



# MIBs Polled and SNMP Traps Processed or Passed-Through by DFM

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These sections list the Management Information Bases (MIBs) polled by DFM, and the SNMP traps that DFM either processes or treats as pass-through traps:

- [MIBs Polled by DFM, page B-1](#)
- [Processed and Pass-Through SNMP Traps, page B-3](#)

## MIBs Polled by DFM



### Note

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DFM is not a MIB browser. This topic lists the MIBs DFM polls. DFM queries only certain variables from these MIBs to conduct its analysis.

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DFM polls certain MIBs for information that is relevant to fault management. Polling is done based on the polling interval, as described in [Chapter 4, “DFM Default Settings.”](#) The following MIBs are polled by DFM:

- SNMP MIB-II (RFC 1213)
- CISCO-STACK-MIB
- BRIDGE-MIB (RFC 1493)
- CISCO-CDP
- CISCO-LS1010
- CISCO-2900XL

- IF-MIB (RFC 1573)
- Etherlike-MIB
- OLD-CISCO-CPU-MIB
- CISCO-PROCESS-MIB
- OLD-CISCO-INTERFACES-MIB
- OLD-CISCO-ENV-MIB
- OLD-CISCO-MEMORY-MIB
- CISCO-ENVMON-MIB
- CISCO-MEMORY-POOL-MIB
- CISCO-RHINO-MIB
- CISCO-VTP-MIB
- CISCO-VLAN-MEMBERSHIP-MIB
- CISCO-CDP-MIB
- IF-MIB (RFC 1213)
- IF-MIB (RFC 1493)
- CISCO-ENTITY-ALARM-MIB
- CISCO-ENTITY-FRU-CONTROL-MIB
- CISCO-ENTITY-SENSOR-MIB
- CISCO-ENTITY-VENDORTYPE-OID-MIB
- CISCO-METRO-PHY-MIB
- ENTITY-MIB

The following MIBs are supported only if you have downloaded and installed the latest Incremental Device Update (IDU) from the DFM download site:

<http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm>:

- ALTIGA-HARDWARE-STATS-MIB
- CISCO-CONENT-ENGINE-MIB
- CISCO-FC-FE-MIB
- CISCO-ISDN-MIB
- CISCO-SYSTEM-EXT-MIB

# Processed and Pass-Through SNMP Traps



## Note

DFM is not a trap viewer.

For certain SNMP traps, DFM either processes the traps or treats them as pass-through traps (and displays them in the Monitoring Console). These processed and pass-through traps are listed in these topics:

- [Processed SNMP Traps, page B-3](#)
- [Pass-Through SNMP Traps, page B-5](#)

## Processed SNMP Traps

When DFM receives any of the traps listed here, it analyzes the trap and issues a standard DFM notification, as shown in the following tables. “Processing” means DFM analyzes the data found in these fields of each SNMP trap message, and changes the value of the DFM object’s property, if required:

- Enterprise (the sysObjectID of the agent/object)
- Generic Trap Identifier
- Specific Trap Identifier
- Variable-Bindings
- IP address of the SNMP agent

### Processed Standard SNMP Traps (RFC 1215)

| SNMP Trap  | Displayed in DFM Consoles As... |                      |
|------------|---------------------------------|----------------------|
|            | Symptom                         | Compound             |
| Cold Start | RepeatedRestarts                | OperationalException |
| Warm Start |                                 |                      |
| Link Up    | PortFlapping                    | OperationalException |
| Link Down  |                                 |                      |

## Processed and Pass-Through SNMP Traps

### Processed CISCO-STACK-MIB Traps

| SNMP Trap   | Displayed in DFM Consoles As... |                      |
|-------------|---------------------------------|----------------------|
|             | Symptom                         | Compound             |
| Module Up   | CardDown                        | OperationalException |
| Module Down |                                 |                      |

### Processed CISCO-ISDN-MIB Trap



#### Note

This CISCO-ISDN-MIB trap is processed only if you have downloaded and installed the latest Incremental Device Update (IDU) from the DFM download site: <http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm>.

| SNMP Trap             | Displayed in DFM Consoles As... |                      |
|-----------------------|---------------------------------|----------------------|
|                       | Symptom                         | Compound             |
| demandNbrLayer2Change | OperationallyDown               | OperationalException |



#### Note

This CISCO-ENTITY-FRU-CONTROL-MIB trap is processed only if you have downloaded and installed the latest Incremental Device Update (IDU) from the DFM download site: <http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm>.

| SNMP Trap              | Displayed in DFM Consoles As... |                      |
|------------------------|---------------------------------|----------------------|
|                        | Symptom                         | Compound             |
| cefcModuleStatusChange | OperationallyDown               | OperationalException |

## Pass-Through SNMP Traps

DFM treats the traps listed here as pass-through traps, but displays them in the Monitoring Console because of their relevance to fault monitoring. You can identify these traps because they are displayed in the Monitoring Console:

- Under the Class “SNMPTrap,” and
- With a Severity of one of the following:
  - InformAlarm
  - MajorAlarm
  - MinorAlarm

Pass-through traps become inactive if they do not reoccur for ten minutes. If you acknowledge the pass-through trap, it is removed from your Monitoring Console (but not from other Monitoring Console instances). If it becomes active again—in other words, it occurs again after being inactive for ten minutes—it will reappear on your Monitoring Console.

### Standard SNMP Traps (RFC 1215)

- Authentication Failure

### CISCO-STACK-MIB Traps

- IerAlarmOn
- IerAlarmOff
- ipPermitDeniedTrap
- sysConfigChangeTrap

### STP Traps

- STPnewRoot
- STPtopologyChange

### Repeater MIB Traps

- rptrHealth
- rptrGroupChange
- rptrResetEvent

**CISCO-RHINO-MIB Traps**

- ciscoLS1010ChassisFailureNotification
- ciscoLS1010ChassisChangeNotification

**CISCO-VTP-MIB Traps**

- vtpConfigRevNumberError
- rvtpConfigDigestError
- vtpServerDisabled
- vtpMtuTooBig
- vtpVlanRingNumberConfigConflict
- vtpVersionOneDeviceDetected
- vlanTrunkPortDynamicStatusChange

**CISCO-ENVMON-MIB Traps**

- ciscoEnvMonShutdownNotification

**CISCO-VLAN-MEMBERSHIP-MIB Traps**

- vmVmmpsChange

**CISCO-ACCESS-ENVMON-MIB Traps**

- caemTemperatureNotification
- caemVoltageNotification

**CISCO-CONFIG-MAN-MIB Traps**

- ciscoConfigManEvent

**CISCO-ENTITY-FRU-CONTROL-MIB**

- cevFan15540FTMP
- cevPortTransparent
- cevPortWave

## CISCO-CONTENT-ENGINE-MIB

**Note**

These CISCO-CONTENT-ENGINE-MIB pass-through traps are supported only if you have downloaded and installed the latest Incremental Device Update (IDU) from the DFM download site:

<http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm>.

- ciscoContentEngineWriteTransFailed
- ciscoContentEngineOverloadBypass

■ Processed and Pass-Through SNMP Traps