

Preside Multiservice Data Manager

# Alarms

Reference

241-6001-501



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## Reference

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## About this document

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The following topics are discussed in this section:

- “Who should read this document and why” (page 9)
- “What you need to know” (page 9)
- “How this document is organized” (page 10)
- “What’s new in this document” (page 10)
- “Text conventions” (page 10)
- “Related documents” (page 11)

### Who should read this document and why

This guide is for systems administrators and network operators who use Preside Multiservice Data Manager (MDM) for network fault management. This guide describes the alarm codes coming from various MDM servers, proxy agents and SNMP devices.

### What you need to know

This document assumes that you have a knowledge of

- the elements in your network
- the diagnostics of the switches managed by Preside Multiservice Data Manager
- network fault management

## How this document is organized

241-6001-501 *Preside MDM Alarms Reference Guide* contains the following sections:

- “Proxy alarms” (page 13) describes Preside Multiservice Data Manager (MDM) proxy alarms.
- “Generic SNMP alarms” (page 49) describes generic SNMP device alarms supported by MDM.

## What’s new in this document

A new chapter has been added to this document. “Generic SNMP alarms” (page 49) describes generic SNMP device alarms supported by Preside Multiservice Data Manager. This information was previously included in 241-6001-502 *Preside MDM Device Alarms Reference Guide*.

A new proxy alarm has been added to support Nortel Networks Multiservice Provider Edge 9500 devices.

## Text conventions

This document uses the following text conventions:

- `nonproportional spaced plain type`  
Nonproportional spaced plain type represents system generated text or text that appears on your screen.
- **nonproportional spaced bold type**  
Nonproportional spaced bold type represents words that you should type or that you should select on the screen.
- *italics*  
Statements that appear in italics in a procedure explain the results of a particular step and appear immediately following the step.

Words that appear in italics in text are for naming.

- [optional\_parameter]

Words in square brackets represent optional parameters. The command can be entered with or without the words in the square brackets.

- <general\_term>

Words in angle brackets represent variables which are to be replaced with specific values.

- UPPERCASE, lowercase

Uppercase and lowercase letters that appear in UNIX commands and parameters must be matched exactly. The system matches upper and lowercase characters differently.

- |

This symbol separates items from which you may select one; for example, ON|OFF indicates that you may specify ON or OFF. If you do not make a choice, a default ON is assumed.

- ...

Three dots in a command indicate that the parameter may be repeated more than once in succession.

The term absolute pathname refers to the full specification of a path starting from the root directory. Absolute pathnames always begin with the slash (/) symbol. A relative pathname takes the current directory as its starting point, and starts with any alphanumeric character (other than /).

## Related documents

See the following documents for related information:

- 241-6001-303 *Preside MDM Administrator Guide*



# Chapter 1

## Proxy alarms

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### MDM proxy alarms

Preside Multiservice Data Manager (MDM) proxy alarms come from various MDM servers and proxy agents. A proxy alarm is an alarm that is generated by a server or agent, and not from a network element, such as a trap.

MDM generates these proxy alarms and injects them into the main alarm stream along with node-generated alarms. The proxy alarms come from the following:

- FMIP Management Data Router (FMDR)
- MPE 9500 Data Translation (NDTR)
- Inbound Management Data Router (IMDR)
- Inbound Application Programming Interface (IAPI)
- SNMP Management Data Router (SMDR)
- DPN Management Data Router (DMDR)
- MDM Server Manager (SVM)

### Turning off proxy alarms

To turn off the proxy alarm stream, refer to the sections on configuring the file `/op/MagellanNMS/cfg/DMDRAlarmExcep.cfg` and configuration for alarm exception handling in 241-6001-310 *Preside MDM Server Reference Guide*.

## 3010 0000

<b>Component</b>	<b>Severity</b>	<b>Status</b>
MDM/<w/s name> APP <application name>	major/cleared	set/clear

### Legend

<w/s name> is the name of the workstation generating the error

<application name> is the server on the Preside Multiservice Data Manager (MDM) workstation that has stopped or restarted

### Details

This alarm is generated by the Server Manager (SVM). It is issued when the key MDM server application is stopped and restarted.

