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	hh3cSmlkControlVlanListLow and	Not supported	Supported

	hh3cSmlkControlVlanListHigh must be both specified.		
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Columns

The table index is hh3cSmlkIfIndx.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSmlkIfIndex (1.3.6.1.4.1.25506.2.147.1.3.1.1)	not-accessible	InterfaceIndex	Integer32 (1..2147483647)	Interface index.	As per the MIB.
hh3cSmlkControlVlanListLow (1.3.6.1.4.1.25506.2.147.1.3.1.2)	read-write	OCTET STRING	OCTET STRING (256)	Low bits of control VLANs for receiving flush messages.	As per the MIB.
hh3cSmlkControlVlanListHigh (1.3.6.1.4.1.25506.2.147.1.3.1.3)	read-write	OCTET STRING	OCTET STRING (256)	High bits of control VLANs for receiving flush messages.	As per the MIB.

Notifications

This section contains trap notifications.

hh3cSmlkGroupLinkActive

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.147.2.0.1	A member port transitions to forwarding state.	Informational	N/A	N/A	ON

Description

A notification sent when a member port becomes active.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.147.1.1.1.1 (hh3cSmlkGroupID)	Smart link group ID.	No	Integer32	1..256
1.3.6.1.4.1.25506.2.147.1.2.1.1 (hh3cSmlkPortIfIndex)	Index of the member port.	Yes	InterfaceIndex	1..2147483647

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Detect the link of the blocked port.

hh3cSmlkGroupStatusSwitch

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
(1.3.6.1.4.1.25506.2.147.2.0.2)	The state of the smart link group changes.	Informational	N/A	N/A	ON

Description

A notification sent when the state of the smart link group changes.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.147.1.1.1.1 (hh3cSmlkGroupID)	Smart link group ID.	No	Integer32	Integer32 (1..256)
1.3.6.1.4.1.25506.2.147.2.1.1 (hh3cSmlkGroupStatus)	Smart link group state	No	INTEGER	unknown(0), alldown(1), oneup(2), twoup(3), delay(4)

Recommended action

To resolve the issue:

1. Check the state of the link attached to the smart link group member port and the smart link group configuration.
2. If the issue persists, contact H3C Support.

hh3cSmlkInactiveLinkDown

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.147.2.0.3	The backup link of the smart link group fails.	Informational	Warning	1.3.6.1.4.1.25506.2.147.2.0.3 (hh3cSmlkInactiveLinkUp)	ON

Description

A notification sent when the backup link of the smart link group fails.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.147.1.1.1.1 (hh3cSmlkGroupID)	Smart link group ID.	No	Integer32	Integer32 (1..256)
1.3.6.1.4.1.25506.2.147.1.2.1.1 (hh3cSmlkPortIfIndex)	Index of the member port.	No	InterfaceIndex	1..2147483647
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface name.	Yes	OCTET STRING	OCTET STRING (0..255)

Recommended action

To resolve the issue:

1. Check the state of the link attached to the smart link group member port.
2. If the issue persists, contact H3C Support.

hh3cSmlkInactiveLinkUp

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.147.2.0.4	The backup link of the smart link group recovers.	Informational	Warning	N/A	ON

Description

A notification sent when the backup link of the smart link group recovers.

Status control

The notification cannot be disabled.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.147.1.1.1.1 (hh3cSmlkGroupID)	Smart link group ID.	No	Integer32	Integer32 (1..256)
1.3.6.1.4.1.25506.2.147.1.2.1.1 (hh3cSmlkPortIfIndex)	Index of the member port.	No	InterfaceIndex	1..2147483647
1.3.6.1.2.1.2.2.1.2 (ifDescr)	Interface name	Yes	OCTET STRING	OCTET STRING (0..255)

Recommended action

No action is required.

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VRRP-MIB

About this MIB

This MIB contains general VRRP entries.

MIB file name

rfc2787-vrrp.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).vrrpMIB(68)

Scalar objects

vrrpNodeVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpNodeVersion (1.3.6.1.2.1.68.1.1)	read-only	Integer32	Standard MIB values.	VRRP version	As per the MIB.

vrrpNotificationCntl

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpNotificationCntl (1.3.6.1.2.1.68.1.2)	read-write	INTEGER	enabled (1), disabled (2)	Whether SNMP notifications is enabled for VRRP.	As per the MIB.

vrrpTrapPacketSrc

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpTrapPacketSrc (1.3.6.1.2.1.68.1.5)	accessible-for-notification	IpAddress	OCTET STRING (4)	IP address of the received VRRP packet.	As per the MIB.

vrrpTrapAuthErrorType

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpTrapAuthErrorType (1.3.6.1.2.1.68.1.6)	accessible-for-notify	INTEGER	invalidAuthType (1), authTypeMismatch (2), authFailure (3)	Potential types of configuration conflicts.	As per the MIB.

vrrpRouterChecksumErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpRouterChecksumErrors (1.3.6.1.2.1.68.2.1)	read-only	Counter32	Standard MIB values.	Total number of received VRRP advertisement packets with an invalid checksum value.	As per the MIB.

vrrpRouterVersionErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpRouterVersionErrors (1.3.6.1.2.1.68.2.2)	read-only	Counter32	Standard MIB values.	Total number of received VRRP advertisement packets with an unknown or unsupported version number.	As per the MIB.

vrrpRouterVrIdErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpRouterVrIdErrors (1.3.6.1.2.1.68.2.3)	read-only	Counter32	Standard MIB values.	Total number of received VRRP advertisement packets with an invalid virtual router ID.	As per the MIB.

Tabular objects

vrrpOperTable

About this table

Use this table to define operation parameters for a VRRP group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex and vrrpOperVrId.

Object (OID)	Access	Syntax	Value range	Description	Implementa tion
vrrpOperVrId (1.3.6.1.2.1.68.1.3.1.1)	not-accessible	VrId	Integer32(1..255)	Virtual router ID of the VRRP group.	As per the MIB.
vrrpOperVirtualMacAddr (1.3.6.1.2.1.68.1.3.1.2)	read-only	MacAddress	OCTET STRING (6)	Virtual MAC address of the VRRP group.	As per the MIB.
vrrpOperState (1.3.6.1.2.1.68.1.3.1.3)	read-only	INTEGER	initialize(1), backup(2), master(3)	Current state of the VRRP group.	As per the MIB.
vrrpOperAdminState (1.3.6.1.2.1.68.1.3.1.4)	read-create	INTEGER	up(1), down(2)	Whether the VRRP group is enabled.	As per the MIB.
vrrpOperPriority (1.3.6.1.2.1.68.1.3.1.5)	read-create	Integer32	Integer32(0..255)	Priority of the device in the VRRP group.	As per the MIB.
vrrpOperIpAddrCount (1.3.6.1.2.1.68.1.3.1.6)	read-only	Integer32	Integer32(0..255)	Number of virtual IP addresses in the VRRP group.	As per the MIB.
vrrpOperMasterIpAddr (1.3.6.1.2.1.68.1.3.1.7)	read-only	IpAddress	OCTET STRING (4)	Real IP address of the master device.	As per the MIB.
vrrpOperPrimaryIpAddr (1.3.6.1.2.1.68.1.3.1.8)	read-create	IpAddress	OCTET STRING (4)	Object used to specify the IP address that will become the vrrpOperMasterIpAddr when the device transitions from backup to master (in the case where the interface has multiple IP addresses).	Supports only the read operation.
vrrpOperAuthType (1.3.6.1.2.1.68.1.3.1.9)	read-create	INTEGER	noAuthentication(1), simpleTextPassword(2), ipAuthenticationHeader(3)	Authentication mode used for authenticating VRRP packets	Not supported.
vrrpOperAuthKey (1.3.6.1.2.1.68.1.3.1.10)	read-create	OCTET STRING	OCTET STRING (0..16)	Authentication key.	Not supported.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpOperAdvertisementInterval (1.3.6.1.2.1.68.1.3.1.11)	read-create	Integer32	Integer32(1..255)	VRRP advertisement interval in seconds.	Value range: 1 to 41.
vrrpOperPreemptMode (1.3.6.1.2.1.68.1.3.1.12)	read-create	TruthValue	true(1), false(2)	Whether the preemptive mode is enabled for the VRRP group.	As per the MIB.
vrrpOperVirtualRouterUpTime (1.3.6.1.2.1.68.1.3.1.13)	read-only	TimeStamp	TimeTicks	Time when the VRRP group transitions from Initialize state to another state.	As per the MIB.
vrrpOperProtocol (1.3.6.1.2.1.68.1.3.1.14)	read-create	INTEGER	ip (1), bridge (2), decnet (3), other (4)	Protocol controlled by the VRRP group.	The value is fixed at ip(1).
vrrpOperRowStatus (1.3.6.1.2.1.68.1.3.1.15)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status of the table.	As per the MIB.

vrrpAssolpAddrTable

About this table

This table contains the virtual IP addresses associated with VRRP groups.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are ifIndex, vrrpOperVrId, and vrrpAssolpAddr.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpAssolpAddr (1.3.6.1.2.1.68.1.4.1.1)	not-accessible	IpAddress	OCTET STRING (4)	Virtual IP address associated with the VRRP group.	As per the MIB.
vrrpAssolpAddrRowStatus (1.3.6.1.2.1.68.1.4.1.2)	read-create	RowStatus	active(1), createAndGo(4), destroy(6)	Row status of the table.	Supports only active(1), createAndGo(4), and destroy(6).

vrrpRouterStatsTable

About this table

This table contains VRRP group statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

This table does not contain indexes.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vrrpStatsBecomeMaster (1.3.6.1.2.1.68.2.4.1.1)	read-only	Counter32	INTEGER(0..4294967295)	Total number of transitions to master state.	As per the MIB.
vrrpStatsAdvertiseRcvd (1.3.6.1.2.1.68.2.4.1.2)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets.	As per the MIB.
vrrpStatsAdvertiseIntervalErrors (1.3.6.1.2.1.68.2.4.1.3)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with a different advertisement interval than the local configuration.	As per the MIB.
vrrpStatsAuthFailures (1.3.6.1.2.1.68.2.4.1.4)	read-only	Counter32	INTEGER(0..4294967295)	Total number of VRRP advertisement packets that failed to pass authentication.	As per the MIB.
vrrpStatsIpTtlErrors (1.3.6.1.2.1.68.2.4.1.5)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with IP TTL not equal to 255.	As per the MIB.
vrrpStatsPriorityZeroPktsRcvd (1.3.6.1.2.1.68.2.4.1.6)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with a priority of 0.	As per the MIB.
vrrpStatsPriorityZeroPktsSent (1.3.6.1.2.1.68.2.4.1.7)	read-only	Counter32	INTEGER(0..4294967295)	Total number of sent VRRP advertisement packets with a priority of 0.	As per the MIB.
vrrpStatsInvalidTypePktsRcvd (1.3.6.1.2.1.68.2.4.1.8)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with an invalid type.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.8)				packets with an invalid value in the type field.	
vrrpStatsAddressListErrors (1.3.6.1.2.1.68.2.4.1.9)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with an address list that does not match the local configuration.	As per the MIB.
vrrpStatsInvalidAuthType (1.3.6.1.2.1.68.2.4.1.10)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with an unknown authentication type.	As per the MIB.
vrrpStatsAuthTypeMismatch (1.3.6.1.2.1.68.2.4.1.11)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with an authentication type that does not match the local configuration.	As per the MIB.
vrrpStatsPacketLengthErrors (1.3.6.1.2.1.68.2.4.1.12)	read-only	Counter32	INTEGER(0..4294967295)	Total number of received VRRP advertisement packets with a packet length smaller than that in the VRRP header.	As per the MIB.

Notifications

vrrpTrapNewMaster

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.68.0.1	Indicates that the sending device has transitioned to master state.	Informational	Warning	N/A	ON

Description

A notification sent when the sending device (agent) has transitioned to master state.

Status control

ON

CLI: Use the `snmp-agent trap enable vrrp new-master` command.

OFF

CLI: Use the `undo snmp-agent trap enable vrrp new-master` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.68.1.3.1.7 (vrrpOperMasterIpAddr)	Real (primary) IP address of the master router that is used as the source address of VRRP advertisement packets.	No	IpAddress	OCTET STRING (4)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

vrrpTrapAuthFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.68.0.2	Indicates the received VRRP packet contains an authentication type or authentication key that conflicts with the local configuration.	Informational	Warning	N/A	ON

Description

A notification sent upon receiving a VRRP packet from a router with an authentication type or authentication key setting that conflicts with the local router. Implementation of this notification is optional.

Status control

ON

CLI: Use the `snmp-agent trap enable vrrp auth-failure` command.

OFF

CLI: Use the `undo snmp-agent trap enable vrrp auth-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.68.1.5 (vrrpTrapPacketSrc)	IP address of the received VRRP packet.	No	IpAddress	OCTET STRING (4)
1.3.6.1.2.1.68.1.6 (vrrpTrapAuthErrorType)	Potential types of configuration conflicts.	No	INTEGER	invalidAuthType(1) authTypeMismatch(2) authFailure(3)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Check for configuration errors or configuration conflicts.

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DISMAN-EVENT-MIB

About this MIB

This MIB provides an automatic and distributed monitoring and management mechanism for MIB objects. By periodically monitoring MIB objects., the system automatically triggers the predefined notifications or set operations when the monitored objects meet the trigger conditions.

MIB file name

rfc2981-disman-event.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).dismanEventMIB(88)

Scalar objects

mteResourceSampleMinimum

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteResourceSampleMinimum (1.3.6.1.2.1.88.1.1.1)	read-write	Integer32	Integer32 2 (1..2147483647)	Minimum sampling interval allowed by the system.	Default: 1. Each trigger sampling interval must be equal to or larger than the minimum sampling interval to lessen the impact of constant sampling. Modifying this node does not affect existing triggers.

mteResourceSampleInstanceMaximum

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteResourceSampleInstanceMaximum (1.3.6.1.2.1.88.1.1.2)	read-write	Unsigned32	Standard MIB values.	Maximum number of object instances that can be concurrently sampled.	A value of 0 indicates that no manual limit is specified. The limit is dynamic based on system operations and resources. Changing the maximum number of object instances that can be concurrently sampled does not affect the existing instances. If the maximum number of object instances that can be concurrently sampled is changed to a value smaller than the number of existing instances, the existing instances will continue to be sampled.

mteResourceSampleInstances

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteResourceSampleInstances (1.3.6.1.2.1.88.1.1.3)	read-only	Gauge32	Standard MIB values.	Number of current sampled instances.	As per the MIB.

mteResourceSampleInstancesHigh

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteResourceSampleInstancesHigh (1.3.6.1.2.1.88.1.1.4)	read-only	Gauge32	Standard MIB values.	Peak number of sampled instances.	As per the MIB.

mteResourceSampleInstanceLacks

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteResourceSampleInstanceLacks (1.3.6.1.2.1.88.1.1.5)	read-only	Counter32	Standard MIB values.	Number of sampling failures after the maximum number of sampled instances is reached.	As per the MIB.

mteTriggerFailures

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerFailures (1.3.6.1.2.1.88.1.2.1)	read-only	Counter32	Standard MIB values.	Number of trigger test failures.	As per the MIB.

mteEventFailures

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteEventFailures (1.3.6.1.2.1.88.1.4.1)	read-only	Counter32	Standard MIB values.	Number of notification or set action	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				failures.	

mteHotTrigger

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteHotTrigger (1.3.6.1.2.1.88.2.1.1)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Name of a trigger causing a notification.	As per the MIB.

mteHotTargetName

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteHotTargetName (1.3.6.1.2.1.88.2.1.2)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Remote target host name of a notification.	As per the MIB.

mteHotContextName

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteHotContextName (1.3.6.1.2.1.88.2.1.3)	accessible-for-notify	SnmpAdminString	OCTET STRING (0..255)	Context name of a notification.	As per the MIB.

mteHotOID

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteHotOID (1.3.6.1.2.1.88.2.1.4)	accessible-for-notify	OBJECT IDENTIFIER	Standard MIB values.	OID of the target object related to a notification.	<p>If the notification is triggered by mteTriggerFired, mteTriggerRising, mteTriggerFalling, or mteTriggerFailure, the OID is the OID of the monitored object.</p> <p>If the notification is triggered by mteEventSetFailure, the OID is the OID of the set object.</p>

mteHotValue

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteHotValue (1.3.6.1.2.1.88.2.1.5)	accessible-for-notify	Integer32	Standard MIB values.	Value of the target object to match the trigger condition of a trigger.	As per the MIB.

mteFailedReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteFailedReason (1.3.6.1.2.1.88.2.1.5)	accessible-for-notify	FailureReason	localResourceLack(-1), badDestination(-2), destinationUnreachable(-3), noResponse(-4), badType(-5), sampleOverrun(-6), noError(0), tooBig(1), noSuchName(2), badValue(3), readOnly(4), genErr(5), noAccess(6), wrongType(7), wrongLength(8), wrongEncoding(9), wrongValue(10), noCreation(11), inconsistentValue(12), resourceUnavailable(13), commitFailed(14), undoFailed(15), authorizationError(16), notWritable(17), inconsistentName(18)	Trigger failure reason.	As per the MIB.

Tabular objects

mteTriggerTable

About this table

Use this table to configure or obtain information about triggers, including specifying monitored objects and setting the trigger test type, sampling interval, and sampling method.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

- To set the state of a row to createAndGo when creating the row, the objects in the row must meet the following requirements:
 - The index of the row does not exist and an SNMPv3 user with name **mteOwner** exists. In addition, the privileges of the SNMPv3 user are equal to or less than the privileges of the current operator.
 - The node type of monitored objects must be one of the following types: table, conceptual row, table column, simple leaf, or parent node of a leaf node.
 - Set mteTriggerTargetTag to null.
 - The value of mteTriggerFrequency must be equal to or greater than the value of mteResourceSampleMinimum.
 - The mteTriggerObjectsOwner object must be an SNMPv3 user and the privileges of the SNMPv3 user are equal to or less than the privileges of the current operator.
 - Do not set the mteTriggerEnabled node.
 - Other nodes meet the MIB definitions.
- To set the state of a row to createAndWait when creating the row, the objects in the row must meet the following requirements:
 - The index of the row does not exist and an SNMPv3 user with name **mteOwner** exists. In addition, the privileges of the SNMPv3 user are equal to or less than the privileges of the current operator.
 - The node type of monitored objects must be one of the following types or the default type: table, conceptual row, table column, simple leaf, or parent node of a leaf node.
 - Do not set the mteTriggerEnabled node.
 - Other nodes meet the MIB definitions.
- If a row is in active state, you can perform the delete operation and cannot perform the edit/modify operation.
- To change the state of a row from notInService to active, the objects in the row must meet the following requirements:
 - The node type of monitored objects must be one of the following types: table, conceptual row, table column, simple leaf, or parent node of a leaf node.
 - Set mteTriggerTargetTag to null.
 - The value of mteTriggerFrequency must be equal to or greater than the value of mteResourceSampleMinimum.
 - The mteTriggerObjectsOwner object must be an SNMPv3 user and the privileges of the SNMPv3 user are equal to or less than the privileges of the current operator.
 - Do not modify the mteTriggerEnabled object.
 - Other nodes meet the MIB definitions.

Columns

The table indexes are mteOwner and mteTriggerName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteOwner (1.3.6.1.2.1.88.1.2.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	Owner of a trigger. Level 1 index of the table.	Supports only SNMPv3 users. You must configure the specified SNMPv3 user as the current operator.
mteTriggerName (1.3.6.1.2.1.88.1.2.2.1.2)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Trigger name. Level 2 index of the table.	As per the MIB.
mteTriggerComment (1.3.6.1.2.1.88.1.2.2.1.3)	read-create	SnmpAdminString	OCTET STRING (0..255)	Trigger description.	The first and last spaces in the string will be automatically removed.
mteTriggerTest (1.3.6.1.2.1.88.1.2.2.1.4)	read-create	BITS	BITS {existence(0), boolean(1), threshold(2)}	Type of the trigger test.	As per the MIB.
mteTriggerSampleType (1.3.6.1.2.1.88.1.2.2.1.5)	read-create	INTEGER	absoluteValue(1), deltaValue(2)	Trigger sampling method.	As per the MIB.
mteTriggerValueID (1.3.6.1.2.1.88.1.2.2.1.6)	read-create	OBJECT IDENTIFIER	OBJECT IDENTIFIER	OID of the monitored object.	Supports only table nodes, conceptual row nodes, table column nodes, simple leaf nodes, and parent nodes of leaf nodes.
mteTriggerValueIDWildcard (1.3.6.1.2.1.88.1.2.2.1.7)	read-create	TruthValue	true(1), false(2)	Whether to enable wildcard search for objects.	As per the MIB.
mteTriggerTargetTag (1.3.6.1.2.1.88.1.2.2.1.8)	read-create	SnmpTagValue	OCTET STRING (0..255)	Remote tag for the monitored object. A length of 0 indicates the local system. This object supports only the local system.	Supports only the read operation.
mteTriggerContextName (1.3.6.1.2.1.88.1.2.2.1.9)	read-create	SnmpAdminString	OCTET STRING (0..255)	Name of the context for the OID of the monitored object.	As per the MIB.
mteTriggerContextNameWildcard (1.3.6.1.2.1.88.1.2.2.1.10)	read-create	TruthValue	true(1), false(2)	Whether to enable wildcard search for contexts.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerFrequency (1.3.6.1.2.1.88.1.2.2.1.11)	read-create	Unsigned32	Unsigned32 (0..4294967295)	Sampling interval. The value must be equal to or greater than the minimum sampling interval.	The value of 0 is not supported.
mteTriggerObjectsOwner (1.3.6.1.2.1.88.1.2.2.1.12)	read-create	SnmpAdminString	OCTET STRING (0..32)	Owner of the objects bound to the trigger.	As per the MIB.
mteTriggerObjects (1.3.6.1.2.1.88.1.2.2.1.13)	read-create	SnmpAdminString	OCTET STRING (0..32)	Objects bound to the trigger.	As per the MIB.
mteTriggerEnabled (1.3.6.1.2.1.88.1.2.2.1.14)	read-create	TruthValue	true(1), false(2)	Whether to enable the trigger When the value is false, the trigger is not sampled.	Supports only the read operation. The read value for this object is true(1) if the state of the mteTriggerEntryStatus row is active.
mteTriggerEntryStatus (1.3.6.1.2.1.88.1.2.2.1.15)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

mteTriggerExistenceTable

About this table

Use this table to configure or obtain information about existence trigger tests. It specifies the existence trigger test type, configures the type of the existence trigger test for the first sampling, and specifies the monitored objects and trigger event.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

To modify the object owner or event owner for a row, the follow requirements must be met:

- The new owner must be an existing SNMPv3 user.
- The privileges of the new owner must be equal to or lower than the privileges of the current operator.

Columns

The table indexes are mteOwner and mteTriggerName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerExistenceTest (1.3.6.1.2.1.88.1.2.4.1.1)	read-write	BITS	BITS {present(0), absent(1), changed(2)}	Type of an existence trigger test.	As per the MIB.
mteTriggerExistenceStartup (1.3.6.1.2.1.88.1.2.4.1.2)	read-write	BITS	BITS {present(0), absent(1)}	Type of the existence trigger test for the first sampling.	As per the MIB.
mteTriggerExistenceObjectsOwner (1.3.6.1.2.1.88.1.2.4.1.3)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the existence trigger test objects.	Supports only SNMPv3 users. The configuration is the same as the mteOwner object in the Trigger table.
mteTriggerExistenceObjects (1.3.6.1.2.1.88.1.2.4.1.4)	read-write	SnmpAdminString	OCTET STRING (0..32)	Objects of the existence trigger test.	As per the MIB.
mteTriggerExistenceEventOwner (1.3.6.1.2.1.88.1.2.4.1.5)	read-write	SnmpAdminString	OCTET STRING (0..32)	Event owner.	Supports only SNMPv3 users. The configuration is the same as the mteOwner object in the Trigger table.
mteTriggerExistenceEvent (1.3.6.1.2.1.88.1.2.4.1.6)	read-write	SnmpAdminString	OCTET STRING (0..32)	Event name.	As per the MIB.

mteTriggerBooleanTable

About this table

Use this table to configure or obtain information about Boolean trigger tests. It specifies the Boolean trigger test type and the reference value, configures whether to enable the event for the first sampling, and specifies the monitored objects and trigger event.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

To modify the object owner or event owner for a row, the follow requirements must be met:

- The new owner must be an existing SNMPv3 user.
- The privileges of the new owner must be equal to or lower than the privileges of the current operator.

Columns

The table indexes are mteOwner and mteTriggerName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerBooleanComparison (1.3.6.1.2.1.88.1.2.5.1.1)	read-write	INTEGER	unequal(1), equal(2), less(3), lessOrEqual(4), greater(5), greaterOrEqual(6)	Type of a Boolean trigger test. The comparison objects are mteTriggerValueID and mteTriggerBooleanValue.	As per the MIB.
mteTriggerBooleanValue (1.3.6.1.2.1.88.1.2.5.1.2)	read-write	Integer32	Integer32 (-2147483648.. 2147483647)	Reference value for the Boolean trigger test.	As per the MIB.
mteTriggerBooleanStartup (1.3.6.1.2.1.88.1.2.5.1.3)	read-write	TruthValue	true(1), false(2)	Whether the event is enabled for the first sampling.	As per the MIB.
mteTriggerBooleanObjectsOwner (1.3.6.1.2.1.88.1.2.5.1.4)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the Boolean trigger test objects.	Supports only SNMPv3 users. The configuration must be the same as that of the mteOwner object.
mteTriggerBooleanObjects (1.3.6.1.2.1.88.1.2.5.1.5)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the Boolean trigger test objects.	As per the MIB.
mteTriggerBooleanEventOwner (1.3.6.1.2.1.88.1.2.5.1.6)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the Boolean event.	Supports only SNMPv3 users. The configuration must be the same as that of the mteOwner object.
mteTriggerBooleanEvent (1.3.6.1.2.1.88.1.2.5.1.7)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the Boolean event.	As per the MIB.

mteTriggerThresholdTable

About this table

Use this table to configure or obtain information about threshold trigger tests. It specifies the threshold trigger test type for the first sampling, sets the absolute or delta rising or falling threshold, and configures the monitored objects and the trigger event.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

When you perform the edit/modify operation, follow these restrictions and guidelines:

- The rising threshold must be equal to or higher than the falling threshold.
- The delta rising threshold must be equal to or higher than the delta falling threshold.
- To modify the object owner or event owner for a row, the follow requirements must be met:
 - The new owner must be an existing SNMPv3 user.
 - The privileges of the new owner must be equal to or lower than the privileges of the current operator.

Columns

The table indexes are mteOwner and mteTriggerName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerThresholdStartup (1.3.6.1.2.1.88.1.2.6.1.1)	read-write	INTEGER	rising(1), falling(2), risingOrFalling(3)	Threshold trigger test for the first sampling.	As per the MIB.
mteTriggerThresholdRising (1.3.6.1.2.1.88.1.2.6.1.2)	read-write	Integer32	(-2147483648..2147483647)	Absolute rising threshold.	As per the MIB.
mteTriggerThresholdFalling (1.3.6.1.2.1.88.1.2.6.1.3)	read-write	Integer32	(-2147483648..2147483647)	Absolute falling threshold.	As per the MIB.
mteTriggerThresholdDeltaRising (1.3.6.1.2.1.88.1.2.6.1.4)	read-write	Integer32	(-2147483648..2147483647)	Delta rising threshold.	As per the MIB.
mteTriggerThresholdDeltaFalling (1.3.6.1.2.1.88.1.2.6.1.5)	read-write	Integer32	(-2147483648..2147483647)	Delta falling threshold.	As per the MIB.
mteTriggerThresholdObjectsOwner (1.3.6.1.2.1.88.1.2.6.1.6)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the threshold test objects.	Do not configure this object or configure the same settings for this object as the mteOwner object in the Trigger table.
mteTriggerThresholdObjects (1.3.6.1.2.1.88.1.2.6.1.7)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the threshold test objects.	As per the MIB.
mteTriggerThresholdRisingEventOwner (1.3.6.1.2.1.88.1.2.6.1.8)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the rising event.	Do not configure this object or configure the same settings for this object as the mteOwner object in the Trigger table.
mteTriggerThresholdRisingEvent (1.3.6.1.2.1.88.1.2.6.1.9)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the rising event.	As per the MIB.
mteTriggerThresholdFallingEventOwner (1.3.6.1.2.1.88.1.2.6.1.10)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the falling event.	Do not configure this object or configure the same settings for this object as the mteOwner object in the Trigger table.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteTriggerThresholdFallingEvent (1.3.6.1.2.1.88.1.2.6.1.11)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the falling event.	As per the MIB.
mteTriggerThresholdDeltaRisingEventOwner (1.3.6.1.2.1.88.1.2.6.1.12)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the Delta rising event.	Do not configure this object or configure the same settings for this object as the mteOwner object in the Trigger table.
mteTriggerThresholdDeltaRisingEvent (1.3.6.1.2.1.88.1.2.6.1.13)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the Delta rising event.	As per the MIB.
mteTriggerThresholdDeltaFallingEventOwner (1.3.6.1.2.1.88.1.2.6.1.14)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the Delta falling event.	Do not configure this object or configure the same settings for this object as the mteOwner object in the Trigger table.
mteTriggerThresholdDeltaFallingEvent (1.3.6.1.2.1.88.1.2.6.1.15)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the Delta falling event.	As per the MIB.

mteObjectsTable

About this table

Use this table to configure or obtain monitored objects, including specifying the name of a monitored object and binding the OID of the object to a trigger.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

The state of a row can be set only to createAndGo. In addition, the following requirements must be met:

- The index of the row does not exist.
- The monitored OID nodes must be one of the following types: table, conceptual row, table column, simple leaf, and parent node of a leaf node.

