FXOS Faults

This chapter provides information about the faults that may be raised in FXOS.

fltFabricVlanReqVlanPermitUnresolved

Fault Code: F0019

Message

The VLAN permit does not reference any existing vlans.

Explanation

This fault occurs when a VLAN permit exists but there are no vnics by the name.

Recommended Action

Delete the VLAN permit, create the referenced VLAN (or ignore).

Fault Details

```
Severity: warning
Cause: vlan-permit-unresolved
mibFaultCode: 19
mibFaultName: fltFabricVlanReqVlanPermitUnresolved
moClass: fabric:VlanReq
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/vlan-req-[name]
```

fltFabricVlanGroupReqVlanGroupPermitUnresolved

Fault Code: F0021

Message

The VLAN permit does not reference any existing net groups.

Explanation

This fault occurs when a VLAN group permit exists but there are no referenced network groups.

Recommended Action

Delete the VLAN permit, create the referenced VLAN (or ignore).

Fault Details

```
Severity: warning
Cause: group-permit-unresolved
mibFaultCode: 21
mibFaultName: fltFabricVlanGroupReqVlanGroupPermitUnresolved
moClass: fabric:VlanGroupReq
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/vlan-group-req-[name]
```

fltDcxNsFailed

Fault Code: F0056

Message

Server [chassisId]/[slotId] (service profile: [assignedToDn]) virtual network interface allocation failed.Server [id] (service profile: [assignedToDn]) virtual network interface allocation failed.

Explanation

The adapter's vif-namespace activation failed due to insufficient resources. Cisco FPR Manager raises this fault when the number of deployed VIF resources exceeds the maximum VIF resources available on the adapter connected to the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the NS "size" and "used" resources to determine by how many vNICs the adapter exceeded the maximum.

Step 2 Unconfigure or delete all vNICs on the adapter above the maximum number.

Step 3 Add additional fabric uplinks from the IOM to the corresponding fabric interconnect and reacknowledge the chassis. This increases the "NS size" on the adapter.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: insufficient-resources
mibFaultCode: 56
mibFaultName: fltDcxNsFailed
moClass: dcx:Ns
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/dcxns-[switchId]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/dcxns-[switchId]
```

fltComputePhysicalInsufficientlyEquipped

Fault Code: F0057

Message

Server [id] (service profile: [assignedToDn]) has insufficient number of DIMMs, CPUs and/or adaptersServer [chassisId]/[slotId] (service profile: [assignedToDn]) has insufficient number of DIMMs, CPUs and/or adapters

Explanation

This fault typically occurs because Cisco FPR Manager has detected that the server has an insufficient number of DIMMs, CPUs, and/or adapters.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the DIMMs are installed in a supported configuration.

Step 2 Verify that an adapter and CPU are installed.

Step 3 Reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: insufficiently-equipped
mibFaultCode: 57
mibFaultName: fltComputePhysicalInsufficientlyEquipped
moClass: compute:Physical
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalIdentityUnestablishable

Fault Code: F0058

Message

Server [id] (service profile: [assignedToDn]) has an invalid FRUServer [chassisId]/[slotId] (service profile: [assignedToDn]) has an invalid FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported server or CPU.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that a supported server and/or CPU is installed.

Step 2 Verify that the Cisco FPR Manager capability catalog is up to date.

Step 3 Reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: identity-unestablishable
mibFaultCode: 58
mibFaultName: fltComputePhysicalIdentityUnestablishable
moClass: compute:Physical
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputeBoardPowerError

Fault Code: F0059

Message

Motherboard of server [chassisId]/[slotId] (service profile: [assignedToDn]) power: [operPower]Motherboard of server [id] (service profile: [assignedToDn]) power: [operPower]

Explanation

This fault typically occurs when the server power sensors have detected a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Make sure that the server is correctly installed in the chassis and that all cables are secure.

Step 2 If you reinstalled the server, reacknowledge it.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-problem
mibFaultCode: 59
mibFaultName: fltComputeBoardPowerError
moClass: compute:Board
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/rack-unit-[id]/board
```

fltComputeBoardPowerFail

Fault Code: F0060

Message

Motherboard of server [chassisId]/[slotId] (service profile: [assignedToDn]) power: [power]Motherboard of server [id] (service profile: [assignedToDn]) power: [power]

Explanation

This fault typically occurs when the power sensors on a blade server detect a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove the blade server from the chassis.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: power-problem
mibFaultCode: 60
mibFaultName: fltComputeBoardPowerFail
moClass: compute:Board
Type: environmental
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/rack-unit-[id]/board
```

fltComputeABoardThermalProblem

Fault Code: F0061

Message

Motherboard [faultQualifier] of server [chassisId]/[slotId] (service profile: [assignedToDn]) thermal: [thermal]Motherboard of server [id] (service profile: [assignedToDn]) thermal: [thermal]

Explanation

This fault typically occurs when the motherboard thermal sensors on a server detect a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the server fans are working properly.

Step 2 Wait for 24 hours to see if the problem resolves itself.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 61
mibFaultName: fltComputeABoardThermalProblem
moClass: compute:ABoard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]
```

fltComputeABoardPowerUsageProblem

Fault Code: F0062

Message

Motherboard [faultQualifier] of server [chassisId]/[slotId] (service profile: [assignedToDn]) powerUsage: [powerUsage]Motherboard of server [id] (service profile: [assignedToDn]) powerUsage: [powerUsage]

Explanation

This fault typically occurs when the motherboard power consumption exceeds certain threshold limits. At that time the power usage sensors on a server detect a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-problem
mibFaultCode: 62
mibFaultName: fltComputeABoardPowerUsageProblem
moClass: compute:ABoard
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]
```

fltComputePhysicalPowerProblem

Fault Code: F0063

Message

Server [id] (service profile: [assignedToDn]) oper state: [operState]Server [chassisId]/[slotId] (service profile: [assignedToDn]) oper state: [operState]

Explanation

This fault typically occurs when the server power sensors have detected a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Make sure that the server is correctly installed in the chassis and that all cables are secure.

Step 2 If you reinstalled the server, reacknowledge it.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-problem
mibFaultCode: 63
mibFaultName: fltComputePhysicalPowerProblem
moClass: compute:Physical
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalBiosPostTimeout

Fault Code: F0065

Message

Server [id] (service profile: [assignedToDn]) BIOS failed power-on self testServer [chassisId]/[slotId] (service profile: [assignedToDn]) BIOS failed power-on self test

Explanation

This fault typically occurs when the server has encountered a diagnostic failure.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the server. In Cisco FPR Manager GUI, you can access the POST results from the General tab for the server. In Cisco FPR Manager CLI, you can access the POST results through the show post command under the scope for the server.

Step 2 Reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 65
mibFaultName: fltComputePhysicalBiosPostTimeout
moClass: compute:Physical
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalDiscoveryFailed

Fault Code: F0066

Message

Server [id] (service profile: [assignedToDn]) discovery: [discovery]Server [chassisId]/[slotId] (service profile: [assignedToDn]) discovery: [discovery]

Explanation

This fault typically occurs for one of the following reasons:

- The shallow discovery that occurs when the server associated with service profile failed.
- The server is down.
- The data path is not working.
- Cisco FPR Manager cannot communicate with the CIMC on the server.
- The server cannot communicate with the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the FSM tab and the current state of the server and any FSM operations.

Step 2 Check the error descriptions and see if any server components indicate a failure.

Step 3 If the server or a server component has failed, do the following:

a. Check the operational state of the server.

b. If the server is not operable, re-acknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: discovery-failed
mibFaultCode: 66
mibFaultName: fltComputePhysicalDiscoveryFailed
moClass: compute:Physical
Type: operational
Callhome: diagnostic
```

```
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalAssociationFailed

Fault Code: F0067

Message

Service profile [assignedToDn] failed to associate with server [id]Service profile [assignedToDn] failed to associate with server [chassisId]/[slotId]

Explanation

This fault typically occurs for one of the following reasons:

- The service profile could not be associated with the server.
- The server is down.
- The data path is not working.
- Cisco FPR Manager cannot communicate with one or more of the fabric interconnect, the server, or a component on the server.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the FSM tab and the current state of the server and any FSM operations.

Step 2 If the server is stuck in an inappropriate state, such as booting, power cycle the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: association-failed
mibFaultCode: 67
mibFaultName: fltComputePhysicalAssociationFailed
moClass: compute:Physical
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalDisassociationFailed

Fault Code: F0068

Message

Failed to disassociate server [id]Failed to disassociate server [chassisId]/[slotId]

Explanation

This fault typically occurs for one of the following reasons:

- The server is down.
- The data path is not working.
- Cisco FPR Manager cannot communicate with one or more of the fabric interconnect, the server, or a component on the server.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the communication path to the server including fabric interconnect server ports, IOM link and the current state of the server

Step 2 If the server is stuck in an inappropriate state, such as booting, power cycle the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: disassociation-failed
mibFaultCode: 68
mibFaultName: fltComputePhysicalDisassociationFailed
moClass: compute:Physical
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalInoperable

Fault Code: F0069

Message

Server [id] (service profile: [assignedToDn]) health: [operability]Server [chassisId]/[slotId] (service profile: [assignedToDn]) health: [operability]

Explanation

This fault typically occurs when the server has encountered a diagnostic failure.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the server.In Cisco FPR Manager GUI, you can access the POST results from the General tab for the server. In Cisco FPR Manager CLI, you can access the POST results through the show post command under the scope for the server.

Step 2 Reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 69
mibFaultName: fltComputePhysicalInoperable
moClass: compute:Physical
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalUnassignedMissing

Fault Code: F0070

Message

Server [id] (no profile) missingServer [chassisId]/[slotId] (no profile) missing

Explanation

This fault typically occurs when the server, which is not associated with a service profile, was previously physically inserted in the slot, but cannot be detected by Cisco FPR Manager.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the server is physically present in the slot, remove and then reinsert it.

Step 2 If the server is not physically present in the slot, insert it.

Step 3 Reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: equipment-missing
mibFaultCode: 70
mibFaultName: fltComputePhysicalUnassignedMissing
moClass: compute:Physical
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalAssignedMissing

Fault Code: F0071

Message

Server [id] (service profile: [assignedToDn]) missingServer [chassisId]/[slotId] (service profile: [assignedToDn]) missing

Explanation

This fault typically occurs when the server, which is associated with a service profile, was previously physically inserted in the slot, but cannot be detected by Cisco FPR Manager.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the server is physically present in the slot, remove and then reinsert it.

Step 2 If the server is not physically present in the slot, reinsert it.

Step 3 Reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-missing
mibFaultCode: 71
mibFaultName: fltComputePhysicalAssignedMissing
moClass: compute:Physical
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalUnidentified

Fault Code: F0072

Message

Server [id] (service profile: [assignedToDn]) has an invalid FRU: [presence]Server [chassisId]/[slotId] (service profile: [assignedToDn]) has an invalid FRU: [presence]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported server or CPU.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that a supported server and/or CPU is installed.

Step 2 Verify that the Cisco FPR Manager capability catalog is up to date.

Step 3 Reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: identity-unestablishable
mibFaultCode: 72
mibFaultName: fltComputePhysicalUnidentified
```

```
moClass: compute:Physical
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalNetworkMisconfigured

Fault Code: F0075

Message

Server [id] (service profile: [assignedToDn]) has mis-configured network vif resourcesServer [chassisId]/[slotId] (service profile: [assignedToDn]) has mis-configured network vif resources

Explanation

This fault would occur when FPRM VIF-id Map is not the same as the VIF-id map deployed on the adaptor upon Full Backup-Restore etc.

Recommended Action

If you see this fault, take the following actions:

Step 1 Re-acknowledge the server. This will trigger Deep Discovery-Deep Association & will resolve the issue

Step 2 If the above actions did not resolve the issue, execute the **show tech-support** command and contact Cisco Technical Support.

Fault Details

```
Severity: minor
Cause: vif-ids-mismatch
mibFaultCode: 75
mibFaultName: fltComputePhysicalNetworkMisconfigured
moClass: compute:Physical
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputePhysicalAdapterMismatch

Fault Code: F0076

Message

Server [id] (service profile: [assignedToDn]) has invalid adapter combinatonServer [chassisId]/[slotId] (service profile: [assignedToDn]) has invalid adapter combination

Explanation

This fault typically occurs because Cisco FPR Manager has detected that the server has an invalid combination of Cisco VICs.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the valid adapter combinations are installed configuration.

Step 2 Reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: adaptor-mismatch
mibFaultCode: 76
mibFaultName: fltComputePhysicalAdapterMismatch
moClass: compute:Physical
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputeBoardCmosVoltageThresholdCritical

Fault Code: F0077

Message

Possible loss of CMOS settings: CMOS battery voltage on server [chassisId]/[slotId] is [cmosVoltage]Possible loss of CMOS settings: CMOS battery voltage on server [id] is [cmosVoltage]

Explanation

This fault is raised when the CMOS battery voltage has dropped to lower than the normal operating range. This could impact the clock and other CMOS settings.

Recommended Action

If you see this fault, replace the battery.

Fault Details

```
Severity: major
Cause: voltage-problem
mibFaultCode: 77
mibFaultName: fltComputeBoardCmosVoltageThresholdCritical
moClass: compute:Board
Type: environmental
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/rack-unit-[id]/board
```

fltComputeBoardCmosVoltageThresholdNonRecoverable

Fault Code: F0078

Message

Possible loss of CMOS settings: CMOS battery voltage on server [chassisId]/[slotId] is [cmosVoltage]Possible loss of CMOS settings: CMOS battery voltage on server [id] is [cmosVoltage]

Explanation

This fault is raised when the CMOS battery voltage has dropped quite low and is unlikely to recover. This impacts the clock and other CMOS settings.

Recommended Action

If you see this fault, replace the battery.

Fault Details

```
Severity: major
Cause: voltage-problem
mibFaultCode: 78
mibFaultName: fltComputeBoardCmosVoltageThresholdNonRecoverable
moClass: compute:Board
Type: environmental
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/rack-unit-[id]/board
```

fltComputeABoardMotherBoardVoltageThresholdUpperNonRecoverable

Fault Code: F0079

Message

Motherboard input voltage(12V/5V/3V) in server [id] is [voltage]Motherboard [faultQualifier] input voltage(12V/5V/3V) in server [chassisId]/[slotId] is [voltage]

Explanation

This fault is raised when one or more motherboard input voltages has become too high and is unlikely to recover.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: voltage-problem
mibFaultCode: 79
mibFaultName: fltComputeABoardMotherBoardVoltageThresholdUpperNonRecoverable
moClass: compute:ABoard
Type: environmental
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]

fltComputeABoardMotherBoardVoltageThresholdLowerNonRecoverable

Fault Code: F0080

Message

Motherboard input voltage(12V/5V/3V) in server [id] is [voltage]Motherboard [faultQualifier] input voltage(12V/5V/3V) in server [chassisId]/[slotId] is [voltage]

Explanation

This fault is raised when one or more motherboard input voltages has dropped too low and is unlikely to recover.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: voltage-problem
mibFaultCode: 80
mibFaultName: fltComputeABoardMotherBoardVoltageThresholdLowerNonRecoverable
moClass: compute:ABoard
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]

fltComputeABoardMotherBoardVoltageUpperThresholdCritical

Fault Code: F0081

Message

Motherboard input voltage(12V/5V/3V) in server [id] is [voltage]Motherboard [faultQualifier] input voltage(12V/5V/3V) in server [chassisId]/[slotId] is [voltage]

Explanation

This fault is raised when one or more motherboard input voltages has crossed upper critical thresholds.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: minor
Cause: voltage-problem
mibFaultCode: 81
mibFaultName: fltComputeABoardMotherBoardVoltageUpperThresholdCritical
moClass: compute:ABoard
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]
```

fltComputeABoardMotherBoardVoltageLowerThresholdCritical

Fault Code: F0082

Message

Motherboard input voltage(12V/5V/3V) in server [id] is [voltage]Motherboard [faultQualifier] input voltage(12V/5V/3V) in server [chassisId]/[slotId] is [voltage]

Explanation

This fault is raised when one or more motherboard input voltages has crossed lower critical thresholds.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: minor
Cause: voltage-problem
mibFaultCode: 82
mibFaultName: fltComputeABoardMotherBoardVoltageLowerThresholdCritical
moClass: compute:ABoard
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]
Affected MO: sys/rack-unit-[id]/board
Affected MO: sys/rack-unit-[id]/ext-board-[id]
```

fltComputePoolEmpty

Fault Code: F0083

Message

server pool [name] is empty

Explanation

This fault typically occurs when the selected server pool does not contain any servers.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the qualifier settings in the server pool policy qualifications. If the policy was modified after the server was discovered, reacknowledge the server.

Step 2 Manually associate the service profile with a server.

Step 3 If the server pool is not used, ignore the fault.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: empty-pool
mibFaultCode: 83
mibFaultName: fltComputePoolEmpty
moClass: compute:Pool
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/compute-pool-[name]
```

fltComputePhysicalPost-failure

Fault Code: F0084

Message

Server [id] POST or diagnostic failureServer [chassisId]/[slotId] POST or diagnostic failure

Explanation

This fault typically occurs when the server has encountered a diagnostic failure or an error during POST.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the server. In Cisco FPR Manager GUI, you can access the POST results from the General tab for the server. In Cisco FPR Manager CLI, you can access the POST results through the show post command under the scope for the server.

Step 2 Reboot the server.

Step 3 If the above actions did not resolve the issue, execute the **show tech-support** command and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: equipment-problem
mibFaultCode: 84
mibFaultName: fltComputePhysicalPostFailure
moClass: compute:Physical
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]
Affected MO: sys/rack-unit-[id]
```

fltComputeRtcBatteryInoperable

Fault Code: F0085

Message

RTC Battery on server [chassisId]/[slotId] operability: [operability]

Explanation

This fault is raised when the CMOS battery voltage is below the normal operating range. This impacts the system clock.