This alarm contains COMMENT text information that describes the name of the server application. In the SET alarm, the COMMENT text contains the signal # that caused the application to stop. In the CLEAR alarm, the COMMENT text contains the current number of restart times, out of the total restarted times allowed for this application.

### Remedial action

Verify that no one on the workstation terminated the application. If the application restarts on its own (as it is supposed to do) there is no problem. However, if the application cannot restart, review the failure code and refer to the MDM documentation for more information.

## 3010 0700

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> GROUP <Passport group name>	warning	msg

### Legend

<w/s name> is the name of the workstation generating the error

<Passport group name> is the name of the unreachable network element group

### Details

This alarm is issued when the Preside Multiservice Data Manager host cannot reach the indicated group to perform a TODchangeover command.

### Remedial action

Verify that the group is included in the HGDS.cfg file and that this group name was specified using capital letters. Verify that the userID and password for this group are valid. Execute the command again using the correct parameters.

## 3010 0701

Component	Severity	Status
NMS/<w/s name> PP <Passport nodeID/nodename>	warning	msg

### Legend

<w/s name> is the name of the workstation generating the error

<Passport nodeID/nodename> is the nodeID or nodename of the unreachable node

### Details

This alarm is issued when the Preside Multiservice Data Manager host cannot reach the indicated node to query the current time offset.

### Remedial action

Verify that the specified node is active and accessible. Verify that the userID and password for this node are valid. If the userID or password are different than those used by the other nodes in the group, have the userID and password added or changed on the affected node. If the node was unavailable during the execution of the TODchangeover, execute the command again after the node has returned to service.

## 3010 0702

Component	Severity	Status
NMS/<w/s name> PP <Passport nodeID/nodename>	warning	msg

### Legend

<w/s name> is the name of the workstation generating the error

<Passport nodeID/nodename> is the nodeID or nodename of the unreachable node

### Details

This alarm is issued when the Preside Multiservice Data Manager host cannot reach the indicated node to set the current time offset.

### Remedial action

Verify that the specified node is active and accessible. Verify that the userID and password are valid. If the userID or password is different than those used by the other nodes in the group, have the userID and password added or changed on the affected node. If the node was unavailable during the execution of the TODchangeover, execute the command again after the node has returned to service.

## 3010 0703

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> APPL TODCHANGEOVER	warning	msg

### **Legend**

<w/s name> is the name of the workstation generating the error

### **Details**

This alarm is issued when the TODchangeover command failed due to incorrectly specified parameters.

### **Remedial action**

Check the log file associated with this application to determine which parameter was incorrectly specified. Execute the command again with the correct parameters.

## 3011 0001

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> APP <application_name>	critical/cleared	set/clear

### **Legend**

<w/s name> is the name of the workstation generating the error

<application\_name> is the application name.

### **Details**

This alarm is generated by workstation surveillance. It is issued when the application is stopped by signal 15. This alarm contains COMMENT text information that identifies the application. When the alarm clears, the COMMENT text information indicates that the application is restarted.

### **Remedial action**

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

## 3011 0100

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> DISK <id>	critical/major/ minor/cleared	set/clear

### Legend

<w/s name> is the name of the workstation generating the error

<id> is disk volume identifier

### Details

This alarm is generated by workstation surveillance. It is issued when disk resource usage exceeds pre-defined thresholds. This alarm contains COMMENT text information that identifies the percentage of resources used. When the alarm clears, the COMMENT text information indicates that resource usage is normal.

The default threshold values are:

- 70% of resource used: MINOR
- 80% of resource used: MAJOR
- 90% of resource used: CRITICAL

Threshold values can be redefined through the sfm\_config script.

### Remedial action

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

## 3011 0200

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> CPU <id>	critical/major/ minor/cleared	set/clear

### Legend

<w/s name> is the name of the workstation generating the error

<id> is CPU identifier

### Details

This alarm is generated by workstation surveillance. It is issued when CPU resource usage exceeds pre-defined thresholds. This alarm contains COMMENT text information that identifies the percentage of resources used. When the alarm clears, the COMMENT text information indicates that resource usage is normal.

The default threshold values are:

- 70% of resource used: MINOR
- 80% of resource used: MAJOR
- 90% of resource used: CRITICAL

Threshold values can be redefined through the `sfm_config` script.