Columns

The table indexes are mteOwner, mteObjectsName, and mteObjectsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteObjectsName (1.3.6.1.2.1.88.1.3.1.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	A locally-unique, administratively assigned	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				name for a group of objects. Level 2 index.	
mteObjectsIndex (1.3.6.1.2.1.88.1.3.1.1.2)	not-accessible	Unsigned32	Unsigned32 (1..2147483647)	An arbitrary integer for the purpose of identifying individual objects within a mteObjects Name group. Level 3 index.	As per the MIB.
mteObjectsID (1.3.6.1.2.1.88.1.3.1.1.3)	read-create	OBJECT IDENTIFIER	OBJECT IDENTIFIER	OID of the objects.	Supports one of the following node types: table, conceptual row, table column, simple leaf, and parent node of a leaf node.
mteObjectsIDWildcard (1.3.6.1.2.1.88.1.3.1.1.4)	read-create	TruthValue	true(1), false(2)	Whether to enable wildcard matching.	As per the MIB.
mteObjectsEntryStatus (1.3.6.1.2.1.88.1.3.1.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	Supports only createAndGo, active, and destroy.

mteEventTable

About this table

Use this table to configure or obtain information about events, including configuring the event name, event description, and event action type.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

- To set the state of a row to createAndGo when creating the row, the objects in the row must meet the following requirements:
 - The index of the row does not exist.
 - Set mteEventActions to set or notification, or both.
 - Other nodes meet the MIB definitions.

- Do not set mteEventEnabled.
- To set the state of a row to createAndWait when creating the row, the objects in the row must meet the following requirements:
 - The index of the row does not exist.
 - Do not set the mteEventEnabled node together with the row state.
 - Other nodes meet the MIB definitions.
- If a row is in active state, you can perform the delete operation and cannot perform the edit/modify operation.
- To change a row from notInService state to active, the objects in the row must meet the following requirements:
 - Set mteEventActions to set or notification, or both.
 - Do not configure the mteEventEnabled node.
 - Other nodes meet the MIB definitions.

Columns

The table indexes are mteOwner and mteEventName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteEventName (1.3.6.1.2.1.88.1.4.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Event name.	As per the MIB.
mteEventComment (1.3.6.1.2.1.88.1.4.2.1.2)	read-create	SnmpAdminString	OCTET STRING (0..255)	Event description.	The first and last spaces will be deleted automatically.
mteEventActions (1.3.6.1.2.1.88.1.4.2.1.3)	read-create	BITS	BITS { notification(0), set(1)}	Event action type.	As per the MIB.
mteEventEnabled (1.3.6.1.2.1.88.1.4.2.1.4)	read-create	TruthValue	true(1), false(2)	Enabling status of the event.	Supports only the read operation. When the value of mteEventEntryStatus is active, the return value of this object for the read operation is true(1).
mteEventEntryStatus (1.3.6.1.2.1.88.1.4.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

mteEventNotificationTable

About this table

Use this table to configure or obtain information about notifications, including specifying the OID of a notification and binding objects to the notification.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

To modify the object owner or event owner for a row, the follow requirements must be met:

- The new owner must be an existing SNMPv3 user.
- The privileges of the new owner must be equal to or lower than the privileges of the current operator.
- The node of the object that inputs the notification is a trap node.

Columns

The table indexes are mteOwner and mteEventName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteEventNotification (1.3.6.1.2.1.88.1.4.3.1.1)	read-write	OBJECT IDENTIFIER	Standard MIB values.	Notification OID.	As per the MIB.
mteEventNotificationObjectsOwner (1.3.6.1.2.1.88.1.4.3.1.2)	read-write	SnmpAdminString	OCTET STRING (0..32)	Owner of the objects bound to the notification.	Do not configure this object or configure the same settings as the mteOwner object in the Event table.
mteEventNotificationObjects (1.3.6.1.2.1.88.1.4.3.1.3)	read-write	SnmpAdminString	OCTET STRING (0..32)	Name of the objects bound to the notification.	As per the MIB.

mteEventSetTable

About this table

Use this MIB to configure or obtain information about set objects, including specifying an event for set objects and setting a value for the objects.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

The node type of a set object is from one of the following types: table, conceptual row, table column, simple leaf, and parent node of a leaf node.

Columns

The table indexes are mteOwner and mteEventName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
mteEventSetObject (1.3.6.1.2.1.88.1.4.4.1.1)	read-write	OBJECT IDENTIFIER	Standard MIB values.	OID of a set-action object.	Supports only the following types of nodes: table, conceptual row, table column, simple leaf, and parent node of a leaf node.
mteEventSetObjectWildcard (1.3.6.1.2.1.88.1.4.4.1.2)	read-write	TruthValue	true(1), false(2)	Whether to enable wildcard matching.	As per the MIB.
mteEventSetValue (1.3.6.1.2.1.88.1.4.4.1.3)	read-write	Integer32	Integer32 (-2147483648..2147483647)	Value of the set-action object.	As per the MIB.
mteEventSetTargetTag (1.3.6.1.2.1.88.1.4.4.1.4)	read-write	SnmpTagValue	OCTET STRING (0..255)	Remote tag for the set-action object.	Supports only the read operation. This object does not support the edit/modify operation.
mteEventSetContextName (1.3.6.1.2.1.88.1.4.4.1.5)	read-write	SnmpAdminString	OCTET STRING (0..255)	Context for the set-action object.	OCTET STRING (0..32)
mteEventSetContextNameWildcard (1.3.6.1.2.1.88.1.4.4.1.6)	read-write	TruthValue	true(1), false(2)	Whether to enable wildcard matching.	As per the MIB.

Notifications

The following information describes the notifications included in the DISMAN-EVENT-MIB module.

mteTriggerFired

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.88.2.0.1	A notification was triggered by a trigger test.	Informational	N/A	N/A	ON

Description

This notification is generated when a monitored object meets the trigger condition.

If an existence trigger test is configured, this notification is generated when the state of the monitored object changes from absent to present or from present to absent, or the value of the object changes.

If a Boolean trigger test is configured, this notification is generated if the comparison result for the value of the monitored object and the value of `mteTriggerBooleanValue` meets the trigger condition. If the comparison result changes from meeting the trigger condition to not meeting the trigger condition and then changing back to meeting the trigger condition, this notification is generated again. In other situations, this notification is not generated.

Status control

ON

CLI: Use the `snmp-agent trap enable event-mib` command.

OFF

CLI: Use the `undo snmp-agent trap enable event-mib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.1 (mteHotTrigger)	Trigger name	N	SnmpAdminString	OCTET STRING (1..32)
1.3.6.1.2.1.88.2.1.2 (mteHotTargetName)	Target host name.	N	SnmpAdminString	OCTET STRING (0..255)
1.3.6.1.2.1.88.2.1.3(mteHotContextName)	Context name.	N	SnmpAdminString	OCTET STRING (0..32)
1.3.6.1.2.1.88.2.1.4(mteHotOID)	Monitored object OID.	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.88.2.1.5(mteHotValue)	Value of the monitored object.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Configure an event to handle the notification.

mteTriggerRising

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.88.2.0.2	A rising alarm event was triggered.	Informational	N/A	N/A	ON

Description

If a threshold trigger test is configured and the value of `mteTriggerThresholdStartup` is rising or risingOrFaling, this notification is generated when the monitored object meets the trigger condition.

- The value of the monitored object is greater than or equal to the rising threshold, this notification is generated.
- The difference between the current sampled value and the previous sampled value is greater than or equal to the delta rising threshold, this notification is generated.

If the value of the monitored object crosses a threshold multiple times in succession, the managed device triggers an alarm event only for the first crossing. For example, if the value of a sampled object crosses the rising threshold multiple times before it crosses the falling threshold, only the first crossing triggers a rising alarm event.

Status control

ON

CLI: Use the `snmp-agent trap enable event-mib` command.

OFF

CLI: Use the `undo snmp-agent trap enable event-mib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.1 (mteHotTrigger)	Trigger name.	N	SnmpAdminString	OCTET STRING (1..32)
1.3.6.1.2.1.88.2.1.2 (mteHotTargetName)	Target host name.	N	SnmpAdminString	OCTET STRING (0..255)
1.3.6.1.2.1.88.2.1.3(mteHotContextName)	Context name.	N	SnmpAdminString	OCTET STRING (0..32)
1.3.6.1.2.1.88.2.1.4(mteHotOID)	Monitored object OID.	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.88.2.1.5(mteHotValue)	Value of the monitored object.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Configure an event to handle the notification.

mteTriggerFalling

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.88.2.0.3	A falling alarm event was triggered	Informational	N/A	N/A	ON

Description

If a threshold trigger test is configured and the value of `mteTriggerThresholdStartup` is `falling` or `risingOrFaling`, this notification is generated when the monitored object meets the trigger condition.

- If the value of the monitored object is smaller than or equal to the falling threshold, this notification is generated.
- If the difference between the current sampled value and the previous sampled value is smaller than or equal to the delta falling threshold, this notification is generated.

If the value of the monitored object crosses a threshold multiple times in succession, the managed device triggers an alarm event only for the first crossing. For example, if the value of a sampled object crosses the falling threshold multiple times before it crosses the rising threshold, only the first crossing triggers a falling alarm event.

Status control

ON

CLI: Use the `snmp-agent trap enable event-mib` command.

OFF

CLI: Use the `undo snmp-agent trap enable event-mib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.1 (mteHotTrigger)	Trigger name.	N	SnmpAdminString	OCTET STRING (1..32)
1.3.6.1.2.1.88.2.1.2 (mteHotTargetName)	Target host name.	N	SnmpAdminString	OCTET STRING (0..255)
1.3.6.1.2.1.88.2.1.3(mteHotContextName)	Context name.	N	SnmpAdminString	OCTET STRING (0..32)
1.3.6.1.2.1.88.2.1.4(mteHotOID)	Monitored object OID.	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.88.2.1.5(mteHotValue)	Value of the monitored object.	N	Integer32	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

Configure an event to handle the notification.

mteTriggerFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.88.2.0.4	Trigger test failure notification.	Informational	N/A	N/A	ON

Description

This notification is generated when the system fails a trigger test.

Status control

ON

CLI: Use the `snmp-agent trap enable event-mib` command.

OFF

CLI: Use the `undo snmp-agent trap enable event-mib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.1(mteHotTrigger)	Trigger name.	N	SnmpAdminString	OCTET STRING (1..32)
1.3.6.1.2.1.88.2.1.2(mteHotTargetName)	Target host name.	N	SnmpAdminString	OCTET STRING (0..255)
1.3.6.1.2.1.88.2.1.3(mteHotContextName)	Context name.	N	SnmpAdminString	OCTET STRING (0..32)
1.3.6.1.2.1.88.2.1.4(mteHotOID)	Monitored object OID.	N	OBJECT IDENTIFIER	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.6(mteFailedReason)	Failure reason	N	INTEGER	localResourceLack(-1), badDestination(-2), destinationUnreachable(-3), noResponse(-4), badType(-5), sampleOverrun(-6), noError(0), tooBig(1), noSuchName(2), badValue(3), readOnly(4), genErr(5), noAccess(6), wrongType(7), wrongLength(8), wrongEncoding(9), wrongValue(10), noCreation(11), inconsistentValue(12), resourceUnavailable(13), commitFailed(14), undoFailed(15), authorizationError(16), notWritable(17), inconsistentName(18)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

mteEventSetFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.88.2.0.5	Event set-action failure notification.	Informational	N/A	N/A	ON

Description

This notification is generated when the system fails to perform a set operation in response to an event.

Status control

ON

CLI: Use the `snmp-agent trap enable event-mib` command.

OFF

CLI: Use the `undo snmp-agent trap enable event-mib` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.88.2.1.1(mteHotTrigger)	Trigger name.	N	SnmpAdminString	OCTET STRING (1..32)
1.3.6.1.2.1.88.2.1.2(mteHotTargetName)	Target host name.	N	SnmpAdminString	OCTET STRING (0..255)
1.3.6.1.2.1.88.2.1.3(mteHotContextName)	Context name.	N	SnmpAdminString	OCTET STRING (0..32)
1.3.6.1.2.1.88.2.1.4(mteHotOID)	Monitored object OID.	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.88.2.1.6(mteFailedReason)	Failure reason	N	INTEGER	localResourceLack(-1), badDestination(-2), destinationUnreachable(-3), noResponse(-4), badType(-5), sampleOverrun(-6), noError(0), tooBig(1), noSuchName(2), badValue(3), readOnly(4), genErr(5), noAccess(6), wrongType(7), wrongLength(8), wrongEncoding(9), wrongValue(10), noCreation(11), inconsistentValue(12), resourceUnavailable(13), commitFailed(14), undoFailed(15), authorizationError(16), notWritable(17), inconsistentName(18)

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

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DISMAN-PING-MIB

About this MIB

Use this MIB to implement the ping utility defined by RFC 2925. Ping operations are performed by NQA ICMP echo probes.

To implement DISMAN PING, the devices must support this MIB. This MIB cannot be used together with CLI.

MIB file name

rfc2925-disman-ping.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).pingMIB(80)

Scalar objects

pingMaxConcurrentRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
pingMaxConcurrentRequests (1.3.6.1.2.1.80.1.1)	read-only	Unsigned 32	Standard MIB values.	Maximum number of concurrent active ping requests that are allowed within an agent implementation.	As per the MIB.

Tabular objects

pingCtlTable

About this table

Use this table to define parameters in a ping operation.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none"> You can create the pingCtlAdminStatus node only when the state for the node is disable. Specify a value for the pingCtlType object when you create a ping operation entry. The value for this object is not modifiable after creation. The default value for the pingCtlType object is pingIcmpEcho. The creation operation for a ping operation entry fails if the entry contains parameters not supported by the probe type specified by the pingCtlType object. 	<ul style="list-style-type: none"> To save history probe information, set the state of the h3cNQACtlHistoryEnable object to enable. You cannot configure parameters not supported by the probe type specified by the pingCtlType object. Modifying any object in the pingCtlTable except the following objects will clear the corresponding probe results (not including the history records and statistics): <ul style="list-style-type: none"> pingCtlTrapGeneration. pingCtlTrapProbeFailureFilter. pingCtlTrapTestFailureFilter. pingCtlDescr. pingCtlMaxRows. If the new value for this object is lower than the previous value, the system deletes the excessive history records. You must specify pingCtlTargetAddressType and pingCtlTargetAddress in pairs in an SNMP request. You must specify pingCtlSourceAddressType and pingCtlSourceAddress in pairs in an SNMP request. 	<p>A delete operation fails if the state of the pingCtlAdminStatus node is enable.</p>	<p>Not supported.</p> <p>The ping operation probe result is invalid if the read operation obtains information about parameters not supported by the probe type specified by the pingCtlType object.</p>

The following objects are supported by all pingCtlType options: pingCtlOwnerIndex, pingCtlTestName, pingCtlTimeOut, pingCtlAdminStatus, pingCtlFrequency, pingCtlStorageType, pingCtlTrapGeneration, pingCtlType, pingCtlDescr, and pingCtlRowStatus. The pingCtlType options also support other objects. The following table shows the additional objects supported by each pingCtlType option.

Options for the pingCtlType object	Supported additional objects
pingIcmpEcho	pingCtlTargetAddressType pingCtlTargetAddress pingCtlDataSize pingCtlDataFill pingCtlSourceAddressType pingCtlSourceAddress pingCtlIfIndex pingCtlByPassRouteTable pingCtlDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
pingUdpEcho hh3cNqaUdpEcho or hh3cpingUdpEcho	pingCtlTargetAddressType pingCtlTargetAddress

Options for the pingCtlType object	Supported additional objects
	pingCtlDataSize pingCtlDataFill pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
pingSnmpQuery	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
pingTcpConnectionAttempt hh3cNqaTcpconnect or hh3cpingTcpconnect	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
hh3cNqajitter (for UDP jitter operation) hh3cNqaCtlCodecType is defined as notDefined(1)	pingCtlTargetAddressType pingCtlTargetAddress pingCtlDataSize pingCtlDataFill pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount
hh3cNqajitter (for voice operation) hh3cNqaCtlCodecType is defined as g711Alaw(2), g711Ulaw(3), or g729A(4)	pingCtlTargetAddressType pingCtlTargetAddress pingCtlDataSize pingCtlDataFill pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField

Options for the pingCtlType object	Supported additional objects
	pingCtlProbeCount(only 1 is legal)
hh3cNqaJitter (for ICMP jitter operation) hh3cNqaCtlCodecType is defined as icmpTimestamp(5)	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount
hh3cNqaHttp	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
hh3cNqadlsw	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter
hh3cNqadhcp	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter pingCtlIfIndex
hh3cNqaftp	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlByPassRouteTable pingCtlIDSField pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter

Options for the pingCtlType object	Supported additional objects
	pingCtlTrapTestFailureFilter
pingArp	pingCtlTargetAddressType pingCtlTargetAddress pingCtlSourceAddressType pingCtlSourceAddress pingCtlProbeCount pingCtlMaxRows pingCtlTrapProbeFailureFilter pingCtlTrapTestFailureFilter

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pingCtlOwnerIndex (1.3.6.1.2.1.80.1.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	Administrator name of a ping operation.	For the set operation, the uppercase letters in the value will be converted to lowercase letters. The value cannot contain a minus sign (-).
pingCtlTestName (1.3.6.1.2.1.80.1.2.1.2)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	Operation tag.	For the set operation, the uppercase letters in the value will be converted to lowercase letters. The value for this object cannot contain a minus sign (-).
pingCtlTargetAddressType (1.3.6.1.2.1.80.1.2.1.3)	read-create	InetAddressType	Standard MIB values.	Destination address type.	Supports only ipv4(1), ipv6(2), unknown(0), and dns(16).
pingCtlTargetAddress (1.3.6.1.2.1.80.1.2.1.4)	read-create	InetAddress	Standard MIB values.	Destination address.	<ul style="list-style-type: none"> If the value for the pingCtlTargetAddressType object is ipv4(1), the value for this object must be an IPv4 address. If the value for the pingCtlTargetAddressType object is ipv6(2), the value for this object must be an IPv6 address. If the value for the pingCtlTargetAddressType object is dns(16), the value for this object can be a host name. If the value for the pingCtlTargetAddressType object is unknown(0), the value for this object must be a

Object (OID)	Access	Syntax	Value range	Description	Implementation
					zero-length string.
pingCtlDataSize (1.3.6.1.2.1.80.1.2.1.5)	read-create	Unsigned32	Unsigned32 (0..65507)	Payload size for each probe packet.	<p>The maximum payload size of an IP packet is 65507 octets, excluding the size of the ICMP or UDP packet header (each of the header occupies eight octets) and the IP packet header (20 octets).</p> <p>If the system uses the default payload size, the value is 0 octets.</p> <p>For ICMP or UDP operations, the value range for this object is 20 to 65507 octets.</p> <p>For jitter operations, the value range for this object is 68 to 65507 octets. The default value is 100 octets.</p> <p>For voice operations, the value range for this object is 16 to 65507 octets. If the codec type is g711a or g711μ, the default value is 172 octets. For other codec types, the default value is 32 octets.</p> <p>This object does not take effect on ARP operations.</p>
pingCtlTimeOut (1.3.6.1.2.1.80.1.2.1.6)	read-create	Unsigned32	Unsigned32 (1..60)	Timeout time for waiting for a response to a probe request..	<p>The return value for the read operation is not accurate if the value is not set to integer seconds at the CLI.</p> <p>For example, if the value configured at the CLI is 1050 milliseconds, the return value for the read operation will be 2 seconds.</p> <p>If the value configured at the CLI exceeds 60 seconds, the return value for the read operation is 60 seconds.</p> <p>For voice operations, the default value is 5 seconds. For other operations, the default value is 3 seconds.</p>
pingCtlProbeCount (1.3.6.1.2.1.80.1.2.1.7)	read-create	Unsigned32	Unsigned32 (1..15)	Number of probes per operation.	For voice operations, the value for this object must be 1.
pingCtlAdminStatus (1.3.6.1.2.1.80.1.2.1.8)	read-create	INTEGER	enabled(1), disabled(2)	Administrative status of the probe operation.	As per the MIB.
pingCtlDataFill (1.3.6.1.2.1.80.1.2.1.9)	read-create	OCTET STRING	OCTET STRING (0..1024)	Payload fill string for probe packets.	<p>Length: 0 to 200 characters.</p> <p>This object does not take effect on ARP operations.</p>

Object (OID)	Access	Syntax	Value range	Description	Implementation
pingCtlFrequency (1.3.6.1.2.1.80.1.2.1.10)	read-create	Unsigned32	Standard MIB values.	Interval between two consecutive probes.	Value range: 0 to 604800 seconds. The return value for the read operation is not accurate if the value is not set to integer seconds at the CLI. For example, if the value configured at the CLI is 1050 milliseconds, the return value for the read operation will be 2 seconds. For voice operations, the default value is 60 seconds. For other operations, the default value is 0 seconds. If the value for this object is 0, the system does not generate statistics for the operation.
pingCtlMaxRows (1.3.6.1.2.1.80.1.2.1.11)	read-create	Unsigned32	Standard MIB values.	Maximum number of history records.	Value range: 0 to 50.
pingCtlStorageType (1.3.6.1.2.1.80.1.2.1.12)	read-only	StorageType	Standard MIB values.	Conceptual row storage type.	As per the MIB.
pingCtlTrapGeneration (1.3.6.1.2.1.80.1.2.1.13)	read-create	BITS	BITS { probeFailure(0), testFailure(1), testCompletion(2) }	Conditions to generate notifications.	ICMP jitter. voice, UDP jitter operations support only pingTestCompleted(2).
pingCtlTrapProbeFailureFilter (1.3.6.1.2.1.80.1.2.1.14)	read-create	Unsigned32	Unsigned32 (0..15)	Number of successive probe failures that are required before a notification can be generated.	Value range: 1 to 15. This object is not available before you specify probeFailure for pingCtlTrapGeneration. If the value of pingCtlTrapGeneration does not contain probeFailure, the value for this object is 1. This object does not take effect on voice operations.
pingCtlTrapTestFailureFilter (1.3.6.1.2.1.80.1.2.1.15)	read-create	Unsigned32	Unsigned32 (0..15)	Number of accumulated probe failures that are required before a notification can be generated.	Value range: 1 to 15. This object is not available before you specify testFailure for pingCtlTrapGeneration. If the value of pingCtlTrapGeneration does not contain testFailure, the value for this object is 1. This object does not take

Object (OID)	Access	Syntax	Value range	Description	Implementation
					effect on voice operations.
pingCtlType (1.3.6.1.2.1.80.1.2.1.16)	read-create	OBJECT IDENTIFIER	Standard MIB values.	Operation type.	This object cannot be edited after creation.
pingCtlDescr (1.3.6.1.2.1.80.1.2.1.17)	read-create	SnmpAdminString	OCTET STRING (0..255)	Description string for the remote ping operation.	Length: 0 to 200 characters. The value for this object cannot start with a space.
pingCtlSourceAddressType (1.3.6.1.2.1.80.1.2.1.18)	read-create	InetAddressType	Standard MIB values.	Source address type.	Only supports ipv4(1), ipv6(2), and unknown(0). Default: unknown(0).
pingCtlSourceAddress (1.3.6.1.2.1.80.1.2.1.19)	read-create	InetAddress	Standard MIB values.	Source address.	If the value for the pingCtlSourceAddressType is ipv4(1), the value for this object must be an IPv4 address. If the value for the pingCtlSourceAddressType object is ipv6(2), the value for this object must be an IPv6 address. If the value for the pingCtlSourceAddressType object is unknown(0), the value for this object must be a zero-length string.
pingCtlIfIndex (1.3.6.1.2.1.80.1.2.1.20)	read-create	InterfaceIndexOrZero	Standard MIB values.	Interface index.	This object does not take effect on ARP operations.
pingCtlByPassRouteTable (1.3.6.1.2.1.80.1.2.1.21)	read-create	TruthValue	Standard MIB values.	Whether to bypass the routing table when sending data packets.	This object does not take effect on ARP operation s.
pingCtlDSField (1.3.6.1.2.1.80.1.2.1.22)	read-create	Unsigned32	Unsigned32 (0..255)	Service type of data packets.	This object does not take effect on ARP operations.
pingCtlRowStatus (1.3.6.1.2.1.80.1.2.1.23)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only active(1), createAndgo(4), and destroy(6).

pingResultsTable

About this table

This table obtains ping result information.

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pingResultsOperStatus (1.3.6.1.2.1.80.1.3.1.1)	read-only	INTEGER	enabled(1), disabled(2),	Operation status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			completed(3)		
pingResultsIpTargetAddressType (1.3.6.1.2.1.80.1.3.1.2)	read-only	InetAddressType	Standard MIB values.	Destination address type.	As per the MIB.
pingResultsIpTargetAddress (1.3.6.1.2.1.80.1.3.1.3)	read-only	InetAddress	Standard MIB values.	Destination address.	As per the MIB.
pingResultsMinRtt (1.3.6.1.2.1.80.1.3.1.4)	read-only	Unsigned32	Standard MIB values.	Minimum round-trip time.	As per the MIB.
pingResultsMaxRtt (1.3.6.1.2.1.80.1.3.1.5)	read-only	Unsigned32	Standard MIB values.	Maximum round-trip time.	As per the MIB.
pingResultsAverageRtt (1.3.6.1.2.1.80.1.3.1.6)	read-only	Unsigned32	Standard MIB values.	Average round-trip time.	As per the MIB.
pingResultsProbeResponses (1.3.6.1.2.1.80.1.3.1.7)	read-only	Gauge32	Standard MIB values.	Number of received echo replies.	As per the MIB.
pingResultsSentProbes (1.3.6.1.2.1.80.1.3.1.8)	read-only	Gauge32	Standard MIB values.	Number of sent echo requests.	As per the MIB.
pingResultsRttSumOfSquares (1.3.6.1.2.1.80.1.3.1.9)	read-only	Unsigned32	Standard MIB values.	Sum of squares for the round-trip time.	As per the MIB.
pingResultsLastGoodProbe (1.3.6.1.2.1.80.1.3.1.10)	read-only	DateAndTime	Standard MIB values.	Date and time when the last echo reply was received.	As per the MIB.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

pingProbeHistoryTable

About this table

This table obtains information about ping history result information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Not supported

Columns

The table index is pingProbeHistoryIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
pingProbeHistoryIndex (1.3.6.1.2.1.80.1.4.1.1)	not-accessible	Unsigned32	Unsigned32 (1..'ffffff'h)	History record index of a probe operation.	As per the MIB.
pingProbeHistoryResponse (1.3.6.1.2.1.80.1.4.1.2)	read-only	Unsigned32	Standard MIB values.	Time taken for the probe operation.	As per the MIB.
pingProbeHistoryStatus (1.3.6.1.2.1.80.1.4.1.3)	read-only	OperationResponseStatus	Standard MIB values.	Probe result.	Result of a particular probe done by a remote host.
pingProbeHistoryLastRC (1.3.6.1.2.1.80.1.4.1.4)	read-only	Integer32	Standard MIB values.	The last implementation method specific reply code received.	Not supported.
pingProbeHistoryTime (1.3.6.1.2.1.80.1.4.1.5)	read-only	DateAndTime	Standard MIB values.	Date and time when the result was determined.	As per the MIB.

Notifications

pingProbeFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.80.0.1	A ping operation failure was detected.	Informational	N/A	N/A	OFF

Description

This notification is generated when a ping operation failure is detected. A ping operation fails if the value for the **pingCtlTrapGeneration** object is **probeFailure(0)**. Whether to generate the **probeFailure(0)** value depends on the value of the **pingCtlTrapProbeFailureFilter** object. The **pingCtlTrapProbeFailureFilter** object specifies the maximum number of consecutive probe failures allowed by the system. If the maximum number of consecutive probe failures for a ping operation reaches the value specified for the **pingCtlTrapProbeFailureFilter** object, the system determines that the ping operation fails.

Status control

ON

CLI: Use the **reaction trap probe-failure** command.

OFF

CLI: Use the `undo reaction trap probe-failure` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Destination address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.1 (pingResultsOperStatus)	Operation status.	No	INTEGER	enabled(1), disabled(2)
1.3.6.1.2.1.80.1.3.1.2 (pingResultsIpTargetAddressType)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.3 (pingResultsIpTargetAddress)	Destination address in the probe result.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.4 (pingResultsMinRtt)	Minimum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.5 (pingResultsMaxRtt)	Maximum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.6 (pingResultsAverageRtt)	Average round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.7 (pingResultsProbeResponses)	Number of received echo replies in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.8 (pingResultsSentProbes)	Number of sent echo requests in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.9 (pingResultsRttSumOfSquares)	Sum of squares for the round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.10 (pingResultsLastGoodProbe)	Date and time when the last echo reply was received in the probe result.	No	DateAndTime	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

pingTestFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.80.0.2	A ping operation failed.	Informational	N/A	N/A	OFF

Description

This notification is generated when a ping operation fails. A ping operation fails if the value for the **pingCtlTrapGeneration** object is **testFailure(1)**. The **pingCtlTrapTestFailureFilter** object specifies the maximum number of accumulated probe response failures allowed by the system. If the maximum number of accumulated probe response failures for a ping operation reaches the value specified for the **pingCtlTrapTestFailureFilter** object, the system determines that the ping operation fails.

Status control

ON

CLI: Use the **reaction trap test-failure** [*accumulate-probe-failures*] command.

OFF

CLI: Use the **undo reaction trap test-failure** [*accumulate-probe-failures*] command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Destination address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.1 (pingResultsOperStatus)	Operation status.	No	INTEGER	enabled(1), disabled(2)
1.3.6.1.2.1.80.1.3.1.2 (pingResultsIpTargetAddressType)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.3 (pingResultsIpTargetAddress)	Destination address in the probe result.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.4 (pingResultsMinRtt)	Minimum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.5 (pingResultsMaxRtt)	Maximum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.6 (pingResultsAverageRtt)	Average round-trip time in the probe result.	No	Unsigned32	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.3.1.7 (pingResultsProbeResponses)	Number of received echo replies in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.8 (pingResultsSentProbes)	Number of sent echo requests in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.9 (pingResultsRttSumOfSquares)	Sum of squares for the round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.10 (pingResultsLastGoodProbe)	Date and time when the last echo reply was received in the probe result.	No	DateAndTime	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

pingTestCompleted

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.80.0.3	A ping operation completed.	Informational	N/A	N/A	OFF

Description

This notification is generated when a ping operation completes. A ping operation completes if the value for the **pingCtlTrapGeneration** object is **testCompletion(4)**.

Status control

ON

CLI: Use the **reaction trap test-complete** command.

