Configuring Platform Event Filters

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Platform Event Filters

A platform event filter (PEF) can trigger an action and generate an alert when a critical hardware-related event occurs. For each PEF, you can choose the action to be taken (or take no action) when a platform event occurs. You can also choose to generate and send an alert when a platform event occurs. Alerts are sent as an SNMP trap, so you must configure an SNMP trap destination before the alerts can be sent.

You can globally enable or disable the generation of platform event alerts. When disabled, alerts are not sent even if PEFs are configured to send them.

Enabling Platform Event Alerts

Procedure

	Command or Action	Purpose
Step 1	Server# **scope fault**	Enters the fault command mode.
Step 2	Server /fault # **set platform-event-enabled yes**	Enables platform event alerts.
Step 3	Server /fault # **commit**	Commits the transaction to the system configuration.

	Command or Action	Purpose
Step 4	Server /fault # **show** [**detail**]	(Optional) Displays the platform event alert configuration.

The following example enables platform event alerts:

```
Server# scope fault
Server /fault # set platform-event-enabled yes
Server /fault *# commit
Server /fault # show
SNMP Community String Platform Event Enabled
--------------------- ----------------------
public                yes

Server /fault #
```

Disabling Platform Event Alerts

Procedure

	Command or Action	Purpose
Step 1	Server# **scope fault**	Enters the fault command mode.
Step 2	Server /fault # **set platform-event-enabled no**	Disables platform event alerts.
Step 3	Server /fault # **commit**	Commits the transaction to the system configuration.
Step 4	Server /fault # **show** [**detail**]	(Optional) Displays the platform event alert configuration.

The following example disables platform event alerts:

```
Server# scope fault
Server /fault # set platform-event-enabled no
Server /fault *# commit
Server /fault # show
SNMP Community String Platform Event Enabled
--------------------- ----------------------
public                no

Server /fault #
```

Configuring Platform Event Filters

You can configure actions and alerts for the following platform event filters:

ID	Platform Event Filter
1	Temperature Critical Assert Filter
2	Temperature Warning Assert Filter

ID	Platform Event Filter
3	Voltage Critical Assert Filter
4	Voltage Warning Assert Filter
5	Current Assert Filter
6	Fan Critical Assert Filter
7	Fan Warning Assert Filter
8	Processor Assert Filter
9	Power Supply Critical Assert Filter
10	Power Supply Warning Assert Filter
11	Power Supply Redundancy Lost Filter
12	Discrete Power Supply Assert Filter
13	Memory Assert Filter
14	Drive Slot Assert Filter

Procedure

	Command or Action	Purpose
Step 1	Server# **scope fault**	Enters the fault command mode.
Step 2	Server /fault # **scope pef** *id*	Enters the platform event filter command mode for the specified event. See the Platform Event Filter table for event ID numbers.
Step 3	Server /fault/pef # **set action** {**none** | **reboot** | **power-cycle** | **power-off**}	Selects the desired system action when this event occurs. The action can be one of the following: • none—An alert is sent but no other action is taken. • reboot—An alert is sent and the server is rebooted. • power-cycle—An alert is sent and the server is power cycled. • power-off—An alert is sent and the server is powered off.
Step 4	Server /fault/pef # **set send-alert** {**yes** | **no**}	Enables or disables the sending of a platform event alert for this event.

	Command or Action	Purpose
		Note For an alert to be sent, the filter trap settings must be configured properly and platform event alerts must be enabled.
Step 5	Server /fault/pef # **commit**	Commits the transaction to the system configuration.

This example configures the platform event alert for an event:

```
Server# scope fault
Server /fault # scope pef 13
Server /fault/pef # set action reboot
Server /fault/pef *# set send-alert yes
Server /fault/pef *# commit
Server /fault/pef # show
Platform Event Filter Event                       Action      Send Alert
--------------------- --------------------------- ----------- ------------------
13                    Memory Assert Filter        reboot      yes

Server /fault/pef #
```

What to Do Next

If you configure any PEFs to send an alert, complete the following tasks:

- Enable platform event alerts
- Configure SNMP trap settings

Configuring SNMP Trap Settings

Procedure

	Command or Action	Purpose
Step 1	Server# **scope fault**	Enters the fault command mode.
Step 2	Server /fault # **set community-str** *string*	Enter the name of the SNMP community to which trap information should be sent.
Step 3	Server /fault # **scope trap-destination** *number*	Enters the SNMP trap destination command mode for the specified destination. Four SNMP trap destinations are available. The destination *number* is an integer between 1 and 4.
Step 4	Server /fault/trap-destination # **set enabled** {**yes** | **no**}	Enables or disables the SNMP trap destination.
Step 5	Server /fault/trap-destination # **set addr** *ip-address*	Specifies the destination IP address to which SNMP trap information is sent.
Step 6	Server /fault/trap-destination # **commit**	Commits the transaction to the system configuration.

This example configures the SNMP trap destination:

```
Server# scope fault
Server /fault # set community-str public
Server /fault *# scope trap-destination 1
Server /fault/trap-destination # set enabled yes
Server /fault/trap-destination *# set addr 10.20.30.41
Server /fault/trap-destination *# commit
Server /fault/trap-destination # show
Trap Destination IP Address       Enabled
---------------- ---------------- --------
1                10.20.30.41      yes

Server /fault/trap-destination #
```