### Remedial action

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

## 3011 0300

Component	Severity	Status
NMS/<w/s name> MEMORY	critical/major/ minor/cleared	set/clear

### Legend

<w/s name> is the name of the workstation generating the error

### Details

This alarm is generated by workstation surveillance. It is issued when memory resource usage exceeds pre-defined thresholds. This alarm contains COMMENT text information that identifies the percentage of resources used. When the alarm clears, the COMMENT text information indicates that resource usage is normal.

The default threshold values are:

- 70% of resource used: MINOR
- 80% of resource used: MAJOR
- 90% of resource used: CRITICAL

Threshold values can be redefined through the `sfm_config` script.

**Remedial action**

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

**3011 0401**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> PORT <ip_addr>	major/cleared	set/clear

**Legend**

<w/s name> is the name of the workstation generating the error

<ip\_addr> is the IP address assigned to the Ethernet port.

**Details**

This alarm is generated by workstation surveillance. It is issued when the port at the indicated IP address is out of service. This alarm contains COMMENT text information that identifies the component. When the alarm clears, the COMMENT text information indicates that the component is back in service.

There are no threshold values that trigger this alarm.

**Remedial action**

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

**3011 0501**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> CONNECTION <ip_addr>	critical/cleared	set/clear

**Legend**

<w/s name> is the name of the workstation generating the error

<ip\_addr> is the IP address of the remote workstation.

**Details**

This alarm is generated by workstation surveillance. It is issued when the connection to either a remote peer MDM workstation or a common device is lost. This alarm contains COMMENT text information that identifies the remote peer workstation or the device. When the alarm clears, the COMMENT text indicates that the connection to the peer workstation or the device has been re-established and redundancy is restored.

There are no threshold values that trigger this alarm.

**Remedial action**

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

**3011 0600**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<w/s name> SDS <logical disk name>	critical/cleared	set/clear

**Legend**

<w/s name> is the name of the workstation generating the error

<logical disk name> is the logical disk name used by Solstice Disk Suite (SDS).

**Details**

This alarm is generated by workstation surveillance. It is issued when the redundancy of the SDS disk mirroring system fails. This alarm contains comment text that identifies the file system that is jeopardized. When the alarm clears, the comment text indicates that the redundancy of the file system is restored.

There are no threshold values that trigger this alarm. This alarm is generated only by the machine that has SDS installed.

**Remedial action**

Contact the Preside Multiservice Data Manager administrator and the workstation administrator and apprise them of the resource alarm.

**3011 0700**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
NMS/<hostname>	critical/major/ cleared	set/clear

**Legend**

<hostname> is the name of the Preside Multiservice Data Manager (MDM) host generating the error.

**Details**

This alarm occurs during the 30-day temporary license period after MDM is installed. The alarm indicates that the temporary license is about to expire. A major alarm occurs when 6 to 10 days remain on the temporary license period. A critical alarm occurs when 5 days or less remain. You cannot regenerate another temporary license key.

**Remedial action**

Contact the Nortel Networks account representative to obtain your MDM permanent license key. Install the permanent license key.

**50xx 00xx**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<xx> /<component id>	major/cleared	set/clear

**Legend**

<xx> is the device class that you are managing

<component id> is the name of the component

**Details**

For customers who decide to use the SNMP integrator, they are recommended to use a range of alarms to indicate an alarm arriving from their system.

This range is from 50xx 0000 to 50xx 0200. Since we have no control over what the customers use therefore we suggest that customer build their own alarms document and include it into the document so that their alarms can be found. We suggest that customers choose a different value for each type of device.

**Remedial action**

Not applicable

## 50xx 01xx

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<xx> /<component id>	major/cleared	set/clear

### Legend

<xx> is the device class that you are managing

<component id> is the name of the component

### Details

For customers who decide to use the SNMP integrator, they are recommended to use a range of alarms to indicate an alarm arriving from their system.

This range is from 50xx 0000 to 50xx 0200. Since we have no control over what the customers use therefore we suggest that customer build their own alarms document and include it into the document so that their alarms can be found. We suggest that customers choose a different value for each type of device.