OFF

CLI: Use the **undo reaction trap test-complete** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Destination address type.	No	InetAddressType	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.1 (pingResultsOperStatus)	Operation status.	No	INTEGER	enabled(1), disabled(2)
1.3.6.1.2.1.80.1.3.1.2 (pingResultsIpTargetAddressType)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.3 (pingResultsIpTargetAddress)	Destination address in the probe result.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.4 (pingResultsMinRtt)	Minimum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.5 (pingResultsMaxRtt)	Maximum round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.6 (pingResultsAverageRtt)	Average round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.7 (pingResultsProbeResponses)	Number of received echo replies in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.8 (pingResultsSentProbes)	Number of sent echo requests in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.9 (pingResultsRttSumOfSquares)	Sum of squares for the round-trip time in the probe result.	No	Unsigned32	Standard MIB values.
1.3.6.1.2.1.80.1.3.1.10 (pingResultsLastGoodProbe)	Date and time when the last echo reply was received in the probe result.	No	DateAndTime	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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DISMAN-TRACEROUTE-MIB

About this MIB

This MIB contains information about the traceroute (tracert) utility defined by RFC 4560 and the traceroute notifications. The traceroute utility is implemented by NQA UDP traceroute operations.

To implement DISMAN TRACEROUTE, the devices must support this MIB. This MIB cannot be used together with CLI.

MIB file name

rfc4560-disman-traceroute.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).traceRouteMIB(81)

Scalar objects

traceRouteMaxConcurrentRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteMaxConcurrentRequests (1.3.6.1.2.1.81.1.1)	read-only	Unsigned 32	Standard MIB values.	Maximum number of concurrent active traceroute requests that are allowed within an agent implementation.	Same as ping MaxConcurrentRequests.

Tabular objects

traceRouteCtlTable

About this table

Use this table to define probe parameters for a traceroute operation.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none"> When create a traceroute operation entry, the default value of traceRouteCtlType is traceRouteUsingUdpProbes. At present, the traceRouteCtlType object supports only traceRouteUsingUdpProbes. When create a traceroute operation entry, the values of the traceRouteCtlOwnerIndex and traceRouteCtlTestName objects must be different than the pingCtlOwnerIndex and pingCtlTestName objects. 	<ul style="list-style-type: none"> Modifying any object in the traceRouteCtlTable except the following objects will clear the corresponding probe results, history records, and statistics information: <ul style="list-style-type: none"> traceRouteCtlTrapGeneration. traceRouteCtlDescr. traceRouteCtlMaxRows. If the new value for this object is lower than the previous value, the system deletes the excessive history records. You must specify traceRouteCtlTargetAddressType and traceRouteCtlTargetAddress in pairs in an SNMP request. You must specify traceRouteCtlSourceAddressType and traceRouteCtlSourceAddress in pairs in an SNMP request. When traceRouteCtlAdminStatus is enabled, you cannot change the configuration in the traceRouteCtlTable. 	Supported	Supported

Columns

The table indexes are traceRouteCtlOwnerIndex and traceRouteCtlTestName.

Table OID: 1.3.6.1.2.1.81.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteCtlOwnerIndex (1.3.6.1.2.1.81.1.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	Administrator name.	For the set operation, the uppercase letters in the value will be converted to lowercase letters. The value cannot contain a minus sign (-) or question mark (?).
traceRouteCtlTestName (1.3.6.1.2.1.81.1.2.1.2)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	Operation tag.	For the set operation, the uppercase letters in the value will be converted to lowercase letters. The value cannot contain a minus sign (-) or question mark (?).

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteCtlTargetAddressType (1.3.6.1.2.1.81.1.2.1.3)	read-create	InetAddressType	Standard MIB values.	Destination address type.	Supports only ipv4(1), dns(16), and unknown(0).
traceRouteCtlTargetAddress (1.3.6.1.2.1.81.1.2.1.4)	read-create	InetAddress	Standard MIB values.	Destination address.	If the value for the traceRouteCtlTargetAddressType object is ipv4(1), the value for this object must be an IPv4 address. If the value for the traceRouteCtlTargetAddressType object is dns(16), the value for this object can be a host name. If the value for the traceRouteCtlTargetAddressType object is unknown(0), the value for this object must be a zero-length string.
traceRouteCtlByPassRouteTable (1.3.6.1.2.1.81.1.2.1.5)	read-create	TruthValue	Standard MIB values.	Whether to bypass the routing table.	As per the MIB.
traceRouteCtlDataSize (1.3.6.1.2.1.81.1.2.1.6)	read-create	Unsigned 32	Unsigned32 (0..65507)	Size of the data portion of a traceroute request, in octets.	Value range: 20 to 65507 octets. Default: 100 octets.
traceRouteCtlTimeOut (1.3.6.1.2.1.81.1.2.1.7)	read-create	Unsigned 32	Unsigned32 (1-60)	Timeout time for waiting for a response to a probe request..	Same as the standard MIB file.
traceRouteCtlProbesPerHop (1.3.6.1.2.1.81.1.2.1.8)	read-create	Unsigned 32	Unsigned32 (1-10)	Number of times to reissue a traceroute request with the same time-to-live (TTL) value.	Same as the standard MIB file..
traceRouteCtlPort (1.3.6.1.2.1.81.1.2.1.9)	read-create	Unsigned 32	Unsigned32 (1-65535)	Destination port number.	Same as the standard MIB file.
traceRouteCtlMaxTtl (1.3.6.1.2.1.81.1.2.1.10)	read-create	Unsigned 32	Unsigned32 (1-255)	Maximum TTL value.	Same as the standard MIB file.
traceRouteCtlDSField (1.3.6.1.2.1.81.1.2.1.11)	read-create	Unsigned 32	Unsigned32 (0-255)	Service type.	As per the MIB.
traceRouteCtlSourceAddressType (1.3.6.1.2.1.81.1.2.1.12)	read-create	InetAddressType	Standard MIB values.	Source address type.	Supports only ipv4(1) and unknown(0). Default: unknown(0).
traceRouteCtlSourceAddress (1.3.6.1.2.1.81.1.2.1.13)	read-create	InetAddress	Standard MIB values.	Source address.	If the value for the traceRouteCtlSourceAddressType object is ipv4(1), the value for this object must be an IPV4 address.

Object (OID)	Access	Syntax	Value range	Description	Implementation
					If the value for the traceRouteCtlSourceAddressType object is unknown(0), the value for this object must be a zero-length string.
traceRouteCtlIfIndex (1.3.6.1.2.1.81.1.2.1.14)	read-create	InterfaceIndexOrZero	Standard MIB values.	Output interface index.	Same as the standard MIB file.
traceRouteCtlMiscOptions (1.3.6.1.2.1.81.1.2.1.15)	read-create	SnmpAdminString	OCTET STRING (0..255)	Implementation-dependent options.	Value range: 0 to 200 characters. The corresponding function is not supported.
traceRouteCtlMaxFailures (1.3.6.1.2.1.81.1.2.1.16)	read-create	Unsigned 32	Unsigned 32 (0-255)	Maximum number of consecutive timeouts allowed before a remote traceroute request is terminated.	Same as the standard MIB file.
traceRouteCtlDontFragment (1.3.6.1.2.1.81.1.2.1.17)	read-create	TruthValue	Standard MIB values.	Whether to enable setting of the don't fragment flag (DF) in the IP header.	Same as the standard MIB file.
traceRouteCtlInitialTtl (1.3.6.1.2.1.81.1.2.1.18)	read-create	Unsigned 32	Unsigned 32 (1..255)	Initial TTL value.	Same as the standard MIB file.
traceRouteCtlFrequency (1.3.6.1.2.1.81.1.2.1.19)	read-create	Unsigned 32	Standard MIB values.	Interval between two consecutive traceroute probes.	Value range: 0 to 604800 seconds. The return value for the read operation is not accurate if the value is not set to integer seconds at the CLI. For example, if the value configured at the CLI is 1050 milliseconds, the return value for the read operation will be 2 seconds. Default: 0 seconds.
traceRouteCtlStorageType (1.3.6.1.2.1.81.1.2.1.20)	read-create	StorageType	Standard MIB values.	Storage type.	As per the MIB.
traceRouteCtlAdminStatus (1.3.6.1.2.1.81.1.2.1.21)	read-create	INTEGER	enabled(1) disabled(2)	Operation status.	As per the MIB.
traceRouteCtlDescr (1.3.6.1.2.1.81.1.2.1.22)	read-create	SnmpAdminString	OCTET STRING (0..255)	Description string for the remote traceroute operation.	Value range: 0 to 200 characters. The value cannot start with a space.
traceRouteCtlMaxRows	read-create	Unsigned	Standard	Maximum	Value range: 0 to 50.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.2.1.81.1.2.1.23)		32	MIB values.	number of history records.	
traceRouteCtlTrapGeneration (1.3.6.1.2.1.81.1.2.1.24)	read-create	BITS	BITS { pathChange(0), testFailure(1), testCompletion(2) }	Conditions to generate notifications.	As per the MIB.
traceRouteCtlCreateHopsEntries(1.3.6.1.2.1.81.1.2.1.25)	read-create	TruthValue	Standard MIB values.	Whether to generate the hop table.	As per the MIB.
traceRouteCtlType (1.3.6.1.2.1.81.1.2.1.26)	read-create	OBJECT IDENTIFIER	Standard MIB values.	Traceroute operation type.	This object cannot be edited after creation.
traceRouteCtlRowStatus (1.3.6.1.2.1.81.1.2.1.27)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only active(1), createAndGo(4), and destroy(6).

traceRouteResultsTable

About this table

This table contains information about traceroute probe results.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are traceRouteCtlOwnerIndex and traceRouteCtlTestName.

Table OID: 1.3.6.1.2.1.81.1.3.

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteResultsOperStatus (1.3.6.1.2.1.81.1.3.1.1)	read-only	INTEGER	enabled(1) , disabled(2) , completed(3)	Operation status of a remote traceroute operation.	As per the MIB.
traceRouteResultsCurHopCount (1.3.6.1.2.1.81.1.3.1.2)	read-only	Gauge32	Standard MIB values.	Current TTL value for the traceroute	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				request.	
traceRouteResultsCurProbeCount (1.3.6.1.2.1.81.1.3.1.3)	read-only	Gauge32	Standard MIB values.	Current probe count for the remote traceroute operation.	As per the MIB.
traceRouteResultsIpTgtAddrType (1.3.6.1.2.1.81.1.3.1.4)	read-only	InetAddressType	Standard MIB values.	Type of address stored in the corresponding traceRouteResultsIpTgtAddr object.	As per the MIB.
traceRouteResultsIpTgtAddr (1.3.6.1.2.1.81.1.3.1.5)	read-only	InetAddress	Standard MIB values.	IP address associated with a traceRouteCtlTargetAddress value when the destination address is specified as a DNS name.	As per the MIB.
traceRouteResultsTestAttempts (1.3.6.1.2.1.81.1.3.1.6)	read-only	Gauge32	Standard MIB values.	Current number of probe attempts.	As per the MIB.
traceRouteResultsTestSuccesses (1.3.6.1.2.1.81.1.3.1.7)	read-only	Gauge32	Standard MIB values.	Current number of succeeded probe attempts.	As per the MIB.
traceRouteResultsLastGoodPath (1.3.6.1.2.1.81.1.3.1.8)	read-only	DateAndTime	Standard MIB values.	Date and time when the last complete path was determined.	As per the MIB.

traceRouteProbeHistoryTable

About this table

Use this table to obtain history information about each probe in a traceroute operation.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are traceRouteCtlOwnerIndex, traceRouteCtlTestName, traceRouteProbeHistoryIndex, traceRouteProbeHistoryHopIndex, and traceRouteProbeHistoryProbeIndex.

Table OID: 1.3.6.1.2.1.81.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteProbeHistoryIndex (1.3.6.1.2.1.81.1.4.1.1)	not-accessible	Unsigned 32	Unsigned 32 (1..'ffffff'h)	History record index of a traceroute operation.	As per the MIB.
traceRouteProbeHistoryHopIndex (1.3.6.1.2.1.81.1.4.1.2)	not-accessible	Unsigned 32	Unsigned 32 (1-255)	Index of a hop in the record.	As per the MIB.
traceRouteProbeHistoryProbeIndex (1.3.6.1.2.1.81.1.4.1.3)	not-accessible	Unsigned 32	Unsigned (1-10)	Index of a probe for the hop in the traceroute path.	As per the MIB.
traceRouteProbeHistoryHAddrType (1.3.6.1.2.1.81.1.4.1.4)	read-only	InetAddressType	Standard MIB values.	Type of address for the hop in the traceroute path.	As per the MIB.
traceRouteProbeHistoryHAddr (1.3.6.1.2.1.81.1.4.1.5)	read-only	InetAddress	Standard MIB values.	Address of the hop in the traceroute path.	As per the MIB.
traceRouteProbeHistoryResponse (1.3.6.1.2.1.81.1.4.1.6)	read-only	Unsigned 32	Standard MIB values.	Amount of time measured in milliseconds from when the probe was sent to when its response was received or when it timed out.	As per the MIB.
traceRouteProbeHistoryStatus (1.3.6.1.2.1.81.1.4.1.7)	read-only	Operation ResponseStatus	Standard MIB values.	Probe result.	As per the MIB.
traceRouteProbeHistoryLastRC (1.3.6.1.2.1.81.1.4.1.8)	read-only	Integer32	Standard MIB values.	The last implementation-method-specific reply code received.	As per the MIB.
traceRouteProbeHistoryTime (1.3.6.1.2.1.81.1.4.1.9)	read-only	DateAndTime	Standard MIB values.	Time when the probe result was determined.	As per the MIB.

traceRouteHopsTable

About this table

This table contains information about each hop in a traceroute path.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are traceRouteCtlOwnerIndex, traceRouteCtlTestName, and traceRouteHopsHopIndex.

Table OID: 1.3.6.1.2.1.81.1.5.

Object (OID)	Access	Syntax	Value range	Description	Implementation
traceRouteHopsHopIndex (1.3.6.1.2.1.81.1.5.1.1)	not-accessible	Unsigned 32	Unsigned 32 (1..4294967295)	Hop index.	As per the MIB.
traceRouteHopsIpTgtAddressType (1.3.6.1.2.1.81.1.5.1.2)	read-only	InetAddressType	Standard MIB values.	Destination address type.	As per the MIB.
traceRouteHopsIpTgtAddress (1.3.6.1.2.1.81.1.5.1.3)	read-only	InetAddress	Standard MIB values.	Destination address.	As per the MIB.
traceRouteHopsMinRtt (1.3.6.1.2.1.81.1.5.1.4)	read-only	Unsigned 32	Standard MIB values.	Minimum bidirectional delay.	As per the MIB.
traceRouteHopsMaxRtt (1.3.6.1.2.1.81.1.5.1.5)	read-only	Unsigned 32	Standard MIB values.	Maximum bidirectional delay.	As per the MIB.
traceRouteHopsAverageRtt (1.3.6.1.2.1.81.1.5.1.6)	read-only	Unsigned 32	Standard MIB values.	Average bidirectional delay	As per the MIB.
traceRouteHopsRttSumOfSquares (1.3.6.1.2.1.81.1.5.1.7)	read-only	Unsigned 32	Standard MIB values.	Sum of squares for delay.	As per the MIB.
traceRouteHopsSentProbes (1.3.6.1.2.1.81.1.5.1.8)	read-only	Unsigned 32	Standard MIB values.	Number of sent probe packets.	As per the MIB.
traceRouteHopsProbeResponses (1.3.6.1.2.1.81.1.5.1.9)	read-only	Unsigned 32	Standard MIB values.	Number of received probe reply packets.	As per the MIB.
traceRouteHopsLastGoodProbe (1.3.6.1.2.1.81.1.5.1.10)	read-only	DateAndTime	Standard MIB values.	Date and time when the last probe reply packet was received.	As per the MIB.

Notifications

traceRoutePathChange

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.81.0.1	The traceroute path changed.	Informational	N/A	N/A	OFF

Description

This notification is generated if the path obtained by the current traceroute operation is different from the path obtained by previous traceroute operations. The traceroute path changes if the value for the `traceRouteCtlTrapGeneration` object is `pathChange(0)`.

Status control

ON

CLI: Use the `reaction trap path-change` command.

OFF

CLI: Use the `undo reaction trap path-change` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.81.1.2.1.3 (<code>traceRouteCtlTargetAddressType</code>)	Destination address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.81.1.2.1.4 (<code>traceRouteCtlTargetAddress</code>)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.81.1.3.1.4 (<code>traceRouteResultsIpTgtAddrType</code>)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.81.1.3.1.5 (<code>traceRouteResultsIpTgtAddr</code>)	Destination address in the probe result.	No	InetAddress	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

traceRouteTestFailed

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.81.0.2	A traceroute operation failed.	Informational	N/A	N/A	OFF

Description

This notification is generated when a traceroute operation fails. A traceroute operation fails if the value for the `traceRouteCtlTrapGeneration` object is `testFailure(1)`.

Status control

ON

CLI: Use the `reaction trap test-failure [accumulate-probe-failures]` command.

OFF

CLI: Use the `undo reaction trap test-failure [accumulate-probe-failures]` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.81.1.2.1.3 (traceRouteCtlTargetAddressType)	Destination address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.81.1.2.1.4 (traceRouteCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.81.1.3.1.4 (traceRouteResultsIpTgtAddrType)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.81.1.3.1.5 (traceRouteResultsIpTgtAddr)	Destination address in the probe result.	No	InetAddress	Standard MIB values.

This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

traceRouteTestCompleted

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.81.0.3	A traceroute operation completed.	Informational	N/A	N/A	OFF

Description

This notification is generated when a traceroute operation completes successfully. A traceroute operation completes successfully if the value for the traceRouteCtlTrapGeneration object is testCompletion(4).

Status control

ON

CLI: Use the `reaction trap test-complete` command.

OFF

CLI: Use the `undo reaction trap test-complete` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.81.1.2.1.3 (traceRouteCtlTargetAddressType)	Destination address type.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.81.1.2.1.4 (traceRouteCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.81.1.3.1.4 (traceRouteResultsIpTgtAddrType)	Destination address type in the probe result.	No	InetAddressType	Standard MIB values.

1.3.6.1.2.1.81.1.3.1.5 (traceRouteResultsIpTgtAddr)	Destination address in the probe result.	No	InetAddress	Standard MIB values.
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This table does not contain indexes. For information about the index or indexes of a MIB object instance in an SNMP variable binding, see the section for that MIB object.

Recommended action

No action is required.

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HH3C-MIRRORGROUP-MIB

About this MIB

Use this MIB to configure the source port, monitor port, reflector port, remote probe VLAN, and more.

MIB file name

hh3c-mirroringgroup.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cMirrGroup(68)

Tabular objects

hh3cMGTable

About this table

This table creates, deletes, or obtains a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is h3cMGID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGID (1.3.6.1.4.1.25506.2.68.1.1.1.1.1)	not-accessible	Integer32	0..2147483647	Mirroring group ID.	Implementation varies by product.
hh3cMGType (1.3.6.1.4.1.25506.2.68.1.1.1.1.2)	read-create	INTEGER	local(1) remote-source(2) remote-destination(3)	Mirroring group type.	Implementation varies by product.
hh3cMGStatus (1.3.6.1.4.1.25506.2.68.1.1.1.1.3)	read-only	INTEGER	active(1) inactive(2)	Mirroring group state.	As per the MIB.
hh3cMGRowStatus (1.3.6.1.4.1.25506.2.68.1.1.1.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none">active(1).createAndGo(4).destroy(6).

hh3cMGMirrorIfTable

About this table

This table creates, deletes, or obtains a source port in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cMGID, h3cMGMirrorIfIndex, and h3cMGMirrorDirection.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGMirrorIfIndex (1.3.6.1.4.1.25506.2.68.1.2.1.1.1)	not-accessible	Integer32	Standard MIB values.	Source port index.	As per the MIB.
hh3cMGMirrorDirection (1.3.6.1.4.1.25506.2.68.1.2.1.1.2)	not-accessible	INTEGER	inbound(1) outbound(2) both(3)	Mirroring direction.	As per the MIB.
hh3cMGMirrorRowStatus (1.3.6.1.4.1.25506.2.68.1.2.1.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none">• active(1).• createAndGo(4).• destroy(6).

hh3cMGMonitorIfTable

About this table

This table creates, deletes, or obtains a monitor port in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cMGID and h3cMGMonitorIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGMonitorIfIndex (1.3.6.1.4.1.25506.2.68.1.3.1.1.1)	not-accessible	Integer32	Standard MIB values.	Monitor port index.	As per the MIB.
hh3cMGMonitorRowStatus (1.3.6.1.4.1.25506.2.68.1.3.1.1.2)	read-create	RowStatus	Standard MIB	Row status.	Supports only the following values:

2)			values.		<ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).
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hh3cMGReflectorIfTable

About this table

This table creates, deletes, or obtains a reflector port in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cMGID and h3cMGReflectorIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGReflectorIfIndex (1.3.6.1.4.1.25506.2.68.1.4.1.1.1)	not-accessible	Integer32	Standard MIB values.	Reflector port index.	As per the MIB.
hh3cMGReflectorRowStatus (1.3.6.1.4.1.25506.2.68.1.4.1.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cMGRprobeVlanTable

About this table

This table creates, deletes, or obtains a remote probe VLAN in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cMGID and h3cMGRprobeVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGRprobeVlanID	not-accessible	Integer3	1..4094	Remote probe	As per the MIB.

(1.3.6.1.4.1.25506.2.68.1.5.1.1.1)	e	2		VLAN ID.	
hh3cMGRprobeVlanRowStatus (1.3.6.1.4.1.25506.2.68.1.5.1.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cMGEgressIfTable

About this table

This table creates, deletes, or obtains an egress port in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cMGID and h3cMGEgressIfIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGEgressIfIndex (1.3.6.1.4.1.25506.2.68.1.6.1.1.1)	not-accessible	Integer32	0..2147483647	Egress port index.	As per the MIB.
hh3cMGEgressRowStatus (1.3.6.1.4.1.25506.2.68.1.6.1.1.2)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cMGMirrorVlanTable

About this table

This table creates, deletes, or obtains a source VLAN in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cMGID and h3cMGMirrorVlanID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGMirrorVlanID (1.3.6.1.4.1.25506.2.6.8.1.7.1.1.1)	not-accessible	Integer32	1~4094	Source VLAN ID.	As per the MIB.
hh3cMGMirrorVlanDirection (1.3.6.1.4.1.25506.2.6.8.1.7.1.1.2)	read-create	INTEGER	inbound(1) outbound(2) both(3)	Mirroring direction.	As per the MIB.
hh3cMGMirrorVlanRowStatus (1.3.6.1.4.1.25506.2.6.8.1.7.1.1.3)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

hh3cMGMirrorCpuTable

About this table

This table creates, deletes, or obtains a source CPU in a mirroring group.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are h3cMGID, h3cMGMirrorCpuChassis, and h3cMGMirrorCpuSlot.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cMGMirrorCpuChassis (1.3.6.1.4.1.25506.2.68.1.8.1.1.1)	not-accessible	Unsigned32	Standard MIB values.	Chassis number for the source CPU.	As per the MIB.
hh3cMGMirrorCpuSlot (1.3.6.1.4.1.25506.2.68.1.8.1.1.2)	not-accessible	Unsigned32	Standard MIB values.	Slot number for the source CPU.	As per the MIB.
hh3cMGMirrorCpuDirection (1.3.6.1.4.1.25506.2.68.1.8.1.1.3)	read-create	INTEGER	inbound(1), outbound(2), both(3)	Mirroring direction.	As per the MIB.
hh3cMGMirrorCpuRowStatus (1.3.6.1.4.1.25506.2.68.1.8.1.1.4)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only the following values: <ul style="list-style-type: none"> • active(1). • createAndGo(4). • destroy(6).

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HH3C-NQA-MIB

About this MIB

Use this MIB to implement the following functions:

- Configure the extended attributes for NQA operations.
- Display the statistical results of the NQA operations.
- Display the extended results of the jitter operations.
- Configure TCP/UDP server properties.
- Save the statistical results of an operation within a specific interval and save multiple statistics groups.
- Save a certain number of history records for an operation.
- Configure the start and end time for each operation.
- Display the statistical results and history records within a specific period of time.

MIB file name

hh3c-nqa.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3cNqa(3)

To support this MIB, the device must also support DISMAN-PING-MIB. HH3C-NQA-MIB and DISMAN-PING-MIB cannot be used together with the CLI.

Scalar objects

hh3cNqaMIBVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaMIBVersion (1.3.6.1.4.1.25506.8.3.1.1)	read-only	DisplayString	OCTET STRING (0..255)	MIB version.	As per the MIB.

hh3cNqaAgentEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaAgentEnable (1.3.6.1.4.1.25506.8.3.1.5)	read-write	INTEGER	Enable(1), disable(2)	Whether or not to enable the NQA client.	As per the MIB.

hh3cNqaServerEnable

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaServerEnable (1.3.6.1.4.1.25506.8.3.1.8)	read-write	INTEGER	Enable(1), disable(2)	Whether or not to enable the NQA server.	As per the MIB.

hh3cNqaStatsMaxGroupNumber

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaStatsMaxGroupNumber (1.3.6.1.4.1.25506.8.3.1.9)	read-only	Integer32	Standard MIB values.	Maximum number of statistics groups that can be saved.	As per the MIB.

Tabular objects

hh3cNqaCtlTable

About this table

Use this table to configure NQA operations.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

- The parameters not supported by pingCtlType are not configurable.
- With configuration modified, the results, history records, and statistics of the corresponding entries will be cleared.
- The results, history records, and statistics must actually reflect the operation results of the current configuration.
- The users cannot obtain the probe results of the previous configuration.
- The result is invalid if a parameter not supported by pingCtlType is configured.
- The table displays the parameters supported by pingCtlType.

pingCtlType value	Supported parameters
pingIcmpEcho	hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance

pingCtlType value	Supported parameters
pingUdpEcho hh3cNqaUdpEcho	hh3cNqaCtlTargetPort hh3cNqaCtlSourcePort hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance
pingSnmpQuery	hh3cNqaCtlSourcePort hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance
pingTcpConnectionAttempt hh3cNqaTcpconnect	hh3cNqaCtlTargetPort hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance
hh3cNqajitter (for UDP jitter operations) Note: The hh3cNqaCtlCodecType object is set to notDefined(1).	hh3cNqaCtlTargetPort hh3cNqaCtlSourcePort hh3cNqaCtlTTL hh3cNqaCtlJitterAdminInterval hh3cNqaCtlJitterAdminNumPackets hh3cNqaCtlCodecType hh3cNqaCtlVPNInstance
hh3cNqajitter (for voice operations) Note: The hh3cNqaCtlCodecType object is set to g711Alaw(2), g711Ulaw(3), or g729A(4).	hh3cNqaCtlTargetPort hh3cNqaCtlSourcePort hh3cNqaCtlTTL hh3cNqaCtlJitterAdminInterval hh3cNqaCtlJitterAdminNumPackets hh3cNqaCtlICPIFAdvFactor hh3cNqaCtlCodecType hh3cNqaCtlVPNInstance
hh3cNqajitter (for ICMP jitter operations) Note: The hh3cNqaCtlCodecType object is set to icmpTimestamp(5).	hh3cNqaCtlTTL hh3cNqaCtlJitterAdminInterval hh3cNqaCtlJitterAdminNumPackets hh3cNqaCtlCodecType hh3cNqaCtlVPNInstance
hh3cNqaHttp	hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlHttpOperationType hh3cNqaCtlHttpOperationString hh3cNqaCtlVPNInstance
hh3cNqadlsw	hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance

pingCtlType value	Supported parameters
hh3cNqaDhcp	hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlVPNInstance
hh3cNqaftp	hh3cNqaCtlTTL hh3cNqaCtlHistoryKeptTime hh3cNqaCtlHistoryEnable hh3cNqaCtlFtpOperationType hh3cNqaCtlFtpUsername hh3cNqaCtlFtpPassword hh3cNqaCtlFtpOperationString hh3cNqaCtlVPNInstance

