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# **Fault management in Voyager for IPSO 3.8NET**

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# 1 Overview of fault management

Fault Management gives you the ability to identify faults in network elements that have an impact on network performance and availability. You can also identify possible solutions to problems on your network depending on the network element configuration.

Fault Management is based on the Nokia proprietary Nokia Enhanced SNMP Solution Suite Alarm IRP MIB. FM uses this MIB interface to communicate alarm information to a network management station, typically Nokia NetAct. This functionality augments plain SNMP traps with state information, history information, reliable communication, and uniform format for all alarm messages. The underlying mechanisms are SNMP traps and SNMP Get/Set operations.

You will be able to do the following using Voyager:

- Enable and disable alarm traps
- View configured and all permissible alarms
- Cancel and filter alarms
- Configure the alarm log
- View active alarms
- View the alarm log

For further information, see *Enabling and disabling fault management* and *Enabling automatic shutdown*



# 2 Enabling or disabling fault management

## Purpose

This procedure describes how to enable or disable fault management.



## Steps

1. **Click Config.**
2. **Click the *General Configurations* link under the *Fault Management Configuration* section.**
3. **Select ENABLED or DISABLED in the Fault Management drop-down list.**
4. **Click Apply.**
5. **Click Save to make your changes permanent.**



# 3

## Configuring alarm logs

### Purpose

This procedure describes how to enable alarm logging, disable logging and erase logged events.



### Steps

1. **Click Config.**
2. **Click the *General Configurations* link under the *Fault Management Configuration* section.**
3. *If you want to stop logging alarms when the log is full*

*Then*

**Select HALT in the Log Full Action drop-down list.**

The default is WRAP, which erases the oldest alarm events to allow for new alarm events.

4. *If you want to erase all events in the log and return Logging*

*Then*

**Select FLUSH in the Log Control drop-down list.**

The default is LOGGING.

5. *If you do not want to log new events*

*Then*

**Select SUSPEND in the Log Control drop-down list.**

The default is LOGGING.

6. **Click Apply.**

**7. Click Save to make your changes permanent.**

**Further information**

See *Viewing logged alarm events and event details*

# 4 Enabling automatic shutdown

## Purpose

This procedure describes how to enable automatic shutdown if your platform overheats.



## Steps

1. **Click Config.**
2. **Click the *General Configurations* link under the *Fault Management Configuration* section.**
3. **Select **ENABLED** in the Automatic Shutdown On Overheat drop-down list.**

The default is DISABLED.

4. **Click Apply.**
5. **Click Save to make your changes permanent.**



# 5

## Viewing active alarms and active alarm details

### Purpose

This procedure describes how to view active alarms and the full details of a specific alarm.



### Steps

1. **Click Config.**
2. **Click the *Current Alarm List* link under the *Fault Management Configuration* section.**
3. **In the Alarm ID field, click the number corresponding to the alarm to which you would like more detail.**



# 6

## Cancelling active alarms

### Purpose

This procedure describes how to cancel an active alarm.



### Steps

1. **Click Config.**
2. **Click the *Current Alarm List* link under the *Fault Management Configuration* section.**
3. **In the *Cancel an Alarm* section, enter the alarm identification number in the *Alarm ID* field.**

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### Note

The alarm identification number of a particular alarm trap will be listed under the *Table of Active Alarms* in the *ALARM ID* field.

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4. **Click Apply.**



# 7

## Viewing logged alarm events and event details

### Purpose

This procedure describes how to view logged alarm events and the full details of a specific alarm.



### Steps

1. **Click Config.**
2. **Click the *Alarm Log* link under the *Fault Management Configuration* section.**
3. **In the Notification ID field, click the number corresponding to the alarm to which you would like more details.**

### Further information

See *Configuring alarm logs*



# 8

## Specifying global filtering rules

### Purpose

This procedure describes how to specify the severity of an alarm that will be sent.



### Steps

1. **Click Config.**
2. **Click the *Alarm Filtering* link under the *Fault Management Configuration* section.**
3. **Select the severity of the alarms that are not to be sent in the Ignore alarms at or below drop-down list.**

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### Note

Alarms with indeterminate severity will always be sent. Alarms at or below the specified level of severity will not be sent.

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4. **Click Apply.**
5. **Click Save to make your changes permanent.**

### Further information

See *Enabling or disabling specific alarms*



# 9

## Enabling or disabling specific alarms

### Purpose

This procedure describes how to enable or disable specific alarms.



### Steps

1. **Click Config.**
2. **Click the *Alarm Filtering* link under the *Fault Management Configuration* section.**
3. **Under the LIST OF ALARMS, click the On or Off radio button next to the alarm you want to Enabled or Disabled.**
4. **Click Apply.**
5. **Click Save to make your changes permanent.**

### Further information

See *Specifying global filtering rules*