Recommended Action

If you see this fault, replace the CMOS battery.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 85
mibFaultName: fltComputeRtcBatteryInoperable
moClass: compute:RtcBattery
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/rtc-battery
Affected MO: sys/rack-unit-[id]/board/rtc-battery
```

fltComputeIOHubThermalNonCritical

Fault Code: F0086

Message

IO Hub on server [chassisId]/[slotId] temperature: [thermal]

Explanation

This fault is raised when the IO controller temperature is outside the upper or lower non-critical threshold.

Recommended Action

If you see this fault, monitor other environmental events related to this server and ensure the temperature ranges are within recommended ranges.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 86
mibFaultName: fltComputeIOHubThermalNonCritical
moClass: compute:IOHub
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/iohub
Affected MO: sys/rack-unit-[id]/board/iohub
```

fltComputeIOHubThermalThresholdCritical

Fault Code: F0087

Message

IO Hub on server [chassisId]/[slotId] temperature: [thermal]

Explanation

This fault is raised when the IO controller temperature is outside the upper or lower critical threshold.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor other environmental events related to the server and ensure the temperature ranges are within recommended ranges.

Step 2 Consider turning off the server for a while if possible.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 87
mibFaultName: fltComputeIOHubThermalThresholdCritical
moClass: compute:IOHub
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/iohub
Affected MO: sys/rack-unit-[id]/board/iohub
```

fltComputeIOHubThermalThresholdNonRecoverable

Fault Code: F0088

Message

IO Hub on server [chassisId]/[slotId] temperature: [thermal]

Explanation

This fault is raised when the IO controller temperature is outside the recoverable range of operation.

Recommended Action

If you see this fault, take the following actions:

Step 1 Shutdown the server immediately.

Step 2 Create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 88
mibFaultName: fltComputeIOHubThermalThresholdNonRecoverable
moClass: compute:IOHub
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/iohub
Affected MO: sys/rack-unit-[id]/board/iohub
```

fltFirmwareBootUnitPowerCycleRequired

Fault Code: F0089

Message

Board controller upgraded, manual a/c power cycle required on server [serverId]

Explanation

None set.

Recommended Action

If you see this fault, take the following actions:

Step 1 Power cycle the board controller.

Fault Details

```
Severity: critical
Cause: board-ctrl-upgraded
mibFaultCode: 89
mibFaultName: fltFirmwareBootUnitPowerCycleRequired
moClass: firmware:BootUnit
Type: generic
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: capabilities/ep/mgmt-ext/fw-boot-def/bootunit-[type]
Affected MO: capabilities/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/fpga/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/rommon/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fw-system/fw-boot-def/bootunit-[type]
Affected MO: sys/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/switch-[id]/mgmt/fw-boot-def/bootunit-[type]

fltCimcvmediaActualMountEntryVmediaMountFailed

Fault Code: F0090

Message

Server [chassisId]/[slotId] (service profile: [assignedToDn]) vmedia mapping [mappingName] has failed.Server [id] (service profile: [assignedToDn]) vmedia mapping [mappingName] has failed.

Explanation

None set.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the mount related details(remote server ip, port, path & file is reachable) and reack the server .

Fault Details

Severity: major
Cause: vmedia-mount-inaccessible
mibFaultCode: 90
mibFaultName: fltCimcvmediaActualMountEntryVmediaMountFailed
moClass: cimcvmedia:ActualMountEntry
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/blade-[slotId]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/slot-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/chassis-[id]/sw-slot-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO: sys/fex-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/fex-[id]/slot-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO: sys/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/rack-unit-[id]/adaptor-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/rack-unit-[id]/boardController/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]

Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO:
sys/rack-unit-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]
Affected MO: sys/switch-[id]/mgmt/actual-mount-list/actual-mount-entry-[virtualDiskId]

fltFirmwarePackItemImageMissing

Fault Code: F0095

Message

[type] image with vendor [hwVendor], model [hwModel] and version [version] is deleted

Explanation

This fault typically occurs when the image to which a firmware package item refers is missing.

Recommended Action

If you see this fault, take the following actions:

Step 1 In Cisco FPR Manager GUI, navigate to the Firmware Management Images tab and determine whether the missing image is available or not.

Step 2 If the image is present, click on it to verify the model and vendor.

Step 3 If the image for the required model and vendor is not present, download that image or bundle from the Cisco.com website.

Step 4 If the image is present and the fault persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: image-deleted
mibFaultCode: 95
mibFaultName: fltFirmwarePackItemImageMissing
moClass: firmware:PackItem
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/fw-catalog-pack-[name]/pack-image-[hwVendor]|[hwModel]|[type]
Affected MO: org-[name]/fw-host-pack-[name]/pack-image-[hwVendor]|[hwModel]|[type]
Affected MO: org-[name]/fw-infra-pack-[name]/pack-image-[hwVendor]|[hwModel]|[type]
Affected MO: org-[name]/fw-mgmt-pack-[name]/pack-image-[hwVendor]|[hwModel]|[type]
Affected MO: org-[name]/fw-platform-pack-[name]/pack-image-[hwVendor]|[hwModel]|[type]
Affected MO: org-[name]/pack-image-[hwVendor]|[hwModel]|[type]

fltFirmwareUpdatableImageUnusable

Fault Code: F0096

Message

backup image is unusable. reason: [operStateQual]

Explanation

This fault typically occurs when the backup firmware image on an endpoint is unusable.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the fault and the error message on the FSM tab for the endpoint to determine why the firmware image is unusable.

Step 2 If the firmware image is bad or corrupted, download another copy from the Cisco website and update the backup version on the endpoint with the new image.

Step 3 If the image is present and the fault persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: image-unusable
mibFaultCode: 96
mibFaultName: fltFirmwareUpdatableImageUnusable
moClass: firmware:Updatable
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/bios/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/bios/fw-updatable
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl/fw-updatable
Affected MO: sys/chassis-[id]/fpga/fw-updatable
Affected MO: sys/chassis-[id]/rommon/fw-updatable
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fw-updatable
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fw-updatable
Affected MO: sys/fex-[id]/mgmt/fw-updatable
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fw-updatable
Affected MO: sys/mgmt/fw-updatable
Affected MO: sys/os-ctrl/fw-updatable
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fw-updatable
Affected MO: sys/rack-unit-[id]/bios/fw-updatable
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fw-updatable
Affected MO: sys/rack-unit-[id]/ext-board-[id]/bios/fw-updatable
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fw-updatable
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fw-updatable
Affected MO: sys/rack-unit-[id]/mgmt/fw-updatable
Affected MO: sys/rack-unit-[id]/os-ctrl/fw-updatable
Affected MO: sys/switch-[id]/mgmt/fw-updatable
```

fltFirmwareBootUnitCantBoot

Fault Code: F0097

Message

unable to boot the startup image. End point booted with backup image

Explanation

This fault typically occurs when the startup firmware image on an endpoint is corrupted or invalid, and the endpoint cannot boot from that image.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the fault and the error message on the FSM tab for the endpoint to determine why the firmware image is unusable. The error message usually includes an explanation for why the endpoint could not boot from the startup image, such as Bad-Image or Checksum Failed.

Step 2 If the firmware image is bad or corrupted, download another copy from the Cisco website and update the startup version on the endpoint with the new image.

Step 3 If the fault persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: image-cannot-boot
mibFaultCode: 97
mibFaultName: fltFirmwareBootUnitCantBoot
moClass: firmware:BootUnit
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: capabilities/ep/mgmt-ext/fw-boot-def/bootunit-[type]
Affected MO: capabilities/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
```

Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/fpga/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/rommon/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fw-system/fw-boot-def/bootunit-[type]
Affected MO: sys/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/switch-[id]/mgmt/fw-boot-def/bootunit-[type]

fltFirmwareBootUnitActivateStatusFailed

Fault Code: F0098

Message

Activation failed and Activate Status set to failed.

Explanation

This fault typically occurs for the following reasons: when firmware activation fails, or if the after activation running image is not the corresponding startup image.

- Firmware activation failed.
- The version of firmware running on the server after activation is not the version listed in Cisco FPR Manager as the startup image.

Recommended Action

If you see this fault, take the following actions:

Step 1 Go to FSM tab for the endpoint on which the fault is raised and review the error description for the reason that the activation failed.

Step 2 If the FSM failed, review the error message in the FSM.

Step 3 If possible, correct the problem described in the error message.

Step 4 If the problem persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major

Cause: activation-failed
mibFaultCode: 98
mibFaultName: fltFirmwareBootUnitActivateStatusFailed
moClass: firmware:BootUnit
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: capabilities/ep/mgmt-ext/fw-boot-def/bootunit-[type]
Affected MO: capabilities/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootun
it-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/fpga/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/rommon/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/fw-system/fw-boot-def/bootunit-[type]
Affected MO: sys/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/graphics-card-[id]/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/bios/fw-boot-def/bootunit-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/mgmt/fw-boot-def/bootunit-[type]
Affected MO: sys/rack-unit-[id]/os-ctrl/fw-boot-def/bootunit-[type]
Affected MO: sys/switch-[id]/mgmt/fw-boot-def/bootunit-[type]

fltFirmwareStatusCimcFirmwareMismatch

Fault Code: F0099

Message

Aggregate blade CIMC firmware mismatch. Firmware: [cimcVersion]

Explanation

This fault typically occurs when the CIMC firmware image on master and slave node in an aggregate blade does not match.

Recommended Action

Update and activate master and slave CIMC to same firmware version.

Fault Details

```
Severity: critical
Cause: cimc-firmware-mismatch
mibFaultCode: 99
mibFaultName: fltFirmwareStatusCimcFirmwareMismatch
moClass: firmware:Status
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/fw-status
Affected MO: sys/chassis-[id]/slot-[id]/fw-status
Affected MO: sys/fex-[id]/slot-[id]/fw-status
Affected MO: sys/fw-status
Affected MO: sys/fw-system/fw-status
Affected MO: sys/rack-unit-[id]/fw-status
Affected MO: sys/switch-[id]/fw-status
```

fltFirmwareStatusPldFirmwareMismatch

Fault Code: F0100

Message

Aggregate blade board controller firmware mismatch. Firmware: [pldVersion]

Explanation

This fault typically occurs when the board controller firmware image on master and slave node in an aggregate blade does not match.

Recommended Action

Update master and slave board controller to same firmware version.

Fault Details

```
Severity: critical
Cause: pld-firmware-mismatch
mibFaultCode: 100
mibFaultName: fltFirmwareStatusPldFirmwareMismatch
moClass: firmware:Status
Type: management
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/fw-status
Affected MO: sys/chassis-[id]/slot-[id]/fw-status
Affected MO: sys/fex-[id]/slot-[id]/fw-status
Affected MO: sys/fw-status
Affected MO: sys/fw-system/fw-status
Affected MO: sys/rack-unit-[id]/fw-status
Affected MO: sys/switch-[id]/fw-status

fltFirmwareAutoSyncPolicyDefaultHostPackageMissing

Fault Code: F0101

Message

Default host firmware package is missing or deleted.

Explanation

This fault typically occurs for the following reasons: when Auto Firmware Sync Policy is set Auto-acknowledge or User-acknowledge and default host firmware pack is not available.

- Auto Firmware Sync is not happening.
- Default host firmware package is missing or deleted.

Recommended Action

If you see this fault, take the following actions:

Step 1 Go to Servers tab and expand policies node. Select Host Firmware Packages under policies node.

Step 2 If the FSM failed, review the error message in the FSM.

Step 3 Create a host firmware package with name 'default'. If the problem persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: default-hostpack-missing
mibFaultCode: 101
mibFaultName: fltFirmwareAutoSyncPolicyDefaultHostPackageMissing
moClass: firmware:AutoSyncPolicy
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/fw-auto-sync

fltPowerChassisMemberPowerGroupCapInsufficient

Fault Code: F0149

Message

Chassis [id] cannot be capped as group cap is low. Please consider raising the cap.

Explanation

This fault typically occurs when an updated group cap is insufficient to meet the minimum hardware requirements and a chassis that has just been added to the power group cannot be capped as a result.

Recommended Action

If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.

Step 2 Reduce the number of blade servers or chassis in the Cisco FPR instance.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: group-cap-insufficient
mibFaultCode: 149
mibFaultName: fltPowerChassisMemberPowerGroupCapInsufficient
moClass: power:ChassisMember
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]/ch-member-[id]
```

fltPowerChassisMemberChassisFirmwareProblem

Fault Code: F0150

Message

Chassis [id] cannot be capped as at least one of the CMC or CIMC or BIOS firmware version is less than 1.4. Please upgrade the firmware for cap to be applied.

Explanation

This fault typically occurs when the CIMC firmware on a server is an earlier release than Cisco FPR, Release 1.4.

Recommended Action

If you see this fault, consider upgrading the CIMC firmware, and the entire Cisco FPR instance if necessary, to Cisco FPR, Release 1.4 or later.

Fault Details

```
Severity: major
Cause: old-chassis-component-firmware
mibFaultCode: 150
mibFaultName: fltPowerChassisMemberChassisFirmwareProblem
moClass: power:ChassisMember
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]/ch-member-[id]
```

fltPowerBudgetFirmwareMismatch

Fault Code: F0151

Message

Firmware on blade [chassisId]/[slotId] does not allow chassis level power capping. Please consider upgrading to at least 1.4 version

Explanation

This fault typically occurs when the CIMC or BIOS firmware on a server is an earlier release than Cisco FPR, Release 1.4.

Recommended Action

If you see this fault, consider upgrading the CIMC firmware, and the entire Cisco FPR instance if necessary, to Cisco FPR, Release 1.4 or later.

Fault Details

```
Severity: major
Cause: old-firmware
mibFaultCode: 151
mibFaultName: fltPowerBudgetFirmwareMismatch
moClass: power:Budget
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget
```

fltPowerChassisMemberChassisPsuInsufficient

Fault Code: F0152

Message

Chassis [id] cannot be capped as at least two PSU need to be powered

Explanation

This fault typically occurs when at least two PSUs are not powered on.

Recommended Action

If you see this fault, insert at least two PSUs and power them on.

Fault Details

```
Severity: major
Cause: psu-insufficient
mibFaultCode: 152
mibFaultName: fltPowerChassisMemberChassisPsuInsufficient
moClass: power:ChassisMember
Type: environmental
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]/ch-member-[id]

fltPowerBudgetChassisPsuInsufficient

Fault Code: F0153

Message

Chassis [id] cannot be capped as the available PSU power is not enough for the chassis and the blades. Please correct the problem by checking input power or replace the PSU

Explanation

This fault typically occurs when the available PSU power is not enough to deploy the power budget of chassis and blades.

Recommended Action

If you see this fault, check the PSU input power or replace the PSU.

Fault Details

Severity: major
Cause: psu-insufficient
mibFaultCode: 153
mibFaultName: fltPowerBudgetChassisPsuInsufficient
moClass: power:Budget
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget

fltPowerChassisMemberChassisPsuRedundanceFailure

Fault Code: F0154

Message

Chassis [id] was configured for redundancy, but running in a non-redundant configuration.

Explanation

This fault typically occurs when chassis power redundancy has failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Consider adding more PSUs to the chassis.

Step 2 Replace any non-functional PSUs.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: psu-redundancy-fail
mibFaultCode: 154
mibFaultName: fltPowerChassisMemberChassisPsuRedundanceFailure
moClass: power:ChassisMember
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]/ch-member-[id]
```

fltPowerBudgetPowerBudgetCmcProblem

Fault Code: F0155

Message

Power cap application failed for chassis [id]

Explanation

This fault typically occurs when the server CIMC has failed to enforce the configured power cap.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the power consumption of the chassis. If the chassis is consuming significantly more power than configured in the power cap, consider reducing the group cap so that the power consumption of other chassis consumption can be reduced to make up for the increase.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file for Cisco FPR Manager and the chassis and then contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-cap-fail
mibFaultCode: 155
mibFaultName: fltPowerBudgetPowerBudgetCmcProblem
moClass: power:Budget
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget
```

fltPowerBudgetPowerBudgetBmcProblem

Fault Code: F0156

Message

Power cap application failed for server [chassisId]/[slotId]Power cap application failed for server [id]

Explanation

This fault typically occurs when the server CIMC or BIOS has failed to enforce the configured power cap.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the power consumption of the blade server. If the server is consuming significantly more power than configured in the power cap, switch to a manual per blade cap configuration. If the power consumption is still too high, consider reducing the group cap so that the power consumption of other chassis consumption can be reduced to make up for the increase.

Step 2 If the power consumption is still too high, the CIMC or BIOS software is likely faulty.

Step 3 Create a **show tech-support** file for Cisco FPR Manager and the chassis and then contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-cap-fail
mibFaultCode: 156
mibFaultName: fltPowerBudgetPowerBudgetBmcProblem
moClass: power:Budget
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget
```

fltPowerBudgetPowerCapReachedCommit

Fault Code: F0157

Message

P-State lowered as consumption hit power cap for server [chassisId]/[slotId]P-State lowered as consumption hit power cap for server [id]

Explanation

This fault typically occurs when Cisco FPR Manager is actively capping the power for a blade server.

Recommended Action

If you see this fault, no action is needed.

Fault Details

```
Severity: info
Cause: power-consumption-hit-limit
mibFaultCode: 157
mibFaultName: fltPowerBudgetPowerCapReachedCommit
moClass: power:Budget
Type: environmental
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget

fltPowerBudgetTStateTransition

Fault Code: F0158

Message

Blade [chassisId]/[slotId] has been severely throttled. CIMC can recover if budget is redeployed to the blade or by rebooting the blade. If problem persists, please ensure that OS is ACPI compliantRack server [id] has been severely throttled. CIMC can recover if budget is redeployed to the blade or by rebooting the blade. If problem persists, please ensure that OS is ACPI compliant

Explanation

This fault typically occurs when the processor T-state is used to severely throttle the CPU.

Recommended Action

If you see this fault, take the following actions:

Step 1 Redeploy the power budget for the affected power group, blade server, or chassis.

Step 2 If the problem persists, reboot the blade server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: no-ack-from-bios
mibFaultCode: 158
mibFaultName: fltPowerBudgetTStateTransition
moClass: power:Budget
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget

fltPowerBudgetPowerBudgetDiscFail

Fault Code: F0159

Message

Insufficient power available to discover server [chassisId]/[slotId]Insufficient power available to discover server [id]

Explanation

This fault typically occurs when discovery fails due to unavailable power in the group.