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaCtlTargetPort (1.3.6.1.4.1.25506.8.3.1.2.1.1)	read-create	Integer32	Integer32 (0..65536)	Destination port.	Value range: 0 to 65535. If the value for pingCtlType is pingUdpEcho or pingTcpConnectionAttempt , the value for this object must be 7. If the value for pingCtlType is hh3cNqaUdpEcho or hh3cNqaTcpConnect , the value for this object cannot be 7.
hh3cNqaCtlSourcePort (1.3.6.1.4.1.25506.8.3.1.2.1.2)	read-create	Integer32	Integer32 (0..65536)	Source port.	Value range: 0 to 65535.
hh3cNqaCtlTTL (1.3.6.1.4.1.25506.8.3.1.2.1.3)	read-create	Integer32	Standard values. MIB	TTL for an NQA operation.	Value range: 1 to 255.
hh3cNqaCtlJitterAdminInterval (1.3.6.1.4.1.25506.8.3.1.2.1.4)	read-create	Integer32	Integer32 (0..60000)	Time interval between two continuous probes in a jitter operation.	Value range: 0 to 60000.
hh3cNqaCtlJitterAdminNumPackets (1.3.6.1.4.1.25506.8.3.1.2.1.5)	read-create	Integer32	Standard values. MIB	Number of packets in a jitter operation.	For ICMP jitter and UDP jitter operations, the value range is 10 to 1000 and the default value is 10. For voice operations, the value range is 10 to 60000 and the default value is 1000. The object is applicable to only ICMP jitter, voice, and UDP jitter operations.
hh3cNqaCtlHttpOperationType (1.3.6.1.4.1.25506.8.3.1.2.1.6)	read-create	INTEGER	get(1), post(2), raw(3)	HTTP operation type.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaCtlHttpOperationString (1.3.6.1.4.1.25506.8.3.1.2.1.7)	read-create	DisplayString	OCTET STRING (0..1023)	HTTP operation string.	<p>If the value for hh3cNqaCtlHttpOperationType is raw(3), the URL length is in the range of 0 to 1023.</p> <p>If the value for hh3cNqaCtlHttpOperationType is get(1) or post(2), the following information applies: The object contains resource and HTTP version, and the resource is part of the URL. The typical format of URL is http://host/resource.</p> <p>The length of the resource is in the range 0 to 246.</p> <p>The resource is case sensitive.</p> <p>The HTTP version is case insensitive and supports HTTP/1.0 and HTTP/1.1.</p> <p>The default HTTP version is v1.0.</p> <p>The object value must contain and only contain one space that separates the resource and HTTP version.</p> <p>If the object value is a zero-length string, the default resource and HTTP version are used.</p>
hh3cNqaCtlFtpOperationType (1.3.6.1.4.1.25506.8.3.1.2.1.8)	read-create	INTEGER	get(1), put(2)	FTP operation type.	As per the MIB.
hh3cNqaCtlFtpUsername (1.3.6.1.4.1.25506.8.3.1.2.1.9)	read-create	DisplayString	OCTET STRING (0..32)	FTP username.	As per the MIB.
hh3cNqaCtlFtpPassword (1.3.6.1.4.1.25506.8.3.1.2.1.10)	read-create	DisplayString	OCTET STRING (0..32)	FTP password.	As per the MIB.
hh3cNqaCtlFtpOperationString (1.3.6.1.4.1.25506.8.3.1.2.1.11)	read-create	DisplayString	OCTET STRING (0..255)	File name transmitted between the FTP client and server.	<p>If the value for hh3cNqaCtlFtpOperationType is put(2), the length of the object is in the range of 1 to 200.</p> <p>If the value for hh3cNqaCtlFtpOperationType is get(1), the length of the object is in the range of 1 to 247.</p>
hh3cNqaCtlVPNInstance (1.3.6.1.4.1.25506.8.3.1.2.1.12)	read-create	DisplayString	OCTET STRING (0..255)	VPN name.	<p>The length of the object is in the range of 0 to 31.</p> <p>The object is not configurable if the device does not support VPN.</p>
hh3cNqaCtlHistoryKeepTime (1.3.6.1.4.1.25506.8.3.1.2.1.13)	read-create	Integer32	Integer32 (1..1440)	Lifetime of history records.	As per the MIB.
hh3cNqaCtlHistoryEnable (1.3.6.1.4.1.25506.8.3.1.2.1.14)	read-create	INTEGER	enabled(1), disabled(2)	Enabling status of saving	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.3.1.2.1.14)				history records.	
hh3cNqaCtlICPIFAdvFactor (1.3.6.1.4.1.25506.8.3.1.2.1.15)	read-create	Integer32	Standard values. MIB	Value of the advantage factor.	Value range: 0 to 20.
hh3cNqaCtlCodecType (1.3.6.1.4.1.25506.8.3.1.2.1.16)	read-create	INTEGER	notDefined(1), g711Alaw(2), g711Ulaw(3), g729A(4), icmpTimestamp(5)	Code type for jitter operations.	<p>The object is valid only if pingCtlType is hh3cNqajitter.</p> <p>For UDP jitter operations, pingCtlType is hh3cNqajitter and the value for this object is notDefined.</p> <p>For voice operations, pingCtlType is hh3cNqajitter and the value for this object is g711Alaw, g711Ulaw, or g729A.</p> <p>For ICMP jitter operations, pingCtlType is hh3cNqajitter and the value for this object is icmpTimestamp.</p> <p>If the value for this object indicates a new operation type, the system performs the following tasks:</p> <ul style="list-style-type: none"> • Delete the entries of the old operation type. • Use the default settings to create entries for the new operation type. <p>In the current software version, the supported values are notDefined, g711Alaw, g711Ulaw, g729A, and icmpTimestamp.</p>

hh3cNqaResultsTable

About this table

This table displays the saved configuration of the NQA operations.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.2.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaResultsRttNumDisconnects (1.3.6.1.4.1.25506.8.3.1.3.1.1)	read-only	Unsigned32	Standard values. MIB	Number of disconnections by the peer.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaResultsRttTimeouts (1.3.6.1.4.1.25506.8.3.1.3.1.2)	read-only	Unsigned32	Standard values. MIB	Number of timeout occurrences in an operation.	As per the MIB.
hh3cNqaResultsRttBusies (1.3.6.1.4.1.25506.8.3.1.3.1.3)	read-only	Unsigned32	Standard values. MIB	Number of probe failures because the upper limit is reached.	Not supported
hh3cNqaResultsRttNoConnections (1.3.6.1.4.1.25506.8.3.1.3.1.4)	read-only	Unsigned32	Standard values. MIB	Number of failures because of unreachable destination.	As per the MIB.
hh3cNqaResultsRttDrops (1.3.6.1.4.1.25506.8.3.1.3.1.5)	read-only	Unsigned32	Standard values. MIB	Number of failures to allocate the system resources.	As per the MIB.
hh3cNqaResultsRttSequenceErrors (1.3.6.1.4.1.25506.8.3.1.3.1.6)	read-only	Unsigned32	Standard values. MIB	Number of received out-of-sequence packets.	As per the MIB.
hh3cNqaResultsRttStatsErrors (1.3.6.1.4.1.25506.8.3.1.3.1.7)	read-only	Unsigned32	Standard values. MIB	Number of other errors.	As per the MIB.
hh3cNqaResultsMaxDelaySD (1.3.6.1.4.1.25506.8.3.1.3.1.8)	read-only	Unsigned32	Standard values. MIB	Maximum delay from source to destination.	As per the MIB.
hh3cNqaResultsMaxDelayDS (1.3.6.1.4.1.25506.8.3.1.3.1.9)	read-only	Unsigned32	Standard values. MIB	Maximum delay from destination to source.	As per the MIB.
hh3cNqaResultsLostPacketRatio (1.3.6.1.4.1.25506.8.3.1.3.1.10)	read-only	Unsigned32	Standard values. MIB	Packet loss ratio.	This object value reflects the packet loss ratio for all operations in DISMAN-PING-MIB and HH3C-NQA-MIB.
hh3cNqaResultsPacketLateArrival (1.3.6.1.4.1.25506.8.3.1.3.1.11)	read-only	Unsigned32	Standard values. MIB	Number of packets arrived after expiration of the timeout timer.	As per the MIB.
hh3cNqaResultsRttSum (1.3.6.1.4.1.25506.8.3.1.3.1.12)	read-only	Unsigned32	Standard values. MIB	Sum of round-trip time.	As per the MIB.
hh3cNqaResultsNumOfDelaySD (1.3.6.1.4.1.25506.8.3.1.3.1.13)	read-only	Unsigned32	Standard values. MIB	Number of delays from source to	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				destination.	
hh3cNqaResultsMinDelaySD (1.3.6.1.4.1.25506.8.3.1.3.1.14)	read-only	Unsigned32	Standard values. MIB	Minimum delay from source to destination.	As per the MIB.
hh3cNqaResultsSumDelaySD (1.3.6.1.4.1.25506.8.3.1.3.1.15)	read-only	Unsigned32	Standard values. MIB	Sum of delays from source to destination.	As per the MIB.
hh3cNqaResultsSum2DelaySD (1.3.6.1.4.1.25506.8.3.1.3.1.16)	read-only	Unsigned32	Standard values. MIB	Square sum of delays from source to destination.	As per the MIB.
hh3cNqaResultsNumOfDelayDS (1.3.6.1.4.1.25506.8.3.1.3.1.17)	read-only	Unsigned32	Standard values. MIB	Number of delays from destination to source.	As per the MIB.
hh3cNqaResultsMinDelayDS (1.3.6.1.4.1.25506.8.3.1.3.1.18)	read-only	Unsigned32	Standard values. MIB	Minimum delay from destination to source.	As per the MIB.
hh3cNqaResultsSumDelayDS (1.3.6.1.4.1.25506.8.3.1.3.1.19)	read-only	Unsigned32	Standard values. MIB	Sum of delays from destination to source.	As per the MIB.
hh3cNqaResultsSum2DelayDS (1.3.6.1.4.1.25506.8.3.1.3.1.20)	read-only	Unsigned32	Standard values. MIB	Square sum of delays from destination to source.	As per the MIB.

hh3cNqaJitterStatsTable

About this table

This table displays the saved jitter operations.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.4.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaJitterStatsNumOfRTT (1.3.6.1.4.1.25506.8.3.	read-only	Counter32	Standard values. MIB	Number of received response	As per the MIB.

Object (OID)	Access	Syntax	Value range		Description	Implementation
1.4.1.1)					packets.	
hh3cNqaJitterStatsMinOfPositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.2)	read-only	Gauge32	Standard values.	MIB	Minimum positive jitter from source to destination.	As per the MIB.
hh3cNqaJitterStatsMaximumOfPositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.3)	read-only	Gauge32	Standard values.	MIB	Maximum positive jitter from source to destination.	As per the MIB.
hh3cNqaJitterStatsMinimumOfPositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.4)	read-only	Gauge32	Standard values.	MIB	Number of positive jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsSumOfPositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.5)	read-only	Gauge32	Standard values.	MIB	Sum of positive jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsSumm2PositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.6)	read-only	Gauge32	Standard values.	MIB	Square sum of positive jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsMinimumOfNegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.7)	read-only	Gauge32	Standard values.	MIB	Minimum absolute value among negative jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsMaximumOfNegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.8)	read-only	Gauge32	Standard values.	MIB	Maximum absolute value among negative jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsMinimumOfNegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.9)	read-only	Gauge32	Standard values.	MIB	Number of negative jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsSummOfNegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.10)	read-only	Gauge32	Standard values.	MIB	Sum of negative jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsSumm2NegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.11)	read-only	Gauge32	Standard values.	MIB	Square sum of negative jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsMinimumOfPositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.12)	read-only	Gauge32	Standard values.	MIB	Minimum positive jitter from destination to source.	As per the MIB.
hh3cNqaJitterStatsMaximumOfPositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.13)	read-only	Gauge32	Standard values.	MIB	Maximum positive jitter from destination to source.	As per the MIB.
hh3cNqaJitterStatsNumber	read-only	Gauge32	Standard	MIB	Number of	As per the MIB.

Object (OID)	Access	Syntax	Value range		Description	Implementation
mOfPositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.14)			values.		positive jitters from destination to source.	
hh3cNqaJitterStatsSumOfPositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.15)	read-only	Gauge32	Standard values.	MIB	Sum of positive jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsSum2PositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.16)	read-only	Gauge32	Standard values.	MIB	Square sum of positive jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsMinOfNegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.17)	read-only	Gauge32	Standard values.	MIB	Minimum absolute value among negative jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsMaxOfNegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.18)	read-only	Gauge32	Standard values.	MIB	Maximum absolute value among negative jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsNumOfNegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.19)	read-only	Gauge32	Standard values.	MIB	Number of negative jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsSumOfNegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.20)	read-only	Gauge32	Standard values.	MIB	Sum of absolute values of negative jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsSum2NegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.21)	read-only	Gauge32	Standard values.	MIB	Square sum of negative jitters from destination to source.	As per the MIB.
hh3cNqaJitterStatsPacketLossSD (1.3.6.1.4.1.25506.8.3.1.4.1.22)	read-only	Gauge32	Standard values.	MIB	Number of lost packets from source to destination.	As per the MIB.

Object (OID)	Access	Syntax	Value range		Description	Implementation
hh3cNqaJitterStatsPacketLossDS (1.3.6.1.4.1.25506.8.3.1.4.1.23)	read-only	Gauge32	Standard values.	MIB	Number of lost packets from destination to source.	As per the MIB.
hh3cNqaJitterStatsAveragePositivesSD (1.3.6.1.4.1.25506.8.3.1.4.1.24)	read-only	Gauge32	Standard values.	MIB	Average positive jitter from source to destination.	If the time difference between two consecutive packets from source to destination is positive, the statistical time is added by 1 and the sum of jitters is added by the time difference. □ Average positive jitter = Sum of jitters / statistical time
hh3cNqaJitterStatsAverageNegativesSD (1.3.6.1.4.1.25506.8.3.1.4.1.25)	read-only	Gauge32	Standard values.	MIB	Average negative jitter from source to destination.	If the time difference between two consecutive packets from source to destination is negative, the statistical time is added by 1 and the sum of jitters is added by the absolute value of the time difference. □ Average negative jitter = Sum of jitters / statistical time
hh3cNqaJitterStatsAveragePositivesDS (1.3.6.1.4.1.25506.8.3.1.4.1.26)	read-only	Gauge32	Standard values.	MIB	Average positive jitter from destination to source.	If the time difference between two consecutive packets from destination to source is positive, the statistical time is added by 1 and the sum of jitters is added by the time difference. □ Average positive jitter = Sum of jitters / statistical time
hh3cNqaJitterStatsAverageNegativesDS (1.3.6.1.4.1.25506.8.3.1.4.1.27)	read-only	Gauge32	Standard values.	MIB	Average negative jitter from destination to source.	If the time difference between two consecutive packets from destination to source is negative, the statistical time is added by 1 and the sum of jitters is added by the absolute value of the time difference. □ Average negative jitter = Sum of jitters / statistical time
hh3cNqaJitterStatsPacketLossUnknown (1.3.6.1.4.1.25506.8.3.1.4.1.28)	read-only	Gauge32	Standard values.	MIB	Number of lost packets for unknown reasons.	Number of lost packets for unknown reasons.
hh3cNqaJitterStatsOperationOfICPIF (1.3.6.1.4.1.25506.8.3.1.4.1.29)	read-only	Gauge32	Standard values.	MIB	ICPIF value of the operation.	Supports only voice operations.
hh3cNqaJitterStatsOperationOfMOS (1.3.6.1.4.1.25506.8.3.1.4.1.30)	read-only	Gauge32	Standard values.	MIB	MOS value of the operation.	Supports only voice operations. The object value is 100 times the

Object (OID)	Access	Syntax	Value range	Description	Implementation
1.4.1.30)					actual value.
hh3cNqaJitterStatsAveSD (1.3.6.1.4.1.25506.8.3.1.4.1.31)	read-only	Gauge32	Standard values. MIB	Average jitters from source to destination.	As per the MIB.
hh3cNqaJitterStatsAveDS (1.3.6.1.4.1.25506.8.3.1.4.1.32)	read-only	Gauge32	Standard values. MIB	Average jitters from destination to source.	As per the MIB.

hh3cNqaTcpServerTable

About this table

This table configures the TCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are h3cNQATcpServerIpAddress and h3cNQATcpServerPort.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.6.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaTcpServerIpAddress (1.3.6.1.4.1.25506.8.3.1.6.1.1)	not-accessible	InetAddress	Standard values. MIB	IP address of the TCP server.	Supports both IPv4 and IPv6 addresses.
hh3cNqaTcpServerPort (1.3.6.1.4.1.25506.8.3.1.6.1.2)	not-accessible	Integer32	Integer32 (0..65536)	Port number of the TCP server.	Value range: 1 to 65535.
hh3cNqaTcpServerRowStatus (1.3.6.1.4.1.25506.8.3.1.6.1.3)	read-create	RowStatus	Standard values. MIB	Row status.	Supports only values active(1) , createAndGo(4) , and destroy(6) .

hh3cNqaUdpServerTable

About this table

This table configures the UDP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cNqaUdpServerIpAddress and hh3cNqaUdpServerPort.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.7.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaUdpServerIpAddress (1.3.6.1.4.1.25506.8.3.1.7.1.1)	not-accessible	InetAddress	Standard values. MIB	IP address of the UDP server.	Supports both IPv4 and IPv6 addresses.
hh3cNqaUdpServerPort (1.3.6.1.4.1.25506.8.3.1.7.1.2)	not-accessible	Integer32	Integer32 (0..65536)	Port number of the UDP server.	Value range: 1 to 65535.
hh3cNqaUdpServerRowStatus (1.3.6.1.4.1.25506.8.3.1.7.1.3)	read-create	RowStatus	Standard values. MIB	Row status.	Supports only values active(1) , createAndGo(4) , and destroy(6) .

hh3cNqaStatisticsCtlTable

About this table

This table configures the collection of NQA operation statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are pingCtlOwnerIndex and pingCtlTestName.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.10.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaCtlStatisticsInterval (1.3.6.1.4.1.25506.8.3.1.10.1.1)	read-create	Unsigned32	Standard MIB values.	Statistics collection interval, in minutes.	Value range: 1 to 35791394. Default: 60.
hh3cNqaCtlStatisticsGroupNumber (1.3.6.1.4.1.25506.8.3.1.10.1.2)	read-create	Unsigned32	Standard MIB values.	Maximum number of statistics groups.	Value range: 0 to the value of hh3cNqaStatsMaxGroupNumber. Default: 2. If the object value is 0, no statistics collection will be enabled.
hh3cNqaCtlStatisticsKeptTime (1.3.6.1.4.1.25506.8.3.1.10.1.3)	read-create	Unsigned32	Unsigned32 (1..1440)	Statistics lifetime, in minutes.	Value range: 1 to 1440. Default: 120.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaCtlBeginTime (1.3.6.1.4.1.25506.8.3.1.10.1.4)	read-create	DateAndTime	Standard MIB values.	Start time for saving statistics.	Obeys the time format. Available year range: 2000 to 2035.
hh3cNqaCtlLifeTime (1.3.6.1.4.1.25506.8.3.1.10.1.5)	read-create	Unsigned32	Standard MIB values.	Operation lifetime, in seconds.	Value range: 1 to 2147483647. The value 4294967295 indicates that the operation will never stop.

hh3cNqaStatisticsResultsTable

About this table

This table displays NQA operation statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pingCtlOwnerIndex, pingCtlTestName, and h3cNQASatResIndex.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.11.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaStatResIndex (1.3.6.1.4.1.25506.8.3.1.11.1.1)	not-accessible	Unsigned32	Unsigned32 (1..4294967295)	Statistics table index.	As per the MIB.
hh3cNqaStatResIpTargetAddressType (1.3.6.1.4.1.25506.8.3.1.11.1.2)	read-only	InetAddressType	Standard MIB values.	Type of destination IP address.	As per the MIB.
hh3cNqaStatResIpTargetAddress (1.3.6.1.4.1.25506.8.3.1.11.1.3)	read-only	InetAddress	Standard MIB values.	Destination IP address.	As per the MIB.
hh3cNqaStatResMinRtt (1.3.6.1.4.1.25506.8.3.1.11.1.4)	read-only	Gauge32	Standard MIB values.	Minimum round-trip time.	As per the MIB.
hh3cNqaStatResMaxRtt (1.3.6.1.4.1.25506.8.3.1.11.1.5)	read-only	Gauge32	Standard MIB values.	Maximum round-trip time.	As per the MIB.
hh3cNqaStatResAverageRtt (1.3.6.1.4.1.25506.8.3.1.11.1.6)	read-only	Gauge32	Standard MIB values.	Average round-trip time.	As per the MIB.
hh3cNqaStatResProbeResponses (1.3.6.1.4.1.25506.8.3.1.11.1.7)	read-only	Counter32	Standard MIB values.	Number of received packets.	As per the MIB.
hh3cNqaStatResSentProbes (1.3.6.1.4.1.25506.8.3.1.11.1.8)	read-only	Counter32	Standard MIB values.	Number of sent probe packets.	As per the MIB.
hh3cNqaStatResRttSumOfSquares (1.3.6.1.4.1.25506.8.3.1.11.1.9)	read-only	Counter32	Standard MIB values.	Square sum of round-trip time.	As per the MIB.

Object (OID)	Access	Syntax	Value range		Description	Implementation
hh3cNqaStatResStartTime (1.3.6.1.4.1.25506.8.3.1.11.1.10)	read-only	DateAndTime	Standard values.	MIB	Start time of the statistics.	As per the MIB.
hh3cNqaStatResInterval (1.3.6.1.4.1.25506.8.3.1.11.1.11)	read-only	Gauge32	Standard values.	MIB	End time of the statistics.	As per the MIB.
hh3cNqaStatResRttNumDisconnections (1.3.6.1.4.1.25506.8.3.1.11.1.12)	read-only	Counter32	Standard values.	MIB	Number of disconnections by the peer.	As per the MIB.
hh3cNqaStatResRttTimeouts (1.3.6.1.4.1.25506.8.3.1.11.1.13)	read-only	Counter32	Standard values.	MIB	Number of timeout occurrences in an operation.	As per the MIB.
hh3cNqaStatResRttBusies (1.3.6.1.4.1.25506.8.3.1.11.1.14)	read-only	Counter32	Standard values.	MIB	Number of failures due to the busy system.	As per the MIB.
hh3cNqaStatResRttNoConnections (1.3.6.1.4.1.25506.8.3.1.11.1.15)	read-only	Counter32	Standard values.	MIB	Number of failures to connect with the peer.	As per the MIB.
hh3cNqaStatResRttDrops (1.3.6.1.4.1.25506.8.3.1.11.1.16)	read-only	Counter32	Standard values.	MIB	Number of failures to allocate the system resources.	As per the MIB.
hh3cNqaStatResRttSequenceErrors (1.3.6.1.4.1.25506.8.3.1.11.1.17)	read-only	Counter32	Standard values.	MIB	Number of failures due to out-of-sequence packets.	As per the MIB.
hh3cNqaStatResRttErrors (1.3.6.1.4.1.25506.8.3.1.11.1.18)	read-only	Counter32	Standard values.	MIB	Number of failures due to other errors.	As per the MIB.
hh3cNqaStatResLostPacketRatio (1.3.6.1.4.1.25506.8.3.1.11.1.19)	read-only	Gauge32	Standard values.	MIB	Packet loss ratio.	As per the MIB.
hh3cNqaStatResPacketLateArrival (1.3.6.1.4.1.25506.8.3.1.11.1.20)	read-only	Counter32	Standard values.	MIB	Number of packets arrived after the timeout.	As per the MIB.
hh3cNqaStatResRttSum (1.3.6.1.4.1.25506.8.3.1.11.1.21)	read-only	Counter32	Standard values.	MIB	Sum of round-trip time.	As per the MIB.
hh3cNqaStatResNumOfDelaySD (1.3.6.1.4.1.25506.8.3.1.11.1.22)	read-only	Counter32	Standard values.	MIB	Number of delays from source to destination.	As per the MIB.
hh3cNqaStatResMinDelaySD (1.3.6.1.4.1.25506.8.3.1.11.1.23)	read-only	Gauge32	Standard values.	MIB	Minimum delay from source to destination.	As per the MIB.
hh3cNqaStatResMaxDelaySD (1.3.6.1.4.1.25506.8.3.1.11.1.24)	read-only	Gauge32	Standard values.	MIB	Maximum delay from	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				source to destination.	
hh3cNqaStatResSumDelaySD (1.3.6.1.4.1.25506.8.3.1.11.1.25)	read-only	Counter32	Standard values. MIB	Sum of delays from source to destination.	As per the MIB.
hh3cNqaStatResSum2DelaySD (1.3.6.1.4.1.25506.8.3.1.11.1.26)	read-only	Counter32	Standard values. MIB	Square sum of delays from source to destination.	As per the MIB.
hh3cNqaStatResNumOfDelayDS (1.3.6.1.4.1.25506.8.3.1.11.1.27)	read-only	Counter32	Standard values. MIB	Number of delays from destination to source.	As per the MIB.
hh3cNqaStatResMinDelayDS (1.3.6.1.4.1.25506.8.3.1.11.1.27)	read-only	Gauge32	Standard values. MIB	Minimum delay from destination to source.	As per the MIB.
hh3cNqaStatResMaxDelayDS (1.3.6.1.4.1.25506.8.3.1.11.1.29)	read-only	Gauge32	Standard values. MIB	Maximum delay from destination to source.	As per the MIB.
hh3cNqaStatResSumDelayDS (1.3.6.1.4.1.25506.8.3.1.11.1.30)	read-only	Counter32	Standard values. MIB	Sum of delays from destination to source.	As per the MIB.
hh3cNqaStatResSum2DelayDS (1.3.6.1.4.1.25506.8.3.1.11.1.31)	read-only	Counter32	Standard values. MIB	Square sum of delays from destination to source.	As per the MIB.

hh3cNqaGroupStatsJitterTable

About this table

This table displays jitter operation statistics.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are pingCtlOwnerIndex, pingCtlTestName, and h3cNQASatJitterIndex.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.12.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaStatJitterIndex (1.3.6.1.4.1.25506.8.3.1.12.1.1)	not-accessible	Unsigned32	Unsigned32 (1..4294967295)	Statistics table index	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				for a jitter operation.	
hh3cNqaStatJitterMinOfPosSD (1.3.6.1.4.1.25506.8.3.1.12.1.2)	read-only	Gauge32	Standard values. MIB	Minimum positive jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterMaxOfPosSD (1.3.6.1.4.1.25506.8.3.1.12.1.3)	read-only	Gauge32	Standard values. MIB	Maximum positive jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterNumOfPosSD (1.3.6.1.4.1.25506.8.3.1.12.1.4)	read-only	Counter32	Standard values. MIB	Number of positive jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterSumOfPosSD (1.3.6.1.4.1.25506.8.3.1.12.1.5)	read-only	Counter32	Standard values. MIB	Sum of positive jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterSumOfSquarePosSD (1.3.6.1.4.1.25506.8.3.1.12.1.6)	read-only	Counter32	Standard values. MIB	Square sum of positive jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterMinOfNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.7)	read-only	Gauge32	Standard values. MIB	Minimum negative jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterMaxOfNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.8)	read-only	Gauge32	Standard values. MIB	Maximum negative jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterNumOfNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.9)	read-only	Counter32	Standard values. MIB	Number of negative jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterSumOfNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.10)	read-only	Counter32	Standard values. MIB	Sum of negative jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterSumOfSquareNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.11)	read-only	Counter32	Standard values. MIB	Square sum of negative jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterMinOfPosDS (1.3.6.1.4.1.25506.8.3.1.12.1.12)	read-only	Gauge32	Standard values. MIB	Minimum positive jitter from destination to	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				source.	
hh3cNqaStatJitterMaxOfPosDS (1.3.6.1.4.1.25506.8.3.1.12.1.13)	read-only	Gauge32	Standard values.	MIB Maximum positive jitter from destination to source.	As per the MIB.
hh3cNqaStatJitterNumOfPosDS (1.3.6.1.4.1.25506.8.3.1.12.1.14)	read-only	Counter32	Standard values.	MIB Number of positive jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterSumOfPosDS (1.3.6.1.4.1.25506.8.3.1.12.1.15)	read-only	Counter32	Standard values.	MIB Sum of positive jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterSumOfSquarePosDS (1.3.6.1.4.1.25506.8.3.1.12.1.16)	read-only	Counter32	Standard values.	MIB Square sum of positive jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterMinOfNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.17)	read-only	Gauge32	Standard values.	MIB Minimum negative jitter from destination to source.	As per the MIB.
hh3cNqaStatJitterMaxOfNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.18)	read-only	Gauge32	Standard values.	MIB Maximum negative jitter from destination to source.	As per the MIB.
hh3cNqaStatJitterNumOfNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.19)	read-only	Counter32	Standard values.	MIB Number of negative jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterSumOfNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.20)	read-only	Counter32	Standard values.	MIB Sum of negative jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterSumOfSquareNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.21)	read-only	Counter32	Standard values.	MIB Square sum of negative jitters from destination to source.	As per the MIB.
hh3cNqaStatJitterPacketLossSD (1.3.6.1.4.1.25506.8.3.1.12.1.22)	read-only	Counter32	Standard values.	MIB Number of lost packets from source to destination.	As per the MIB.
hh3cNqaStatJitterPacketLossDS (1.3.6.1.4.1.25506.8.3.1.12.1.23)	read-only	Counter32	Standard values.	MIB Number of lost packets from destination to source.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaStatJitterAvePosSD (1.3.6.1.4.1.25506.8.3.1.12.1.24)	read-only	Gauge32	Standard values. MIB	Average positive jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterAveNegSD (1.3.6.1.4.1.25506.8.3.1.12.1.25)	read-only	Gauge32	Standard values. MIB	Average negative jitter from source to destination.	As per the MIB.
hh3cNqaStatJitterAvePosDS (1.3.6.1.4.1.25506.8.3.1.12.1.26)	read-only	Gauge32	Standard values. MIB	Average positive jitter from destination to source.	As per the MIB.
hh3cNqaStatJitterAveNegDS (1.3.6.1.4.1.25506.8.3.1.12.1.27)	read-only	Gauge32	Standard values. MIB	Average negative jitter from destination to source.	As per the MIB.
hh3cNqaStatJitterPktLossUnknown (1.3.6.1.4.1.25506.8.3.1.12.1.28)	read-only	Counter32	Standard values. MIB	Number of lost packets for unknown reasons.	As per the MIB.
hh3cNqaStatJitterMaxOfICIPF (1.3.6.1.4.1.25506.8.3.1.12.1.29)	read-only	Gauge32	Standard values. MIB	Maximum ICPIF value.	Supports only voice operations.
hh3cNqaStatJitterMinOfICIPF (1.3.6.1.4.1.25506.8.3.1.12.1.30)	read-only	Gauge32	Standard values. MIB	Minimum ICPIF value.	Supports only voice operations.
hh3cNqaStatJitterMaxOfMOS (1.3.6.1.4.1.25506.8.3.1.12.1.31)	read-only	Gauge32	Standard values. MIB	Maximum MOS value.	Supports only voice operations. The object value is 100 times the actual value.
hh3cNqaStatJitterMinOfMOS (1.3.6.1.4.1.25506.8.3.1.12.1.32)	read-only	Gauge32	Standard values. MIB	Minimum MOS value.	Supports only voice operations. The object value is 100 times the actual value.
hh3cNqaStatJitterAveSD (1.3.6.1.4.1.25506.8.3.1.12.1.33)	read-only	Gauge32	Standard values. MIB	Average jitters from source to destination.	As per the MIB.
hh3cNqaStatJitterAveDS (1.3.6.1.4.1.25506.8.3.1.12.1.34)	read-only	Gauge32	Standard values. MIB	Average jitters from destination to source.	As per the MIB.

hh3cNqaReactionTable

About this table

This table configures reaction entries for NQA operations.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cNqaReactOwnerIndex, hh3cNqaReactTestName, and hh3cNqaReactItemIndex.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.13.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaReactOwnerIndex (1.3.6.1.4.1.25506.8.3.1.13.1.1)	accessible-for-notify	SnmpAdminString	OCTET STRING(0..32)	Administrator index.	As per the MIB.
hh3cNqaReactTestName (1.3.6.1.4.1.25506.8.3.1.13.1.2)	accessible-for-notify	SnmpAdminString	OCTET STRING(0..32)	Operation tag.	As per the MIB.
hh3cNqaReactItemIndex (1.3.6.1.4.1.25506.8.3.1.13.1.3)	accessible-for-notify	Unsigned32	Unsigned32 (1..10)	A reaction entry is identified by its ID uniquely for an NQA operation.	As per the MIB.
hh3cNqaReactCheckedElement (1.3.6.1.4.1.25506.8.3.1.13.1.4)	read-create	INTEGER	probetime(1) probefailure(2) jitterrtt(3) jitterpacketloss(4) jittersd(5) jiterds(6) icpif(7) mos(8) jitterOwdSD(9) jitterOwdDS(10)	Monitored performance metric.	As per the MIB.
hh3cNqaReactThresholdUpperLimit (1.3.6.1.4.1.25506.8.3.1.13.1.5)	read-create	Unsigned32	Standard values.	Upper limit of the threshold.	If hh3cNqaReactCheckedElement uses value icpif , the value range of this object is 1 to 100. If hh3cNqaReactCheckedElement uses value mos , the value range of this object is 1 to 500. If hh3cNqaReactCheckedElement uses value jittersd , jiterds , jitterOwdSD , jitterOwdDS , jitterrtt , or probetime , the value range of this object is 0 to 3600000 milliseconds.

