

Power Supply Failure

Cloud Execution Environment

OPERATING INSTRUCTIONS

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Power Supply Failure



1 Introduction

This instruction concerns alarm handling.

This document is only applicable for systems using Extreme switches configured dynamically by the Cloud Execution Environment (CEE). Refer to the *Configuration File Guide* for more information about the CEE configuration types.

1.1 Alarm Description

The *Power Supply Failure* alarm is a primary alarm.

The alarm is issued by the Managed Object (MO) `PowerSupply` when one or more power supplies fail in the Top of Rack (ToR) switch.

The severity of the alarm is `CRITICAL`.

The possible alarm causes and fault locations are described in Table 1.

Table 1 Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact
Power supply or supplies are down	One or more power sources have failed in the ToR switch. Presumably, a redundant power supply has taken over.	Power supply is faulty	Switch power supply	Power malfunction

The following is the consequence for the node if the alarm is not solved:

- The power supply of the ToR switch is not secured.

The alarm attributes are listed in Table 2.

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Major Type	193
Minor Type	2031686
Managed Object Class	<code>PowerSupply</code>



Table 2 Alarm Attributes

Attribute Name	Attribute Value
Managed Object Instance	Region=<name_of_the_region>, Equipment=<equipment_id>, TopOfRackSwitch=<switch_id>, PowerSupply=<power_supply_id>
Specific Problem	Power Supply Failure
Event Type	equipmentAlarm (5)
Probable Cause	powerSupplyFailure (78)
Additional Text	One or more sources of power has failed in the ToR switch. Presumably a redundant power supply has taken over.
Severity	CRITICAL (3)

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 the following document is available:

[Summit Family Hardware Installation Guide](#), Reference [1].

1.2.2 Tools

No tools are required.

1.2.3 Conditions

No conditions.



2 Procedure

This section describes the procedure to follow when the alarm is received.

2.1 Actions

Perform the following:

1. Locate the faulty fan module or modules by using the `<power_supply_id>` attribute from the **Source** field of the alarm.
2. Confirm that the power supply or supplies are not functioning properly, or are down.
3. Replace the failed power supply or supplies in the switch by referring to the instructions in [Summit Family Hardware Installation Guide](#), Reference [1].
4. Confirm that the alarm has ceased.

If the alarm ceases, exit this procedure.

If the alarm remains, proceed to Step 5.

5. Collect troubleshooting data as described in the *Data Collection Guideline*. For alarm-specific logs, refer to the table *Data Collection for Alarms and Alerts* in the *Data Collection Guideline*.
6. Consult the next level of maintenance support.
Further actions are outside the scope of this instruction.
7. The job is completed.



Reference List

- [1] *Summit Family Hardware Installation Guide for Switches Supported by ExtremeXOS 16 and earlier*, http://documentation.extremenetworks.com/summit_16/downloads/SummitFamily_HW_Install.pdf, 121141-00