### Remedial action

Not applicable

## 50xx 02xx

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<xx> /<component id>	major/cleared	set/clear

### Legend

<xx> is the device class that you are managing

<component id> is the name of the component

### Details

For customers who decide to use the SNMP integrator, they are recommended to use a range of alarms to indicate an alarm arriving from their system.

This range is from 50xx 0000 to 50xx 0200. Since we have no control over what the customers use therefore we suggest that customer build their own alarms document and include it into the document so that their alarms can be found. We suggest that customers choose a different value for each type of device.

### Remedial action

Not applicable

## 5004 0001

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Network	major	set

### **Legend**

none

### **Details**

The SNMP Integrator has received an invalid SNMP poll response. Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, further information to be used for debugging.

Comment text contains the IP address of where the poll response is originated.

### **Remedial action**

none

## 5004 0002

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Network	major	set

### **Legend**

none

### **Details**

The SNMP Integrator has received an invalid SNMP trap message.

Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, further information to be used for debugging.

Comment text contains the Internet address of where the poll response is originated.

### **Remedial action**

none

## 5004 0003

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### Legend

none

### Details

A software error has occurred.

Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, further information to be used for debugging.

### Remedial action

none

## 5004 0004

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Engineering	major	set

### Legend

none

### Details

An overrun condition is encountered during polling. It occurs when the actual poll interval device exceeds the poll interval defined in the Network Element configuration file. The probable cause is due to improper engineering of the polling parameters: time-out, number of retry, and poll interval.

Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, the actual poll interval.

Comment text contains: Polling frequency overrun.

### Remedial action

none

## 5004 0005

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Engineering	major	set

### **Legend**

none

### **Details**

The SNMP GET response message indicates that there is an error for the requested MIB variable.

Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, the error code as follows:

1. tooBig
2. noSuchName
3. badValue
4. readOnly
5. genErr

Consult Internet Standard RFC 1157, *Simple Network Management Protocol (SNMP)* for more meanings of this error status.

Comment text contains the Internet address of where the poll response message is originated and the symbolic name of the MIB variable.

### **Remedial action**

none

## 5004 0006

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Engineering	major	set

### **Legend**

none

### **Details**

An overrun condition is encountered during PING polling. It occurs when the actual poll interval device exceeds the poll interval defined in the Network Element configuration file. The probable cause is due to improper engineering of the polling parameters: timeout, number of retry, and poll interval.

Operator data contains in the first 4-bytes, the source code location, and in the next 4-bytes, the actual poll interval.

Comment text contains: Polling frequency overrun.

### **Remedial action**

none

## 5004 0007

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Network	major	set

### **Legend**

none

### **Details**

The SNMP trap message received contains a MIB variable that the SNMP Integrator cannot translate into a symbolic form.

Operator data contains the MIB variable in a numeric format. For example, the MIB variable 1.2.3.4 will be shown as 01020304.

### **Remedial action**

none

**5004 0100**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The RTR X25 link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

**5004 0101**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The RTR X25 link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

**Remedial action**

none

**5004 0102**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The RTR FR link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0103

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The RTR FR link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0104

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The RTR EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0105

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The RTR EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

---

## 5004 0106

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The HUB EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0107

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The HUB EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

**Remedial action**

none

## 5004 0108

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The BR EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0109

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The BR EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0110

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SBR B\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0111

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SBR B\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

---

## 5004 0112

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The SLAN SHUB H\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0113

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The SLAN SHUB H\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

**Remedial action**

none

## 5004 0114

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The SLAN PRT P\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0115

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN PRT P\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0116

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN FS F\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0117

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN FS F\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0118

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN WS W\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0119

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN WS W\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0120

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SRTR R\_X25 link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0121

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SRTR R\_X25 link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0122

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SRTR R\_EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0123

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The SLAN SRTR R\_EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

---

## 5004 0124

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The SLAN SRTR R\_FR link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0125

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The SLAN SRTR R\_FR link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

**Remedial action**

none

## 5004 0126

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

**Legend**

none

**Details**

The ERTR S\_X25 link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

**Remedial action**

none

## 5004 0127

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The ERTR S\_X25 link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0128

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The ERTR S\_FR link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0129

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The ERTR S\_FR link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 5004 0130

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The ERTR EPO link named in this alarm has gone down. Check whether the device has been shut down on purpose. If not, check the physical connection first, then the network path to this device.