Object (OID)	Access	Syntax	Value range	Description	Implementation
					In other cases, the value of this object should not be set.
hh3cNqaReactThresholdLowerLimit (1.3.6.1.4.1.25506.8.3.1.13.1.6)	read-create	Unsigned32	Standard values. MIB	Lower limit of the threshold.	<p>If hh3cNqaReactCheckedElement uses value icpif, the value range of this object is 1 to 100.</p> <p>If hh3cNqaReactCheckedElement uses value mos, the value range of this object is 1 to 500.</p> <p>If hh3cNqaReactCheckedElement uses value jittersd, jitterds, jitterOwdSD, jitterOwdDS, jitterrrt, or probetime, the value range of this object is 0 to 3600000 milliseconds.</p> <p>In other cases, the value of this object should not be set.</p>
hh3cNqaReactThresholdType (1.3.6.1.4.1.25506.8.3.1.13.1.7)	read-create	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)	Threshold type.	<p>If hh3cNqaReactCheckedElement uses value jittersd or jitterds, this object value can be average or accumulative.</p> <p>If hh3cNqaReactCheckedElement uses value jitterpacketloss, this object value can be accumulative.</p> <p>If hh3cNqaReactCheckedElement uses value probetime, this object value can be average, consecutive, or accumulative.</p> <p>If hh3cNqaReactCheckedElement uses value probefailure, this object value can be consecutive or accumulative.</p> <p>If hh3cNqaReactCheckedElement uses value jitterrrt, this object value can be average or ccumulative.</p> <p>In other cases, the value of this object should not be set.</p>
hh3cNqaReactThresholdConsecNum (1.3.6.1.4.1.25506.8.3.1.13.1.8)	read-create	Unsigned32	Standard values. MIB	Consecutive threshold limit. If the threshold type is not set to consecutive, this object is meaningless.	<p>If hh3cNqaReactCheckedElement uses value probetime or probefailure, the value range of this object is 1 to 16.</p> <p>In other cases, the value of this object should not be set.</p>

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaReactThresholdAccumNum (1.3.6.1.4.1.25506.8.3.1.13.1.9)	read-create	Unsigned32	Standard values. MIB	Accumulative threshold limit. If the threshold type is not set to accumulate, this object is meaningless.	<p>If hh3cNqaReactCheckedElement uses value jittersd or jitterds and the operation type is set to ICMP-jitter or UDP-jitter, the value range of this object is 1 to 14999.</p> <p>If hh3cNqaReactCheckedElement uses value jittersd or jitterds and the operation type is set to voice, the value range of this object is 1 to 59999.</p> <p>If hh3cNqaReactCheckedElement uses value jitterpacketloss or jitterrtt and the operation type is set to ICMP-jitter or UDP-jitter, the value range of this object is 1 to 15000.</p> <p>If hh3cNqaReactCheckedElement uses value jitterpacketloss or jitterrtt and the operation type is set to voice, the value range of this object is 1 to 60000.</p> <p>If hh3cNqaReactCheckedElement uses value probetime or probefailure, the value range of this object is 1 to 15.</p> <p>In other cases, the value of this object should not be set.</p>
hh3cNqaReactActionType (1.3.6.1.4.1.25506.8.3.1.13.1.10)	read-create	INTEGER	none(0), trapOnly(1), triggerOnly(2), trapAndTrigger(3)	Sets the action for the threshold violation event. By default, no action is specified for the threshold violation event.	The supported action type depends on the monitored performance metric.
hh3cNqaReactCurrentStatus (1.3.6.1.4.1.25506.8.3.1.13.1.11)	read-only	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)	Obtain the alarm status for the threshold violation event.	As per the MIB.
hh3cNqaReactRowStatus (1.3.6.1.4.1.25506.8.3.1.13.1.12)	read-create	RowStatus	Standard values. MIB	An indication of the creation and deletion of reaction entries.	As per the MIB.
hh3cNqaReactCheckedNum (1.3.6.1.4.1.25506.8.3.1.13.1.13)	read-only	Unsigned32	Standard values. MIB	Number of targets that have been monitored for data collection.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaReactThresholdNum (1.3.6.1.4.1.25506.8.3.1.13.1.14)	read-only	Unsigned32	Standard values. MIB	Number of threshold violations.	As per the MIB.

hh3cNqaStatisticsReactionTable

About this table

This table records the number of monitored targets and number of threshold violations in a certain time period.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cNqaStatReactOwnerIndex, hh3cNqaStatReactTestName, hh3cNqaStatReactIndex, and hh3cNqaStatReactItemIndex.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.14.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaStatReactOwnerIndex (1.3.6.1.4.1.25506.8.3.1.14.1.1)	not-accessible	SnmpAdminString	OCTET STRING(0..32)	Administrator index.	As per the MIB.
hh3cNqaStatReactTestName (1.3.6.1.4.1.25506.8.3.1.14.1.2)	not-accessible	SnmpAdminString	OCTET STRING(0..32)	Operation tag.	As per the MIB.
hh3cNqaStatReactIndex (1.3.6.1.4.1.25506.8.3.1.14.1.3)	not-accessible	Unsigned32	Standard values. MIB	A reaction entry is identified by its ID uniquely for an NQA operation.	As per the MIB.
hh3cNqaStatReactItemIndex (1.3.6.1.4.1.25506.8.3.1.14.1.4)	not-accessible	Unsigned32	Standard values. MIB	Number of monitored hh3cNqaReactCheckedElement in a time period.	As per the MIB.
hh3cNqaStatReactCheckedNum (1.3.6.1.4.1.25506.8.3.1.14.1.5)	read-only	Counter32	Standard values. MIB	Number of monitored hh3cNqaReactCheckedElement in a time period.	As per the MIB.
hh3cNqaStatReactThresholdNum (1.3.6.1.4.1.25506.8.3.1.14.1.6)	read-only	Counter32	Standard values. MIB	Number of monitored threshold violations in a time period.	As per the MIB.

hh3cNqaTcpServerExtendTable

About this table

This table configures the TCP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cNqaTcpServerExtIpAddress, hh3cNqaTcpServerExtPort, hh3cNqaTcpServerExtVPNTType, and hh3cNqaTcpServerExtVPNInstance.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.15.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaTcpServerExtIpAddress (1.3.6.1.4.1.25506.8.3.1.15.1.1)	not-accessible	InetAddress	Standard MIB values.	IP address of the TCP server.	As per the MIB.
hh3cNqaTcpServerExtPort (1.3.6.1.4.1.25506.8.3.1.15.1.2)	not-accessible	Integer32	Integer32 (0..65536)	Port number of the TCP server.	Value range: 1 to 65535.
hh3cNqaTcpServerExtVPNTType (1.3.6.1.4.1.25506.8.3.1.15.1.3)	not-accessible	VpnInstance Type	Standard MIB values.	VPN instance type of the TCP server.	Supports only values public(1) and VPN(2) .
hh3cNqaTcpServerExtVPNInstance (1.3.6.1.4.1.25506.8.3.1.15.1.4)	not-accessible	OCTET STRING	OCTET STRING (0..31)	VPN instance of the TCP server.	<p>The length of the object is 0 to 31.</p> <p>For the set operation:</p> <ul style="list-style-type: none">If the NQA server listens on a public network, the hh3cNqaTcpServerExtVPNTType object must use value public(1) and the object value can be set to any non-printable string.If the NQA server listens on a dedicated network, the hh3cNqaTcpServerExtVPNTType object must use value VPN(2) and the object value can be set to any non-printable string. <p>For the get operation:</p> <ul style="list-style-type: none">If the NQA server listens on a public network, the object value can be public.
hh3cNqaTcpServerExtDSField (1.3.6.1.4.1.25506.8.3.1.15.1.5)	read-create	Unsigned32	Unsigned32 (0..256)	ToS value of the TCP server.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.1.15.1.5)					
hh3cNqaTcpServerExtRowStatus (1.3.6.1.4.1.25506.8.3.1.15.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only values active(1) , createAndgo(4) , and destroy(6) .

hh3cNqaUdpServerExtendTable

About this table

This table configures the UDP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are hh3cNqaUdpServerExtIpAddress, hh3cNqaUdpServerExtPort, hh3cNqaUdpServerExtVPNTType, and hh3cNqaUdpServerExtVPNInstance.

The OID of the table is 1.3.6.1.4.1.25506.8.3.1.16.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNqaUdpServerExtIpAddress (1.3.6.1.4.1.25506.8.3.1.16.1.1)	not-accessible	InetAddress	Standard MIB values.	IP address of the UDP server.	As per the MIB.
hh3cNqaUdpServerExtPort (1.3.6.1.4.1.25506.8.3.1.16.1.2)	not-accessible	Integer32	Integer32 (0..65536)	Port number of the UDP server.	Value range: 1 to 65535.
hh3cNqaUdpServerExtVPNTType (1.3.6.1.4.1.25506.8.3.1.16.1.3)	not-accessible	VpnInstanceType	Standard MIB values.	VPN instance type of the UDP server.	Supports only values public(1) and VPN(2) .
hh3cNqaUdpServerExtVPNInstance (1.3.6.1.4.1.25506.8.3.1.16.1.4)	not-accessible	OCTET STRING	OCTET STRING (0..31)	VPN instance of the UDP server.	<p>The length of the object is 0 to 31. For the set operation:</p> <ul style="list-style-type: none"> If the NQA server listens on a public network, the hh3cNqaUdpServerExtVPNTType must use value public(1) and the object value can be set to any non-printable string. If the NQA server listens on a dedicated network, the hh3cNqaUdpServerExtVPNTType must use value VPN(2) and the object value can be set to any non-printable string. <p>For the get operation:</p> <ul style="list-style-type: none"> If the NQA server listens on a public network, the object value

Object (OID)	Access	Syntax	Value range	Description	Implementation
					can be public.
hh3cNqaUdpServerExtDSField (1.3.6.1.4.1.25506.8.3.1.16.1.5)	read-create	Unsigned 32	Unsigned32 (0..256)	ToS value of the UDP server.	As per the MIB.
hh3cNqaUdpServerExtRowStatus (1.3.6.1.4.1.25506.8.3.1.16.1.6)	read-create	RowStatus	Standard MIB values.	Row status.	Supports only values active(1) , createAndgo(4) , and destroy(6) .

Notifications

hh3cNqaProbeTimeOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.1	Threshold violation of the probe duration.	Informational	-	-	OFF

Description

This notification is generated when the probe duration of an NQA operation exceeds the threshold.

For average or consecutive threshold type, this trap is generated if the hh3cNqaReactCurrentStatus value changed when a operation was completed.

For accumulative threshold type, this trap is generated if the hh3cNqaReactCurrentStatus value changed when a probe was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element probe-duration threshold-type { accumulate accumulate-occurrences | average | consecutive consecutive-occurrences } threshold-value upper-threshold lower-threshold action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element probe-duration threshold-type { accumulate accumulate-occurrences | average | consecutive consecutive-occurrences } threshold-value upper-threshold lower-threshold action-type none** command.

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)

OID (object)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the probe link delay changes.
2. If the issue persists, contact H3C Support.

hh3cNqaJitterRTTOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.2	Threshold violation of the probe round-trip time.	Informational	-	-	OFF

Description

This notification is generated when the threshold violation of the round-trip time for UDP jitter and voice operations occurs. The object supports only accumulate and average threshold types. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a UDP jitter or voice operation was completed.

Status control

ON

CLI: Use the `reaction item-number checked-element rtt threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type trap-only` command.

OFF

CLI: Use the `reaction item-number checked-element rtt threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type none` command.

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the probe link delay changes.
2. If the issue persists, contact H3C Support.

hh3cNqaProbeFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.3	Threshold violation of the probe failure.	Informational	Warning	-	OFF

Description

This notification is generated when the probe failure of an NQA operation exceeds the threshold.

For consecutive threshold type, this trap is generated if the hh3cNqaReactCurrentStatus value changed when an operation was completed.

For accumulative threshold type, this trap is generated if the hh3cNqaReactCurrentStatus value changed when a probe was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element probe-fail threshold-type { accumulate accumulate-occurrences | consecutive consecutive-occurrences } action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element probe-fail threshold-type { accumulate accumulate-occurrences | consecutive consecutive-occurrences } action-type none** command.

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of packet loss on the link.
2. If the issue persists, contact H3C Support.

hh3cNqaJitterPacketLoss

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.4	Threshold violation of the packet loss ratio.	Informational	-	-	OFF

Description

This notification is generated when the threshold violation of the packet loss ratio for UDP jitter and voice operations occurs. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a UDP jitter or voice operation was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element packet-loss threshold-type accumulate accumulate-occurrences action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element packet-loss threshold-type accumulate accumulate-occurrences action-type none** command.

Objects

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)

OID (object)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of packet loss on the link.
2. If the issue persists, contact H3C Support.

hh3cNqaJitterSDOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.5	Threshold violation of the one-way jitter from source to destination.	Informational	-	-	OFF

Description

This notification is generated when the threshold violation of the one-way jitter from source to destination for UDP jitter and voice operations occurs. The object supports only accumulate and average threshold types. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a UDP jitter or voice operation was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element jitter-sd threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element jitter-sd threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type none** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (PingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.80.1.2.1.4 (PingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (PingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (PingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the delay of the probe link from source to destination changes.
2. If the issue persists, contact H3C Support.

hh3cNqaJitterDSOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.6	Threshold violation of the one-way jitter from destination to source.	Informational	-	-	OFF

Description

This notification is generated when the threshold violation of the one-way jitter from destination to source for UDP jitter and voice operations occurs. The object supports only accumulate and average threshold types. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a UDP jitter or voice operation was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element jitter-ds threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element jitter-ds threshold-type { accumulate accumulate-occurrences | average } threshold-value upper-threshold lower-threshold action-type none** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.7 (hh3cNqaReactThresholdType)	Threshold type.	No	INTEGER	invalid(0), average(1), consecutive(2), accumulative(3)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the delay of the probe link from destination to source changes.
2. If the issue persists, contact H3C Support.

hh3cNqaICPIFOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.7	Threshold violation of the ICPIF value.	Informational	-	-	OFF

Description

This notification is generated when the ICPIF value of a voice operation exceeds the threshold. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a voice operation was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element icpif threshold-value upper-threshold lower-threshold action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element icpif threshold-value upper-threshold lower-threshold action-type none** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (PingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (PingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (PingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (PingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the ICPIF value changes on the probe link.
2. If the issue persists, contact H3C Support.

hh3cNqaMOSOverThreshold

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.3.3.8	Threshold violation of the MOS value.	Informational	-	-	OFF

Description

This notification is generated when the MOS value of a voice operation exceeds the threshold. This trap is generated if the hh3cNqaReactCurrentStatus value changed when a voice operation was completed.

Status control

ON

CLI: Use the **reaction item-number checked-element mos threshold-value upper-threshold lower-threshold action-type trap-only** command.

OFF

CLI: Use the **reaction item-number checked-element mos threshold-value upper-threshold lower-threshold action-type none** command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.3.1.13.1.1 (hh3cNqaReactOwnerIndex)	Administrator name of an operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.2 (hh3cNqaReactTestName)	Operation tag of the operation.	Yes	SnmpAdminString	OCTET STRING(0..32)
1.3.6.1.4.1.25506.8.3.1.13.1.3 (hh3cNqaReactItemIndex)	Reaction entry number.	Yes	Unsigned32	Unsigned32 (1..10)
1.3.6.1.2.1.80.1.2.1.3 (pingCtlTargetAddressType)	Type of destination address.	No	InetAddressType	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.4 (pingCtlTargetAddress)	Destination address.	No	InetAddress	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.16 (pingCtlType)	Operation type.	No	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.80.1.2.1.17 (pingCtlDescr)	Description of the operation.	No	SnmpAdminString	OCTET STRING(0..255)
1.3.6.1.4.1.25506.8.3.1.13.1.11 (hh3cNqaReactCurrentStatus)	Alarm status.	No	INTEGER	invalid(1), overThreshold(2), belowThreshold(3), overUpperThreshold(4), belowLowerThreshold(5)

Recommended action

To resolve the issue:

1. Find out the cause of the MOS value changes on the probe link.
2. If the issue persists, contact H3C Support.

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HH3C-NTP-MIB

About this MIB

Use this MIB to configure NTP of the device.

MIB file name

hh3c-ntp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cRhw(8).hh3cNTP(22)

Scalar objects

hh3cNTPSysLeap

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysLeap (1.3.6.1.4.1.25506.8.22.1.1.1)	read-only	INTEGER	noWarning(0), addSecond(1), subtractSecond(2), alarm(3)	Two-bit system leap indicator.	As per the MIB.

hh3cNTPSysStratum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysStratum (1.3.6.1.4.1.25506.8.22.1.1.2)	read-only	Integer32	Integer32 (1..16)	Stratum level of the local system clock.	As per the MIB.

hh3cNTPSysPrecision

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysPrecision (1.3.6.1.4.1.25506.8.22.1.1.3)	read-only	Integer32	Integer32 (-20..20)	Accuracy of the system clock.	As per the MIB.

hh3cNTPSysRootdelay

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysRootdelay (1.3.6.1.4.1.25506.8.22.1.1.4)	read-only	OCTET STRING	OCTET STRING	Round-trip delay from the local device to the primary reference	As per the MIB.

			(1..128)	source at the root of the synchronization subnet.	
--	--	--	----------	---	--

hh3cNTPSysRootdispersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysRootdispersion (1.3.6.1.4.1.25506.8.22.1.1.5)	read-only	OCTET STRING	OCTET STRING (1..128)	Maximum error of the system clock relative to the primary reference source at the root of the synchronization subnet.	As per the MIB.

hh3cNTPSysRefid

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysRefid (1.3.6.1.4.1.25506.8.22.1.1.6)	read-only	OCTET STRING	OCTET STRING (1..128)	Reference clock ID of the local clock.	As per the MIB.

hh3cNTPSysReftime

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysReftime (1.3.6.1.4.1.25506.8.22.1.1.7)	read-only	OCTET STRING	OCTET STRING (1..128)	Timestamp of the local system clock updated most recently.	As per the MIB.

hh3cNTPSysPoll

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysPoll (1.3.6.1.4.1.25506.8.22.1.1.8)	read-only	Integer32	Integer32 (-20..20)	System polling interval.	As per the MIB.

hh3cNTPSysPeer

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysPeer (1.3.6.1.4.1.25506.8.22.1.1.9)	read-only	Integer32	Integer32 (0..2147483647)	Reference synchronization source specified by the system.	This object is replaced by hh3cNTPSysSrcPeer.

hh3cNTPSysState

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysState (1.3.6.1.4.1.25506.8.22.1.1.10)	read-only	INTEGER	noUpdateClock(0), getfreqInfo(1), clockBySet(2), clockBySetAndNoFreq(3), clockBySyms(4), findError(5)	Status of the local clock.	An integer indicates the status of the local clock. Currently, clockBySet(2) is not supported.

hh3cNTPSysOffset

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysOffset (1.3.6.1.4.1.25506.8.22.1.1.11)	read-only	OCTET STRING	OCTET STRING (1..128)	Offset of the local clock updated most recently.	As per the MIB.

hh3cNTPSysDrift

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysDrift (1.3.6.1.4.1.25506.8.22.1.1.12)	read-only	OCTET STRING	OCTET STRING (1..128)	Pre-made clock frequency.	As per the MIB.

hh3cNTPSysCompliance

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysCompliance (1.3.6.1.4.1.25506.8.22.1.1.13)	read-only	OCTET STRING	OCTET STRING (1..128)	System error.	As per the MIB.

hh3cNTPSysClock

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysClock (1.3.6.1.4.1.25506.8.22.1.1.14)	read-only	OCTET STRING	OCTET STRING (1..128)	System local time.	As per the MIB.

hh3cNTPSysStabil

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysStabil (1.3.6.1.4.1.25506.8.22.1.1.15)	read-only	OCTET STRING	OCTET STRING (1..128)	Clock frequency stability.	As per the MIB.

hh3cNTPSysAuthenticate

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysAuthenticate (1.3.6.1.4.1.25506.8.22.1.1.16)	read-write	INTEGER	noAuthenticate(0), authenticate(1)	An integer indicates that the system supports authentication.	As per the MIB.

hh3cNTPSysPollSec

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysPollSec (1.3.6.1.4.1.25506.8.22.1.1.17)	read-only	Integer32	Integer32 (2..1048576)	System polling interval, in seconds.	As per the MIB.

hh3cNTPSysClockSec

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysClockSec (1.3.6.1.4.1.25506.8.22.1.1.18)	read-only	Integer32	Standard MIB values.	System local time, in seconds.	As per the MIB.

hh3cNTPServerIP

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPServerIP (1.3.6.1.4.1.25506.8.22.1.1.19)	read-write	IpAddress	OCTET STRING (4)	IP address of the NTP server.	As per the MIB.

hh3cNTPSysSrcPeer

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysSrcPeer (1.3.6.1.4.1.25506.8.22.1.1.20)	read-only	Unsigned 32	Standard MIB values.	Reference synchronization source specified by the system.	As per the MIB.

hh3cNTPSysOldServerIP

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysOldServerIP (1.3.6.1.4.1.25506.8.22.1.1.21)	accessible-for-notify	IpAddress	OCTET STRING (4)	IP address of the last NTP server.	As per the MIB.

hh3cNTPSysSrcVpnName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysSrcVpnName (1.3.6.1.4.1.25506.8.22.1.1.22)	accessible-for-notify	DisplayString	OCTET STRING (0..255)	VPN instance to which the current NTP server belongs.	As per the MIB.

hh3cNTPSysOldSrcVpnName

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysOldSrcVpnName (1.3.6.1.4.1.25506.8.22.1.1.23)	accessible-for-notify	DisplayString	OCTET STRING (0..255)	VPN instance to which the last NTP server belongs.	As per the MIB.

hh3cNTPSysMaxDynamicSessions

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPSysMaxDynamicSessions (1.3.6.1.4.1.25506.8.22.1.1.24)	accessible-for-notify	Integer32	Integer32 (0..255)	Maximum number of dynamic NTP sessions.	As per the MIB.

Tabular objects

hh3cNTPPeerTable

About this table

This table provides information about the peers associated with the local NTP server.

Support for operations

Create	Edit/Modify	Delete	Read
Supported. The hh3cNTPPeerRowStatus column supports only value createAndGo .	Not supported	Supported	Supported

Columns

The table indexes are hh3cNTPPeerRemAdr and hh3cNTPPeerHMode.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPPeerConfig (1.3.6.1.4.1.25506.8.22.2.1.1.1.1)	read-only	TruthValue	true(1), false(2)	A bit indicates the establishment of the association. If a peer is unreachable, the bit is not recoverable.	As per the MIB.
hh3cNTPPeerAuthenable (1.3.6.1.4.1.25506.8.22.2.1.1.1.2)	read-only	TruthValue	true(1), false(2)	A bit indicates that the peer system supports authentication.	As per the MIB.
hh3cNTPPeerAuthentic (1.3.6.1.4.1.25506.8.22.2.1.1.1.3)	read-only	TruthValue	true(1), false(2)	A bit indicates that the authentic message passes authentication.	As per the MIB.
hh3cNTPPeerRemAdr (1.3.6.1.4.1.25506.8.22.2.1.1.1.4)	not-accessible	IpAddresses	OCTET STRING (4)	IP address of the peer. Set the object when creating a new association.	As per the MIB.
hh3cNTPPeerRemPort (1.3.6.1.4.1.25506.8.22.2.1.1.1.5)	read-only	Integer32	Integer32 (1..65535)	The UDP port number on which the peer receives NTP messages.	As per the MIB.
hh3cNTPPeerLocAdr (1.3.6.1.4.1.25506.8.22.2.1.1.1.6)	read-only	IpAddresses	OCTET STRING (4)	IP address of the local host.	As per the MIB.
hh3cNTPPeerLocPort (1.3.6.1.4.1.25506.8.22.2.1.1.1.7)	read-only	Integer32	Integer32 (1..65535)	The UDP port number on which the local host receives NTP messages.	As per the MIB.
hh3cNTPPeerLeap (1.3.6.1.4.1.25506.8.22.2.1.1.1.8)	read-only	INTEGER	noWarning(0), addSecond(1),	Second leap indicator of the peer.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			subtractSeco nd(2), alarm(3)		
hh3cNTPPeerHMode (1.3.6.1.4.1.25506.8.22.2.1.1.1.9)	not-accessible	INTEGE R	unspecified (0), symmetricActi ve (1), symmetricPas sive (2), client (3), server(4), broadcast (5), reservedCont rol (6), reservedPriva te (7), broadcastclie nt (8), multicastclient (9)	Host association mode.	As per the MIB.
hh3cNTPPeerStratum (1.3.6.1.4.1.25506.8.22.2.1.1.1.10)	read-only	Integer32	Integer32 (0..255)	Stratum level of the peer, indicating the clock accuracy.	As per the MIB.
hh3cNTPPeerPPoll (1.3.6.1.4.1.25506.8.22.2.1.1.1.11)	read-only	Integer32	Integer32 (-20..20)	The interval at which the peer polls the local host.	As per the MIB.
hh3cNTPPeerHPoll (1.3.6.1.4.1.25506.8.22.2.1.1.1.12)	read-only	Integer32	Integer32 (-20..20)	The interval at which the local host polls the peer.	As per the MIB.
hh3cNTPPeerPrecision (1.3.6.1.4.1.25506.8.22.2.1.1.1.13)	read-only	Integer32	Integer32 (-20..20)	Precision of the peer clock.	As per the MIB.
hh3cNTPPeerRootDelay (1.3.6.1.4.1.25506.8.22.2.1.1.1.14)	read-only	OCTET STRING	OCTET STRING (1..128)	Round-trip delay from the peer clock to the local clock.	As per the MIB.
hh3cNTPPeerRootDispersion (1.3.6.1.4.1.25506.8.22.2.1.1.1.15)	read-only	OCTET STRING	OCTET STRING (1..128)	Clock time difference between the peer clock and the time source.	As per the MIB.
hh3cNTPPeerRefId (1.3.6.1.4.1.25506.8.22.2.1.1.1.16)	read-only	OCTET STRING	OCTET STRING (1..128)	Reference source ID of the peer clock.	As per the MIB.
hh3cNTPPeerRefTime (1.3.6.1.4.1.25506.8.22.2.1.1.1.17)	read-only	OCTET STRING	OCTET STRING (1..128)	Timestamp of the peer clock.	As per the MIB.
hh3cNTPPeerOrg (1.3.6.1.4.1.25506.8.22.2.1.1.1.18)	read-only	OCTET STRING	OCTET STRING (1..128)	Local clock timestamp in the NTP message sent most recently.	As per the MIB.
hh3cNTPPeerRec (1.3.6.1.4.1.25506.8.22.2.1.1.1.19)	read-only	OCTET STRING	OCTET STRING (1..128)	Local timestamp in the NTP message received most recently	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				from the peer.	
hh3cNTPPeerXmt (1.3.6.1.4.1.25506.8.22.2.1.1.1.20)	read-only	OCTET STRING	OCTET STRING (1..128)	Local time after the sending of a NTP message.	As per the MIB.
hh3cNTPPeerReach (1.3.6.1.4.1.25506.8.22.2.1.1.1.21)	read-only	Integer32	Integer32 (0..2147483647)	Reachability count. A peer is unreachable if the object value is 0.	As per the MIB.
hh3cNTPPeerValid (1.3.6.1.4.1.25506.8.22.2.1.1.1.22)	read-only	Integer32	Integer32 (0..255)	Valid sampling data.	As per the MIB.
hh3cNTPPeerTimer (1.3.6.1.4.1.25506.8.22.2.1.1.1.23)	read-only	Integer32	Integer32 (0..2147483647)	The interval of transmitted NTP messages from the host to the peer.	As per the MIB.
hh3cNTPPeerDelay (1.3.6.1.4.1.25506.8.22.2.1.1.1.24)	read-only	OCTET STRING	OCTET STRING (1..128)	Delay of messages from the host to the peer.	As per the MIB.
hh3cNTPPeerOffset (1.3.6.1.4.1.25506.8.22.2.1.1.1.25)	read-only	OCTET STRING	OCTET STRING (1..128)	Offset of the peer relative to the local clock.	As per the MIB.
hh3cNTPPeerJitter (1.3.6.1.4.1.25506.8.22.2.1.1.1.26)	read-only	OCTET STRING	OCTET STRING (1..128)	Sampling data flag.	As per the MIB.
hh3cNTPPeerDispersion (1.3.6.1.4.1.25506.8.22.2.1.1.1.27)	read-only	OCTET STRING	OCTET STRING (1..128)	Maximum error of the peer relative to the local clock.	As per the MIB.
hh3cNTPPeerKeyId (1.3.6.1.4.1.25506.8.22.2.1.1.1.28)	read-only	Unsigned 32	Standard MIB values.	Authentication key ID in NTP messages.	As per the MIB.
hh3cNTPPeerFiltDelay (1.3.6.1.4.1.25506.8.22.2.1.1.1.29)	read-only	OCTET STRING	OCTET STRING (1..128)	Round-trip delay of the peer relative to the local clock.	As per the MIB.
hh3cNTPPeerFiltOffset (1.3.6.1.4.1.25506.8.22.2.1.1.1.30)	read-only	OCTET STRING	OCTET STRING (1..128)	Offset of the peer relative to the local clock.	As per the MIB.
hh3cNTPPeerFiltError (1.3.6.1.4.1.25506.8.22.2.1.1.1.31)	read-only	OCTET STRING	OCTET STRING (1..128)	Maximum error of the peer relative to the local clock.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cNTPPeerPMode (1.3.6.1.4.1.25506.8.22.2.1.1.1.32)	read-only	INTEGER	unspecified (0), symmetricActive (1), symmetricPassive (2), client (3), server (4), broadcast (5), reservedControl (6), reservedPrivate (7), broadcastclient (8), multicastclient (9)	Association mode of the peer.	As per the MIB.
hh3cNTPPeerReceived (1.3.6.1.4.1.25506.8.22.2.1.1.1.33)	read-only	INTEGER(0..4294967295)	Standard MIB values.	Number of received NTP messages.	As per the MIB.
hh3cNTPPeerSent (1.3.6.1.4.1.25506.8.22.2.1.1.1.34)	read-only	INTEGER(0..4294967295)	Standard MIB values.	Number of sent NTP messages.	As per the MIB.
hh3cNTPPeerFlash (1.3.6.1.4.1.25506.8.22.2.1.1.1.35)	read-only	Hh3cAlarmStatus	BITS{ recvRepeatMsg(0), recvremainMsg(1), unSynMsg(2), dispBeyond(3), unauthenticated(4), unSynClock(5), straBeyond(6), rootDispBeyond(7), noAuthen(8), refuOperate(9)} }	Message test flag.	As per the MIB.
hh3cNTPPeerRowStatus (1.3.6.1.4.1.25506.8.22.2.1.1.1.36)	read-create	RowStatus	Supports only values active , createAndGo , and destroy .	Row status.	Supports only values active , createAndGo , and destroy . If the value broadcast , broadcastclient , or multicastclient is used for hh3cNTPPeerHMode, this object supports only the read operation.