Recommended Action

If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.

Step 2 Reduce the number of blade servers or chassis in the Cisco FPR instance.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-cap-fail
mibFaultCode: 159
mibFaultName: fltPowerBudgetPowerBudgetDiscFail
moClass: power:Budget
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget
```

fltPowerPolicyPowerPolicyApplicationFail

Fault Code: F0160

Message

Insufficient budget to apply no-cap priority through policy [name]. Blades will continue to be capped

Explanation

This fault occurs when a power policy cannot be applied to one or more blade servers. The affected blade servers cannot operate normally without power capping due to the limited power budget for those servers.

Recommended Action

If you see this fault, take the following actions:

Step 1 Increase the power budget for the blade servers in the power policy.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: no-cap-fail
mibFaultCode: 160
mibFaultName: fltPowerPolicyPowerPolicyApplicationFail
moClass: power:Policy
Type: environmental
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/power-policy-[name]

fltPowerGroupPowerGroupInsufficientBudget

Fault Code: F0161

Message

insufficient budget for power group [name]

Explanation

This fault typically occurs when the group cap is insufficient to meet the minimum hardware requirements.

Recommended Action

If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.

Step 2 Reduce the number of blade servers or chassis in the Cisco FPR instance.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: power-cap-fail
mibFaultCode: 161
mibFaultName: fltPowerGroupPowerGroupInsufficientBudget
moClass: power:Group
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]

fltPowerGroupPowerGroupBudgetIncorrect

Fault Code: F0162

Message

admin committed insufficient for power group [name], using previous value [operCommitted]

Explanation

This fault typically occurs when the group cap is insufficient to meet the minimum hardware requirements. Under these circumstances, Cisco FPR Manager uses the previously entered group cap for provisioning.

Recommended Action

If you see this fault, take the following actions:

Step 1 Consider increasing the group cap.

Step 2 Reduce the number of blade servers or chassis in the Cisco FPR instance.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-cap-fail
mibFaultCode: 162
mibFaultName: fltPowerGroupPowerGroupBudgetIncorrect
moClass: power:Group
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/power-ep/group-[name]
```

fltPowerBudgetChassisPsuMixedMode

Fault Code: F0163

Message

Chassis [id] has a mix of high-line and low-line PSU input power sources.

Explanation

This fault occurs when there is a mix of high-line and low-line PSU input power source.

Recommended Action

If you see this fault, change all the PSU input power sources to have same mode

Fault Details

```
Severity: critical
Cause: psu-mixed-mode
mibFaultCode: 163
mibFaultName: fltPowerBudgetChassisPsuMixedMode
moClass: power:Budget
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/budget
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/budget
Affected MO: sys/chassis-[id]/budget
Affected MO: sys/rack-unit-[id]/budget
Affected MO: sys/rack-unit-[id]/ext-board-[id]/budget
```

fltSmSlotSmaHeartbeat

Fault Code: F0185

Message

Slot [slotId], is not operationally up

Explanation

This fault occurs when a slot is not operationally up.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reboot the Blade associated with the Slot

Fault Details

```
Severity: major
Cause: slot-not-responding
mibFaultCode: 185
mibFaultName: fltSmSlotSmaHeartbeat
moClass: sm:Slot
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]
```

fltSmSlotBladeNotWorking

Fault Code: F0186

Message

Slot [slotId] has a fault, either blade discovery is failed or service profile association is failed

Explanation

This fault occurs when a blade discovery is failed or service profile association is failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reboot the blade associated with the slot

Fault Details

```
Severity: major
Cause: blade-not-working
mibFaultCode: 186
mibFaultName: fltSmSlotBladeNotWorking
moClass: sm:Slot
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]
```

fltSmSlotDiskFormatFailed

Fault Code: F0187

Message

Disk format is failed on slot [slotId]

Explanation

This fault occurs when a blade disk formatting is failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reformat disk or need disk replacement

Fault Details

```
Severity: major
Cause: disk-format-failed
mibFaultCode: 187
mibFaultName: fltSmSlotDiskFormatFailed
moClass: sm:Slot
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]
```

fltSmSlotBladeSwap

Fault Code: F0188

Message

Blade swap detected on slot [slotId]

Explanation

This fault occurs during the blade swap.

Recommended Action

If you see this fault, take the following action:

Step 1 1. Insert the correct blade

Step 2 2. Reformat the disk

Fault Details

```
Severity: critical
Cause: blade-swap
mibFaultCode: 188
mibFaultName: fltSmSlotBladeSwap
moClass: sm:Slot
Type: server
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]

fltSmSecSvcSwitchConfigFail

Fault Code: F0189

Message

Switch configuration failed for Logical Device. Error: [switchErrorMsg]

Explanation

This fault occurs when switch configuration fails for a LogicalDevice.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: critical
Cause: switch-config-failed
mibFaultCode: 189
mibFaultName: fltSmSecSvcSwitchConfigFail
moClass: sm:SecSvc
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc

fltSmAppInstanceAppNotResponding

Fault Code: F0190

Message

App Instance [appName] on slot [slotId], is not responding

Explanation

This fault occurs when an app instance is not responding.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: appinstance-not-responding
mibFaultCode: 190
mibFaultName: fltSmAppInstanceAppNotResponding
moClass: sm:AppInstance

Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmAppInstanceAppInstallFailed

Fault Code: F0191

Message

Failed to install App Instance [appName] on slot [slotId]. Error: [errorMsg]

Explanation

This fault occurs when an app instance installation fails.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: appinstance-install-failed
mibFaultCode: 191
mibFaultName: fltSmAppInstanceAppInstallFailed
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmAppInstanceAppStartFailed

Fault Code: F0192

Message

Failed to start App Instance [appName] on slot [slotId]. Error: [errorMsg]

Explanation

This fault occurs when an app instance start fails.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: appinstance-start-failed
mibFaultCode: 192

mibFaultName: fltSmAppInstanceAppStartFailed
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmAppInstanceAppUpdateFailed

Fault Code: F0193

Message

Failed to update App Instance [appName] on slot [slotId]. Error: [errorMsg]

Explanation

This fault occurs when an app instance updation fails.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: appinstance-update-failed
mibFaultCode: 193
mibFaultName: fltSmAppInstanceAppUpdateFailed
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmAppInstanceAppStopFailed

Fault Code: F0194

Message

Failed to stop App Instance [appName] on slot [slotId]. Error: [errorMsg]

Explanation

This fault occurs when an app instance stop fails.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major

Cause: appinstance-stop-failed
mibFaultCode: 194
mibFaultName: fltSmAppInstanceAppStopFailed
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmAppInstanceAppInstanceError

Fault Code: F0195

Message

Error in App Instance [appName]. [errorMsg]

Explanation

This fault occurs when an app instance is in a non-terminal error state.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: minor
Cause: appinstance-error
mibFaultCode: 195
mibFaultName: fltSmAppInstanceAppInstanceError
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]

fltSmLogicalDeviceIncompleteConfig

Fault Code: F0196

Message

Logical Device [name] is not configured correctly. Error [errorMsg]

Explanation

This fault occurs when a logical device is not configured correctly.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: logical-device-incomplete-configuration
mibFaultCode: 196
mibFaultName: fltSmLogicalDeviceIncompleteConfig
moClass: sm:LogicalDevice
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/ld-[name]
```

fltSmLogicalDeviceLogicalDeviceError

Fault Code: F0197

Message

Error in Logical Device [name]. [errorMsg]

Explanation

This fault occurs when a logical device is in a non-terminal error state.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: minor
Cause: logical-device-error
mibFaultCode: 197
mibFaultName: fltSmLogicalDeviceLogicalDeviceError
moClass: sm:LogicalDevice
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/ld-[name]
```

fltSmAppLicenseAgreementNotAccepted

Fault Code: F0198

Message

End User License Agreement not accepted for Application [name].[version]

Explanation

This fault occurs when an application requiring End User License Agreement(EULA) is downloaded but EULA is yet to be accepted.

Recommended Action

If you see this fault, take the following actions:

Step 1 Accept the license aggrement for this application

Fault Details

```
Severity: major
Cause: license-agreement-not-accepted
mibFaultCode: 198
mibFaultName: fltSmAppLicenseAgreementNotAccepted
moClass: sm:App
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/app-[name]-[version]
Affected MO: sys-secsvc/slot-[slotId]/app-inst-[appInstId]/app-[name]-[version]
```

fltSmAppInstanceAppInstanceUnsupported

Fault Code: F0199

Message

App Instance [appName] on slot [slotId] is not supported in the current bundle. Error: [errorMsg]

Explanation

This fault occurs when an app instance is not supported in the current platform bundle

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: appinstance-unsupported
mibFaultCode: 199
mibFaultName: fltSmAppInstanceAppInstanceUnsupported
moClass: sm:AppInstance
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/slot-[slotId]/app-inst-[appName]
```

fltSmAppAppMetaCorrupted

Fault Code: F0200

Message

The application [appId] cannot be reloaded.

Explanation

This fault occurs when an application meta data cannot be reloaded.

Recommended Action

If you see this fault, take the following actions:

Step 1 Re-download the application from a trusted source

Fault Details

```
Severity: major
Cause: app-meta-corrupted
mibFaultCode: 200
mibFaultName: fltSmAppAppMetaCorrupted
moClass: sm:App
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sec-svc/app-[name]-[version]
Affected MO: sys-secsvc/slot-[slotId]/app-inst-[appInstId]/app-[name]-[version]
```

fltSwVlanPortNsVLANCompNotSupport

Fault Code: F0299

Message

VLAN Port Count Optimization is not supported

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: critical
Cause: no-vlan-optimization
mibFaultCode: 299
mibFaultName: fltSwVlanPortNsVLANCompNotSupport
moClass: sw:VlanPortNs
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/vlan-port-ns
```

fltDcxVlfLinkState

Fault Code: F0300

Message

Virtual interface [id] link state is down

Explanation

This fault occurs when Cisco FPR cannot send or receive data through an uplink port.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reenable the uplink port that failed.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: vif-down
mibFaultCode: 300
mibFaultName: fltDcxVIfLinkState
moClass: dcx:VIf
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/ext-eth-[id]/vif-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/fcoe/vif-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/vif-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]/fcoe/vif-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]/vif-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-service-eth-[id]/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/ext-eth-[id]/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/fcoe/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]/fcoe/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]/vif-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-service-eth-[id]/vif-[id]
```

fltVnicEtherConfig-failed

Fault Code: F0314

Message

Eth vNIC [name], service profile [name] failed to apply configuration

Explanation

This fault typically occurs when Cisco FPR Manager could not place the vNIC on the vCon.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the server was successfully discovered.

Step 2 Verify that the correct type of adapters are installed on the server.

Step 3 Confirm that the vCon assignment is correct.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: configuration-failed
mibFaultCode: 314
mibFaultName: fltVnicEtherConfigFailed
moClass: vnic:Ether
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]
```

fltVnicEtherPinningMismatch

Fault Code: F0315

Message

Hard pinning target for eth vNIC [name], service profile [name] does not have all the required vlans configured

Explanation

This fault occurs when one or more VLANs required by vNIC in a service profile are not configured on the target uplink port or port channel for a hard-pinned LAN pin group.

Recommended Action

If you see this fault, take the following actions:

Step 1 In the LAN Uplinks Manager of the Cisco FPR Manager GUI, configure all of the VLANs in the vNIC in the target uplink port or port channel for the LAN pin group. If you prefer to use the Cisco FPR Manager CLI, navigate to scope **/eth-uplink/vlan** and create the required member ports for the LAN pin group.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: pinning-mismatch
mibFaultCode: 315
mibFaultName: fltVnicEtherPinningMismatch
moClass: vnic:Ether
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]
```

fltVnicEtherPinningMisconfig

Fault Code: F0316

Message

Hard pinning target for eth vNIC [name], service profile [name] is missing or misconfigured

Explanation

This fault occurs when one or more vNIC target uplink ports or port channels for a hard-pinned LAN pin group are either missing or misconfigured as the wrong port type.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the LAN pin group configuration.

Step 2 Correct the configuration of the port and port channels in the pin group.

Step 3 Ensure that all required vLANs are allowed on the target ports or port channels.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: pinning-misconfig
mibFaultCode: 316
mibFaultName: fltVnicEtherPinningMisconfig
moClass: vnic:Ether
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]
```

fltVnicEtherIfVlanAccessFault

Fault Code: F0317

Message

The named vlan [name] for vNIC [name] cannot be accessed from org [name]

Explanation

This fault typically occurs when a Service Profile's vnic interface (LAN) is resolvable but the service profile does not have access to the vlan. In this case, the default vlan will be used.

Recommended Action

This fault will be removed if you perform one of the following actions:

Step 1 Change the vnic's interface name to a VLAN that you have access to.

Step 2 If you wish to use the default vlan, change the vnic's interface name to default.

Step 3 Configure access to the named vlan by creating a vlan permit or vlan group permit in the service profile's org (or a parent org).

Fault Details

```
Severity: major
Cause: inaccessible-vlan-referenced
mibFaultCode: 317
mibFaultName: fltVnicEtherIfVlanAccessFault
moClass: vnic:EtherIf
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/lan/network-sets/fabric-network-[name]/fabric-network-def-[name]/vm-network-def
-[name]/if-[name]
Affected MO: fabric/lan/profiles/vnic-[name]/if-[name]
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/lan-conn-templ-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ipc-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ipc-[name]/if-[name]
```

fltVnicEtherIfVlanUnresolvable

Fault Code: F0318

Message

The named vlan [name] for vNIC [name] cannot be resolved

Explanation

This fault (warning) occurs when a Service Profile's vnic interface (LAN) is unresolvable. In this case, the default vlan will be used as the operational vlan.

Recommended Action

This fault will be removed if you perform one of the following actions:

Step 1 Change the vnic interface name to an existing VLAN.

Step 2 Create the named vlan .

Fault Details

```
Severity: warning
Cause: referenced-vlan-unresolvable
mibFaultCode: 318
mibFaultName: fltVnicEtherIfVlanUnresolvable
moClass: vnic:EtherIf
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
```

Affected MO:
fabric/lan/network-sets/fabric-network-[name]/fabric-network-def-[name]/vm-network-def
-[name]/if-[name]
Affected MO: fabric/lan/profiles/vnic-[name]/if-[name]
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/lan-conn-templ-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ipc-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ipc-[name]/if-[name]

fltVnicEtherIfRemoteVlanUnresolvable

Fault Code: F0319

Message

The named vlan [name] for vNIC [name] cannot be resolved remotely

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: warning
Cause: referenced-remote-vlan-unresolvable
mibFaultCode: 319
mibFaultName: fltVnicEtherIfRemoteVlanUnresolvable
moClass: vnic:EtherIf
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/lan/network-sets/fabric-network-[name]/fabric-network-def-[name]/vm-network-def
-[name]/if-[name]
Affected MO: fabric/lan/profiles/vnic-[name]/if-[name]
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/lan-conn-templ-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ipc-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ipc-[name]/if-[name]

fltVnicEtherIfInvalidVlan

Fault Code: F0320

Message

Invalid Vlan in the allowed vlan list

Explanation

This fault typically occurs when a vnic of a service profile or a port profile contains an invalid vlan. an invalid vlan can be any one of the following:

Step 1 an isolated vlan or a community vlan that is not associated to a valid primary vlan

Step 2 a primary vlan without any of its assoicated secondary vlans allowed on the vnic

Step 3 a vlan which has sharing-type or primary vlan name not matching to that of vlan in lan-side/appliance-side

Recommended Action

This fault will be removed if you perform one of the following actions:

Step 1 if invalid vlan is an isolated or community vlan then make sure it is mapped to a valid primary vlan.

Step 2 if invalid vlan is a primary vlan then either allow any of its secondary vlans or delete it from vnic or port profile.

Step 3 if invalid vlan is a vlan that does not match the sharing properties with the vlan of same vlan id in the lan-side/appliance-side, change the properties of this vlan to be the same as the other.

Fault Details

```
Severity: major
Cause: invalid-vlan-in-the-allowed-vlan-list
mibFaultCode: 320
mibFaultName: fltVnicEtherIfInvalidVlan
moClass: vnic:EtherIf
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/lan/network-sets/fabric-network-[name]/fabric-network-def-[name]/vm-network-def
-[name]/if-[name]
Affected MO: fabric/lan/profiles/vnic-[name]/if-[name]
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/lan-conn-templ-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/ls-[name]/ipc-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/if-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ipc-[name]/if-[name]
```

fltFabricVlanVlanConflictPermit

Fault Code: F0321

Message

There are multiple vlans with id [id] have different accessability configured.

Explanation

This fault occurs when multipl global vlans with the same id have different access configurations.

Recommended Action

Change the access configuration by configuring VLAN/VLAN Group Permits.

Fault Details

```
Severity: warning
Cause: vlan-conflict-permit
mibFaultCode: 321
mibFaultName: fltFabricVlanVlanConflictPermit
moClass: fabric:Vlan
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltVnicProfileProfileConfigIncorrect

Fault Code: F0322

Message

The Port Profile [name] has an invalid configuration.

Explanation

This fault occurs there is an invalid entry for a port profile configuration.

Recommended Action

Check documentation and correct the offending entry in the port profile configuration.

Fault Details

```
Severity: warning
Cause: profile-config-incorrect
mibFaultCode: 322
mibFaultName: fltVnicProfileProfileConfigIncorrect
moClass: vnic:Profile
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/profiles/vnic-[name]
```

fltVnicIScsiConfig-failed

Fault Code: F0323

Message

iSCSI vNIC [name], service profile [name] has duplicate iqn name [initiatorName]

Explanation

This fault typically occurs when IScsi Vnics refer the same iqn name.

Recommended Action

If you see this fault, take the following actions:

Step 1 Make sure that iqn name unique per iSCSI vnic.

Step 2 Using show identity iqn check if the iSCSI vnic is registered in the universe.