### **Remedial action**

none

## 5004 0131

<b>Component</b>	<b>Severity</b>	<b>Status</b>
Software	major	set

### **Legend**

none

### **Details**

The ERTR EPO link named in this alarm has gone into testing mode. The interface should be considered unavailable for operational data.

### **Remedial action**

none

## 50048888

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	major	set

### Legend

<deviceType> is the device type in ASCII (e.g. RTR)

<deviceName> is the device name in ASCII

### Details

The device is not responding to a PING command by the SNMP Integrator within the specified time period.

### Remedial action

Verify that the device is UP and/or reachable from the workstation that is running the SNMP Integrator. If the device is UP and reachable, verify that the TIMEOUT value for this device, as defined in the Network Element file, is large enough to allow the device to respond..

## 5004FFFF

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	cleared	clear

### Legend

<deviceType> is the device type in ASCII (e.g. RTR)

<deviceName> is the device name in ASCII

### Details

The device has responded to an initial PING command by the SNMP Integrator, or a sysReset trap has been received by the SNMP Integrator.

### Remedial action

none

## 600X XXXX

Component	Severity	Status
NMS/<host> MDP/<application>	critical/major/ warning	message

### Legend

<host> is the name of the Management Data Provider (MDP) host  
<application> is the name of the MDP process that generated the alarm

### Details

The indicated MDP process has encountered an error. The COMMENT text information indicates the alarm cause.

### Remedial action

The last 5-digits of the alarm fault code refers to a specific log message. Refer to the Log Messages section of 241-6001-309 *Preside MDM Management Data Provider User Guide* for an explanation of the message.

## A0XX XXXX

Component	Severity	Status
<xx> /<component id>	major/cleared	set/clear

### Legend

<xx> is the device class that you are managing  
<component id> is the name of the component

### Details

For customers who decide to use the Inbound alarm and status Application Programming Interface (I-API) or Injected Management Data Router (IMDR) to inject alarms into Preside Multiservice Data Manager, they are recommended to use this range of alarms to indicate an alarm arriving from their system.

This range is from A000 0000 to A0FF FFFF. Customers can build their own alarms document and include it into this document so that their alarms can be found.

We recommend that the xx of A0xx 0000 be used to signify the device type to which the alarm refers. This will allow for better identification of the device type that failed.

In addition the xxxx of A000 xxxx be used to signify the specific failure.

Please refer to the specific documentation for details on the alarm.

### Remedial action

Refer to the product-specific documentation for fault correction steps.

## B000 BXXX

Component	Severity	Status
<xx> /<component id>	major/cleared	set/clear

### Legend

<xx> is the device class that you are managing

<component id> is the name of the component

### Details

For custom development, for example, for Meridian view.

Please refer to the specific documentation for details on the alarm.

### Remedial action

Refer to the product-specific documentation for fault correction steps.

## CDXX XXXX

### Legend

CD means customer-defined

XX XXXX is the value that you assign to an alarm fault code

**Note:** The first two numbers (<xx>) should match the device type value for the device being managed.

### Details

This alarm code is a template for the customer to use to define alarms. The SNMP Surveillance Adapter allows you to create alarm codes and descriptions in the Preside Multiservice Data Manager tool. See the section on adding a description for a new alarm code in the 241-6001-011 *Preside MDM Fault Management User Guide*.

**0999 0001**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	critical/cleared	set/clear

**Alarm type**

equipment

**Probable cause**

equipment failure

**Legend**

&lt;deviceType&gt; is the network device

&lt;deviceName&gt; is the name assigned to this device in your network

**Details**

When status is set, the network management workstation has lost its IP connection to the indicated network device. The cause of the failure is a problem with the communications links connecting the network management workstation and the network device or device failure on the remote end.

When the status is clear, connectivity has been restored.

**Remedial action**

Check the communication link connecting the network management workstation and the network device. Also ensure that the network device has not failed. If you cannot detect a problem in the communication link, the physical link, or the remote-end device, and the problem persists, contact your Nortel Networks representative.