Notifications

This section contains HH3C-NTP-MIB notifications.

hh3cNTPSysStateChangeTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.22.1.2.0.1	A change occurred on the NTP time synchronization status.	Informational	N/A	N/A	ON

Description

This notification is generated when a change occurs on the NTP time synchronization status.

Status control

The notification cannot be disabled.

Objects

This table does not have indexes.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.22.1.1.10 (hh3cNTPSysState)	Local clock status.	No	INTEGER	noUpdateClock(0), getfreqInfo(1), clockBySet(2), clockBySetAndNoFreq(3), clockBySyms(4), findError(5)
1.3.6.1.4.1.25506.8.22.1.1.19 (hh3cNTPServerIP)	IP address of the NTP server.	No	IpAddress	OCTET STRING (4)
1.3.6.1.4.1.25506.8.22.1.1.22 (hh3cNTPSysSrcVpnName)	VPN instance to which the NTP server belongs.	No	DisplayString	OCTET STRING(0..255)

Recommended action

No action is required.

hh3cNTPSysPeerChangeTrap

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.22.1.2.0.2	Change of the NTP server.	Informational	N/A	N/A	ON

Description

This notification is generated when the NTP time server changes.

Status control

The notification cannot be disabled.

Objects

This table does not have indexes.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.22.1.1.21 (hh3cNTPSysOldServerIP)	IP address of last NTP server.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.8.22.1.1.23 (hh3cNTPSysOldSrcVpnName)	VPN instance to which the last NTP server belongs.	No	DisplayString	OCTET STRING (0..255)
1.3.6.1.4.1.25506.8.22.1.1.19 (hh3cNTPServerIP)	IP address of the current NTP server.	No	IpAddress	Standard MIB values.
1.3.6.1.4.1.25506.8.22.1.1.22 (hh3cNTPSysSrcVpnName)	VPN instance to which the current NTP server belongs.	No	DisplayString	OCTET STRING (0..255)

Recommended action

No action is required.

hh3cNTPDynSessionLimit

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.22.1.2.0.3	The number of dynamic NTP sessions reached the threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the number of dynamic NTP sessions reaches the threshold.

Status control

The notification cannot be disabled.

Objects

This table does not have indexes.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.22.1.1.24 (hh3cNTPSysMaxDynamicSessions)	Maximum number of dynamic NTP sessions.	No	Integer32	Integer32 (0..255)

Recommended action

No action is required.

hh3cNTPDynSessionLimitResume

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.8.22.1.2.0.4	The number of dynamic NTP sessions dropped below the threshold.	Informational	N/A	N/A	ON

Description

This notification is generated when the number of dynamic NTP sessions drops below the threshold.

Status control

The notification cannot be disabled.

Objects

This table does not have indexes.

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.8.22.1.1.24 (hh3cNTPSysMaxDynamicSessions)	Maximum number of dynamic NTP sessions.	No	Integer32	Integer32 (0..255)

Recommended action

No action is required.

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HH3C-RMON-EXT2-MIB

About this MIB

This MIB defines the private alarm group, which enables you to perform basic math operations on multiple variables, and compare the calculation result with the rising and falling thresholds.

The RMON agent samples variables and takes an alarm action based on a private alarm entry as follows:

1. Samples the private alarm variables in the user-defined formula.
2. Processes the sampled values with the formula.
3. Compares the calculation result with the predefined thresholds, and then takes one of the following actions:
 - Triggers the event associated with the rising alarm event if the result is equal to or greater than the rising threshold.
 - Triggers the event associated with the falling alarm event if the result is equal to or smaller than the falling threshold.

This MIB relies on RMON-MIB. Like the alarm group of RMON-MIB, the RMON agent generates an alarm event only for the first crossing if a private alarm entry crosses a threshold multiple times in succession. For example, if the value of a sampled alarm variable crosses the rising threshold multiple times before it crosses the falling threshold, only the first crossing triggers a rising alarm event.

MIB file name

hh3c-rmon-ext2.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cRmonExt(125)

Tabular objects

hh3cRmonExtAlarmTable

About this table

Use this table to configure private alarm entries.

Support for operations

Create	Edit/Modify	Delete	Read
<ul style="list-style-type: none">• To create a private alarm entry, you must specify hh3cRmonExtAlarmVariable, hh3cRmonExtAlarmSympol, and h3cRmonExtAlarmStatus together.• If you create a new entry with values of hh3cRmonExtAlarmVariable, hh3cRmonExtAlarmInterval, hh3cRmonExtAlarmSampleType, hh3cRmonExtAlarmRisingThreshold, and hh3cRmonExtAlarmFallingThreshold being the same as those of an existing entry, the system returns a genErr error.• If the command lines used for instance creations exceed the maximum build run specifications, the	<ul style="list-style-type: none">• When the value of hh3cRmonExtAlarmStatus is valid(1), you cannot modify any objects except hh3cRmonExtAlarmOwner.• If you change the values of hh3cRmonExtAlarmVariable, hh3cRmonExtAlarmInterval, hh3cRmonExtAlarmSampleType, hh3cRmonExtAlarmRisingThreshold, and hh3cRmonExtAlarmFallingThreshold of an entry to be the same as those of an existing entry, the system returns a genErr error.	Supported	Supported

creation operation fails.			
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Columns

The table index is hh3cRmonExtAlarmIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cRmonExtAlarmIndex (1.3.6.1.4.1.25506.2.125.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of a private alarm entry.	As per the MIB.
hh3cRmonExtAlarmInterval (1.3.6.1.4.1.25506.2.125.1.1.2)	read-create	Integer32	Integer32 (10..65535)	Sampling interval in seconds.	Default value: 1800.
hh3cRmonExtAlarmVariable (1.3.6.1.4.1.25506.2.125.1.1.3)	read-create	DisplayString	OCTET STRING (0..255)	Object identifier of the variable to be sampled	<p>The variables in the formula must be represented in OID format that starts with a dot (.), for example, (1.3.6.1.2.1.2.1.10.1)*8.</p> <p>Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Counter32, Counter64, Gauge, or TimeTicks) can be sampled.</p> <p>You can configure a formula to perform the basic math operations of addition, subtraction, multiplication, and division on these variables. To get a correct calculation result, make sure the following conditions are met:</p> <ul style="list-style-type: none"> The values of the variables in the formula are positive integers. The result of each calculating step does not exceed the integer64 range. Division operations are not performed on decimals. The result of the formula calculation is integer32. No spaces exist in the formula.
hh3cRmonExtAlarmSympol (1.3.6.1.4.1.25506.2.125.1.1.4)	read-create	DisplayString	OCTET STRING (0..255)	Description for this entry.	A case-sensitive string of 1 to 127 characters, which can contain spaces and digits but not question marks or not-displayable characters.
hh3cRmonExtAlarmSampleType (1.3.6.1.4.1.25506.2.125.1.1.5)	read-create	INTEGER	absoluteValue(1), deltaValue(2), speedValue(3)	Method of sampling the selected variable and calculating the value to be compared	<p>Supports only absoluteValue(1) and anddeltaValue(2). Default: absoluteValue(1).</p> <p>If the value of this object is absoluteValue(1), the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. If the value of this object is deltaValue(2), the value of the selected variable at</p>

Object (OID)	Access	Syntax	Value range	Description	Implementation
				against the thresholds.	the last sample will be subtracted from the current value, and the difference compared with the thresholds.
hh3cRmonExtAlarmValue (1.3.6.1.4.1.25506.2.125.1.1.6)	read-only	Integer32	Integer32 (-2147483648..2147483647)	Sampled value.	If the sampled value exceeds 2147483647, this object returns the negation of the value when read. If the hh3cRmonExtAlarmSampleType is absoluteValue(1), this value will be the sampled value at the end of the period. If the hh3cRmonExtAlarmSampleType is deltaValue(2), this value will be the difference between the current and last samples.
hh3cRmonExtAlarmStartupAlarm (1.3.6.1.4.1.25506.2.125.1.1.7)	read-create	INTEGER	risingAlarm(1), fallingAlarm(2), risingOrFallingAlarm(3)	Alarms that can be generated at the first sampling when a rising or falling threshold is reached or exceeded.	As per the MIB. Default: isingOrFallingAlarm(3).
hh3cRmonExtAlarmRisingThreshold (1.3.6.1.4.1.25506.2.125.1.1.8)	read-create	Integer32	Integer32 (-2147483648..2147483647)	Rising threshold.	As per the MIB. Default: 1.
hh3cRmonExtAlarmFallingThreshold (1.3.6.1.4.1.25506.2.125.1.1.9)	read-create	Integer32	Integer32 (-2147483648..2147483647)	Falling threshold.	As per the MIB. Default value: 0.
hh3cRmonExtAlarmRisingEvtIndex (1.3.6.1.4.1.25506.2.125.1.1.10)	read-create	Integer32	Integer32 (0..65535)	Index of the eventEntry that is used when a rising threshold is crossed.	As per the MIB. Default value: 0.
hh3cRmonExtAlarmFallingEvtIndex (1.3.6.1.4.1.25506.2.125.1.1.11)	read-create	Integer32	Integer32 (0..65535)	Index of the eventEntry that is used when a falling threshold is crossed.	As per the MIB. Default value: 0.
hh3cRmonExtAlarmStatCycle (1.3.6.1.4.1.25506.2.125.1.1.12)	read-create	Integer32	Integer32 (0..4294967)	Lifetime of the entry, in seconds.	As per the MIB. Default value: 0. The aging timer starts when hh3cRmonExtAlarmStatus is set to valid(1). The system automatically deletes the entry when the aging timer expires.

Object (OID)	Access	Syntax	Value range	Description	Implementation
					<p>When hh3cRmonExtAlarmStatType is during (2), the lifetime must be greater than the sampling interval.</p> <p>When hh3cRmonExtAlarmStatType is forever(1), the object value is 0.</p>
hh3cRmonExtAlarmStatType (1.3.6.1.4.1.25506.2.125.1.1.13)	read-create	INTEGER	forever(1), during(2)	Indicates whether the entry has an infinite or limited lifetime.	<p>As per the MIB.</p> <p>Default: forever(1).</p> <p>If the value of the object is forever(1), the entry exists permanently. If the value of the object is during(2), the entry has an aging time, which is set by hh3cRmonExtAlarmStatCycle.</p>
hh3cRmonExtAlarmOwner (1.3.6.1.4.1.25506.2.125.1.1.14)	read-create	OwnerString	OCTET STRING (0..127)	Owner of the entry.	Case-sensitive string of 1 to 127 characters that can contain spaces and digits but not question marks or not-displayable characters.
hh3cRmonExtAlarmStatus (1.3.6.1.4.1.25506.2.125.1.1.15)	read-create	EntryStatus	valid(1), createRequest(2), underCreation(3), invalid(4)	Status of the entry.	<p>An entry in valid(1) state is fully configured and consistent and fully represents the configuration or operation such a row is intended to represent. When you create or modify an entry, you can specify the valid(1) state for the entry.</p> <p>This object can be set to createRequest(2) only when this instance is created. Immediately after completing the create operation, the agent must set this object to underCreation(3).</p> <p>Setting this object to invalid(4) has the effect of invalidating the corresponding entry.</p>

Notifications

This section contains the HH3C-RMON-EXT2-MIB notifications.

hh3cRmonExtRisingAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.125.0.1	A private alarm entry crossed its rising threshold	Informational	N/A	N/A	ON

Description

This notification is sent when a private alarm entry crosses its rising threshold and generates an event configured for sending SNMP traps.

Status control

ON

CLI: Use the **rmon event** *entry-number* [**description string**] { **log-trap security-string** | **trap security-string** } [**owner text**] command.

OFF

CLI: Use the **rmon event** *entry-number* [**description string**] { **log** | **none** } [**owner text**] command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.125.1.1.1 (hh3cRmonExtAlarmIndex)	Index of a private alarm entry.	Y	Integer32	1..65535
1.3.6.1.4.1.25506.2.125.1.1.4 (hh3cRmonExtAlarmSympol)	Sampling formula.	N	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.125.1.1.5 (hh3cRmonExtAlarmSampleType)	Sampling method.	N	INTEGER	absoluteValue(1), deltaValue(2), speedValue(3)
1.3.6.1.4.1.25506.2.125.1.1.6 (hh3cRmonExtAlarmValue)	Sampled value.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.125.1.1.8 (hh3cRmonExtAlarmRisingThreshold)	Rising threshold.	N	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Check the monitored object for reasons that trigger the alarm.
2. If the issue persists, contact H3C Support.

hh3cRmonExtFallingAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.125.0.2	A private alarm entry fell to or below its falling threshold	Informational	N/A	N/A	ON

Description

This notification is sent when a private alarm entry falls to or below its falling threshold and generates an event configured for sending SNMP traps.

Status control

ON

CLI: Use the **rmon event** *entry-number* [**description string**] { **log-trap security-string** | **trap security-string** } [**owner text**] command.

OFF

CLI: Use the **rmon event** *entry-number* [**description string**] { **log** | **none** } [**owner text**] command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.125.1.1.1 (hh3cRmonExtAlarmIndex)	Index of a private alarm entry.	Y	Integer32	1..65535
1.3.6.1.4.1.25506.2.125.1.1.4 (hh3cRmonExtAlarmSympol)	Sampling formula.	N	DisplayString	OCTET STRING (SIZE (0..255))
1.3.6.1.4.1.25506.2.125.1.1.5 (hh3cRmonExtAlarmSampleType)	Sampling method.	N	INTEGER	absoluteValue(1), deltaValue(2), speedValue(3)
1.3.6.1.4.1.25506.2.125.1.1.6 (hh3cRmonExtAlarmValue)	Sampled value.	N	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.125.1.1.9 (hh3cRmonExtAlarmFallingThreshold)	Falling threshold.	N	Integer32	Standard MIB values.

Recommended action

No action is required.

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HH3C-SNMP-EXT-MIB

About this MIB

This MIB adds objects to extend SNMP management.

MIB file name

hh3c-snmp-ext.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cSnmpExt(104)

Scalar objects

hh3cSnmpExtMaxContextNum

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtMaxContextNum (1.3.6.1.4.1.25506.2.104.1.4)	read-only	Integer32	Integer32 (1..65535)	Maximum number of SNMP contexts supported by the system.	As per the MIB.

hh3cSnmpExtVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtVersion (1.3.6.1.4.1.25506.2.104.1.5)	read-write	BITS	BITS { snmpV1(0), snmpV2c(1), snmpV3(2) }	SNMP version.	As per the MIB.

hh3cSnmpExtTrapSource

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtTrapSource (1.3.6.1.4.1.25506.2.104.1.6)	read-only	SnmpAdminString	OCTET STRING (0..255)	Interface, the SNMP agent uses the primary IP address of which as the source IP address in all its traps.	As per the MIB.

hh3cSnmpExtInformSource

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtInformSource (1.3.6.1.4.1.25506.2.104.1.7)	read-only	SnmpAdmin String	OCTET STRING(1..63)	Interface, the SNMP agent uses the primary IP address of which as the source IP address in all its informs.	As per the MIB.

Tabular objects

hh3cSnmpExtCommunityTable

About this table

Use this table to configure the extended properties for SNMP communities (SNMPv1 or SNMPv2c) and SNMP users (SNMPv3).

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are hh3cSnmpExtCommunitySecurityLevel and hh3cSnmpExtCommunitySecurityName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtCommunity SecurityLevel (1.3.6.1.4.1.25506.2.104. 2.1.1.1)	not-accessible	SnmpSecurityModel	INTEGER (0..3)	Security model of a community or user.	As per the MIB.
hh3cSnmpExtCommunity SecurityName (1.3.6.1.4.1.25506.2.104. 2.1.1.2)	not-accessible	SnmpAdmin String	OCTET STRING (1..32)	Security name of the community or user.	As per the MIB.
hh3cSnmpExtCommunity Name (1.3.6.1.4.1.25506.2.104. 2.1.1.3)	read-only	OCTET STRING	OCTET STRING (1..32)	Community name or username.	As per the MIB.
hh3cSnmpExtCommunity AcNum (1.3.6.1.4.1.25506.2.104. 2.1.1.4)	read-write	Integer32	Integer32 (0 2000..3999)	IPv4 ACL number used by the community or the user.	As per the MIB.
hh3cSnmpExtCommunity IPv6AcNum	read-write	Integer32	Integer32 (0	IPv6 ACL number used by the	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.104.2.1.1.5)			2000..3999)	community or the user.	

hh3cSnmpExtContextTable

About this table

Use this table to configure SNMP context extended properties.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table index is hh3cSnmpExtContextName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cSnmpExtContextName (1.3.6.1.4.1.25506.2.104.2.3.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Context name.	As per the MIB.
hh3cSnmpExtContextRowStatus (1.3.6.1.4.1.25506.2.104.2.3.2)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Status of this entry.	Supports only action, createAndGo, and destroy.

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RMON2-MIB

About this MIB

Use this MIB to monitor the data traffic on a network segment or the entire network. RMON2-MIB is an extended version of RMON to support multi-dimensional monitoring and statistics.

MIB file name

rfc4502-rmon2.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).rmon(16)

Scalar objects

probeCapabilities

Object (OID)	Access	Syntax	Value range	Description	Implementation
probeCapabilities (1.3.6.1.2.1.16.19.1)	read-only	BITS	BITS { etherStats(0), historyControl(1), etherHistory(2), alarm(3), hosts(4), hostTopN(5), matrix(6), filter(7), capture(8), event(9), tokenRingMLStats(10), tokenRingPStats(11), tokenRingMLHistory(12), tokenRingPHistory(13), ringStation(14), ringStationOrder(15), ringStationConfig(16), sourceRouting(17), protocolDirectory(18), protocolDistribution(19), addressMapping(20), nlHost(21), nlMatrix(22), alHost(23), alMatrix(24), usrHistory(25), probeConfig(26) }	An indication of the RMON MIB groups supported on a minimum of one interface by this probe.	As per the MIB.

probeSoftwareRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
probeSoftwareRev (1.3.6.1.2.1.16.19.2)	read-only	OCTET STRING	OCTET STRING (0..15)	Software revision of this device.	As per the MIB.

probeHardwareRev

Object (OID)	Access	Syntax	Value range	Description	Implementation
probeHardwareRev (1.3.6.1.2.1.16.19.3)	read-only	DisplayString	OCTET STRING (0..31)	Hardware revision of this device.	Not supported.

probeDateTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
probeDateTime (1.3.6.1.2.1.16.19.4)	read-only	OCTET STRING	OCTET STRING (0 8 11)	Probe's current date and time.	As per the MIB.

probeResetControl

Object (OID)	Access	Syntax	Value range	Description	Implementation
probeResetControl (1.3.6.1.2.1.16.19.5)	read-write	INTEGER	running(1), warmBoot(2), coldBoot(3)	Reset control setting on the device.	Supports only read operations.

Tabular objects

usrHistoryControlTable

About this table

Use this table to configure user-defined history control entries.

Support for operations

Create	Edit/Modify	Delete	Read
To create a row of instances, you must specify usrHistoryControlIndex and usrHistoryControlStatus in pairs.	Not supported	Supported	Supported

Columns

The table index is usrHistoryControlIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
usrHistoryControlIndex (1.3.6.1.2.1.16.18.1.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Index of a usrHistoryControl entry.	As per the MIB.
usrHistoryControlObjects (1.3.6.1.2.1.16.18.1.1.2)	read-create	Integer32	Integer32 (1..65535)	Number of MIB objects on which historical data is collected.	Value range: 1 to 30. Default value: 1.
usrHistoryControlBucketsRequest ed (1.3.6.1.2.1.16.18.1.1.3)	read-create	Integer32	Integer32 (1..65535)	Requested number of samples to be retained for the entry.	A maximum of 50 samples are supported. You can set a value larger than 50 for this object, but only 50

Object (OID)	Access	Syntax	Value range	Description	Implementation
					samples are supported.
usrHistoryControlBucketsGranted (1.3.6.1.2.1.16.18.1.1.4)	read-only	Integer32	Integer32 (1..65535)	Granted number of samples to be retained for the entry.	As per the MIB.
usrHistoryControlInterval (1.3.6.1.2.1.16.18.1.1.5)	read-create	Integer32	Integer32 (1..2147483647)	Sampling interval, in seconds.	Value range: 1 to 4294967.
usrHistoryControlOwner (1.3.6.1.2.1.16.18.1.1.6)	read-create	OwnerString	OCTET STRING (0..127)	Owner of the entry.	Not-displayable characters or question marks are not allowed. Default: Zero-length string.
usrHistoryControlStatus (1.3.6.1.2.1.16.18.1.1.7)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Status of the entry.	Supports only createAndWait(5) after the entry is created.

usrHistoryObjectTable

About this table

Use this table to configure user-defined data-collection entries.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Not supported	Supported	Supported

Columns

The table indexes are usrHistoryControlIndex and usrHistoryObjectIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
usrHistoryObjectIndex (1.3.6.1.2.1.16.18.2.1.1)	not-accessible	Integer32	Integer32 (1..65535)	Index of a usrHistoryObject entry.	As per the MIB.
usrHistoryObjectVariable (1.3.6.1.2.1.16.18.2.1.2)	read-create	OBJECT IDENTIFIER	Standard MIB values.	OID of the variable to be sampled.	As per the MIB.
usrHistoryObjectSampleType (1.3.6.1.2.1.16.18.2.1.3)	read-create	INTEGER	absoluteValue(1), deltaValue(2)	Method of sampling the selected variable for storage in the usrHistoryTable.	As per the MIB.

usrHistoryTable

About this table

Use this table to obtain information about history samples.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are usrHistoryControlIndex, usrHistorySampleIndex, and usrHistoryObjectIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
usrHistorySampleIndex (1.3.6.1.2.1.16.18.3.1.1)	not-accessible	Integer32	Integer32 (1..2147483647)	Index of a sample of this entry.	As per the MIB.
usrHistoryIntervalStart (1.3.6.1.2.1.16.18.3.1.2)	read-only	TimeTicks	Standard MIB values	Sampling start time.	As per the MIB.
usrHistoryIntervalEnd (1.3.6.1.2.1.16.18.3.1.3)	read-only	TimeStamp	Standard MIB values	Sampling end time.	As per the MIB.
usrHistoryAbsValue (1.3.6.1.2.1.16.18.3.1.4)	read-only	Gauge32	Standard MIB values	Absolute value of the monitored object.	As per the MIB.
usrHistoryValStatus (1.3.6.1.2.1.16.18.3.1.5)	read-only	INTEGER	valueNotAvailable(1), valuePositive(2), valueNegative(3)	Indicates the validity and sign of the data in the associated instance of usrHistoryAbsValue.	As per the MIB.

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RMON-MIB

About this MIB

Use this MIB to monitor data traffic on a network segment or the entire network.

MIB file name

rfc2819-rmon.mib

Root object

iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).rmon(16)

Tabular objects

etherStatsTable

About this table

Use this table to obtain statistics about Ethernet interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
You must specify etherStatsDataSource and etherStatsStatus in pairs when creating a row of instances.	Not supported	Supported	Supported

Columns

The table index is etherStatsIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
etherStatsIndex (1.3.6.1.2.1.16.1.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of an etherStats entry.	As per the MIB.
etherStatsDataSource (1.3.6.1.2.1.16.1.1.1.2)	read-create	OBJECT IDENTIFIER	Standard MIB values.	Interface on which statistics are gathered.	As per the MIB.
etherStatsDropEvents (1.3.6.1.2.1.16.1.1.1.3)	read-only	Counter32	Standard MIB values.	Total number of events in which packets were dropped.	Implementation varies by product..
etherStatsOctets (1.3.6.1.2.1.16.1.1.1.4)	read-only	Counter32	Standard MIB values.	Total number of octets received on the interface.	Implementation varies by product.
etherStatsPkts (1.3.6.1.2.1.16.1.1.1.5)	read-only	Counter32	Standard MIB values.	Total number of packets received on the interface.	Implementation varies by product.
etherStatsBroadcastPkt	read-only	Counter32	Standard MIB	Total number of	Implementation

Object (OID)	Access	Syntax	Value range	Description	Implementation
s (1.3.6.1.2.1.16.1.1.1.6)			values.	broadcast packets received on the interface.	varies by product.
etherStatsMulticastPkts (1.3.6.1.2.1.16.1.1.1.7)	read-only	Counter32	Standard MIB values.	Total number of multicast packets received on the interface.	Implementation varies by product.
etherStatsCRCAlignErrors (1.3.6.1.2.1.16.1.1.1.8)	read-only	Counter32	Standard MIB values.	Total number of packets with CRC errors received on the interface.	Implementation varies by product.
etherStatsUndersizePkts (1.3.6.1.2.1.16.1.1.1.9)	read-only	Counter32	Standard MIB values.	Total number of undersize packets received on the interface.	Implementation varies by product.
etherStatsOversizePkts (1.3.6.1.2.1.16.1.1.1.10)	read-only	Counter32	Standard MIB values.	Total number of oversize packets received on the interface.	Implementation varies by product.
etherStatsFragments (1.3.6.1.2.1.16.1.1.1.11)	read-only	Counter32	Standard MIB values.	Total number of undersize packets with FCS errors received on the interface.	Implementation varies by product.
etherStatsJabbers (1.3.6.1.2.1.16.1.1.1.12)	read-only	Counter32	Standard MIB values.	Total number of oversize packets with FCS errors received on the interface.	Implementation varies by product.
etherStatsCollisions (1.3.6.1.2.1.16.1.1.1.13)	read-only	Counter32	Standard MIB values.	Total number of colliding packets received on the interface.	Implementation varies by product.
etherStatsPkts64Octets (1.3.6.1.2.1.16.1.1.1.14)	read-only	Counter32	Standard MIB values.	Total number of packets with a length smaller than or equal to 64 octets received on the interface.	Implementation varies by product.
etherStatsPkts65to127Octets (1.3.6.1.2.1.16.1.1.1.15)	read-only	Counter32	Standard MIB values.	Total number of 65- to 127-octet packets received on the interface.	Implementation varies by product.
etherStatsPkts128to255Octets (1.3.6.1.2.1.16.1.1.1.16)	read-only	Counter32	Standard MIB values.	Total number of 128- to 255-octet packets received on the interface	Implementation varies by product.
etherStatsPkts256to511Octets (1.3.6.1.2.1.16.1.1.1.17)	read-only	Counter32	Standard MIB values.	Total number of 256- to 511-octet packets received on the interface.	Implementation varies by product.
etherStatsPkts512to1023Octets (1.3.6.1.2.1.16.1.1.1.18)	read-only	Counter32	Standard MIB values.	Total number of 512- to 1023-octet packets received on the interface	Implementation varies by product.
etherStatsPkts1024to1518Octets (1.3.6.1.2.1.16.1.1.1.19)	read-only	Counter32	Standard MIB values.	Total number of 1024- to 1518-octet packets received on the interface	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
etherStatsOwner (1.3.6.1.2.1.16.1.1.1.20)	read-create	OwnerString	OCTET STRING (0..127)	Owner of the etherStats entry.	Not-displayable characters or question marks are not allowed. The default value is a zero-length string.
etherStatsStatus (1.3.6.1.2.1.16.1.1.1.21)	read-create	EntryStatus	valid(1), createRequest (2), underCreation(3), invalid(4)	Status of the etherStats entry.	As per the MIB.

historyControlTable

About this table

Use this table to configure history control entries.