Step 3 Try non disruptive actions such as changing description on the Service Profile to register the iqn in the universe.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: configuration-failed
mibFaultCode: 323
mibFaultName: fltVnicIScsiConfigFailed
moClass: vnic:IScsi
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/iscsi-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/iscsi-[name]
```

fltVnicEtherVirtualization-conflict

Fault Code: F0324

Message

Multiple connection policies cannot be assigned to the same Eth vNIC

Explanation

This fault occurs when multiple connection policies are assigned to the same vNIC.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check on the vNIC if different types of connection policies (dynamic/VMQ) are assigned. Keep only one type.

Step 2 Check on the vNIC through CLI if more than one connection policy of the same type is assigned. Keep only one connection policy.

Fault Details

```
Severity: major
Cause: multiple-connection-policies
mibFaultCode: 324
mibFaultName: fltVnicEtherVirtualizationConflict
moClass: vnic:Ether
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]
```

fltVnicEtherVirtualization-netflow-conflict

Fault Code: F0325

Message

Netflow and VMQ/SRIOV-USNIC policies cannot be assigned to the same Eth vNIC

Explanation

This fault typically occurs when a netflow src vnic is made a USNIC or VMQ vnic

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove the vnic from a netflow session or remove the usnic/vmq policy

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: multiple-connection-policies
mibFaultCode: 325
mibFaultName: fltVnicEtherVirtualizationNetflowConflict
moClass: vnic:Ether
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/lan-conn-pol-[name]/ether-[name]
Affected MO: org-[name]/ls-[name]/ether-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/ether-[name]
```

fltLsIssuesIscsi-config-failed

Fault Code: F0326

Message

Service Profile [name] configuration failed due to iSCSI issue [iscsiConfigIssues]

Explanation

This fault typically occurs when Cisco FPR Manager Service Profile configuration failed due to iSCSI Config Issues.

Recommended Action

If you see this fault, take the following actions:

Step 1 Correct the Service Profile iSCSI Configuration as per the issue reported.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: configuration-failed
mibFaultCode: 326
mibFaultName: fltLsIssuesIscsiConfigFailed
moClass: ls:Issues
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/config-issue
Affected MO: org-[name]/tier-[name]/ls-[name]/config-issue
```

fltMacpoolPoolEmpty

Fault Code: F0332

Message

MAC pool [name] is empty

Explanation

This fault typically occurs when a MAC address pool does not contain any MAC addresses.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the pool is in use, add a block of MAC addresses to the pool.

Step 2 If the pool is not in use, ignore the fault.

Fault Details

```
Severity: minor
Cause: empty-pool
mibFaultCode: 332
mibFaultName: fltMacpoolPoolEmpty
moClass: macpool:Pool
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/mac-pool-[name]
```

fltCallhomeEpNoSnmpPolicyForCallhome

Fault Code: F0335

Message

FPR Manager cannot apply Callhome policy if SNMP Policy is not configured or if SNMP Syscontact has an empty value. The Callhome policy from FPR Central has not been applied.

Explanation

This fault typically occurs when FPR Manager receives an invalid configuration from FPR Central wherein Callhome is configured on FPR Central but there is no SNMP Syscontact defined locally.

Recommended Action

If you see this fault, please ensure that the SNMP Policy is configured on FPRM Manager, either locally or via FPR Central.

Fault Details

```
Severity: minor
Cause: callhome-config-error
mibFaultCode: 335
mibFaultName: fltCallhomeEpNoSnmpPolicyForCallhome
moClass: callhome:Ep
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: call-home
```

fltAdaptorUnitUnidentifiable-fru

Fault Code: F0349

Message

Adapter [id] in server [id] has unidentified FRUAdapter [id] in server [chassisId]/[slotId] has unidentified FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported adapter. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that a supported adapter is installed.

Step 2 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: unidentifiable-fru
```

```
mibFaultCode: 349
mibFaultName: fltAdaptorUnitUnidentifiableFru
moClass: adaptor:Unit
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]
```

fltAdaptorUnitExtnUnidentifiable-fru

Fault Code: F0350

Message

Adapter extension [id] in server [chassisId]/[slotId] has unidentified FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported adapter unit extension, such as a pass-through adaptor. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that a supported adapter unit extension is installed.

Step 2 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: unidentifiable-fru
mibFaultCode: 350
mibFaultName: fltAdaptorUnitExtnUnidentifiableFru
moClass: adaptor:UnitExtn
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/adaptor-extn-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/adaptor-extn-[id]
```

fltAdaptorUnitMissing

Fault Code: F0351

Message

Adapter [id] in server [id] presence: [presence]Adapter [id] in server [chassisId]/[slotId] presence: [presence]

Explanation

The adaptor is missing. Cisco FPR Manager raises this fault when any of the following scenarios occur:

- The endpoint reports there is no adapter in the adaptor slot.
- The endpoint cannot detect or communicate with the adapter in the adaptor slot.

Recommended Action

If you see this fault, take the following actions:

Step 1 Make sure an adapter is inserted in the adaptor slot in the server.

Step 2 Check whether the adaptor is connected and configured properly and is running the recommended firmware version.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: equipment-missing
mibFaultCode: 351
mibFaultName: fltAdaptorUnitMissing
moClass: adaptor:Unit
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]
```

fltAdaptorUnitExtnMissing

Fault Code: F0352

Message

Adapter extension [id] in server [chassisId]/[slotId] presence: [presence]

Explanation

This fault typically occurs when an I/O adapter unit extension, such as a pass-through adapter, is missing. Cisco FPR Manager raises this fault when any of the following scenario occur:

- The endpoint reports there is no adapter unit extension, such as a pass-through adapter, plugged into the adapter slot.
- The endpoint cannot detect or communicate with the adapter unit extension plugged into the adapter slot.

Recommended Action

If you see this fault, take the following actions:

Step 1 Ensure the adapter unit extension is properly plugged into an adapter slot in the server.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: equipment-missing
mibFaultCode: 352
```

mibFaultName: fltAdaptorUnitExtnMissing
moClass: adaptor:UnitExtn
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/adaptor-extn-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/adaptor-extn-[id]

fltAdaptorUnitAdaptorReachability

Fault Code: F0353

Message

Adapter [id]/[id] is unreachableAdapter [chassisId]/[slotId]/[id] is unreachable

Explanation

Cisco FPR Manager cannot access the adapter. This fault typically occurs as a result of one of the following issues:

- The server does not have sufficient power.
- The I/O module is not functional.
- The adapter firmware has failed.
- The adapter is not functional

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the server. In Cisco FPR Manager GUI, you can access the POST results from the General tab for the server. In Cisco FPR Manager CLI, you can access the POST results through the **show post** command under the scope for the server.

Step 2 In Cisco FPR Manager, check the power state of the server.

Step 3 Verify that the physical server has the same power state.

Step 4 If the server is off, turn the server on.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: info
Cause: connectivity-problem
mibFaultCode: 353
mibFaultName: fltAdaptorUnitAdaptorReachability
moClass: adaptor:Unit
Type: connectivity
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]

fltAdaptorHostIfLink-down

Fault Code: F0354

Message

Adapter [transport] host interface [id]/[id]/[id] link state: [linkState]Adapter [transport] host interface [chassisId]/[slotId]/[id]/[id] link state: [linkState]

Explanation

This fault typically occurs as a result of one of the following issues:

- The fabric interconnect is in End-Host mode, and all uplink ports failed.
- The server port to which the adapter is pinned failed.
- A transient error caused the link to fail.

Recommended Action

If you see this fault, take the following actions:

Step 1 If an associated port is disabled, enable the port.

Step 2 Reacknowledge the server with the adapter that has the failed link.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: link-down
mibFaultCode: 354
mibFaultName: fltAdaptorHostIfLinkDown
moClass: adaptor:HostIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-fc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-iscsi-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-service-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-fc-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-iscsi-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-service-eth-[id]
```

fltAdaptorExtIfLink-down

Fault Code: F0355

Message

Adapter uplink interface [id]/[id]/[id] link state: [linkState]. Please verify connectivity to Fabric Interconnect. Acknowledging FEX might be required.Adapter uplink interface [chassisId]/[slotId]/[id]/[id] on security module [slotId] link state: [linkState]. Please check switch blade-facing port status. Resetting security module might be required.

Explanation

The link for a network facing adapter interface is down. Cisco FPR Manager raises this fault when any of the following scenarios occur:

- Cisco FPR Manager cannot establish and/or validate the adapter's connectivity to any of the fabric interconnects.
- The endpoint reports a link down or vNIC down event on the adapter link.
- The endpoint reports an errored link state or errored vNIC state event on the adapter link.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the adapter is connected, configured properly, and is running the recommended firmware version.

Step 2 If the server is stuck at discovery, decommission the server and reacknowledge the server slot.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: link-down
mibFaultCode: 355
mibFaultName: fltAdaptorExtIfLinkDown
moClass: adaptor:ExtIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/ext-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/ext-eth-[id]
```

fltAdaptorHostEthIfMisConnect

Fault Code: F0356

Message

Adapter [id] eth interface [id] in server [id] mis-connected

Explanation

The link for a network-facing host interface is misconnected. Cisco FPR Manager raises this fault when any of the following scenarios occur:

- Cisco FPR Manager detects a new connectivity between a previously configured switch port and the host Ethernet interface.
- Cisco FPR Manager detects a misconnected link between the host interface and its non-peer fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check whether the host Ethernet interface is connected to a port belonging to its peer fabric interconnect.

Step 2 If connectivity seems correct, reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: link-misconnected
mibFaultCode: 356
mibFaultName: fltAdaptorHostEthIfMisConnect
moClass: adaptor:HostEthIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]
```

fltAdaptorHostEthIfMissing

Fault Code: F0357

Message

Connection to Adapter [id] eth interface [id] in server [id] missing

Explanation

The link for a network-facing host interface is missing. Cisco FPR Manager raises this fault when it detects missing connectivity between a previously configured switch port and its previous peer host interface.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check whether the adapter link is connected to a port that belongs to its non-peer fabric interconnect.

Step 2 If that connectivity seems correct, reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: link-missing
mibFaultCode: 357
mibFaultName: fltAdaptorHostEthIfMissing
moClass: adaptor:HostEthIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]
```

fltAdaptorExtEthIfMisConnect

Fault Code: F0358

Message

Adapter [id] eth interface [id] in server [id] mis-connected

Explanation

The link for a network-facing adapter interface is misconnected. Cisco FPR Manager raises this fault when any of the following scenarios occur:

- Cisco FPR Manager detects a new connectivity between a previously configured switch port or FEX port and the adapter's external interface.
- Cisco FPR Manager detects a misconnected link between a fabric interconnect or FEX and its non-peer adapter's interface.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check whether the adapter link is connected to a port that belongs to its peer fabric interconnect or FEX.

Step 2 If that connectivity seems correct, reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: link-misconnected
mibFaultCode: 358
mibFaultName: fltAdaptorExtEthIfMisConnect
moClass: adaptor:ExtEthIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/ext-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/ext-eth-[id]
```

fltAdaptorExtEthIfMissing

Fault Code: F0359

Message

Connection to Adapter [id] eth interface [id] in server [id] missing

Explanation

The link for a network-facing adapter interface is misconnected. Cisco FPR Manager raises this fault when it detects that the connectivity between a previously configured port on a fabric interconnect or FEX and its prior peer network-facing adapter interface is misconnected or missing.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check whether the adapter interface is connected to a port belonging to its peer fabric interconnect or FEX.

Step 2 If the connectivity seems correct, reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: link-missing
mibFaultCode: 359
mibFaultName: fltAdaptorExtEthIfMissing
moClass: adaptor:ExtEthIf
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/ext-eth-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/ext-eth-[id]
```

fltMemoryUnitDegraded

Fault Code: F0369

Message

DIMM [location] on server [chassisId]/[slotId] operability: [operability]DIMM [location] on server [id] operability: [operability]

Explanation

This fault occurs when a DIMM is in a degraded operability state. This state typically occurs when an excessive number of correctable ECC errors are reported on the DIMM by the server BIOS.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the error statistics on the degraded DIMM through Cisco FPR Manager. If the high number of errors persists, there is a high possibility of the DIMM becoming inoperable.

Step 2 If the DIMM becomes inoperable, replace the DIMM.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: equipment-degraded
mibFaultCode: 369
mibFaultName: fltMemoryUnitDegraded
moClass: memory:Unit
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryUnitIdentity-unestablishable

Fault Code: F0370

Message

DIMM [location] on server [chassisId]/[slotId] has an invalid FRUDIMM [location] on server [id] has an invalid FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected unsupported DIMM in the server. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, you may have unsupported DIMMs or DIMM configuration in the server. Create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: identity-unestablishable
mibFaultCode: 370
mibFaultName: fltMemoryUnitIdentityUnestablishable
moClass: memory:Unit
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryUnitInoperable

Fault Code: F0371

Message

DIMM [location] on server [chassisId]/[slotId] operability: [operability]DIMM [location] on server [id] operability: [operability]

Explanation

This fault typically occurs because an above threshold number of correctable or uncorrectable errors has occurred on a DIMM. The DIMM may be inoperable.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the SEL is enabled, review the SEL statistics on the DIMM to determine which threshold was crossed.

Step 2 If necessary, replace the DIMM.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 371
mibFaultName: fltMemoryUnitInoperable
moClass: memory:Unit
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryUnitDisabled

Fault Code: F0372

Message

DIMM [location] on server [chassisId]/[slotId] operState: [operState]DIMM [location] on server [id] operaState: [operState]

Explanation

This fault is raised when the server BIOS disables a DIMM. The BIOS could disable a DIMM for several reasons, including incorrect location of the DIMM or incompatible speed.

Recommended Action

If you see this fault, refer to the Cisco FPR B-Series Troubleshooting Guide for information on how to resolve the DIMM issues.

Fault Details

```
Severity: major
Cause: equipment-disabled
mibFaultCode: 372
mibFaultName: fltMemoryUnitDisabled
moClass: memory:Unit
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryUnitThermalThresholdNonCritical

Fault Code: F0373

Message

DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory unit on a blade or rack server exceeds a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: thermal-problem
mibFaultCode: 373
mibFaultName: fltMemoryUnitThermalThresholdNonCritical
moClass: memory:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryBufferUnitThermalThresholdNonCritical

Fault Code: F0374

Message

Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory buffer unit on a blade or rack server exceeds a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: thermal-problem
mibFaultCode: 374
mibFaultName: fltMemoryBufferUnitThermalThresholdNonCritical
moClass: memory:BufferUnit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/sensor-unit-[id]
Affected MO: sys/rack-unit-[id]/board/sensor-unit-[id]
```

fltMemoryUnitThermalThresholdCritical

Fault Code: F0375

Message

DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory unit on a blade or rack server exceeds a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 375
mibFaultName: fltMemoryUnitThermalThresholdCritical
moClass: memory:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryBufferUnitThermalThresholdCritical

Fault Code: F0376

Message

Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory buffer unit on a blade or rack server exceeds a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 376
mibFaultName: fltMemoryBufferUnitThermalThresholdCritical
moClass: memory:BufferUnit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/sensor-unit-[id]
Affected MO: sys/rack-unit-[id]/board/sensor-unit-[id]
```

fltMemoryUnitThermalThresholdNonRecoverable

Fault Code: F0377

Message

DIMM [location] on server [chassisId]/[slotId] temperature: [thermal]DIMM [location] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory unit on a blade or rack server has been out of the operating range, and the issue is not recoverable.Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 377
mibFaultName: fltMemoryUnitThermalThresholdNonRecoverable
moClass: memory:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]/mem-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]/mem-[id]
```

fltMemoryBufferUnitThermalThresholdNonRecoverable

Fault Code: F0378

Message

Buffer Unit [id] on server [chassisId]/[slotId] temperature: [thermal]Buffer Unit [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a memory buffer unit on a blade or rack server has been out of the operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 378
mibFaultName: fltMemoryBufferUnitThermalThresholdNonRecoverable
moClass: memory:BufferUnit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/sensor-unit-[id]
Affected MO: sys/rack-unit-[id]/board/sensor-unit-[id]
```

fltMemoryArrayVoltageThresholdNonCritical

Fault Code: F0379

Message

Memory array [id] on server [chassisId]/[slotId] voltage: [voltage]Memory array [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the memory array voltage is out of normal operating range, but hasn't yet reached a critical stage. Typically the memory array recovers itself from this situation.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the SEL is enabled, look at the SEL statistics on the DIMM to determine which threshold was crossed.

Step 2 Monitor the memory array for further degradation.

Step 3 If the fault occurs on a blade server memory array, remove the blade and re-insert into the chassis.

Step 4 In Cisco FPR Manager, decommission and recommission the server.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: voltage-problem
mibFaultCode: 379
mibFaultName: fltMemoryArrayVoltageThresholdNonCritical
moClass: memory:Array
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]
```

fltMemoryArrayVoltageThresholdCritical

Fault Code: F0380

Message

Memory array [id] on server [chassisId]/[slotId] voltage: [voltage]Memory array [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the memory array voltage exceeds the specified hardware voltage rating

Recommended Action

If you see this fault, take the following actions:

Step 1 If the SEL is enabled, look at the SEL statistics on the DIMM to determine which threshold was crossed.

Step 2 Monitor the memory array for further degradation.

Step 3 If the fault occurs on a blade server memory array, remove the blade and re-insert into the chassis.

Step 4 In Cisco FPR Manager, decommission and recommission the server.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
```

Cause: voltage-problem
mibFaultCode: 380
mibFaultName: fltMemoryArrayVoltageThresholdCritical
moClass: memory:Array
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]

fltMemoryArrayVoltageThresholdNonRecoverable

Fault Code: F0381

Message

Memory array [id] on server [chassisId]/[slotId] voltage: [voltage]Memory array [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the memory array voltage exceeded the specified hardware voltage rating and potentially memory hardware may be in damage or jeopardy

Recommended Action

If you see this fault, take the following actions:

Step 1 If the SEL is enabled, review the SEL statistics on the DIMM to determine which threshold was crossed.

Step 2 Monitor the memory array for further degradation.