## 0999 0002

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	critical/cleared	set/clear

### **Alarm type**

operator

### **Probable cause**

unexpected information

### **Legend**

<deviceType> is the network device

<deviceName> is the name assigned to this device in your network

### **Details**

When status is set, the system object ID (sysOID) polled from the network device does not have the value expected. This situation can be caused by IP address duplication or incorrect information given to IP discovery.

When status is clear, the expected device type (or sysOID) has been found when polled from the device.

### **Remedial action**

Determine if the IP address specified in the alarm comment text is duplicated in the network and verify the information given to IP discovery.

**0999 0003**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	critical/warning/ cleared	set/clear

**Alarm type**

operator

**Probable cause**

unexpected information

**Legend**

&lt;deviceType&gt; is the network device

&lt;deviceName&gt; is the name assigned to this device in your network

**Details**

When status is set, the polled hardware identification <hardware ID> has changed. IP address duplication or a device replacement can cause this state. If the device name has not changed, it is assumed that a faulty device has been replaced by a new one. The new hardware identification is accepted, and the Warning severity is used. If the device name has also changed, it is assumed that it is due to IP address duplication. The Critical severity is used and subsequent polling results are ignored until the problem is resolved.

When status is clear, the expected hardware identification <hardware ID> has been found when polled from the device.

**Remedial action**

For the CRITICAL SET alarm, determine if the IP address specified in the alarm comment text is duplicated in the network. For the WARNING SET alarm, no action is required.

## 0999 0004

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<deviceType>/<deviceName>	major/cleared	set/clear

### **Alarm type**

operator

### **Probable cause**

duplicate information

### **Legend**

<deviceType> is the network device

<deviceName> is the name assigned to this device in your network

### **Details**

When the status is set, a new name assigned to a device duplicates a name already assigned to another device of the same type; the name change is rejected and the alarm is raised against the old name.

When the status is clear, the problem has been resolved.

### **Remedial action**

Change the name of the device so that it does not duplicate the name of any other device of the same type.

**0999 0010**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
PM/<component id>	major/cleared	set/clear

**Legend**

<component id> is the name of any DPN component that generates status records

**Details**

The state of the component has been changed due to a status record received from the network. When the status of the alarm is a set, it means that the status record indicated that the component is down, and there are no corresponding active alarms (generated by the switch) on that component to indicate that it is down. Therefore Preside Multiservice Data Manager (MDM) created a proxy alarm to replace the missing alarm, and will mark the component Out of service.

When the status of the alarm is a clear, it means that the status record indicated that the component is up, and there were active alarms on that component to indicate that it is down. Therefore MDM generates a proxy alarm to replace the missing clear, and will mark the component Inservice.

The comment text of this alarm contains information on the status record that was received that triggered the proxy alarm.

**Remedial action**

This alarm is issued either because the status record was received before the alarm issued by the switch, which would put the component in the proper state (and the proxy alarm would be cleared when the real alarm is received) or because the alarm issued by the switch has been lost.

Treat proxy alarms as you would treat regular alarms and use them in debugging network problems.

## 0999 0011

<b>Component</b>	<b>Severity</b>	<b>Status</b>
xx/<component id>	major/cleared	set/clear

### Legend

xx is the device type managed by IMDR

<component id> is the name of a component managed by IMDR

### Details

The alarm generated by IMDR for an SNMP component is inconsistent with traps received from the network. This can happen, for example, if an SNMP poll produces a state change notification without receiving a corresponding trap from the network.

When the status of the alarm produced by IMDR is a set, it means that the Poll response indicates that the component is down, but there are no corresponding active alarms (generated by the switch) on that component to indicate that it is down. Therefore Preside Multiservice Data Manager (MDM) created a proxy alarm to replace the missing alarm, and will mark the component Out of service.

When the status of the alarm is a clear, it means that the Poll response indicates that the component is up, but there are active alarms on that component to indicate that it is down. Therefore MDM generates a proxy alarm to replace the missing clear, and marks the component Inservice.

The comment text of this alarm contains information on the state notification that was received and triggered the proxy alarm.

### Remedial action

This alarm is issued either because the state notification was received before the trap was issued by the switch, which would put the component in the proper state (and the proxy alarm would be cleared when the real trap is received) or because the trap issued by the switch has been lost or the switch never generated a trap.