Support for operations

Create	Edit/Modify	Delete	Read
You must specify historyControlDataSource and historyControlStatus in pairs when creating an instance.	Not supported	Supported	Supported

Columns

The table index is historyControlIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
historyControlIndex (1.3.6.1.2.1.16.2.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of a historyControl entry.	As per the MIB.
historyControlDataSource (1.3.6.1.2.1.16.2.1.1.2)	read-create	OBJECT IDENTIFIER	Standard MIB values.	Interface on which historical data was collected.	As per the MIB.
historyControlBucketsRequested (1.3.6.1.2.1.16.2.1.1.3)	read-create	Integer32	Integer32 (1..65535)	Requested number of samples to be retained for the entry.	A maximum of 50 samples are supported. You can set a value larger than 50 for this object, but only 50 samples are supported.
historyControlBucketsGranted (1.3.6.1.2.1.16.2.1.1.4)	read-only	Integer32	Integer32 (1..65535)	Granted number of samples to be retained for the entry.	As per the MIB.
historyControlInterval (1.3.6.1.2.1.16.2.1.1.5)	read-create	Integer32	Integer32 (1..3600)	Sampling interval in seconds.	Value range: 5 to 3600 Default: 1800

historyControlOwner (1.3.6.1.2.1.16.2.1.1.6)	read-create	OwnerString	OCTET STRING (0..127)	Owner of this entry.	Not-displayable characters or question marks are not allowed. The default value is a zero-length string.
historyControlStatus (1.3.6.1.2.1.16.2.1.1.7)	read-create	EntryStatus	valid(1), createRequest (2), underCreation(3), invalid(4)	Statistics about this entry.	As per the MIB.

etherHistoryTable

About this table

Use this table to obtain information about RMON history control entries and history samples of Ethernet statistics for Ethernet interfaces.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are etherHistoryIndex and etherHistorySampleIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
etherHistoryIndex (1.3.6.1.2.1.16.2.2.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of an etherHistory entry.	As per the MIB.
etherHistorySampleIndex (1.3.6.1.2.1.16.2.2.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Index of a sample.	As per the MIB.
etherHistoryIntervalStart (1.3.6.1.2.1.16.2.2.1.3)	read-only	TimeTicks	Standard MIB values.	Sampling start time.	As per the MIB.
etherHistoryDropEvents (1.3.6.1.2.1.16.2.2.1.4)	read-only	Counter32	Standard MIB values.	Total number of events in which packets were dropped during this sampling interval.	Implementation varies by product.
etherHistoryOctets (1.3.6.1.2.1.16.2.2.1.5)	read-only	Counter32	Standard MIB values.	Total number of octets received on the interface during this sampling interval.	Implementation varies by product.
etherHistoryPkts (1.3.6.1.2.1.16.2.2.1.6)	read-only	Counter32	Standard MIB values.	Total number of packets received during this sampling interval.	Implementation varies by product.
etherHistoryBroadcastPkt s (1.3.6.1.2.1.16.2.2.1.7)	read-only	Counter32	Standard MIB values.	Total number of broadcast packets received during this sampling interval.	Implementation varies by product.
etherHistoryMulticastPkts (1.3.6.1.2.1.16.2.2.1.8)	read-only	Counter32	Standard MIB values.	Total number of multicast packets	Implementation varies by product.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				received during this sampling interval.	
etherHistoryCRCAlignErrors (1.3.6.1.2.1.16.2.2.1.9)	read-only	Counter32	Standard MIB values.	Total number of packets with CRC alignment errors received during the sampling interval.	Implementation varies by product.
etherHistoryUndersizePkts (1.3.6.1.2.1.16.2.2.1.10)	read-only	Counter32	Standard MIB values.	Total number of undersize packets received during the sampling interval.	Implementation varies by product.
etherHistoryOversizePkts (1.3.6.1.2.1.16.2.2.1.11)	read-only	Counter32	Standard MIB values.	Total number of oversize packets received during the sampling interval.	Implementation varies by product.
etherHistoryFragments (1.3.6.1.2.1.16.2.2.1.12)	read-only	Counter32	Standard MIB values.	Total number of undersize packets with FCS errors received during the sampling interval.	Implementation varies by product.
etherHistoryJabbers (1.3.6.1.2.1.16.2.2.1.13)	read-only	Counter32	Standard MIB values.	Total number of oversize packets with FCS errors received during the sampling interval.	Implementation varies by product.
etherHistoryCollisions (1.3.6.1.2.1.16.2.2.1.14)	read-only	Counter32	Standard MIB values.	Total number of colliding packets received during the sampling interval.	Implementation varies by product.
etherHistoryUtilization (1.3.6.1.2.1.16.2.2.1.15)	read-only	Integer32	Integer32 (0..10000)	Bandwidth utilization during the sampling period.	Implementation varies by product.

alarmTable

About this table

Use this table to configure alarm entries.

Support for operations

Create	Edit/Modify	Delete	Read
You must specify alarmVariable and alarmStatus in pairs when creating a row of instances. If the buildruns of the instances exceed the maximum specification, the creation fails.	Not supported	Supported	Supported

Columns

The table index is alarmIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
alarmIndex (1.3.6.1.2.1.16.3.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of an RMON alarm entry.	As per the MIB.
alarmInterval (1.3.6.1.2.1.16.3.1.1.2)	read-create	Integer32	Standard MIB values.	Sampling interval in seconds.	Value range: 5 to 3600. Default value: 1800.
alarmVariable (1.3.6.1.2.1.16.3.1.1.3)	read-create	OBJECT IDENTIFIER	Standard MIB values.	OID of the variable to be sampled.	As per the MIB.
alarmSampleType (1.3.6.1.2.1.16.3.1.1.4)	read-create	INTEGER	absoluteValue(1), deltaValue(2)	Sampling type.	Default value: absoluteValue(1).
alarmValue (1.3.6.1.2.1.16.3.1.1.5)	read-only	Integer32	Standard MIB values.	Value of the sampled variable.	If the object value exceeds the maximum positive value, the negation of the object value is returned when read.
alarmStartupAlarm (1.3.6.1.2.1.16.3.1.1.6)	read-create	INTEGER	risingAlarm(1), fallingAlarm(2), risingOrFallingAlarm(3)	Alarms that can be generated at the first sampling.	Default value: risingOrFallingAlarm(3).
alarmRisingThreshold (1.3.6.1.2.1.16.3.1.1.7)	read-create	Integer32	Standard MIB values.	Rising threshold.	Default value: 1.
alarmFallingThreshold (1.3.6.1.2.1.16.3.1.1.8)	read-create	Integer32	Standard MIB values.	Falling threshold.	Default value: 0.
alarmRisingEventIndex (1.3.6.1.2.1.16.3.1.1.9)	read-create	Integer32	Integer32 (0..65535)	Index of the event that is triggered when the rising threshold is crossed.	Default value: 0.
alarmFallingEventIndex (1.3.6.1.2.1.16.3.1.1.10)	read-create	Integer32	Integer32 (0..65535)	Index of the event that is triggered when the falling threshold is crossed.	Default value: 0.
alarmOwner (1.3.6.1.2.1.16.3.1.1.11)	read-create	OwnerString	OCTET STRING (0..127)	Owner of the alarm entry.	Not-displayable characters or question marks are not allowed. Default value: zero-length string.
alarmStatus (1.3.6.1.2.1.16.3.1.1.12)	read-create	EntryStatus	valid(1), createRequest(2), underCreation(3), invalid(4)	Status of the alarm entry.	As per the MIB.

eventTable

About this table

Use this table to configure event entries.

Support for operations

Create	Edit/Modify	Delete	Read
Supported. You must specify eventStatus when creating a row of instances. If the buildruns of the instances exceed the maximum specification, the creation fails.	Not supported	Supported	Supported

Columns

The table index is eventIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
eventIndex (1.3.6.1.2.1.16.9.1.1.1)	read-only	Integer32	Integer32 (1..65535)	Event entry index.	As per the MIB.
eventDescription (1.3.6.1.2.1.16.9.1.1.2)	read-create	DisplayString	OCTET STRING (0..127)	Event description.	Default value: Zero-length string.
eventType (1.3.6.1.2.1.16.9.1.1.3)	read-create	INTEGER	none(1), log(2), snmptrap(3), logandtrap(4)	Event type.	Default value: none(1)
eventCommunity (1.3.6.1.2.1.16.9.1.1.4)	read-create	OCTET STRING	OCTET STRING (0..127)	SNMP community to which an SNMP trap is sent.	Not supported.
eventLastTimeSent (1.3.6.1.2.1.16.9.1.1.5)	read-only	TimeTicks	TimeTicks (0..4294967295)	Time at which the most recent event occurs.	As per the MIB.
eventOwner (1.3.6.1.2.1.16.9.1.1.6)	read-create	OwnerString	OCTET STRING (0..127)	Event owner.	Not-displayable characters or question marks are not allowed. Default value: Zero-length string.
eventStatus (1.3.6.1.2.1.16.9.1.1.7)	read-create	EntryStatus	valid(1), createRequest(2), underCreation(3), invalid(4)	Event status.	As per the MIB.

logTable

About this table

Use this table to obtain event logs.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are logEventIndex and logIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
logEventIndex (1.3.6.1.2.1.16.9.2.1.1)	read-only	Integer32	Integer32 (1..65535)	Index of the event entry that generated this log entry.	As per the MIB.
logIndex (1.3.6.1.2.1.16.9.2.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Index of the log entry.	As per the MIB.
logTime (1.3.6.1.2.1.16.9.2.1.3)	read-only	TimeTicks	Standard MIB values.	Time when the log entry was created.	As per the MIB.
logDescription (1.3.6.1.2.1.16.9.2.1.4)	read-only	DisplayString	OCTET STRING (0..255)	Description of the event that activated this log entry.	As per the MIB.

Notifications

This section contains the RMON-MIB notifications.

risingAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.16.0.1	An alarm entry crossed its rising threshold	Informational	N/A	N/A	ON

Description

This notification is generated when an alarm entry crosses its rising threshold and generates an event configured for sending SNMP traps.

Status control

ON

CLI: Use the **rmon event** *entry-number* [**description string**] { **log-trap security-string** | **trap security-string** } [**owner text**] command.

OFF

CLI: Use the **rmon event** *entry-number* [**description string**] { **log** | **none** } [**owner text**] command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.16.3.1.1.1 (alarmIndex)	Index of the alarm entry	Y	Integer32	1..65535
1.3.6.1.2.1.16.3.1.1.3 (alarmVariable)	Variable to be sampled	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.16.3.1.1.4 (alarmSampleType)	Sampling type	N	INTEGER	absoluteValue(1) deltaValue(2)
1.3.6.1.2.1.16.3.1.1.5 (alarmValue)	Sampled value	N	Integer32	Standard MIB values.
1.3.6.1.2.1.16.3.1.1.7 (alarmRisingThreshold)	Rising threshold	N	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Check the monitored object for the reason that causes the alarm.
2. If the issue persists, contact H3C Support.

fallingAlarm

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.2.1.16.0.2	An alarm entry crossed its falling threshold	Informational	N/A	N/A	ON

Description

A notification sent when an alarm entry crosses its falling threshold and generates an event configured for sending SNMP traps.

Status control

ON

CLI: Use the **rmon event** *entry-number* [**description string**] { **log-trap security-string** | **trap security-string** } [**owner text**] command.

OFF

CLI: Use the **rmon event** *entry-number* [**description string**] { **log** | **none** } [**owner text**] command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.16.3.1.1.1 (alarmIndex)	Index of the alarm entry	Y	Integer32	1..65535
1.3.6.1.2.1.16.3.1.1.3 (alarmVariable)	Variable to be sampled	N	OBJECT IDENTIFIER	Standard MIB values.
1.3.6.1.2.1.16.3.1.1.4 (alarmSampleType)	Sampling type	N	INTEGER	absoluteValue(1), deltaValue(2)

OID (object name)	Description	Index	Type	Value range
1.3.6.1.2.1.16.3.1.1.5 (alarmValue)	Sampled value	N	Integer32	Standard MIB values.
1.3.6.1.2.1.16.3.1.1.8 (alarmFallingThreshold)	Falling threshold	N	Integer32	Standard MIB values.

Recommended action

No action is required.

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SFLOW-MIB

About this MIB

Use this MIB to configure sFlow, a traffic monitoring technology.

MIB file name

sflow.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).sflow(14706).sFlowMIB(1).sFlowAgent(1)

Scalar objects

sFlowVersion

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowVersion (1.3.6.1.4.1.14706.1.1.1)	read-only	SnmpAdminString	Standard MIB values.	Version information.	As per the MIB.

sFlowAgentAddressType

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowAgentAddressType (1.3.6.1.4.1.14706.1.1.2)	read-only	InetAddressType	Standard MIB values.	Agent address type.	As per the MIB.

sFlowAgentAddress

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowAgentAddress (1.3.6.1.4.1.14706.1.1.3)	read-only	InetAddress	Standard MIB values.	Agent address.	As per the MIB.

Tabular objects

sFlowRcvrTable

About this table

This table configures the sFlow collector information.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table index is sFlowRcvrIndex.

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowRcvrIndex (1.3.6.1.4.1.14706.1.1.4.1.1)	not-accessible	INTEGER	Integer32(1..65535)	Collector index.	As per the MIB.
sFlowRcvrOwner (1.3.6.1.4.1.14706.1.1.4.1.2)	read-write	OwnerString	Standard MIB values.	Collector description.	As per the MIB.
sFlowRcvrTimeout (1.3.6.1.4.1.14706.1.1.4.1.3)	read-write	INTEGER	Standard MIB values.	Aging time.	As per the MIB.
sFlowRcvrMaximumDatagramSize (1.3.6.1.4.1.14706.1.1.4.1.4)	read-write	INTEGER	Integer32(200..3000)	Maximum number of data bytes that can be sent in a single sample datagram.	As per the MIB.
sFlowRcvrAddressType (1.3.6.1.4.1.14706.1.1.4.1.5)	read-write	InetAddressType	Standard MIB values.	Collector address type.	As per the MIB.
sFlowRcvrAddresses (1.3.6.1.4.1.14706.1.1.4.1.6)	read-write	InetAddress	OCTET STRING (0..255)	Collector IP address.	As per the MIB.
sFlowRcvrPort (1.3.6.1.4.1.14706.1.1.4.1.7)	read-write	INTEGER	Standard MIB values.	UDP port number.	As per the MIB.
sFlowRcvrDatagramVersion (1.3.6.1.4.1.14706.1.1.4.1.8)	read-write	Integer32	Standard MIB values.	Datagram version.	Supports only V5.

sFlowFsTable

About this table

This table configures sFlow flow sampling.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are sFlowFsDataSource and sFlowFsInstance.

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowFsDataSource (1.3.6.1.4.1.14706.1.1.5.1.1)	not-accessible	SFlowDataSource	Standard MIB values.	Data source.	As per the MIB.
sFlowFsInstance (1.3.6.1.4.1.14706.1.1.5.1.2)	not-accessible	SFlowInstance	Standard MIB values.	Instance ID.	As per the MIB.
sFlowFsReceiver (1.3.6.1.4.1.14706.1.1.5.1.3)	read- write	SFlowReceiver	Standard MIB values.	Receiver.	As per the MIB.
sFlowFsPacketSamplingRate (1.3.6.1.4.1.14706.1.1.5.1.4)	read- write	INTEGER	Standard MIB values.	Sampling rate.	As per the MIB.
sFlowFsMaximumHeaderSize (1.3.6.1.4.1.14706.1.1.5.1.5)	read- write	INTEGER	Integer32(18..512)	Maximum number of bytes that should be copied from a sampled packet.	As per the MIB.

sFlowCpTable

About this table

This table configures sFlow counter sampling.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Supported	Not supported	Supported

Columns

The table indexes are sFlowCpDataSource and sFlowCpInstance.

Object (OID)	Access	Syntax	Value range	Description	Implementation
sFlowCpDataSource (1.3.6.1.4.1.14706.1.1.6.1.1)	not-accessible	SFlowDataSource	Standard MIB values.	Data source.	As per the MIB.
sFlowCpInstance (1.3.6.1.4.1.14706.1.1.6.1.2)	not-accessible	SFlowInstance	Standard MIB values.	Instance ID.	As per the MIB.
sFlowCpReceiver (1.3.6.1.4.1.14706.1.1.6.1.3)	read- write	INTEGER	Standard MIB values.	Sampling collector.	As per the MIB.
sFlowCpInterval (1.3.6.1.4.1.14706.1.1.6.1.4)	read- write	INTEGER	Integer32(2..86400)	Sampling interval.	As per the MIB.

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SNMP-FRAMEWORK-MIB

About this MIB

Use this MIB to obtain information about the SNMP engine, which provides functions for authenticating and encrypting messages and controlling access to managed objects.

MIB file name

rfc2571-snmp-framework.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpFrameworkMIB(10)

Scalar objects

snmpEngineID

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpEngineID (1.3.6.1.6.3.10.2.1.1)	read-only	SnmpEngineID	Standard MIB values.	SNMP engine ID.	<p>As per the MIB.</p> <p>The SNMP engine ID has a length of 16 octets by default.</p> <ul style="list-style-type: none">The first four octets are the enterprise ID of the SNMP entity (assigned by IANA). The very first bit is set to 1. For example, if the H3C enterprise ID is 25506, the first four octets of SNMP engine ID is 0x80 0x00 0x63 0xa2.The fifth octet is 0x80, indicating that the remaining octets are defined by the enterprise.Starting from the sixth octet is the lowest MAC address of the device. The remaining four octets are the MDC number.

snmpEngineBoots

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpEngineBoots (1.3.6.1.6.3.10.2.1.2)	read-only	Integer32	Integer32 (1..2147483647)	Number of (re-)initialization of the SNMP engine since the most recent configuration of snmpEngineID.	If the SNMP protocol stack is enabled from disabled state, the object value automatically increases by 1. If the SNMP engine ID is changed, the object value is restored to 1. If snmpEngineTime reaches its maximum value, the object value automatically increases by 1.

snmpEngineTime

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpEngineTime (1.3.6.1.6.3.10.2.1.3)	read-only	Integer32	Integer32 (0..2147483647)	Time in seconds since the most recent change of the value of snmpEngineBoots.	As per the MIB.

snmpEngineMaxMessageSize

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpEngineMaxMessageSize (1.3.6.1.6.3.10.2.1.4)	read-only	Integer32	Integer32 (484..2147483647)	Maximum length (in octets) of an SNMP message that the SNMP engine can send or receive and process.	As per the MIB.

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SNMP-MPD-MIB

About this MIB

Use this MIB to monitor the SNMP message processing and dispatching process. It provides statistics about dropped packets.

MIB file name

rfc2572-snmp-mpd.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpMPDMIB(11)

Scalar objects

snmpUnknownSecurityModels

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpUnknownSecurityModels (1.3.6.1.6.3.11.2.1.1)	read-only	Counter32	Standard MIB values.	Total number of packets received but dropped by the SNMP engine because they referenced a security model unknown to or supported by the SNMP engine.	As per the MIB.

snmpInvalidMsgs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInvalidMsgs (1.3.6.1.6.3.11.2.1.2)	read-only	Counter32	Standard MIB values.	Total number of packets received but dropped by the SNMP engine because they contain invalid or inconsistent components.	As per the MIB.

snmpUnknownPDUHandlers

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpUnknownPDUHandlers (1.3.6.1.6.3.11.2.1.3)	read-only	Counter32	Standard MIB values.	Total number of packets received but dropped by the SNMP engine because the PDU contained in the packet could not be passed to an application responsible for handling the PDU type. For example, no SNMP application had registered for the proper combination of the context Engine ID and the PDU type.	As per the MIB.

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SNMP-NOTIFICATION-MIB

About this MIB

Use this MIB to remotely configure the parameters used by an SNMP entity for generation of notifications.

MIB file name

rfc3413-snmp-notification.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpNotificationMIB(13)

Tabular objects

snmpNotifyTable

About this table

Use this table to select the management targets to receive notifications and the type of notifications to send to each selected management target.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is snmpNotifyName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpNotifyName (1.3.6.1.6.3.13.1.1.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Locally arbitrary but unique identifier of an snmpNotifyEntry.	As per the MIB.
snmpNotifyTag (1.3.6.1.6.3.13.1.1.1.2)	read-create	SnmpTagValue	OCTET STRING (0..255)	A single tag value used to select entries in the snmpTargetAddrTable. Any entry in the snmpTargetAddrTable that contains a tag value equal to the value of an instance of this object is selected. If the object value is zero length, no entries are selected.	As per the MIB.
snmpNotifyType (1.3.6.1.6.3.13.1.1.1.3)	read-create	INTEGER	trap(1), inform(2)	Type of notification to be generated for entries in the snmpTargetAddrTable selected by the corresponding instance of snmpNotifyTag.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>This value is only used for generation of notifications, and is ignored when snmpTargetAddrTable is used for other purposes.</p> <ul style="list-style-type: none"> If the value of this object is trap(1), any messages generated for selected rows will contain unconfirmed-class PDUs. If the value of this object is inform(2), any messages generated for selected rows will contain confirmed-class PDUs. 	
snmpNotifyStorageType (1.3.6.1.6.3.13.1.1.4)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row. Conceptual rows with a value of permanent(4) are denied write-access to any columnar objects in the row.	As per the MIB.
snmpNotifyRowStatus (1.3.6.1.6.3.13.1.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

snmpNotifyFilterProfileTable

About this table

This table associates a notification filter profile with a particular set of target parameters.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is IMPLIED snmpTargetParamsName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpNotifyFilterProfileName (1.3.6.1.6.3.13.1.2.1.1)	read-create	SnmpAdminString	OCTET STRING (1..32)	Name of the filter profile to be used for generation of notifications using the corresponding entry in the snmpTargetAddrTable.	As per the MIB.
snmpNotifyFilterProfileStorType	read-create	StorageType	other(1), volatile(2),	Storage type for this conceptual	As per the MIB.

(1.3.6.1.6.3.13.1.2.1.2)			nonVolatile(3), permanent(4), readOnly(5)	row. Conceptual rows with a value of permanent(4) are denied write-access to any columnar objects in the row.	
snmpNotifyFilterProfile RowStatus (1.3.6.1.6.3.13.1.2.1.3)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndWait(4), destroy(6)	Row status.	As per the MIB.

snmpNotifyFilterTable

About this table

This table determines whether specific management targets will receive specific notifications. When a notification is generated, it must be compared with the filters associated with each management target configured to receive notifications, to determine whether it is sent to these management targets.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are snmpNotifyFilterProfileName and IMPLIED snmpNotifyFilterSubtree.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpNotifyFilterSubtree (1.3.6.1.6.3.13.1.3.1.1)	not-accessible	OBJECT IDENTIFIER	Standard MIB values	MIB subtree, which is combined with the corresponding instance of snmpNotifyFilterMask, defines a family of subtrees that are included in or excluded from the filter profile.	As per the MIB.
snmpNotifyFilterMask (1.3.6.1.6.3.13.1.3.1.2)	read-create	OCTET STRING	OCTET STRING (0..16)	<p>Bit mask, which in combination with the corresponding instance of snmpNotifyFilterSubtree, defines a family of subtrees that are included in or excluded from the filter profile.</p> <p>Each bit of this bit mask corresponds to a sub-identifier of snmpNotifyFilterSubtree, with the most significant bit of the i-th octet of this octet string value corresponding to the (8*i-7)-th sub-identifier, and the least significant bit of the i-th octet of this octet string corresponding to the (8*i)-th sub-identifier, where i is in the range of 1 through 16.</p> <p>Each bit of this bit mask specifies whether or not the corresponding sub-identifiers must match when determining if an object identifier</p>	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
				<p>matches this family of filter subtrees.</p> <p>A 1 indicates that an exact match must occur. A 0 indicates wild card, which means that any sub-identifier value matches.</p> <p>Therefore, the object identifier X of an object instance is contained in a family of filter subtrees if, for each sub-identifier of the value of snmpNotifyFilterSubtree, either the i-th bit of snmpNotifyFilterMask is 0, or the i-th sub-identifier of X is equal to the i-th sub-identifier of the value of snmpNotifyFilterSubtree.</p> <p>If the value of this bit mask is M bits long and there are more than M sub-identifiers in the corresponding instance of snmpNotifyFilterSubtree, the bit mask is extended with 1s to be the required length.</p> <p>If the value of this object is a zero-length string, this extension rule results in a mask of all-1s being used (no wild card), and the family of filter subtrees is the one subtree uniquely identified by the corresponding instance of snmpNotifyFilterSubtree.</p>	
snmpNotifyFilterType (1.3.6.1.6.3.13.1.3.1.3)	read-create	INTEGER	included(1), excluded(2)	Whether the family of filter subtrees defined by this entry are included in or excluded from a filter.	As per the MIB.
snmpNotifyFilterStorageType (1.3.6.1.6.3.13.1.3.1.4)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row. Conceptual rows with a value of permanent(4) are denied write-access to any columnar objects in the row.	As per the MIB.
snmpNotifyFilterRowStatus (1.3.6.1.6.3.13.1.3.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

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SNMP-TARGET-MIB

About this MIB

Use this MIB to configure parameters used by an SNMP entity for generation of SNMP messages.

Use snmpTargetAddrTable and snmpTargetParamsTable together for creating a target host and follow these rules.

- To create a target host, you must create an instance in both snmpTargetAddrTable and snmpTargetParamsTable.
- Set the same value for snmpTargetAddrName and snmpTargetAddrParams.
- Set the same value for snmpTargetAddrParams and snmpTargetParamsName.
- Set snmpTargetAddrName in the traphost+snmpTargetParamsSecurityName+IpAddress+VPNInstancename format, where IpAddress is the IP address in the snmpTargetAddrTAddress value. You do not need to specify VPNInstancename if the device does not support VPN.
- Set snmpTargetAddrTagList to TrapHost or InformHost.
- Set snmpTargetAddrStorageType to nonVolatile.
- Set snmpTargetParamsSecurityName to a value with a length of 1 to 32 octets in snmpTargetAddrParams.
- Set VPNInstancename to a value with a length of 1 to 31 octets in snmpTargetAddrParams.

***** SNMP QUERY STARTED *****

1:[Loaded:SNMPv2-TM]

snmpTargetAddrTDomain.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54
(object identifier) snmpUDPDomain

2:snmpTargetAddrTAddress.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.
54 (octet string) A9.FE.4C.4C.00.A2 (hex)

3:snmpTargetAddrTimeout.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54
(integer) 1500

4:snmpTargetAddrRetryCount.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.5
5.54 (integer) 3

5:snmpTargetAddrTagList.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54
(octet string) TrapHost [54.72.61.70.48.6F.73.74 (hex)]

6:snmpTargetAddrParams.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54
(octet string) traphost.gl.169.254.76.76
[74.72.61.70.68.6F.73.74.2E.67.6C.2E.31.36.39.2E.32.35.34.2E.37.36.2E.37.36 (hex)]

7:snmpTargetAddrStorageType.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.
55.54 (integer) nonVolatile(3)

8:snmpTargetAddrRowStatus.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.
.54 (integer) active(1)

9:snmpTargetParamsMPModel.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.5
5.54 (integer) 0

10:snmpTargetParamsSecurityModel.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.5
4.46.55.54 (integer) 1

11:snmpTargetParamsSecurityName.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.5
4.46.55.54 (octet string) gl [67.6C (hex)]

12:snmpTargetParamsSecurityLevel.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.5
4.46.55.54 (integer) noAuthNoPriv(1)

13:snmpTargetParamsStorageType.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54
.46.55.54 (integer) nonVolatile(3)

14:snmpTargetParamsRowStatus.116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54 (integer) active(1)

15:snmpUnavailableContexts.0 (counter) 0

16:snmpUnknownContexts.0 (counter) 0

***** SNMP QUERY FINISHED *****

The preceding information is an SNMP query result for a target host instance. The index of the instance is 116.114.97.112.104.111.115.116.46.103.108.46.49.54.57.46.50.53.52.46.55.54.46.55.54, which can be converted to traphost.gl.169.254.76.76.

- With 116.114.97.112.104.111.115.116.46 converted to traphost.
- With 103.108.46 converted to gl.
- With 46.49.54.57.46.50.53.52.46.55.54.46.55.54 converted to 169.254.76.76.

MIB file name

rfc2573-snmp-target.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpTargetMIB(12)

Scalar objects

snmpTargetSpinLock

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTargetSpinLock (1.3.6.1.6.3.12.1.1)	read-write	TestAndIncr	Standard MIB values.	This object is used to facilitate modification of table entries. In particular, it is useful when modifying the value of the snmpTargetAddrTagList object.	As per the MIB.

snmpUnavailableContexts

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpUnavailableContexts (1.3.6.1.6.3.12.1.4)	read-only	Counter32	Standard MIB values	Total number of messages received but dropped by the SNMP engine because the context contained in the message was unavailable.	As per the MIB.

snmpUnknownContexts

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpUnknownContexts	read-only	Counter32	Standard MIB	Total number of messages received	As per the MIB.

(1.3.6.1.6.3.12.1.5)			values	but dropped by the SNMP engine because the context contained in the message was unknown.	
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Tabular objects

snmpTargetAddrTable

About this table

Use this table to configure target addresses for SNMP messages

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is IMPLIED snmpTargetAddrName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTargetAddrName (1.3.6.1.6.3.12.1.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Identifier for an snmpTargetAddrEntry.	The value must be in a length of 1 to 255 octets. It can contain only displayable characters except for question marks.
snmpTargetAddrTDomain (1.3.6.1.6.3.12.1.2.1.2)	read-create	TDomain	Standard MIB values.	Transport type of the address contained in the snmpTargetAddrTAddress object.	The value is snmpUDPDDomain.
snmpTargetAddrTAddresses (1.3.6.1.6.3.12.1.2.1.3)	read-create	TAddress	OCTET STRING (1..255)	Target address, the format of which depends on the value of the snmpTargetAddrTDomain object.	As per the MIB.
snmpTargetAddrTimeout (1.3.6.1.6.3.12.1.2.1.4)	read-create	TimeInterval	Integer32 (0..2147483647)	Expected maximum round trip time for communicating with the target address defined by this row.	As per the MIB.
snmpTargetAddrRetryCount (1.3.6.1.6.3.12.1.2.1.5)	read-create	Integer32	Integer32 (0..255)	Default number of retries when a response is not received for a generated message.	As per the MIB.
snmpTargetAddrTagList (1.3.6.1.6.3.12.1.2.1.6)	read-create	SnmpTagList	OCTET STRING (0..255)	List of tag values which are used to select target addresses for a	The value can be TrapHost or

Object (OID)	Access	Syntax	Value range	Description	Implementation
				particular operation.	InformHost only. It can contain only displayable characters except for question marks.
snmpTargetAddrParams (1.3.6.1.6.3.12.1.2.1.7)	read-create	SnmpAdminString	OCTET STRING (1..32)	The value of this object identifies an entry in the snmpTargetParamsTable.	The value must be in a length of 1 to 255 octets. It can contain only displayable characters except for question marks.
snmpTargetAddrStorageType (1.3.6.1.6.3.12.1.2.1.8)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	This object takes effect only when the value is nonVolatile . You can set the object to other values, but they do not take effect.
snmpTargetAddrRowStatus (1.3.6.1.6.3.12.1.2.1.9)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

snmpTargetParamsTable

About this table

Use this table to configure SNMP parameters to be used for generation of SNMP messages to be sent to a target.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table index is snmpTargetParamsName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTargetParamsName (1.3.6.1.6.3.12.1.3.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Identifier for an snmpTargetParamsEntry.	The value must be in a length of 1 to 255 octets. It can contain only displayable characters except for question marks.