Step 3 If the fault occurs on a blade server memory array, remove the server from the chassis and re-insert it.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: voltage-problem
mibFaultCode: 381
mibFaultName: fltMemoryArrayVoltageThresholdNonRecoverable
moClass: memory:Array
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/memarray-[id]
Affected MO: sys/rack-unit-[id]/board/memarray-[id]

fltLsServerFailed

Fault Code: F0657

Message

Service profile [name] failed

Explanation

Server has failed. This fault typically occurs if the adapter power on self-test results in major and critical errors.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the server. In Cisco FPR Manager GUI, you can access the POST results from the General tab for the server. In Cisco FPR Manager CLI, you can access the POST results through the **show post** command under the scope for the server.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: server-failed
mibFaultCode: 657
mibFaultName: fltLsServerFailed
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerDiscoveryFailed

Fault Code: F0658

Message

Service profile [name] discovery failed

Explanation

The shallow discovery that occurs when the server associated with service profile fails. If the server is up and the data path is working, this fault typically occurs as a result of one of the following issues:

- Cisco FPR Manager cannot communicate with the CIMC on the server.
- The server cannot communicate with the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the FSM tab and view the current state of the server and any FSM operations.

Step 2 Check the error descriptions and see if any server components indicate a failure.

Step 3 If the server or a server component has failed, do the following:

a. Check the operational state of the server.

b. If the server is not operable, reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: discovery-failed
mibFaultCode: 658
mibFaultName: fltLsServerDiscoveryFailed
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerConfigFailure

Fault Code: F0659

Message

Service profile [name] configuration failed due to [configQualifier]

Explanation

The named configuration qualifier is not available. This fault typically occurs because Cisco FPR Manager cannot successfully deploy the service profile due to a lack of resources that meet the named qualifier. For example, this fault can occur if the following occurs:

- The service profile is configured for a server adapter with vHBAs, and the adapter on the server does not support vHBAs.
- The service profile is created from a template which includes a server pool, and the server pool is empty.
- The local disk configuration policy in the service profile specifies the No Local Storage mode, but the server contains local disks.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the status of the server pool associated with the service profile. If the pool is empty, add more blade servers to it.

Step 2 Check the state of the server and ensure that it is in either the discovered or unassociated state.

Step 3 If the server is associated or undiscovered, do one of the following:

- Discover the server.
- Disassociate the server from the current service profile.
- Select another server to associate with the service profile.

Step 4 Review each policy in the service profile and verify that the selected server meets the requirements in the policy.

Step 5 If the server does not meet the requirements of the service profile, do one of the following:

- Modify the service profile to match the server.
- Select another server that does meet the requirements to associate with the service profile.

Step 6 If you can verify that the server meets the requirements of the service profile, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: configuration-failure
mibFaultCode: 659
mibFaultName: fltLsServerConfigFailure
moClass: ls:Server
Type: server
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerMaintenanceFailed

Fault Code: F0660

Message

Service profile [name] maintenance failed

Explanation

Cisco FPR Manager currently does not use this fault.

Recommended Action

If you see this fault, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: maintenance-failed
mibFaultCode: 660
mibFaultName: fltLsServerMaintenanceFailed
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerRemoved

Fault Code: F0661

Message

Service profile [name] underlying resource removed

Explanation

Cisco FPR Manager cannot access the server associated with the service profile. This fault typically occurs as a result of one of the following issues:

- The server has been physically removed from the slot.
- The server is not available.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the server was removed from the slot, reinsert the server in the slot.

Step 2 If the server was not removed, remove and reinsert the server.**NOTE:** If the server is operable, this action can be disruptive to current operations.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-removed
mibFaultCode: 661
mibFaultName: fltLsServerRemoved
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerInaccessible

Fault Code: F0662

Message

Service profile [name] cannot be accessed

Explanation

Cisco FPR Manager cannot communicate with the CIMC on the server. This fault typically occurs as a result of one of the following issues:

- The server port or ports have failed.
- The I/O module is offline.
- The BMC has failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 If Cisco FPR Manager shows that the CIMC is down, physically reseat the server.

Step 2 If Cisco FPR Manager shows that the server ports have failed, attempt to enable them.

Step 3 If the I/O module is offline, check for faults on that component.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
```

```
Cause: server-inaccessible
mibFaultCode: 662
mibFaultName: fltLsServerInaccessible
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerAssociationFailed

Fault Code: F0663

Message

Service profile [name] association failed for [pnDn]

Explanation

The service profile could not be associated with the server. This fault typically occurs because Cisco FPR Manager cannot communicate with one or more of the following:

- Fabric interconnect
- CIMC on the server
- SAS controller driver
- Server

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the FSM tab for the server and service profile to determine why the association failed.

Step 2 If the server is stuck in an inappropriate state, such as booting, power cycle the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: association-failed
mibFaultCode: 663
mibFaultName: fltLsServerAssociationFailed
moClass: ls:Server
Type: server
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsComputeBindingAssignmentRequirementsNotMet

Fault Code: F0664

Message

Assignment of service profile [name] to server [pnDn] failed

Explanation

The server could not be assigned to the selected service profile. This fault typically occurs as a result of one of the following issues:

- The selected server does not meet the requirements of the service profile.
- If the service profile was configured for restricted migration, the selected server does not match the currently or previously assigned server.

Recommended Action

If you see this fault, select a different server that meets the requirements of the service profile or matches the currently or previously assigned server.

Fault Details

```
Severity: minor
Cause: assignment-failed
mibFaultCode: 664
mibFaultName: fltLsComputeBindingAssignmentRequirementsNotMet
moClass: ls:ComputeBinding
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/pn
Affected MO: org-[name]/ls-[name]/pn-req
Affected MO: org-[name]/tier-[name]/ls-[name]/pn
Affected MO: org-[name]/tier-[name]/ls-[name]/pn-req
```

fltLsServerUnassociated

Fault Code: F0665

Message

Service profile [name] is not associated

Explanation

The service profile has not yet been associated with a server or a server pool. This fault typically occurs as a result of one of the following issues:

- There is no acceptable server in the server pool.
- The association failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 If you did not intend to associate the service profile, ignore the fault.

Step 2 If you did intend to associate the service profile, check the association failure fault.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: unassociated
mibFaultCode: 665
mibFaultName: fltLsServerUnassociated
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerSvnicNotPresent

Fault Code: F0666

Message

Service profile [name] does not contain service vnics for netflow.

Explanation

The service profile does not have service vnics, hence netflow will not function on this server. This fault typically occurs as a result of one of the following issues:

- Service profile has maximum number of vnics already created, hence cannot accomodate service vnics required for netflow.

Recommended Action

If you see this fault, take the following actions:

Step 1 If you have already enabled netflow, please reduce the number of vnics on the SP to accomodate service vnics.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: svnic-not-present
mibFaultCode: 666
mibFaultName: fltLsServerSvnicNotPresent
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsServerServer-unfulfilled

Fault Code: F0667

Message

Server [pnDn] does not fulfill Service profile [name] due to [configQualifier]

Explanation

The server no longer meets the qualification requirements of the service profile. This fault typically occurs as a result of one of the following issues:

- The server has been physically changed.
- A required component of the server has failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the server inventory compare to the service profile qualifications.

Step 2 If the server inventory does not match the service profile qualifications, do one of the following:

- Associate the server with a different service profile.
- Ensure the server has sufficient resources to qualify for the current service profile.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: server-failed
mibFaultCode: 667
mibFaultName: fltLsServerServerUnfulfilled
moClass: ls:Server
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]
```

fltLsmaintMaintPolicyUnresolvableScheduler

Fault Code: F0668

Message

Schedule [schedName] referenced by maintenance policy [name] does not exist

Explanation

The schedule that is referenced by the maintenance policy does not exist. This fault typically occurs as a result of one of the following issues:

- The schedule does not exist.
- The schedule was deleted.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check if the named schedule exists. If it is deleted or missing, try to create it.

Step 2 If the named schedule is deleted or missing, recreate it.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: non-existent-scheduler
mibFaultCode: 668
mibFaultName: fltLsmaintMaintPolicyUnresolvableScheduler
moClass: lsmaint:MaintPolicy
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/maint-[name]
```

fltLsIssuesKvmPolicyUnsupported

Fault Code: F0669

Message

Kvm mgmt policy not supported by current CIMC version

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: minor
Cause: unsupported-cimc-firmware
mibFaultCode: 669
mibFaultName: fltLsIssuesKvmPolicyUnsupported
moClass: ls:Issues
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/config-issue
Affected MO: org-[name]/tier-[name]/ls-[name]/config-issue
```

fltIqnpoolPoolEmpty

Fault Code: F0675

Message

iqn pool [name] is empty

Explanation

This fault typically occurs when an IQN pool does not contain any IQNs.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the pool is in use, add a block of IQNs to the pool.

Step 2 If the pool is not in use, ignore the fault.

Fault Details

```
Severity: minor
Cause: empty-pool
mibFaultCode: 675
mibFaultName: fltIqnpoolPoolEmpty
moClass: iqnpool:Pool
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/iqn-pool-[name]
```

fltEtherSwitchIntFloSatellite-connection-absent

Fault Code: F0687

Message

No link between IOM port [chassisId]/[slotId]/[portId] and fabric interconnect [switchId]:[peerSlotId]/[peerPortId]

Explanation

This fault is raised when an I/O module fabric port, which links the I/O module port and the fabric interconnect, is not functional

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the fabric interconnect-chassis topology. Make sure each I/O module is connected to only one fabric interconnect.

Step 2 Ensure that the fabric interconnect server port is configured and enabled.

Step 3 Ensure that the links are plugged in properly and reacknowledge the chassis.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: satellite-connection-absent
mibFaultCode: 687
mibFaultName: fltEtherSwitchIntFIoSatelliteConnectionAbsent
moClass: ether:SwitchIntFIo
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltEtherSwitchIntFIoSatellite-wiring-problem

Fault Code: F0688

Message

Invalid connection between IOM port [chassisId]/[slotId]/[portId] and fabric interconnect [switchId]:[peerSlotId]/[peerPortId]

Explanation

This fault typically occurs as a result of a satellite wiring problem on the network-facing interface of an I/O module and Cisco FPR Manager detects that at least one IOM uplink is misconnected to one of the fabric interconnect ports.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the fabric interconnect-chassis topology. Make sure each I/O module is connected to only one fabric interconnect.

Step 2 Ensure that the links are plugged in properly and re-acknowledge the chassis.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: satellite-mis-connected
mibFaultCode: 688
mibFaultName: fltEtherSwitchIntFIoSatelliteWiringProblem
moClass: ether:SwitchIntFIo
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltEtherSwitchIntFIoSatellite-wiring-numbers-unexpected

Fault Code: F0689

Message

Chassis discovery policy conflict: Link IOM [chassisId]/[slotId]/[portId] to fabric interconnect [switchId]:[peerSlotId]/[peerPortId] not configured

Explanation

The configuration of the chassis discovery policy conflicts with the physical IOM uplinks. Cisco FPR Manager raises this fault when the chassis discovery policy is configured for more links than are physically cabled between the IOM uplinks on the chassis and the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Ensure that you cable at least the same number of IOM uplinks as are configured in the chassis discovery policy, and that you configure the corresponding server ports on the fabric interconnect.

Step 2 Reacknowledge the chassis.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: unexpected-number-of-links
mibFaultCode: 689
mibFaultName: fltEtherSwitchIntFIoSatelliteWiringNumbersUnexpected
moClass: ether:SwitchIntFIo
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltEquipmentPsuPowerSupplyProblem

Fault Code: F0690

Message

Power supply [id] in chassis [id] power: [power]Power supply [id] in fabric interconnect [id] power: [power]Power supply [id] in fex [id] power: [power]Power supply [id] in server [id] power: [power]

Explanation

This fault typically occurs when Cisco FPR Manager detects a problem with a power supply unit in a chassis, fabric interconnect or a FEX. For example, the PSU is not functional.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the power cord is properly connected to the PSU and the power source.

Step 2 Verify that the power source is 220 volts.

Step 3 Verify that the PSU is properly installed in the chassis or fabric interconnect.

Step 4 Remove the PSU and reinstall it.

Step 5 Replace the PSU.

Step 6 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-problem
mibFaultCode: 690
mibFaultName: fltEquipmentPsuPowerSupplyProblem
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuOffline

Fault Code: F0691

Message

Power supply [id] in chassis [id] power: [power]Power supply [id] in fabric interconnect [id] power: [power]Power supply [id] in fex [id] power: [power]Power supply [id] in server [id] power: [power]

Explanation

This fault typically occurs when Cisco FPR Manager detects that a power supply unit in a chassis, fabric interconnect, or FEX is offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the power cord is properly connected to the PSU and the power source.

Step 2 Verify that the power source is 220 volts.

Step 3 Verify that the PSU is properly installed in the chassis or fabric interconnect.

Step 4 Remove the PSU and reinstall it.

Step 5 Replace the PSU.

Step 6 If the above actions did not resolve the issue, note down the type of PSU, execute the **show tech-support** command, and contact Cisco Technical Support.

Fault Details

```
Severity: warning
Cause: equipment-offline
```

```
mibFaultCode: 691
mibFaultName: fltEquipmentPsuOffline
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuPowerSupplyShutdown

Fault Code: F0692

Message

Power supply [id] in chassis [id] shutdown reason:[powerStateQualifier]

Explanation

This fault typically occurs when a power supply unit in a chassis, fabric interconnect, or a FEX is shut down, either due to higher than expected power current, higher than expected temperatures, or the failure of a fan.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Verify that the power cord is properly connected to the PSU and the power source.

Step 7 Verify that the power source is 220 volts.

Step 8 Verify that the PSU is properly installed in the chassis or fabric interconnect.

Step 9 Remove the PSU and reinstall it.

Step 10 Replace the PSU.

Step 11 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-offline
mibFaultCode: 692
mibFaultName: fltEquipmentPsuPowerSupplyShutdown
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
```

Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]

fltEquipmentChassisIdentity-unestablishable

Fault Code: F0693

Message

Chassis [id] has an invalid FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported chassis. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, execute the **show tech-support** command and contact Cisco technical support.

Fault Details

Severity: major
Cause: identity-unestablishable
mibFaultCode: 693
mibFaultName: fltEquipmentChassisIdentityUnestablishable
moClass: equipment:Chassis
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]

fltEquipmentFexIdentity-unestablishable

Fault Code: F0694

Message

Fex [id] has an invalid FRU

Explanation

This fault typically occurs because Cisco FPR Manager detected an unsupported chassis. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: identity-unestablishable
mibFaultCode: 694
mibFaultName: fltEquipmentFexIdentityUnestablishable
moClass: equipment:Fex
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fex-[id]
```

fltEquipmentFexFex-unsupported

Fault Code: F0695

Message

Fex [id] with model [model] is unsupported

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported FEX. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that a supported FEX is installed.

Step 2 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: fex-unsupported
mibFaultCode: 695
mibFaultName: fltEquipmentFexFexUnsupported
moClass: equipment:Fex
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fex-[id]
```

fltEquipmentFanModuleDegraded

Fault Code: F0696

Message

Fan module [tray]-[id] in chassis [id] operability: [operability]Fan module [tray]-[id] in server [id] operability: [operability]Fan module [tray]-[id] in fabric interconnect [id] operability: [operability]

Explanation

This fault occurs when a fan module is not operational.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the fan module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the fan module has adequate airflow, including front and back clearance.

Step 3 Verify that the air flows for the fan module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: equipment-degraded
mibFaultCode: 696
mibFaultName: fltEquipmentFanModuleDegraded
moClass: equipment:FanModule
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentFanDegraded

Fault Code: F0697

Message

Fan [id] in Fan Module [tray]-[id] under chassis [id] operability: [operability]Fan [id] in fabric interconnect [id] operability: [operability]Fan [id] in fex [id] operability: [operability]Fan [id] in Fan Module [tray]-[id] under server [id] operability: [operability]

Explanation

This fault occurs when one or more fans in a fan module are not operational, but at least one fan is operational.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the fan module.

Step 2 Review the Cisco FPR Site Preparation Guide and ensure the fan module has adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty fan modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: equipment-degraded
mibFaultCode: 697
mibFaultName: fltEquipmentFanDegraded
moClass: equipment:Fan
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]
```

fltEquipmentChassisInoperable

Fault Code: F0698

Message

Chassis [id] operability: [operability]

Explanation

This fault typically occurs for one of the following reasons:

- The fabric interconnect cannot communicate with a chassis. For a cluster configuration, this fault means that neither fabric interconnect can communicate with the chassis.
- The chassis has an invalid FRU.

Recommended Action

If you see this fault, take the following actions:

Step 1 In Cisco FPR Manager, reacknowledge the chassis that raised the fault.

Step 2 Physically unplug and replug the power cord into the chassis.

Step 3 Verify that the I/O modules are functional.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 698
mibFaultName: fltEquipmentChassisInoperable
moClass: equipment:Chassis
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentFanModuleInoperable

Fault Code: F0700

Message

Fan module [tray]-[id] in chassis [id] operability: [operability]Fan module [tray]-[id] in server [id] operability: [operability]Fan module [tray]-[id] in fabric interconnect [id] operability: [operability]

Explanation

This fault occurs if a fan module is not operational.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove and reinstall the fan module. If multiple fans are affected by this fault, remove and reinstall one fan module at a time.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 700
mibFaultName: fltEquipmentFanModuleInoperable
moClass: equipment:FanModule
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentFanInoperable

Fault Code: F0701

Message

Fan [id] under chassis [id] operability: [operability]Fan [id] in fabric interconnect [id] operability: [operability]Fan [id] in fex [id] operability: [operability]Fan [id] in Fan Module [tray]-[id] under server [id] operability: [operability]

Explanation

This fault occurs if a fan is not operational.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove fan module and re-install the fan module again. Remove only one fan module at a time.