Treat proxy alarms as you would treat regular alarms and use them in debugging network problems.

## 0999 0012

<b>Component</b>	<b>Severity</b>	<b>Status</b>
EM/<component id>	major/cleared	set/clear

### **Legend**

<component id> is the name of any PP component generating SCNs

### **Details**

The state of the component has been changed due to a state change notification (SCN) received from the network. When the status of the alarm is a set, it means that the SCN indicated that the component is down, and there are no corresponding active alarms (generated by the switch) on that component to indicate that it is down. Therefore Preside Multiservice Data Manager (MDM) created a proxy alarm to replace the missing alarm, and will mark the component Out of service.

When the status of the alarm is a clear, it means that the SCN indicated that the component is up, and there were active alarms on that component to indicate that it is down. Therefore MDM generates a proxy alarm to replace the missing clear, and will mark the component Inservice.

The comment text of this alarm contains information on the SCN that was received that triggered the proxy alarm.

### **Remedial action**

This alarm is issued either because the SCN was received before the alarm issued by the switch, which would put the component in the proper state (and the proxy alarm will be cleared when the real alarm is received) or because the alarm issued by the switch has been lost.

Treat proxy alarms as you would treat regular alarms and use them in debugging network problems.

## 0999 0013

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<device>/<device name> [<component type>/<component instance>]	major/cleared	set/clear

### **Alarm type**

unknown

### **Probable cause**

unknown

### **Legend**

<device> is the network device

<device name> is the name assigned to this device in your network

### **Details**

The alarm generated by the Preside Multiservice Data Manager (MDM) SNMP Management Data Router (SMDR) for an SNMP component is inconsistent with traps received from the network.

When the status of the alarm produced by SMDR is a set, it means that the Poll response indicates that the network device is down, but there are no corresponding active alarms on that network device to indicate that it is down. Therefore, the MDM creates a proxy alarm to replace the missing alarm, and marks the network device Out of Service (OOS).

When the status of the alarm is a clear, it means that the Poll response indicates that the network device is up, but there are active alarms on that network device to indicate that it is down. Therefore, the MDM generates a proxy alarm to replace the missing clear, and marks the network device Inservice.

### **Remedial action**

This alarm is issued either because the Poll responses was received before the trap was issued by the network device, which would put the network device in the proper state (and the proxy alarm would be cleared when the trap is received) or because the trap issued by the network device has been lost or the network device never generated a trap.

Treat proxy alarms as you would treat regular alarms. Use them to debug network problems.

---

## Chapter 2

# Generic SNMP alarms

---

This chapter describes those SNMP device alarms supported by Preside Multiservice Data Manager (MDM).

### Alarm codes

The table “Device types” (page 49) indicates the prefix for the supported alarm codes.

**Table 1**  
**Device types**

Code range	Device
C000	Generic SNMP alarms
CDxx xxxx	Customer-defined alarms. For more information about customer-defined alarms, see 241-6001-011 <i>Preside MDM Fault Management User Guide</i> .

## C000 0000

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<device type>/<device name>	warning	set
	minor	set
	major	set
	critical	set
	cleared	clear

### **Alarm Type**

operator

### **Probable Cause**

operational condition

### **Legend**

<device type> is the type of device.

<device name> is the name of the device that has issued the corresponding SNMP trap.

### **Details**

The trap ColdStart indicates that the system has restarted after a power shutdown.

For devices monitored by the Preside Multiservice Data Manager (MDM) generic DCD (GENDCD):

- 1 cold start within 30 minutes generates a 'clear' alarm. The 'clear' alarm is generated because a cold start can be a normal operation.
- 2 cold starts within 30 minutes generates a 'minor' set alarm.
- 3 cold starts within 30 minutes generates a 'major' set alarm.
- 4 cold starts within 30 minutes generates a 'critical' set alarm.
- a return to 0 cold starts within 30 minutes generates a 'cleared' clear alarm.

For SNMP devices that generate their own alarms and are not monitored using the MDM generic DCD (GENDCD):

- 1 cold start within the polling interval (device specific) generates a 'warning' set alarm.