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTargetParamsMPModel (1.3.6.1.6.3.12.1.3.1.2)	read-create	SnmpMessageProcessingModel	Integer32 (0..2147483647)	Message processing model to be used for generation of SNMP messages using this entry.	As per the MIB.
snmpTargetParamsSecurityModel (1.3.6.1.6.3.12.1.3.1.3)	read-create	SnmpSecurityModel	Integer32 (1..2147483647)	Security model to be used for generation of SNMP messages using this entry. An implementation might choose to return an inconsistent value error if an attempt is made to set this variable to a value for a security model which the implementation does not support.	As per the MIB.
snmpTargetParamsSecurityName (1.3.6.1.6.3.12.1.3.1.4)	read-create	SnmpAdminString	OCTET STRING (0..255)	Security name which identifies the principal on whose behalf SNMP messages will be generated.	As per the MIB.
snmpTargetParamsSecurityLevel (1.3.6.1.6.3.12.1.3.1.5)	read-create	SnmpSecurityLevel	noAuthNoPriv(1), authNoPriv(2), authPriv(3)	Security level to be used for generation of SNMP messages.	As per the MIB.
snmpTargetParamsStorageType (1.3.6.1.6.3.12.1.3.1.6)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	This object takes effect only when the value is nonVolatile . You can set the object to other values, but they do not take effect.
snmpTargetParamsRowStatus (1.3.6.1.6.3.12.1.3.1.7)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

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SNMP-USER-BASED-SM-MIB

About this MIB

Use this MIB to implement the SNMP user-based security model.

MIB file name

rfc3414-snmp-usm.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpUsmMIB(15)

Scalar objects

usmStatsUnsupportedSecLevels

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsUnsupportedSecLevels (1.3.6.1.6.3.15.1.1.1)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they requested a security level unknown to the SNMP engine or not available.	As per the MIB.

usmStatsNotInTimeWindows

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsNotInTimeWindows (1.3.6.1.6.3.15.1.1.2)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they appeared outside of the authoritative SNMP engine's window.	As per the MIB.

usmStatsUnknownUserNames

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsUnknownUserNames (1.3.6.1.6.3.15.1.1.3)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they referenced a user unknown to the	As per the MIB.

				SNMP engine.	
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usmStatsUnknownEngineIDs

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsUnknownEngineIDs (1.3.6.1.6.3.15.1.1.4)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they referenced an SNMP Engine ID unknown to the SNMP engine.	As per the MIB.

usmStatsWrongDigests

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsWrongDigests (1.3.6.1.6.3.15.1.1.5)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they did not contain the expected digest value.	As per the MIB.

usmStatsDecryptionErrors

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmStatsDecryptionErrors (1.3.6.1.6.3.15.1.1.6)	read-only	Counter32	Standard MIB values	Total number of packets received but dropped by the SNMP engine because they could not be decrypted.	As per the MIB.

usmUserSpinLock

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmUserSpinLock (1.3.6.1.6.3.15.1.2.1)	read-write	TestAndIncr	Standard MIB values	An advisory lock used to allow several cooperating command generator applications to coordinate their use of facilities to alter secrets in the usmUserTable.	As per the MIB.

Tabular objects

usmUserTable

About this table

Use this table to create users.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are usmUserEngineID and usmUserName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
usmUserEngineID (1.3.6.1.6.3.15.1.2.2.1.1)	not-accessible	SnmpEngine ID	OCTET STRING (5..32)	Administratively unique identifier for the SNMP engine.	As per the MIB.
usmUserName (1.3.6.1.6.3.15.1.2.2.1.2)	not-accessible	SnmpAdmin String	OCTET STRING (1..32)	Use name. It is the (user-based security) model dependent security ID.	The value can contain only displayable characters except question marks.
usmUserSecurity Name (1.3.6.1.6.3.15.1.2.2.1.3)	read-only	SnmpAdmin String	OCTET STRING (0..255)	A human readable string representing the user in security model independent format. The default transformation of the user-based security model dependent security ID to the security name and vice versa is the identity function so that the security name is the same as the user name.	As per the MIB.
usmUserCloneFrom (1.3.6.1.6.3.15.1.2.2.1.4)	read-create	RowPointer	Standard MIB values	A pointer to another conceptual row in this usmUserTable. The user in this other conceptual row is called the clone-from user.	This object must be specified for creating an instance. If the object corresponds to a user created by the command line, this operation succeeds but does not take effect. When a new user is created (a new conceptual row is instantiated in this table), the privacy and authentication parameters of the new user must be cloned from its clone-from user. These parameters are: <ul style="list-style-type: none">authentication protocol (usmUserAuthProtocol)

Object (OID)	Access	Syntax	Value range	Description	Implementation
					<ul style="list-style-type: none"> privacy protocol (usmUserPrivProtocol) <p>They will be copied regardless of what the current value is.</p> <p>Cloning also causes the initial values of the secret authentication key (authKey) and the secret encryption key (privKey) of the new user to be set to the same values as the corresponding secrets of the clone-from user to allow the KeyChange process to occur as required during user creation.</p> <p>The first time an instance of this object is set by a management operation (either at or after its instantiation), the cloning process is invoked.</p> <p>Subsequent writes are successful but invoke no action to be taken by the receiver.</p> <p>The cloning process fails with an inconsistentName error if the conceptual row representing the clone-from user does not exist or is not in an active state when the cloning process is invoked.</p> <p>When this object is read, the ZeroDotZero OID is returned.</p>
usmUserAuthProtocol (1.3.6.1.6.3.15.1.2.2.1.5)	read-create	Autonomous Type	Standard MIB values	Indicates whether messages sent on behalf of this user to/from the SNMP engine identified by usmUserEngineID can be authenticated and the authentication protocol to be used.	As per the MIB.
usmUserAuthKeyChange (1.3.6.1.6.3.15.1.2.2.1.6)	read-create	KeyChange	-- typically (SIZE (0 32)) for HMACMD5 -- typically (SIZE (0 40)) for HMACSHA	An object, which when modified, causes the secret authentication key used for messages sent on behalf of this user to/from the SNMP engine identified by usmUserEngineID, to be modified via a one-way function.	When read, this object returns a zero-length string.
usmUserOwnAuthKeyChange (1.3.6.1.6.3.15.1.2.2.1.7)	read-create	KeyChange	-- typically (SIZE (0 32)) for HMACMD5 -- typically (SIZE (0 40)) for	Functions exactly as usmUserAuthKeyChange, with one notable difference: in order for the set operation to succeed, the usmUserName of the	When read, this object returns a zero-length string.

Object (OID)	Access	Syntax	Value range	Description	Implementation
			HMACSHA	operation requester must match the usmUserName that indexes the row which is targeted by this operation.	
usmUserPrivProtocol (1.3.6.1.6.3.15.1.2.2.1.8)	read-create	Autonomous Type	Standard MIB values	An indication of whether messages sent on behalf of this user to/from the SNMP engine identified by usmUserEngineID can be protected from disclosure, and the type of privacy protocol to be used.	As per the MIB.
usmUserPrivKeyChange (1.3.6.1.6.3.15.1.2.2.1.9)	read-create	KeyChange	-- typically (SIZE (0 32)) for DES	An object, which when modified, causes the secret encryption key used for messages sent on behalf of this user to/from the SNMP engine identified by usmUserEngineID, to be modified via a one-way function.	When read, this object returns a zero-length string.
usmUserOwnPrivKeyChange (1.3.6.1.6.3.15.1.2.2.1.10)	read-create	KeyChange	Standard MIB values	Functions exactly as usmUserPrivKeyChange, with one notable difference: in order for the Set operation to succeed, the usmUserName of the operation requester must match the usmUserName that indexes the row which is targeted by this operation.	When read, this object returns a zero-length string.
usmUserPublic (1.3.6.1.6.3.15.1.2.2.1.11)	read-create	OCTET STRING	OCTET STRING (0..32)	A publicly-readable value that can be written as part of the procedure for changing a user's secret authentication and/or privacy key, and later read to determine whether the change of the secret was effected.	As per the MIB.
usmUserStorageType (1.3.6.1.6.3.15.1.2.2.1.12)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	Supports only nonVolatile(3).
usmUserStatus (1.3.6.1.6.3.15.1.2.2.1.13)	read-create	RowStatus	active(1), notInService	Row status.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
.2.1.13)			e(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)		

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SNMPv2-MIB

About this MIB

Use this MIB to configure SNMPv2 basic settings and obtain SNMP packet statistics.

MIB file name

rfc3418-snmpv2.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpMIB(1)

Scalar objects

snmpTrapOID

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTrapOID (1.3.6.1.6.3.1.1.4.1)	accessible-for-notification	OBJECT IDENTIFIER	Standard MIB values.	OID of the notification currently being sent.	As per the MIB.

snmpTrapEnterprise

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpTrapEnterprise (1.3.6.1.6.3.1.1.4.3)	accessible-for-notification	OBJECT IDENTIFIER	Standard MIB values.	OID of the enterprise associated with the trap currently being sent.	As per the MIB.

snmpSetSerialNo

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpSetSerialNo (1.3.6.1.6.3.1.1.6.1)	read-write	TestAndIncr	Standard MIB values.	An advisory lock used to allow several cooperating command generator applications to coordinate their use of the SNMP set operation.	As per the MIB.

snmplnPks

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnPks (1.3.6.1.2.1.11.1)	read-only	Counter32	Standard MIB values.	Total number of SNMP messages received on	As per the MIB.

				the SNMP agent.	
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snmpOutPkts

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutPkts (1.3.6.1.2.1.11.2)	read-only	Counter32	Standard MIB values.	Total number of SNMP messages sent by the SNMP agent.	As per the MIB.

snmplnBadVersions

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnBadVersions (1.3.6.1.2.1.11.3)	read-only	Counter32	Standard MIB values.	Total number of received SNMP messages not supported by the SNMP version.	As per the MIB.

snmplnBadCommunityNames

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnBadCommunityNames (1.3.6.1.2.1.11.4)	read-only	Counter32	Standard MIB values.	Total number of received SNMP messages which used an SNMP community name unknown to the SNMP entity.	As per the MIB.

snmplnBadCommunityUses

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnBadCommunityUses (1.3.6.1.2.1.11.5)	read-only	Counter32	Standard MIB values.	Total number of messages carrying an operation that the community has no right to perform.	As per the MIB.

snmplnASNParseErrs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnASNParseErrs	read-only	Counter3	Standard MIB	Total number of received SNMP messages that	As per the MIB.

(1.3.6.1.2.1.11.6)		2	values.	had ASN.1 or BER errors during decoding.	
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snmplnTooBigs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnTooBigs (1.3.6.1.2.1.11.8)	read-only	Counter32	Standard MIB values.	Total number of received SNMP PDUs with a TooBig error.	When read, this object always returns 0 .

snmplnNoSuchNames

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnNoSuchNames (1.3.6.1.2.1.11.9)	read-only	Counter32	Standard MIB values.	Total number of received SNMP PDUs with a NoSuchName error.	When read, this object always returns 0 .

snmplnBadValues

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnBadValues (1.3.6.1.2.1.11.10)	read-only	Counter32	Standard MIB values.	Total number of received SNMP PDUs with a BadValue error.	When read, this object always returns 0 .

snmplnReadOnlys

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnReadOnlys (1.3.6.1.2.1.11.11)	read-only	Counter32	Standard MIB values.	Total number of received SNMP PDUs with a readOnly error.	When read, this object always returns 0 .

snmplnGenErrs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmplnGenErrs (1.3.6.1.2.1.11.12)	read-only	Counter32	Standard MIB	Total number of received SNMP PDUs with a	When read, this object always returns 0 .

			values.	genErr error.	
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snmpInTotalReqVars

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInTotalReqVars (1.3.6.1.2.1.11.13)	read-only	Counter32	Standard MIB values.	Total number of MIB objects that have been successfully retrieved.	As per the MIB.

snmpInTotalSetVars

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInTotalSetVars (1.3.6.1.2.1.11.14)	read-only	Counter32	Standard MIB values.	Total number of MIB objects that have been successfully modified.	As per the MIB.

snmpInGetRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInGetRequests (1.3.6.1.2.1.11.15)	read-only	Counter32	Standard MIB values.	Total number of GetRequest requests that have been received and processed.	As per the MIB.

snmpInGetNexts

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInGetNexts (1.3.6.1.2.1.11.16)	read-only	Counter32	Standard MIB values.	Total number of getNext requests that have been received and processed.	As per the MIB.

snmpInSetRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpInSetRequests (1.3.6.1.2.1.11.17)	read-only	Counter32	Standard MIB	Total number of set requests that have been	As per the MIB.

			values.	received and processed.	
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snmpOutTooBigs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutTooBigs (1.3.6.1.2.1.11.20)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP PDUs with a TooBig error.	As per the MIB.

snmpOutNoSuchNames

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutNoSuchNames (1.3.6.1.2.1.11.21)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP PDUs with a NoSuchName error.	As per the MIB.

snmpOutBadValues

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutBadValues (1.3.6.1.2.1.11.22)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP PDUs with a BadValues error.	As per the MIB.

snmpOutGenErrs

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutGenErrs (1.3.6.1.2.1.11.24)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP PDUs with a genErr error.	As per the MIB.

snmpOutGetRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutGetRequests (1.3.6.1.2.1.11.25)	read-only	Counter32	Standard MIB	Total number of sent SNMP Get-Request	As per the MIB.

			values.	PDU's.	
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snmpOutGetNexts

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutGetNexts (1.3.6.1.2.1.11.26)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP Get-Next PDUs.	As per the MIB.

snmpOutSetRequests

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutSetRequests (1.3.6.1.2.1.11.27)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP Set-Request PDUs.	As per the MIB.

snmpOutGetResponses

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutGetResponses (1.3.6.1.2.1.11.28)	read-only	Counter32	Standard MIB values.	Total number of sent SNMP Get-Response PDUs.	As per the MIB.

snmpOutTraps

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpOutTraps (1.3.6.1.2.1.11.29)	read-only	Counter32	Standard MIB values.	Total number of notifications sent by the SNMP entity.	As per the MIB.

snmpEnableAuthenTraps

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpEnableAuthenTraps (1.3.6.1.2.1.11.30)	read-write	INTEGER	enabled(1), disabled(2)	Whether authentication failure traps are enabled.	The default value is enabled(1) .

snmpSilentDrops

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpSilentDrops (1.3.6.1.2.1.11.31)	read-only	Counter32	Standard MIB values.	Number of packets delivered to but dropped by the SNMP entity because the response packet size exceeded the limit.	As per the MIB.

snmpProxyDrops

Object (OID)	Access	Syntax	Value range	Description	Implementation
snmpProxyDrops (1.3.6.1.2.1.11.32)	read-only	Counter32	Standard MIB values.	Total number of packets delivered to but dropped by the SNMP entity because transmission of the message to a proxy target failed.	When read, this object always returns 0 .

Notifications

This section contains SNMPv2-MIB notifications.

coldStart

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.1	SNMP agent cold start	Informational	Warning	N/A	ON

Description

This notification is generated when an SNMP agent is reinitializing itself with the configuration probably changed.

Status control

ON

CLI: `snmp-agent trap enable standard coldstart`

OFF

CLI: `undo snmp-agent trap enable standard coldstart`

Objects

N/A

Recommended action

No action is required.

warmStart

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.2	SNMP agent warm start	Informational	Warning	N/A	ON

Description

This notification is generated when an SNMPv2 agent is reinitializing itself with the configuration unaltered.

Status control

ON

CLI: `snmp-agent trap enable standard warmstart`

OFF

CLI: `undo snmp-agent trap enable standard warmstart`

Objects

N/A

Recommended action

No action is required.

authenticationFailure

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.6.3.1.1.5.5	SNMP authentication failure	Informational	N/A	N/A	ON

Description

This notification is generated when an SNMPV2 agent receives a protocol message that is not properly authenticated. While all implementations of the SNMPv2 must be capable of generating this trap, the `snmpEnableAuthenTraps` object indicates whether this trap will be generated.

Status control

ON

CLI: `snmp-agent trap enable standard authentication`

OFF

CLI: `undo snmp-agent trap enable standard authentication`

Objects

N/A

Recommended action

1. Verify that the agent and network management system are configured with the same SNMP settings.
2. Identify whether a network attack has occurred.
3. If the issue persists, contact H3C Support.

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SNMP-VIEW-BASED-ACM-MIB

About this MIB

Use this MIB to manage SNMPv3 settings, including access control view, group, VACM security mode, and security level.

MIB file name

rfc3415-snmp-vacm.mib

Root object

iso(1).org(3).dod(6).internet(1).snmpV2(6).snmpModules(3).snmpVacmMIB(16).vacmMIBObjects(1)

Scalar objects

vacmViewSpinLock

Object (OID)	Access	Syntax	Value range	Description	Implementation
vacmViewSpinLock (1.3.6.1.6.3.16.1.5.1)	read-write	TestAndIncr	Standard MIB values	An advisory lock used to allow cooperating SNMP command generator applications to coordinate their use of the Set operation in creating or modifying views.	As per the MIB.

Tabular objects

vacmContextTable

About this table

This table contains locally available contexts.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table index is vacmContextName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vacmContextName (1.3.6.1.6.3.16.1.1.1.1)	read-only	SnmpAdmin String	OCTET STRING	A human readable name identifying a context at an	As per the MIB.

			(0..32)	SNMP entity. An empty contextName (zero length) represents the default context.	
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vacmSecurityToGroupTable

About this table

This table maps a combination of securityModel and securityName into a groupName that is used to define an access control policy for a group of principals.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are vacmSecurityModel and vacmSecurityName.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vacmSecurityModel (1.3.6.1.6.3.16.1.2.1.1)	not-accessible	SnmpSecurityModel	Integer32 (1..2147483647)	Security model, by which the vacmSecurityName referenced by this entry is provided.	As per the MIB.
vacmSecurityName (1.3.6.1.6.3.16.1.2.1.2)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Security Name.	The value can contain only displayable characters except question marks.
vacmGroupName (1.3.6.1.6.3.16.1.2.1.3)	read-create	SnmpAdminString	OCTET STRING (1..32)	Name of the group to which this entry (combination of securityModel and securityName) belongs	The value can contain only displayable characters except question marks.
vacmSecurityToGroupStorageType (1.3.6.1.6.3.16.1.2.1.4)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	Supports only be nonVolatile(3).
vacmSecurityToGroupStatus (1.3.6.1.6.3.16.1.2.1.5)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5),	Row status.	As per the MIB.

			destroy(6)		
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vacmAccessTable

About this table

Use this table to configure access rights for groups.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are vacmGroupName, vacmAccessContextPrefix, vacmAccessSecurityModel, and vacmAccessSecurityLevel.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vacmAccessContextPrefix (1.3.6.1.6.3.16.1.4.1.1)	not-accessible	SnmpAdminString	OCTET STRING (0..32)	In order to gain the access rights allowed by this conceptual row, a contextName must match exactly (if the value of vacmAccessContextMatch is exact) or partially (if the value of vacmAccessContextMatch is prefix) the value of the instance of this object.	Only the value - is effective. Other values do not take effect.
vacmAccessSecurityModel (1.3.6.1.6.3.16.1.4.1.2)	not-accessible	SnmpSecurityModel	Integer32 (0..2147483647)	In order to gain the access rights allowed by this conceptual row, this securityModel must be in use.	As per the MIB.
vacmAccessSecurityLevel (1.3.6.1.6.3.16.1.4.1.3)	not-accessible	SnmpSecurityLevel	noAuthNoPriv(1), authNoPriv(2), authPriv(3)	Minimum level of security required to gain the access rights allowed by this conceptual row.	As per the MIB.
vacmAccessContextMatch (1.3.6.1.6.3.16.1.4.1.4)	read-create	INTEGER	exact(1), prefix(2)	Match type. If the value of this object is exact(1), all rows where the contextName exactly matches vacmAccessContextPrefix are selected. If the value of this object is prefix(2), all rows where the contextName whose starting octets exactly	The default value is exact(1).

Object (OID)	Access	Syntax	Value range	Description	Implementation
				match vacmAccessContextP refix are selected.	
vacmAccessReadVi ewName (1.3.6.1.6.3.16.1.4.1 .5)	read-create	SnmpAdminStri ng	OCTET STRING (0..32)	The value of an instance of this object identifies the MIB view of the SNMP context to which this conceptual row authorizes read access.	The value can contain only displayable characters except question marks.
vacmAccessWriteVi ewName (1.3.6.1.6.3.16.1.4.1 .6)	read-create	SnmpAdminStri ng	OCTET STRING (0..32)	The value of an instance of this object identifies the MIB view of the SNMP context to which this conceptual row authorizes write access.	The value can contain only displayable characters except question marks.
vacmAccessNotifyV iewName (1.3.6.1.6.3.16.1.4.1 .7)	read-create	SnmpAdminStri ng	OCTET STRING (0..32)	The value of an instance of this object identifies the MIB view of the SNMP context to which this conceptual row authorizes access for notifications.	The value can contain only displayable characters except question marks.
vacmAccessStorag eType (1.3.6.1.6.3.16.1.4.1 .8)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	Supports only nonVolatile(3).
vacmAccessStatus (1.3.6.1.6.3.16.1.4.1 .9)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5) destroy(6)	Row status.	As per the MIB.

vacmViewTreeFamilyTable

About this table

Use this table to save information about families of subtrees within MIB views locally.

Support for operations

Create	Edit/Modify	Delete	Read
Supported	Supported	Supported	Supported

Columns

The table indexes are vacmViewTreeFamilyViewName and vacmViewTreeFamilySubtree.

Object (OID)	Access	Syntax	Value range	Description	Implementation
vacmViewTreeFamilyViewName (1.3.6.1.6.3.16.1.5.2.1.1)	not-accessible	SnmpAdminString	OCTET STRING (1..32)	Name for a family of view subtrees.	The value can contain only displayable characters except question marks.
vacmViewTreeFamilySubtree (1.3.6.1.6.3.16.1.5.2.1.2)	not-accessible	OBJECT IDENTIFIER	Standard MIB values	MIB subtree which, when combined with the corresponding instance of vacmViewTreeFamilyMask, defines a family of view subtrees.	As per the MIB.
vacmViewTreeFamilyMask (1.3.6.1.6.3.16.1.5.2.1.3)	read-create	OCTET STRING	OCTET STRING (0..16)	Bit mask which, in combination with the corresponding instance of vacmViewTreeFamilySubtree, defines a family of view subtrees.	The default value is a zero-length character string.
vacmViewTreeFamilyType (1.3.6.1.6.3.16.1.5.2.1.4)	read-create	INTEGER	included(1), excluded(2)}	Indicates whether the corresponding instances of vacmViewTreeFamilySubtree and vacmViewTreeFamilyMask define a family of view subtrees which is included in or excluded from the MIB view.	The default value is included(1).
vacmViewTreeFamilyStorageType (1.3.6.1.6.3.16.1.5.2.1.5)	read-create	StorageType	other(1), volatile(2), nonVolatile(3), permanent(4), readOnly(5)	Storage type for this conceptual row.	Supports only nonVolatile(3).
vacmViewTreeFamilyStatus (1.3.6.1.6.3.16.1.5.2.1.6)	read-create	RowStatus	active(1), notInService(2), notReady(3), createAndGo(4), createAndWait(5), destroy(6)	Row status.	As per the MIB.

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HH3C-OFP-MIB

About this MIB

OpenFlow is the communications interface defined between the control and forwarding layers of a Software-Defined Networking architecture. With OpenFlow, you can perform centralized data forwarding management for physical and virtual devices through controllers.

MIB file name

hh3c-ofp.mib

Root object

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).hh3c(25506).hh3cCommon(2).hh3cOfp(167)

Scalar objects

hh3cOfpTrapDisconnectReason

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cOfpTrapDisconnectReason (1.3.6.1.4.1.25506.2.167.2.1.1)	accessible-for-notify	Integer32	0..10	Reason why an OpenFlow instance was disconnected from a controller.	As per the MIB.

Tabular objects

hh3cOfpInstanceControllerTable

About this table

This table contains controller information for an OpenFlow instance.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cOfpInstanceID and hh3cOfpInstanceControllerID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3cOFPIInstanceID (1.3.6.1.4.1.25506.2.167.1.1.1.1)	not-accessible	Integer32	1..4094	ID of an OpenFlow instance.	As per the MIB.
h3cOFPIInstanceControllerID (1.3.6.1.4.1.25506.2.167.1.1.1.2)	not-accessible	Integer32	0..63	Index of an OpenFlow controller.	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
h3cOFPIInstanceControllerRole (1.3.6.1.4.1.25506.2.167.1.1.1.3)	read-only	INTEGER	equal(1), master(2), slave(3)	Role of the OpenFlow controller.	As per the MIB.
hh3cOfPlInstanceCtrConnectType (1.3.6.1.4.1.25506.2.167.1.1.1.4)	read-only	INTEGER	tcp(1), ssl(2)	Type of the connection between the OpenFlow instance and the controller.	As per the MIB.
hh3cOfPlInstanceCtrConnectState (1.3.6.1.4.1.25506.2.167.1.1.1.5)	read-only	INTEGER	idle(0), established(1)	State of the connection between the OpenFlow instance and the controller.	As per the MIB.
hh3cOfPlInstanceCtrSSLPolicy (1.3.6.1.4.1.25506.2.167.1.1.1.6)	read-only	DisplayString	OCTET STRING (SIZE(0..31))	Name of the SSL client policy used for SSL connections.	As per the MIB.
hh3cOfPlInstanceCtrVRFName (1.3.6.1.4.1.25506.2.167.1.1.1.7)	read-only	DisplayString	OCTET STRING (SIZE(0..31))	Name of the VRF to which the controller belongs.	As per the MIB.
hh3cOfPlInstanceCtrIPType (1.3.6.1.4.1.25506.2.167.1.1.1.8)	read-only	InetAddressType	Standard MIB values.	Type of the OpenFlow controller's IP address.	As per the MIB.
hh3cOfPlInstanceCtrIPAddress (1.3.6.1.4.1.25506.2.167.1.1.1.9)	read-only	InetAddress	OCTET STRING (SIZE(0..255))	IP address of the OpenFlow controller.	As per the MIB.
hh3cOfPlInstanceCtrPort (1.3.6.1.4.1.25506.2.167.1.1.1.10)	read-only	Integer32	1..65535	Port number of the OpenFlow controller.	As per the MIB.

hh3cOfPlInstanceFlowTableTable

About this table

This table contains flow table information for an OpenFlow instance.

Support for operations

Create	Edit/Modify	Delete	Read
Not supported	Not supported	Not supported	Supported

Columns

The table indexes are hh3cOfPlFlowTableInstanceID and hh3cOfPlInstanceTableID.

Object (OID)	Access	Syntax	Value range	Description	Implementation
hh3cOfPlFlowTableInstanceID (1.3.6.1.4.1.25506.2.167.1.2.1.1)	not-accessible	Integer32	1..4094	ID of an OpenFlow instance.	As per the MIB.
hh3cOfPlInstanceTableID (1.3.6.1.4.1.25506.2.167.1.2.1.2)	not-accessible	Integer32	0..254	ID of a flow table.	As per the MIB.
hh3cOfPlInstanceFlowEntryNumCtrl	read-only	Unsigned32	Standard MIB values.	Number of flow entries	As per the MIB.

Object (OID)	Access	Syntax	Value range	Description	Implementation
(1.3.6.1.4.1.25506.2.167.1.2.1.3)				deployed by the controller.	
hh3cOfpInstanceFlowEntryTotalNum (1.3.6.1.4.1.25506.2.167.1.2.1.4)	read-only	Unsigned32	Standard MIB values.	Total number of flow entries in the table.	As per the MIB.
hh3cOfpInstanceFlowEntryLimit (1.3.6.1.4.1.25506.2.167.1.2.1.5)	read-only	Unsigned32	Standard MIB values.	Maximum number of flow entries supported by the flow table.	As per the MIB.

Notifications

This section contains the HH3C-OFP-MIB notifications.

hh3cOfpControllerDisconnect

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.167.2.2.0.1	Disconnection of the connection between an OpenFlow instance and the controller.	Error notification	Major	1.3.6.1.4.1.25506.2.167.2.2.0.2(hh3cOfpControllerConnect)	ON

Description

This notification is generated when the connection between an OpenFlow instance and the controller is disconnected.

Status control

ON

CLI: Use the `snmp-agent trap enable` command.

OFF

CLI: Use the `undo snmp-agent trap enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.167.1.1.1.1 (hh3cOfpInstanceId)	ID of an OpenFlow instance	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.167.1.1.1.2 (hh3cOfpInstanceControllerID)	ID of the OpenFlow controller	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.167.2.1.1 (hh3cOfpTrapDisconnectReason)	Reason why the OpenFlow instance was disconnected from a controller.	No	Integer32	Standard MIB values.

Recommended action

To resolve the issue:

1. Check whether OpenFlow connection backup is disabled. You can ignore this notification if the generation of this notification is triggered by an active/standby switchover.
2. Check the link between the device and the controller.
3. If the issue persists, contact H3C Support.

hh3cOfpControllerConnect

Basic information

OID	Event	Type	Severity	Recovery notification	Default status
1.3.6.1.4.1.25506.2.167.2.2.0.2	Establishment of connection between an OpenFlow instance and the controller.	Recovery notification	N/A	N/A	ON

Description

This notification is generated when the connection is established between an OpenFlow instance and the controller.

Status control

ON

CLI: Use the `snmp-agent trap enable` command.

OFF

CLI: Use the `undo snmp-agent trap enable` command.

Objects

OID (object name)	Description	Index	Type	Value range
1.3.6.1.4.1.25506.2.167.1.1.1.1 (hh3cOfpInstanceId)	ID of an OpenFlow instance.	Yes	Integer32	Standard MIB values.
1.3.6.1.4.1.25506.2.167.1.1.1.2 (hh3cOfpInstanceControllerID)	ID of the OpenFlow controller.	Yes	Integer32	Standard MIB values.

Recommended action

No action is required.