Step 2 Replace fan module with a different fan module

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 701
mibFaultName: fltEquipmentFanInoperable
moClass: equipment:Fan
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]
```

fltEquipmentPsuInoperable

Fault Code: F0702

Message

Power supply [id] in chassis [id] operability: [operability]Power supply [id] in fabric interconnect [id] operability: [operability]Power supply [id] in fex [id] operability: [operability]Power supply [id] in server [id] operability: [operability]

Explanation

This fault typically occurs when Cisco FPR Manager detects a problem with a power supply unit in a chassis, fabric interconnect or a FEX. For example, the PSU is not functional.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the power cord is properly connected to the PSU and the power source.

Step 2 Verify that the power source is 220 volts.

Step 3 Verify that the PSU is properly installed in the chassis or fabric interconnect.

Step 4 Remove the PSU and reinstall it.

Step 5 Replace the PSU.

Step 6 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 702
mibFaultName: fltEquipmentPsuInoperable
moClass: equipment:Psu
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentIOCardRemoved

Fault Code: F0703

Message

[side] IOM [chassisId]/[id] ([switchId]) is removed

Explanation

This fault typically occurs because an I/O module is removed from the chassis. In a cluster configuration, the chassis fails over to the other I/O module. For a standalone configuration, the chassis associated with the I/O module loses network connectivity. This is a critical fault because it can result in the loss of network connectivity and disrupt data traffic through the I/O module.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reinsert the I/O module and configure the fabric-interconnect ports connected to it as server ports and wait a few minutes to see if the fault clears.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-removed
mibFaultCode: 703
mibFaultName: fltEquipmentIOCardRemoved
moClass: equipment:IOCard
Type: equipment
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]

fltEquipmentIOCardInaccessible

Fault Code: F0704

Message

[side] IOM [chassisId]/[id] ([switchId]) is inaccessible

Explanation

This fault typically occurs because an I/O module has lost its connection to the fabric interconnects. In a cluster configuration, the chassis fails over to the other I/O module. For a standalone configuration, the chassis associated with the I/O module loses network connectivity. This is a critical fault because it can result in the loss of network connectivity and disrupt data traffic through the I/O module.

Recommended Action

If you see this fault, take the following actions:

Step 1 Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: equipment-inaccessible
mibFaultCode: 704
mibFaultName: fltEquipmentIOCardInaccessible
moClass: equipment:IOCard
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]

fltEquipmentIOCardPost-failure

Fault Code: F0705

Message

[side] IOM [chassisId]/[id] ([switchId]) POST failure

Explanation

This fault typically occurs when an I/O module encounters errors during the Power On Self Test (POST). The impact of this fault varies according to the errors that were encountered during POST.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the I/O module. In Cisco FPR Manager GUI, you can access the POST results from the General tab for the I/O module. In Cisco FPR Manager CLI, you can access the POST results through the show post command under the scope for the I/O module.

Step 2 If the POST results indicate FRU error, check if FPR manager has raised fault for the FRU and follow recommended action for the fault.

Step 3 Otherwise, reboot the I/O module.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-problem
mibFaultCode: 705
mibFaultName: fltEquipmentIOCardPostFailure
moClass: equipment:IOCard
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentFexPost-failure

Fault Code: F0706

Message

fex [id] POST failure

Explanation

This fault typically occurs when a FEX encounters errors during the Power On Self Test (POST). The impact of this fault varies depending on which errors were encountered during POST.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the POST results for the FEX. In the Cisco FPR Manager GUI, you can access the POST results from the General tab for the FEX. In the Cisco FPR Manager CLI, you can access the POST results by entering the **show post** command under the scope for the FEX.

Step 2 Reboot the FEX.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-problem
mibFaultCode: 706
mibFaultName: fltEquipmentFexPostFailure
moClass: equipment:Fex
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
```

Affected MO: sys/fex-[id]

fltEquipmentFanModuleMissing

Fault Code: F0707

Message

Fan module [tray]-[id] in chassis [id] presence: [presence]Fan module [tray]-[id] in server [id] presence: [presence]Fan module [tray]-[id] in fabric interconnect [id] presence: [presence]

Explanation

This fault occurs if a fan Module slot is not equipped or removed from its slot

Recommended Action

If you see this fault, take the following actions:

Step 1 If the reported slot is empty, insert a fan module into the slot.

Step 2 If the reported slot contains a fan module, remove and reinsert the fan module.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: equipment-missing
mibFaultCode: 707
mibFaultName: fltEquipmentFanModuleMissing
moClass: equipment:FanModule
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]

fltEquipmentFanMissing

Fault Code: F0708

Message

Fan [id] in fabric interconnect [id] presence: [presence]Fan [id] in fex [id] presence: [presence]Fan [id] in Fan Module [tray]-[id] under server [id] presence: [presence]

Explanation

This fault occurs in the unlikely event that a fan in a fan module cannot be detected.

Recommended Action

If you see this fault, take the following actions:

Step 1 Insert/reinsert the fan module in the slot that is reporting the issue.

Step 2 Replace the fan module with a different fan module, if available.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-missing
mibFaultCode: 708
mibFaultName: fltEquipmentFanMissing
moClass: equipment:Fan
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]
```

fltEquipmentPsuMissing

Fault Code: F0709

Message

Power supply [id] in chassis [id] presence: [presence]Power supply [id] in fabric interconnect [id] presence: [presence]Power supply [id] in fex [id] presence: [presence]Power supply [id] in server [id] presence: [presence]

Explanation

This fault typically occurs when Cisco FPR Manager detects a problem with a power supply unit in a chassis, fabric interconnect, or a FEX. For example, the PSU is missing.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the PSU is physically present in the slot, remove and then reinsert it.

Step 2 If the PSU is not physically present in the slot, insert a new PSU.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-missing
mibFaultCode: 709
mibFaultName: fltEquipmentPsuMissing
moClass: equipment:Psu
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentIOCardThermalProblem

Fault Code: F0710

Message

[side] IOM [chassisId]/[id] ([switchId]) operState: [operState]

Explanation

This fault occurs when there is a thermal problem on an I/O module. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 710
mibFaultName: fltEquipmentIOCardThermalProblem
moClass: equipment:IOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardThermalThresholdNonCritical

Fault Code: F0711

Message

[side] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an I/O module has exceeded a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 711
mibFaultName: fltEquipmentIOCardThermalThresholdNonCritical
moClass: equipment:IOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardThermalThresholdCritical

Fault Code: F0712

Message

[side] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an I/O module has exceeded a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 712
mibFaultName: fltEquipmentIOCardThermalThresholdCritical
moClass: equipment:IOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardThermalThresholdNonRecoverable

Fault Code: F0713

Message

[side] IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an I/O module has been out of the operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 713
mibFaultName: fltEquipmentIOCardThermalThresholdNonRecoverable
moClass: equipment:IOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentFanModuleThermalThresholdNonCritical

Fault Code: F0714

Message

Fan module [tray]-[id] in chassis [id] temperature: [thermal]Fan module [tray]-[id] in server [id] temperature: [thermal]Fan module [tray]-[id] in fabric interconnect [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a fan module has exceeded a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the fan module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the fan modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty fan modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 714
mibFaultName: fltEquipmentFanModuleThermalThresholdNonCritical
moClass: equipment:FanModule
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentPsuThermalThresholdNonCritical

Fault Code: F0715

Message

Power supply [id] in chassis [id] temperature: [thermal]Power supply [id] in fabric interconnect [id] temperature: [thermal]Power supply [id] in server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a PSU module has exceeded a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the PSU module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the PSU modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty PSU modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 715
mibFaultName: fltEquipmentPsuThermalThresholdNonCritical
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentFanModuleThermalThresholdCritical

Fault Code: F0716

Message

Fan module [tray]-[id] in chassis [id] temperature: [thermal]Fan module [tray]-[id] in server [id] temperature: [thermal]Fan module [tray]-[id] in fabric interconnect [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a fan module has exceeded a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the fan module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the fan modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty fan modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 716
mibFaultName: fltEquipmentFanModuleThermalThresholdCritical
moClass: equipment:FanModule
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentPsuThermalThresholdCritical

Fault Code: F0717

Message

Power supply [id] in chassis [id] temperature: [thermal]Power supply [id] in fabric interconnect [id] temperature: [thermal]Power supply [id] in server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a PSU module has exceeded a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the PSU module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the PSU modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty PSU modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 717
mibFaultName: fltEquipmentPsuThermalThresholdCritical
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentFanModuleThermalThresholdNonRecoverable

Fault Code: F0718

Message

Fan module [tray]-[id] in chassis [id] temperature: [thermal]Fan module [tray]-[id] in server [id] temperature: [thermal]Fan module [tray]-[id] in fabric interconnect [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a fan module has been out of operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the fan module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the fan modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty fan modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 718
mibFaultName: fltEquipmentFanModuleThermalThresholdNonRecoverable
moClass: equipment:FanModule
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentPsuThermalThresholdNonRecoverable

Fault Code: F0719

Message

Power supply [id] in chassis [id] temperature: [thermal]Power supply [id] in fabric interconnect [id] temperature: [thermal]Power supply [id] in server [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a PSU module has been out of operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the PSU module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the PSU modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty PSU modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 719
mibFaultName: fltEquipmentPsuThermalThresholdNonRecoverable
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuVoltageThresholdNonCritical

Fault Code: F0720

Message

Power supply [id] in chassis [id] voltage: [voltage]Power supply [id] in fabric interconnect [id] voltage: [voltage]Power supply [id] in fex [id] voltage: [voltage]Power supply [id] in server [id] voltage: [voltage]

Explanation

This fault occurs when the PSU voltage is out of normal operating range, but hasn't reached to a critical stage yet. Normally the PSU will recover itself from this situation.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the PSU for further degradation.

Step 2 Remove and reseat the PSU.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: voltage-problem
mibFaultCode: 720
mibFaultName: fltEquipmentPsuVoltageThresholdNonCritical
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuVoltageThresholdCritical

Fault Code: F0721

Message

Power supply [id] in chassis [id] voltage: [voltage]Power supply [id] in fabric interconnect [id] voltage: [voltage]Power supply [id] in fex [id] voltage: [voltage]Power supply [id] in server [id] voltage: [voltage]

Explanation

This fault occurs when the PSU voltage has exceeded the specified hardware voltage rating.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove and reseat the PSU.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: voltage-problem
mibFaultCode: 721
mibFaultName: fltEquipmentPsuVoltageThresholdCritical
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuVoltageThresholdNonRecoverable

Fault Code: F0722

Message

Power supply [id] in chassis [id] voltage: [voltage]Power supply [id] in fabric interconnect [id] voltage: [voltage]Power supply [id] in fex [id] voltage: [voltage]Power supply [id] in server [id] voltage: [voltage]

Explanation

This fault occurs when the PSU voltage has exceeded the specified hardware voltage rating and PSU hardware may have been damaged as a result or may be at risk of being damaged.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove and reseat the PSU.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: voltage-problem
mibFaultCode: 722
mibFaultName: fltEquipmentPsuVoltageThresholdNonRecoverable
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuPerfThresholdNonCritical

Fault Code: F0723

Message

Power supply [id] in chassis [id] output power: [perf]Power supply [id] in fabric interconnect [id] output power: [perf]Power supply [id] in server [id] output power: [perf]

Explanation

This fault is raised as a warning if the current output of the PSU in a chassis, fabric interconnect, or rack server does not match the desired output value.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the PSU status.

Step 2 If possible, remove and reseat the PSU.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file for the chassis and Cisco FPR Manager, and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: performance-problem
mibFaultCode: 723
mibFaultName: fltEquipmentPsuPerfThresholdNonCritical
moClass: equipment:Psu
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuPerfThresholdCritical

Fault Code: F0724

Message

Power supply [id] in chassis [id] output power: [perf]Power supply [id] in fabric interconnect [id] output power: [perf]Power supply [id] in server [id] output power: [perf]

Explanation

This fault occurs if the current output of the PSU in a chassis, fabric interconnect, or rack server is far below or above the desired output value.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the PSU status.

Step 2 Plan to replace the PSU as soon as possible.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file for the chassis and Cisco FPR Manager, and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: performance-problem
mibFaultCode: 724
mibFaultName: fltEquipmentPsuPerfThresholdCritical
moClass: equipment:Psu
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuPerfThresholdNonRecoverable

Fault Code: F0725

Message

Power supply [id] in chassis [id] output power: [perf]Power supply [id] in fabric interconnect [id] output power: [perf]Power supply [id] in server [id] output power: [perf]

Explanation

This fault occurs if the current output of the PSU in a chassis, fabric interconnect, or rack server is far above or below the non-recoverable threshold value.

Recommended Action

If you see this fault, plan to replace the PSU as soon as possible.

Fault Details

```
Severity: critical
Cause: performance-problem
mibFaultCode: 725
mibFaultName: fltEquipmentPsuPerfThresholdNonRecoverable
moClass: equipment:Psu
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentFanPerfThresholdNonCritical

Fault Code: F0726

Message

Fan [id] in Fan Module [tray]-[id] under chassis [id] speed: [perf]Fan [id] in fabric interconnect [id] speed: [perf]Fan [id] in Fan Module [tray]-[id] under server [id] speed: [perf]

Explanation

This fault occurs when the fan speed reading from the fan controller does not match the desired fan speed and is outside of the normal operating range. This can indicate a problem with a fan or with the reading from the fan controller.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the fan status.

Step 2 If the problem persists for a long period of time or if other fans do not show the same problem, reseat the fan.

Step 3 Replace the fan module.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: performance-problem
mibFaultCode: 726
mibFaultName: fltEquipmentFanPerfThresholdNonCritical
moClass: equipment:Fan
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]
```

fltEquipmentFanPerfThresholdCritical

Fault Code: F0727

Message

Fan [id] in Fan Module [tray]-[id] under chassis [id] speed: [perf]Fan [id] in fabric interconnect [id] speed: [perf]Fan [id] in Fan Module [tray]-[id] under server [id] speed: [perf]

Explanation

This fault occurs when the fan speed read from the fan controller does not match the desired fan speed and has exceeded the critical threshold and is in risk of failure. This can indicate a problem with a fan or with the reading from the fan controller.

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the fan status.

Step 2 If the problem persists for a long period of time or if other fans do not show the same problem, reseat the fan.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file for the chassis and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: performance-problem
mibFaultCode: 727
mibFaultName: fltEquipmentFanPerfThresholdCritical
moClass: equipment:Fan
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]
```

fltEquipmentFanPerfThresholdNonRecoverable

Fault Code: F0728

Message

Fan [id] in Fan Module [tray]-[id] under chassis [id] speed: [perf]Fan [id] in fabric interconnect [id] speed: [perf]Fan [id] in Fan Module [tray]-[id] under server [id] speed: [perf]

Explanation

This fault occurs when the fan speed read from the fan controller has far exceeded the desired fan speed. It frequently indicates that the fan has failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Replace the fan.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: performance-problem
mibFaultCode: 728
mibFaultName: fltEquipmentFanPerfThresholdNonRecoverable
moClass: equipment:Fan
Type: equipment
Callhome: diagnostic
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]

fltEquipmentFanPerfThresholdLowerNonRecoverable

Fault Code: F0729

Message

Fan [id] in Fan Module [tray]-[id] under chassis [id] speed: [perf]Fan [id] in fabric interconnect [id] speed: [perf]Fan [id] in Fan Module [tray]-[id] under server [id] speed: [perf]

Explanation

This fault occurs when the fan speed reading from the fan controller is far below the desired fan speed, and the fan has likely failed.

Recommended Action

If you see this fault, create a detailed **show tech-support** file for the chassis and replace the fan module. If necessary, contact Cisco TAC.

Fault Details

Severity: critical
Cause: performance-problem
mibFaultCode: 729
mibFaultName: fltEquipmentFanPerfThresholdLowerNonRecoverable
moClass: equipment:Fan
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-[id]
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/fex-[id]/fan-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/fan-[id]

fltEquipmentIOCardFirmwareUpgrade

Fault Code: F0730

Message

Chassis controller in IOM [chassisId]/[id] ([switchId]) firmware upgrade problem: [upgradeStatus]

Explanation

This fault typically occurs when an IOM upgrade fails.

Recommended Action

If you see this fault, take the following actions:

Step 1 On the FSM tab for the IOM, verify whether FSM for the upgrade completed successfully or failed.

Step 2 If the FSM failed, review the error message in the FSM.

Step 3 If the error message is self explanatory, verify the physical connectivity. For example, an error message could be No Connection to Endpoint or Link Down.

Step 4 If the above action did not resolve the issue and the fault persists, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: firmware-upgrade-problem
mibFaultCode: 730
mibFaultName: fltEquipmentIOCardFirmwareUpgrade
moClass: equipment:IOCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentChassisUnsupportedConnectivity

Fault Code: F0731

Message

Current connectivity for chassis [id] does not match discovery policy: [configState]

Explanation

This fault typically occurs when the current connectivity for a chassis does not match the configuration in the chassis discovery policy.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the correct number of links are configured in the chassis discovery policy.

Step 2 Check the state of the I/O module links.

Step 3 Reacknowledge the chassis.

Step 4 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: unsupported-connectivity-configuration
mibFaultCode: 731
mibFaultName: fltEquipmentChassisUnsupportedConnectivity
moClass: equipment:Chassis
Type: connectivity
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]

fltEquipmentChassisUnacknowledged

Fault Code: F0732

Message

Chassis [id] connectivity configuration: [configState]

Explanation

This fault typically occurs when or more of the I/O module links from the chassis are unacknowledged.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the state of the I/O module links.

Step 2 Reacknowledge the chassis.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: equipment-unacknowledged
mibFaultCode: 732
mibFaultName: fltEquipmentChassisUnacknowledged
moClass: equipment:Chassis
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]

fltEquipmentIOCardUnsupportedConnectivity

Fault Code: F0733

Message

IOM [chassisId]/[id] ([switchId]) current connectivity does not match discovery policy or connectivity is unsupported: [configState]

Explanation

This fault typically occurs when the current connectivity for an I/O module does not match the configuration in the chassis discovery policy.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the correct number of links are configured in the chassis discovery policy.

Step 2 Check the state of the I/O module links.

Step 3 Note that atleast 2 links are required to be connected between FEX and 61xx Fabric Interconnect

Step 4 Reacknowledge the chassis.