- the alarm is cleared when no cold starts are generated within the aging period

**Remedial action**

No remedial action is necessary.

**C000 0001**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<device type>/<device name>	warning	set
	minor	set
	major	set
	critical	set
	cleared	clear

**Alarm type**

operator

**Probable Cause**

operational condition

**Legend**

<device type> is the type of device.

<device name> is the name of the device that has issued the corresponding SNMP trap.

**Details**

The trap WarmStart indicates that the system has started without a power shutdown.

For devices monitored by the Preside Multiservice Data Manager (MDM) generic DCD (GENDCD):

- 1 warm start within 30 minutes generates a 'clear' alarm. The 'clear' alarm is generated because a warm start can be a normal operation.
- 2 warm starts within 30 minutes generates a 'minor' set alarm.
- 3 warm starts within 30 minutes generates a 'major' set alarm.
- 4 warm starts within 30 minutes generates a 'critical' set alarm.
- a return to 0 warm starts within 30 minutes generates a 'clear' alarm.

For SNMP devices that generate their own alarms and are not monitored using the MDM generic DCD (GENDCD):

- 1 warm start within the polling interval (device specific) generates a 'warning' set alarm.
- the alarm is cleared when no warm starts are generated within the aging period

**Remedial action**

If the trap is caused by administrative action, no remedial action is necessary. Otherwise, contact your Nortel Networks representative.

**C000 0002**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<device type>/<device name> IF/<IF name>	major	set
	critical	set
	cleared	clear

**Alarm type**

communications

**Probable Cause**

loss of signal

**Legend**

<device type> is the type of device.

<device name> is the name of the device that has issued the corresponding SNMP trap.

<IF name> is the interface port.

**Details**

This trap indicates that a link is down. This trap is probably caused by a local transmission error.

For devices monitored by the Preside Multiservice Data Manager (MDM) generic DCD (GENDCD), the Link Down trap is reported as a 'critical' set alarm.

For SNMP devices that generate their own alarms and are not monitored using the MDM generic DCD (GENDCD), the Link Down trap is reported as a 'major' set alarm.

When the MDM receives the Link Up trap, this is reported as a 'clear' alarm.

**Remedial action**

Check the link status to determine the cause of the problem. There can be multiple causes for this trap. Analyze the statistics to determine if this is a physical connection problem such as a disconnected or broken cable or a configuration problem such as unmatched far-end and near-end parameters.

**C000 0004**

<b>Component</b>	<b>Severity</b>	<b>Status</b>
<device type>/<device name> SECURITY \$	warning	message
	minor	set
	major	set
	critical	set
	cleared	clear

**Alarm type**

security

**Probable Cause**

authentication failure

**Legend**

<device type> is the type of device.

<device name> is the name of the device that has issued the corresponding SNMP trap.

**Details**

Trap Authentication indicates that an attempt was made to access the device with the wrong SNMP community name.

For devices monitored by the Preside Multiservice Data Manager (MDM) generic DCD (GENDCD):

- 3 authentication failures within 10 minutes generates a 'warning' message alarm.
- 6 authentication failures within 10 minutes generates a 'minor' set alarm.
- 9 authentication failures within 10 minutes generates a 'major' set alarm.
- 12 authentication failures within 10 minutes generates a 'critical' set alarm.
- a return to 1 authentication failure within 10 minutes generates a 'cleared' clear alarm.

For SNMP devices that generate their own alarms and are not monitored using the MDM generic DCD (GENDCD):

- 1 to 4 authentication failures within the polling interval (device specific) generates a 'warning' message alarm.

- 5, or more, authentication failures within the polling interval (device specific) generates a 'major' set alarm.
- the alarm is cleared when no authentication failures are generated within the aging period

**Remedial action**

Take appropriate security actions.

## C001 9999

**Component**

GEN/<device name>

**Severity**

indeterminate

**Status**

message

**Alarm type**

unknown

**Probable Cause**

unknown

**Legend**

<device name> is the name of the generic device that has issued the corresponding SNMP trap.

**Details**

A device specific trap has been received for which the generic SNMP device driver has no translation.

**Remedial action**

Take appropriate action for the specific trap received.

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Preside Multiservice Data Manager  
**Alarms**  
Reference

Release: R15.1

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