

DHCPv4, DHCPv4 TPS Exceed Threshold

Operating Instructions



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DHCPv4, DHCPv4 TPS Exceed Threshold



1 Introduction

This instruction concerns alarm handling.

1.1 Alarm Description

The alarm is issued when the TPS of DHCPv4 query exceeds the threshold (defined by attribute `thresholdHigh`) in a given time interval (defined by attribute `granularityPeriod`)

The possible alarm causes and the corresponding fault reasons, fault locations, and impacts are described in Page 1.

Table 1 Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact	Solution
The TPS of DHCPv4 query exceeds the TPS threshold.	This alarm is issued when the TPS level reaches or exceeds the predefined threshold level.	TPS level exceeds the predefined threshold in the given time period.	DHCPv4 server	Certain DHCPv4 server queries may not get responses.	See Section 2 on page 3

Note: An alarm can appear as a result of the maintenance activity.

The alarm attributes are listed and explained in Page 1.

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Major Type	193
Minor Type	872461
Managed Object Class	IpworksDhcpv4
Source	ManagedElement=<Node Name>,SystemFunctions=1,Pm=1,PmJob=<PM Job name, default job is DHCPv4DefaultPmThresholdJob>,MeasurementReader=<Default is TransactionPerSecondMr>:<hostname>



Attribute Name	Attribute Value
Specific Problem	DHCPv4, DHCPv4 TPS Exceed Threshold
Event Type	qualityOfServiceAlarm(11)
Probable Cause	x733ThresholdCrossed(351)
Additional Text	This alarm is generated by DHCPv4 server when the TPS of DHCP query exceeds the threshold in the given time interval (both defined by the related PMJob).;uuid:<Product_UUID> ⁽¹⁾
Perceived Severity	<code>thresholdSeverity</code> , which is one of the following: <ul style="list-style-type: none">• Major• Minor

(1) <Product_UUID> is the universally unique identifier (UUID) of machine that generates the alarm. The value can be fetched from `/sys/devices/virtual/dmi/id/product_uuid` on the PL node.

1.2 Prerequisites

This section provides information on the documents, tools, and conditions that apply to the procedure.

1.2.1 Documents

Before starting this procedure, ensure that you have read the following documents:

- System Safety Information
- Personal Health and Safety Information
- Fault Management

1.2.2 Tools

No tools are required.

1.2.3 Conditions

No conditions.



2 Procedure

This section describes the procedure to clear this alarm.

Do the following:

1. Control the TPS of DHCP query to fall below the predefined TPS threshold level.

For more information on how to define a threshold, refer to [Create Threshold Monitoring Job](#).

2. This alarm is automatically cleared when the TPS of DHCP query falls below the predefined TPS threshold level.
3. Confirm the alarm has ceased. If the alarm remains, consult the next level of maintenance support. Further actions are outside the scope of this instruction.