Step 5 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: unsupported-connectivity-configuration
mibFaultCode: 733
mibFaultName: fltEquipmentIOCardUnsupportedConnectivity
moClass: equipment:IOCard
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardAutoUpgradingFirmware

Fault Code: F0734

Message

IOM [chassisId]/[id] ([switchId]) is auto upgrading firmware

Explanation

This fault typically occurs when an I/O module is auto upgrading. Auto-upgrade occurs when the firmware version on the IOM is incompatible with the firmware version on the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the IOM and fabric interconnects are not running the same firmware version, wait for the auto-upgrade to complete.

Step 2 When the IOM upgrade is completed, verify that Cisco FPR Manager has cleared this fault.

Step 3 If you see this fault after the IOM overall status changes to operable, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: auto-firmware-upgrade
mibFaultCode: 734
mibFaultName: fltEquipmentIOCardAutoUpgradingFirmware
moClass: equipment:IOCard
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardUnacknowledged

Fault Code: F0735

Message

IOM [chassisId]/[id] ([switchId]) connectivity configuration: [configState]

Explanation

This fault typically occurs when an I/O module is unacknowledged.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the state of the I/O module links.

Step 2 Reacknowledge the chassis.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: equipment-unacknowledged
mibFaultCode: 735
mibFaultName: fltEquipmentIOCardUnacknowledged
moClass: equipment:IOCard
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentIOCardPeerDisconnected

Fault Code: F0736

Message

IOM [chassisId]/[id] ([switchId]) peer connectivity: [peerCommStatus]

Explanation

This fault typically occurs when an I/O module is unable to communicate with its peer I/O module.

Recommended Action

If you see this fault, take the following actions:

Step 1 Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade.

Step 2 If the fault does not clear after a few minutes, remove and reinsert the I/O module.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: equipment-disconnected
mibFaultCode: 736
mibFaultName: fltEquipmentIOCardPeerDisconnected
moClass: equipment:IOCard
Type: connectivity
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentChassisIdentity

Fault Code: F0737

Message

Chassis [id] has a mismatch between FRU identity reported by Fabric/IOM vs. FRU identity reported by CMC

Explanation

This fault typically occurs when the FRU information for an I/O module is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 737
mibFaultName: fltEquipmentChassisIdentity
moClass: equipment:Chassis
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentChassisInvalid-fru

Fault Code: F0738

Message

Chassis [id] has a empty value for FRU identity reported by CMC.

Explanation

This fault typically occurs when the FRU information for a chassis has empty value.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 738
mibFaultName: fltEquipmentChassisInvalidFru
moClass: equipment:Chassis
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentChassisPowerProblem

Fault Code: F0739

Message

Power state on chassis [id] is [power]

Explanation

This fault typically occurs when the chassis fails to meet the minimal power requirements defined in the power policy or when one or more power supplies have failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 In Cisco FPR Manager, verify that all PSUs for the chassis are functional.

Step 2 Verify that all PSUs are seated properly within the chassis and are powered on.

Step 3 Physically unplug and replug the power cord into the chassis.

Step 4 If all PSUs are operating at maximum capacity, either add more PSUs to the chassis or redefine the power policy in Cisco FPR Manager.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: power-problem
mibFaultCode: 739
mibFaultName: fltEquipmentChassisPowerProblem
moClass: equipment:Chassis
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentChassisThermalThresholdCritical

Fault Code: F0740

Message

Chassis thermal state is [thermal]. [faultMsg]

Explanation

This fault occurs under the following conditions:

Step 1 If a component within a chassis is operating outside the safe thermal operating range.

Step 2 If the chassis controller in the IOM is unable to determine the thermal condition of a blade server, the **show tech-support** file for the chassis provides a more detailed report of the most severe thermal conditions currently applicable for that chassis.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the temperature readings for the blade servers and IOM and ensure they are within the recommended thermal safe operating range.

Step 2 If the fault reports a "Thermal Sensor threshold crossing in blade" error for one or more blade servers, check if DIMM or processor temperature related faults have been raised against that blade.

Step 3 If the fault reports a "Thermal Sensor threshold crossing in IOM" error for one or both the IOMs, check if thermal faults have been raised against that IOM. Those faults include details of the thermal condition.

Step 4 If the fault reports a "Missing or Faulty Fan" error, check on the status of that fan. If it needs replacement, create a **show tech-support** file for the chassis and contact Cisco TAC.

Step 5 If the fault reports a "No connectivity between IOM and blade" or "Thermal Sensor readings unavailable from blade" error, check if that blade server is operational and whether any faults have been raised against that blade server. In this situation, the chassis controller may go into a fail-safe operating mode and the fan speeds may increase as a precautionary measure.

Step 6 If the above actions did not resolve the issue and the condition persists, create a **show tech-support** file for Cisco FPR Manager and the chassis and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 740
mibFaultName: fltEquipmentChassisThermalThresholdCritical
moClass: equipment:Chassis
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentChassisThermalThresholdNonCritical

Fault Code: F0741

Message

Thermal condition on chassis [id]. [thermalStateQualifier]

Explanation

FPRM raises this fault under the following conditions:

Step 1 If a component within a chassis is operating outside the safe thermal operating range.

Step 2 If the chassis controller in the IOM is unable to determine the thermal condition of a blade server, the **show tech-support** file for the chassis provides a more detailed report of the most severe thermal conditions currently applicable for that chassis.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the temperature readings for the blade servers and IOM and ensure they are within the recommended thermal safe operating range.

Step 2 If the fault reports a "Thermal Sensor threshold crossing in blade" error for one or more blade servers, check if DIMM or processor temperature related faults have been raised against that blade.

Step 3 If the fault reports a "Thermal Sensor threshold crossing in IOM" error for one or both the IOMs, check if thermal faults have been raised against that IOM. Those faults include details of the thermal condition.

Step 4 If the fault reports a "Missing or Faulty Fan" error, check on the status of that fan. If it needs replacement, create a **show tech-support** file for the chassis and contact Cisco TAC.

Step 5 If the fault reports a "No connectivity between IOM and blade" or "Thermal Sensor readings unavailable from blade" error, check if that blade server is operational and whether any faults have been raised against that blade server. In this situation, the chassis controller may go into a fail-safe operating mode and the fan speeds may increase as a precautionary measure.

Step 6 If the above actions did not resolve the issue and the condition persists, create a **show tech-support** file for Cisco FPR Manager and the chassis and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 741
mibFaultName: fltEquipmentChassisThermalThresholdNonCritical
moClass: equipment:Chassis
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentChassisThermalThresholdNonRecoverable

Fault Code: F0742

Message

Thermal condition on chassis [id]. [thermalStateQualifier]

Explanation

FPRM raises this fault under the following conditions:

Step 1 If a component within a chassis is operating outside the safe thermal operating range.

Step 2 If the chassis controller in the IOM is unable to determine the thermal condition of a blade server, the **show tech-support** file for the chassis provides a more detailed report of the most severe thermal conditions currently applicable for that chassis.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the temperature readings for the blade servers and IOM and ensure they are within the recommended thermal safe operating range.

Step 2 If the fault reports a "Thermal Sensor threshold crossing in blade" error for one or more blade servers, check if DIMM or processor temperature related faults have been raised against that blade.

Step 3 If the fault reports a "Thermal Sensor threshold crossing in IOM" error for one or both the IOMs, check if thermal faults have been raised against that IOM. Those faults include details of the thermal condition.

Step 4 If the fault reports a "Missing or Faulty Fan" error, check on the status of that fan. If it needs replacement, create a **show tech-support** file for the chassis and contact Cisco TAC.

Step 5 If the fault reports a "No connectivity between IOM and blade" or "Thermal Sensor readings unavailable from blade" error, check if that blade server is operational and whether any faults have been raised against that blade server. In this situation, the chassis controller may go into a fail-safe operating mode and the fan speeds may increase as a precautionary measure.

Step 6 If the above actions did not resolve the issue and the condition persists, create a **show tech-support** file for Cisco FPR Manager and the chassis and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 742
mibFaultName: fltEquipmentChassisThermalThresholdNonRecoverable
moClass: equipment:Chassis
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]
```

fltEquipmentIOCardIdentity

Fault Code: F0743

Message

[side] IOM [chassisId]/[id] ([switchId]) has a malformed FRU

Explanation

This fault typically occurs when the FRU information for an I/O module is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 743
mibFaultName: fltEquipmentIOCardIdentity
moClass: equipment:IOCard
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]
Affected MO: sys/fex-[id]/slot-[id]
```

fltEquipmentFexIdentity

Fault Code: F0744

Message

Fex [id] has a malformed FRU

Explanation

This fault typically occurs when the FRU information for a FEX is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 744
mibFaultName: fltEquipmentFexIdentity
```

moClass: equipment:Fex
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fex-[id]

fltEquipmentFanModuleIdentity

Fault Code: F0745

Message

Fan Module [tray]-[id] in chassis [id] has a malformed FRUFan Module [tray]-[id] in server [id] has a malformed FRUFan Module [tray]-[id] in fabric interconnect [id] has a malformed FRU

Explanation

This fault typically occurs when the FRU information for a fan module is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: fru-problem
mibFaultCode: 745
mibFaultName: fltEquipmentFanModuleIdentity
moClass: equipment:FanModule
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]

fltEquipmentPsuIdentity

Fault Code: F0746

Message

Power supply [id] on chassis [id] has a malformed FRUPower supply [id] on server [id] has a malformed FRU

Explanation

This fault typically occurs when the FRU information for a power supply unit is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 746
mibFaultName: fltEquipmentPsuIdentity
moClass: equipment:Psu
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuPowerThreshold

Fault Code: F0747

Message

Power supply [id] on chassis [id] has exceeded its power thresholdPower supply [id] on server [id] has exceeded its power threshold

Explanation

This fault occurs when a power supply unit is drawing too much current.

Recommended Action

If you see this fault, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: power-problem
mibFaultCode: 747
mibFaultName: fltEquipmentPsuPowerThreshold
moClass: equipment:Psu
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentPsuInputError

Fault Code: F0748

Message

Power supply [id] on chassis [id] has disconnected cable or bad input voltagePower supply [id] on server [id] has disconnected cable or bad input voltage

Explanation

This fault occurs when a power cable is disconnected or input voltage is incorrect.

Recommended Action

If you see this fault, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: power-problem
mibFaultCode: 748
mibFaultName: fltEquipmentPsuInputError
moClass: equipment:Psu
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]
```

fltEquipmentSwitchCardPowerOff

Fault Code: F0749

Message

Switch card is powered down.

Explanation

This fault occurs when the switch card is powered down.

Recommended Action

If you see this fault, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: power-down
mibFaultCode: 749
mibFaultName: fltEquipmentSwitchCardPowerOff
moClass: equipment:SwitchCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/slot-[id]
```

fltEquipmentSwitchCardAct2LiteFail

Fault Code: F0750

Message

Failed Identification Test in slot - [id] ([descr]). The module in this slot may not be a genuine product. warranties and support programs only apply to genuine products. If its determined that your insertion of non genuine modules into a product is the cause of a support issue, support under your warranty may be denied or under a support program such as SmartNet.

Explanation

This fault occurs when the ACT2 chip fails.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: critical
Cause: act2-fail
mibFaultCode: 750
mibFaultName: fltEquipmentSwitchCardAct2LiteFail
moClass: equipment:SwitchCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/slot-[id]
```

fltEquipmentHealthLedCriticalError

Fault Code: F0751

Message

Health LED of server [chassisId]/[slotId] shows error. Reason: [healthLedStateQualifier]Health LED of server [id] shows error. Reason: [healthLedStateQualifier]

Explanation

This fault is raised Blade LED changes to amber blinking

Recommended Action

If you see this fault, take the following actions:

Step 1 Read fault summary and determine course of action.

Fault Details

```
Severity: critical
Cause: health-led-amber-blinking
mibFaultCode: 751
mibFaultName: fltEquipmentHealthLedCriticalError
```

moClass: equipment:HealthLed
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/health-led
Affected MO: sys/chassis-[id]/blade-[slotId]/health-led
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/chassis-[id]/health-led
Affected MO: sys/chassis-[id]/psu-[id]/health-led
Affected MO: sys/chassis-[id]/slot-[id]/health-led
Affected MO: sys/fex-[id]/health-led
Affected MO: sys/fex-[id]/psu-[id]/health-led
Affected MO: sys/fex-[id]/slot-[id]/health-led
Affected MO: sys/rack-unit-[id]/ext-board-[id]/health-led
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/rack-unit-[id]/health-led
Affected MO: sys/rack-unit-[id]/psu-[id]/health-led
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/switch-[id]/psu-[id]/health-led

fltEquipmentTpmSlaveTpm

Fault Code: F0752

Message

Server [chassisId]/[slotId], has a Tpm present on the Slave Board.

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: info
Cause: tpm-on-slave-board
mibFaultCode: 752
mibFaultName: fltEquipmentTpmSlaveTpm
moClass: equipment:Tpm
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/Tpm-[id]
Affected MO: sys/rack-unit-[id]/board/Tpm-[id]

fltEquipmentHealthLedMinorError

Fault Code: F0753

Message

Health LED of server [chassisId]/[slotId] shows error. Reason: [healthLedStateQualifier]Health LED of server [id] shows error. Reason: [healthLedStateQualifier]

Explanation

This fault is raised Blade LED changes to amber

Recommended Action

If you see this fault, take the following actions:

Step 1 Read fault summary and determine course of action.

Fault Details

```
Severity: minor
Cause: health-led-amber
mibFaultCode: 753
mibFaultName: fltEquipmentHealthLedMinorError
moClass: equipment:HealthLed
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/health-led
Affected MO: sys/chassis-[id]/blade-[slotId]/health-led
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/chassis-[id]/health-led
Affected MO: sys/chassis-[id]/psu-[id]/health-led
Affected MO: sys/chassis-[id]/slot-[id]/health-led
Affected MO: sys/fex-[id]/health-led
Affected MO: sys/fex-[id]/psu-[id]/health-led
Affected MO: sys/fex-[id]/slot-[id]/health-led
Affected MO: sys/rack-unit-[id]/ext-board-[id]/health-led
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/rack-unit-[id]/health-led
Affected MO: sys/rack-unit-[id]/psu-[id]/health-led
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]/health-led
Affected MO: sys/switch-[id]/psu-[id]/health-led
```

fltEquipmentSwitchIOCardRemoved

Fault Code: F0754

Message

[side] FI IOM [chassisId]/[id] ([switchId]) is removed

Explanation

This fault typically occurs because an FI I/O module is removed from the chassis. In a cluster configuration, the chassis fails over to the other FI I/O module. For a standalone configuration, the chassis associated with the FI I/O module loses network connectivity. This is a critical fault because it can result in the loss of network connectivity and disrupt data traffic through the FI I/O module.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reinsert the FI I/O module and configure the fabric-interconnect ports connected to it as server ports and wait a few minutes to see if the fault clears.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-removed
mibFaultCode: 754
mibFaultName: fltEquipmentSwitchIOCardRemoved
moClass: equipment:SwitchIOCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardThermalProblem

Fault Code: F0755

Message

[side] FI IOM [chassisId]/[id] ([switchId]) operState: [operState]

Explanation

This fault occurs when there is a thermal problem on an FI I/O module. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the FI I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the FI I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace faulty FI I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 755
mibFaultName: fltEquipmentSwitchIOCardThermalProblem
moClass: equipment:SwitchIOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardThermalThresholdNonCritical

Fault Code: F0756

Message

[side] FI IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an FI I/O module has exceeded a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the FI I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and FI I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and FI I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 756
mibFaultName: fltEquipmentSwitchIOCardThermalThresholdNonCritical
moClass: equipment:SwitchIOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardThermalThresholdCritical

Fault Code: F0757

Message

[side] FI IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an FI I/O module has exceeded a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the FI I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and FI I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and FI I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty FI I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 757
mibFaultName: fltEquipmentSwitchIOCardThermalThresholdCritical
moClass: equipment:SwitchIOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardThermalThresholdNonRecoverable

Fault Code: F0758

Message

[side] FI IOM [chassisId]/[id] ([switchId]) temperature: [thermal]

Explanation

This fault occurs when the temperature of an FI I/O module has been out of the operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the FI I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and FI I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and FI I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty FI I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 758
mibFaultName: fltEquipmentSwitchIOCardThermalThresholdNonRecoverable
moClass: equipment:SwitchIOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardIdentity

Fault Code: F0759

Message

[side] FI IOM [chassisId]/[id] ([switchId]) has a malformed FRU

Explanation

This fault typically occurs when the FRU information for an FI I/O module is corrupted or malformed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fru-problem
mibFaultCode: 759
mibFaultName: fltEquipmentSwitchIOCardIdentity
moClass: equipment:SwitchIOCard
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltEquipmentSwitchIOCardCpuThermalThresholdCritical

Fault Code: F0760

Message

[side] FI IOM [chassisId]/[id] ([switchId]) processor temperature exceeded the limit

Explanation

This fault typically occurs when the processor temperature in FI-IOM exceeds the limit.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the FI I/O module.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the chassis and FI I/O modules have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis and FI I/O module are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Replace the faulty FI I/O modules.

Step 8 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 9 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: thermal-problem
mibFaultCode: 760
mibFaultName: fltEquipmentSwitchIOCardCpuThermalThresholdCritical
moClass: equipment:SwitchIOCard
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/sw-slot-[id]
```

fltExtpolClientClientLostConnectivity

Fault Code: F0792

Message

FPRM has lost connectivity with Firepower Central

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: client-lost-connectivity
mibFaultCode: 792
mibFaultName: fltExtpolClientClientLostConnectivity
moClass: extpol:Client
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning

Fault Code: F0793

Message

FPR domain [name] registered with FPR Central has entered into the grace period.

Explanation

A FPR domain is registered with FPR Central without having a license. This fault typically occurs if this FPR domain is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for the FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under license scope from **service-reg** session.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: license-graceperiod-entered
mibFaultCode: 793
mibFaultName: fltExtpolClientGracePeriodWarning
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning2

Fault Code: F0794

Message

FPR Domain [name] registered with FPR Central is running in the grace period for more than 10 days

Explanation

This FPR domain is registered with FPR Central without having a license. This fault typically occurs if this FPR domain is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for the FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: license-graceperiod-10days
mibFaultCode: 794
mibFaultName: fltExtpolClientGracePeriodWarning2
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning3

Fault Code: F0795

Message

FPR Domain [name] registered with FPR Central is running in the grace period for more than 30 days

Explanation

This FPR Domain registered with FPR Central has been running in the grace period for more than 30 days. This fault typically occurs if this FPR domain is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains and the unlicensed FPR Domains have been running for more than 120 days.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Manager GUI, you can access the licensing information from the Operations Management tab for the FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
```

Cause: license-graceperiod-30days
mibFaultCode: 795
mibFaultName: fltExtpolClientGracePeriodWarning3
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]

fltExtpolClientGracePeriodWarning4

Fault Code: F0796

Message

FPR Domain [name] registered with FPR Central is running in the grace period for more than 60 days

Explanation

This FPR Domain registered with FPR Central has been running in the grace period for more than 60 days. This fault typically occurs if this FPR domain is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains and the unlicensed FPR Domains have been running for more than 60 days.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for the FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: license-graceperiod-60days
mibFaultCode: 796
mibFaultName: fltExtpolClientGracePeriodWarning4
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]

fltExtpolClientGracePeriodWarning5

Fault Code: F0797

Message

FPR Domain [name] registered with FPR Central is running in the grace period for more than 90 days

Explanation

This FPR Domain registered with FPR Central has been running in the grace period for more than 90 days. This fault typically occurs if this FPR domains is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains and the unlicensed FPR Domains have been running for more than 90 days.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed by FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for the FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: license-graceperiod-90days
mibFaultCode: 797
mibFaultName: fltExtpolClientGracePeriodWarning5
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning6

Fault Code: F0798

Message

FPR Domain [name] registered with FPR Central is running in the grace period for more than 119 days

Explanation

This FPR Domain registered with FPR Central has been running in the grace period for more than 119 days. This fault typically occurs if this FPR domain is registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains and the unlicensed FPR Domains have been running for more than 119 days.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: license-graceperiod-119days
mibFaultCode: 798
mibFaultName: fltExtpolClientGracePeriodWarning6
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning7

Fault Code: F0799

Message

Grace period for FPR Domain [name] registered with FPR Central has expired. Please acquire a license for the same.

Explanation

This FPR Domain registered with FPR Central has been running in the grace period for more than 120 days. FPR domains are registered with FPR Central after all default (and procured) licenses are assigned to other FPR domains and the unlicensed FPR Domains have been running for more than 120 days. At this stage, the system licensing state is set to expired.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the number of licenses installed and consumed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 Disable the unlicensed FPR Domains to bring the number of enabled Domains down to the number of total licenses.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC immediately to procure more licenses.

Fault Details

```
Severity: critical
Cause: license-graceperiod-expired
mibFaultCode: 799
mibFaultName: fltExtpolClientGracePeriodWarning7
moClass: extpol:Client
Type: management
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltExtpolClientGracePeriodWarning1

Fault Code: F0800

Message

FPR Domain [name] is registered with FPR Central without a valid license.

Explanation

This FPR domain is registered with FPR Central without having a license. This fault typically occurs if this FPR domain is registered with FPR Central without the initial activation license and after all default licenses are assigned to other FPR domains.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check if the initial activation license is installed on FPR Central. In the Cisco FPR Central GUI, you can access the licensing information from the Operations Management tab for FPR Central. In the Cisco FPR Central CLI, you can access the licensing information by entering the **show usage detail** command under the license scope.

Step 2 Disable the unlicensed FPR Domains to bring the number of enabled Domains down to the number of total licenses.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC immediately to procure more licenses.

Fault Details

```
Severity: critical
Cause: license-insufficient
mibFaultCode: 800
mibFaultName: fltExtpolClientGracePeriodWarning1
moClass: extpol:Client
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: extpol/reg/clients/client-[id]
```

fltStorageLocalDiskInoperable

Fault Code: F0809

Message

Local disk [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Local disk [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the local disk has become inoperable.

Recommended Action

If you see this fault, take the following actions:

Step 1 Insert the disk in a supported slot.

Step 2 Remove and reinsert the local disk.

Step 3 Replace the disk, if an additional disk is available.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 809
mibFaultName: fltStorageLocalDiskInoperable
moClass: storage:LocalDisk
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]
```

fltStorageLocalDiskDegraded

Fault Code: F0810

Message

Local disk [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Local disk [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the local disk has become degraded. The fault description will contain the physical drive state, which indicates the reason for the degradation.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the drive state is "rebuild" or "copyback", wait for the rebuild or copyback operation to complete.

Step 2 If the drive state is "predictive-failure", replace the disk.

Fault Details

```
Severity: warning
Cause: equipment-degraded
mibFaultCode: 810
mibFaultName: fltStorageLocalDiskDegraded
moClass: storage:LocalDisk
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]
```

fltStorageLocalDiskSlotEpUnusable

Fault Code: F0811

Message

Local disk [id] on server [serverId] is not usable by the operating system

Explanation

This fault occurs when the server disk drive is in a slot that is not supported by the storage controller.

Recommended Action

If you see this fault, take the following actions:

Step 1 Insert the server disk drive in a supported slot.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: equipment-inoperable
mibFaultCode: 811
mibFaultName: fltStorageLocalDiskSlotEpUnusable
moClass: storage:LocalDiskSlotEp
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/disk-[id]
Affected MO: sys/rack-unit-[id]/board/disk-[id]
```

fltStorageItemCapacityExceeded

Fault Code: F0812

Message

Disk usage for partition [name] on fabric interconnect [id] exceeded 70%

Explanation

This fault occurs when the partition disk usage exceeds 70% but is less than 90%.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reduce the partition disk usage to less than 70% by deleting unused and unnecessary files.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: capacity-exceeded
mibFaultCode: 812
mibFaultName: fltStorageItemCapacityExceeded
```

```
moClass: storage:Item
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/stor-part-[name]
```

fltStorageItemCapacityWarning

Fault Code: F0813

Message

Disk usage for partition [name] on fabric interconnect [id] exceeded 90%

Explanation

This fault occurs when the partition disk usage exceeds 90%.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reduce the partition disk usage to less than 90% by deleting unused and unnecessary files.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: capacity-exceeded
mibFaultCode: 813
mibFaultName: fltStorageItemCapacityWarning
moClass: storage:Item
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/stor-part-[name]
```

fltStorageItemFilesystemIssues

Fault Code: F0814

Message

Partition [name] on fabric interconnect [id] has file system errors

Explanation

This fault occurs when the partition develops faults

Recommended Action

If you see this fault, take the following actions:

Step 1 Create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-degraded
mibFaultCode: 814
mibFaultName: fltStorageItemFilesystemIssues
moClass: storage:Item
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/stor-part-[name]
```

fltStorageRaidBatteryInoperable

Fault Code: F0815

Message

RAID Battery on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]RAID Battery on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the RAID backup unit is not operational.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the backup unit is a battery, replace the battery.

Step 2 If the backup unit is a supercapacitor type and the supercapacitor is missing, verify its presence and supply if missing.

Step 3 If the backup unit is a supercapacitor type and the TFM is missing, verify its presence and supply if missing.

Step 4 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 815
mibFaultName: fltStorageRaidBatteryInoperable
moClass: storage:RaidBattery
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/raid-battery
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/raid-battery
```

fltStorageMezzFlashLifeConfiguration-error

Fault Code: F0816

Message

Flash Life on server [chassisId]/[slotId] flashStatus: [flashStatus]

Explanation

This fault occurs when FPRM is not able to retrieve the Fusion-io life left due to an error.

Recommended Action

If you see this fault, take the following actions:

Step 1 Upgrade Fusion-io Firmware.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: configuration-error
mibFaultCode: 816
mibFaultName: fltStorageMezzFlashLifeConfigurationError
moClass: storage:MezzFlashLife
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/flash-life-
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/flash-life-
```

fltStorageMezzFlashLifeDegraded

Fault Code: F0817

Message

Flash Life on server [chassisId]/[slotId] flashStatus: [flashStatus]

Explanation

This fault occurs when the Fusion-io life left is 10 percent or less.

Recommended Action

If you see this fault, take the following actions:

Step 1 Continue to monitor the the Fusion-io life left and if it reaches 0 percent, the adapter might revert to read-only.

Fault Details

```
Severity: warning
Cause: equipment-degraded
mibFaultCode: 817
mibFaultName: fltStorageMezzFlashLifeDegraded
moClass: storage:MezzFlashLife
```

Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/flash-life-
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/flash-life-

fltStorageRaidBatteryDegraded

Fault Code: F0818

Message

RAID Battery on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]RAID Battery on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the RAID backup unit is degraded.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the fault reason indicates the backup unit is in a relearning cycle, wait for relearning to complete.

Step 2 If the fault reason indicates the backup unit is about to fail, replace the backup unit.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: minor
Cause: equipment-degraded
mibFaultCode: 818
mibFaultName: fltStorageRaidBatteryDegraded
moClass: storage:RaidBattery
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/raid-battery
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/raid-battery

fltStorageRaidBatteryRelearnAborted

Fault Code: F0819

Message

RAID Battery on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]RAID Battery on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when the backup unit's relearning cycle was aborted.

Recommended Action

If you see this fault, take the following actions:

Step 1 Retry the learn cycle.

Step 2 Replace the backup unit.

Fault Details

```
Severity: minor
Cause: equipment-degraded
mibFaultCode: 819
mibFaultName: fltStorageRaidBatteryRelearnAborted
moClass: storage:RaidBattery
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/raid-battery
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/raid-battery
```

fltStorageRaidBatteryRelearnFailed

Fault Code: F0820

Message

RAID Battery on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]RAID Battery on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when the backup unit's relearning cycle has failed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Retry the learn cycle.

Step 2 Replace the backup unit.

Fault Details

```
Severity: major
Cause: equipment-degraded
mibFaultCode: 820
mibFaultName: fltStorageRaidBatteryRelearnFailed
moClass: storage:RaidBattery
Type: equipment
```

```
Callhome: diagnostic
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/raid-battery
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/raid-battery
```

fltStorageInitiatorConfiguration-error

Fault Code: F0821

Message

Initiator [name] either cannot be resolved or does not match with one of the storage targets. No zones are deployed for this initiator and the target.

Explanation

Initiator either cannot be resolved or does not match with one of the targets.

Recommended Action

If you see this fault, take the following action:

Step 1 Check if vhba interface referenced by this Initiator exsits.

Step 2 Check if switch id or vsan name of the vhba interface referenced by this Initiator matches one of the targets.

Fault Details

```
Severity: warning
Cause: configuration-error
mibFaultCode: 821
mibFaultName: fltStorageInitiatorConfigurationError
moClass: storage:Initiator
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/grp-[name]/ini-[name]
Affected MO: org-[name]/san-conn-pol-[name]/grp-[name]/ini-[name]
Affected MO: org-[name]/tier-[name]/ls-[name]/grp-[name]/ini-[name]
```

fltStorageControllerPatrolReadFailed

Fault Code: F0822

Message

Controller [id] on server [chassisId]/[slotId] had a patrol read failure. Reason: [operQualifierReason]Controller [id] on server [id] had a patrol read failure. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when a Patrol Read operation has failed.

Recommended Action

Re-run the patrol read operation.

Fault Details

```
Severity: warning
Cause: operation-failed
mibFaultCode: 822
mibFaultName: fltStorageControllerPatrolReadFailed
moClass: storage:Controller
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]
```

fltStorageControllerInoperable

Fault Code: F0823

Message

Controller [id] on server [chassisId]/[slotId] is inoperable. Reason: [operQualifierReason]Controller [id] on server [id] is inoperable. Reason: [operQualifierReason]

Explanation

This fault occurs when the storage controller is inaccessible.

Recommended Action

For PCI and mezz-based storage controllers, check the seating of the storage controller. If the problem persists, replace the controller.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 823
mibFaultName: fltStorageControllerInoperable
moClass: storage:Controller
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]
```

fltStorageLocalDiskRebuildFailed

Fault Code: F0824

Message

Local disk [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Local disk [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when a rebuild operation has failed. This may cause a degradation in performance.

Recommended Action

If you see this fault, take the following action:

Step 1 Retry the rebuild operation.

Step 2 Replace the disk.

Fault Details

```
Severity: major
Cause: equipment-offline
mibFaultCode: 824
mibFaultName: fltStorageLocalDiskRebuildFailed
moClass: storage:LocalDisk
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]
```

fltStorageLocalDiskCopybackFailed

Fault Code: F0825

Message

Local disk [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Local disk [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when a copyback operation has failed. This may cause a degradation in performance.

Recommended Action

If you see this fault, take the following action:

Step 1 Retry the copyback operation.

Step 2 Replace the disk.

Fault Details

```
Severity: major
Cause: equipment-offline
mibFaultCode: 825
mibFaultName: fltStorageLocalDiskCopybackFailed
moClass: storage:LocalDisk
Type: equipment
```

```
Callhome: diagnostic
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]
```

fltStorageLocalDiskMissing

Fault Code: F0826

Message

Local disk [id] missing on server [chassisId]/[slotId]Local disk [id] missing on server [id]

Explanation

This fault occurs when a disk is missing.

Recommended Action

If you see this fault, take the following action:

Step 1 Insert the disk.

Fault Details

```
Severity: info
Cause: equipment-missing
mibFaultCode: 826
mibFaultName: fltStorageLocalDiskMissing
moClass: storage:LocalDisk
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/disk-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/disk-[id]
```

fltStorageVirtualDriveInoperable

Fault Code: F0827

Message

Virtual drive [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Virtual drive [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the virtual drive has become inoperable.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the presence and health of disks that are used by the virtual drive.

Step 2 If applicable, reseat or replace used disks.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 827
mibFaultName: fltStorageVirtualDriveInoperable
moClass: storage:VirtualDrive
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/vd-[id]
```

fltStorageVirtualDriveDegraded

Fault Code: F0828

Message

Virtual drive [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Virtual drive [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

This fault occurs when the virtual drive has become degraded. The fault description will contain the physical drive state, which indicates the reason for the degradation.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the drive is performing a consistency check operation, wait for the operation to complete.

Step 2 Verify the presence and health of disks that are used by the virtual drive.

Step 3 If applicable, reseat or replace used disks.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-degraded
mibFaultCode: 828
mibFaultName: fltStorageVirtualDriveDegraded
moClass: storage:VirtualDrive
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/vd-[id]
```

fltStorageVirtualDriveReconstructionFailed

Fault Code: F0829

Message

Virtual drive [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Virtual drive [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when a drive reconstruction operation has failed. This may cause a degradation in performance.

Recommended Action

If you see this fault, take the following action:

Step 1 Retry the reconstruction operation.

Step 2 Delete and recreate the virtual drive.

Fault Details

```
Severity: major
Cause: equipment-degraded
mibFaultCode: 829
mibFaultName: fltStorageVirtualDriveReconstructionFailed
moClass: storage:VirtualDrive
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/vd-[id]
```

fltStorageVirtualDriveConsistencyCheckFailed

Fault Code: F0830

Message

Virtual drive [id] on server [chassisId]/[slotId] operability: [operability]. Reason: [operQualifierReason]Virtual drive [id] on server [id] operability: [operability]. Reason: [operQualifierReason]

Explanation

NOTE: This fault is not currently implemented by Firepower ManagerThis fault is present only as a placeholder, possibly for another release,such as stand-alone rack servers.---This fault occurs when a drive consistency check operation has failed. This may cause a degradation in performance.

Recommended Action

If you see this fault, take the following action:

Step 1 Retry the consistency check operation.

Step 2 Delete and recreate the virtual drive.

Fault Details

```
Severity: major
Cause: equipment-degraded
mibFaultCode: 830
mibFaultName: fltStorageVirtualDriveConsistencyCheckFailed
moClass: storage:VirtualDrive
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: false
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-[type]-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-[type]-[id]/vd-[id]
```

fltStorageFlexFlashControllerInoperable

Fault Code: F0831

Message

FlexFlash Controller [id] on server [chassisId]/[slotId] is inoperable. Reason: [operQualifierReason] Status: [controllerHealth]FlexFlash Controller [id] on server [id] is inoperable. Reason: [operQualifierReason] Status: [controllerHealth]

Explanation

This fault occurs when the flexflash controller is inaccessible.

Recommended Action

If you see this fault, take the following action:

Step 1 If reported as Firmware Mismatch, update the CIMC and Board Controller firmware

Step 2 If reported as Fatal Error, reset the CIMC and update Board Controller firmware

Step 3 For PCI and mezz-based controllers, check the seating of the storage controller. If the problem persists, replace the controller

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 831
mibFaultName: fltStorageFlexFlashControllerInoperable
moClass: storage:FlexFlashController
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]
```

fltStorageFlexFlashCardInoperable

Fault Code: F0832

Message

FlexFlash Card [slotNumber] on server [chassisId]/[slotId] is inoperable. Reason: [operQualifierReason]FlexFlash Card [slotNumber] on server [id] is inoperable. Reason: [operQualifierReason]

Explanation

This fault occurs when the flexflash card is inaccessible.

Recommended Action

If you see this fault, take the following action:

Step 1 If reported as Write Protected, then remove write protection from the card

Step 2 If reported as Invalid Capacity, use an OS disk utility to delete/recreate the partitions

Step 3 If the above action did not resolve the issue, replace the card

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 832
mibFaultName: fltStorageFlexFlashCardInoperable
moClass: storage:FlexFlashCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/card-[slotNumber]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]/card-[slotNumber]
```

fltStorageFlexFlashCardMissing

Fault Code: F0833

Message

FlexFlash Card [slotNumber] missing on server [chassisId]/[slotId]FlexFlash Card [slotNumber] missing on server [id]

Explanation

This fault occurs when a FlexFlash Card is missing.

Recommended Action

If you see this fault, take the following action:

Step 1 Insert the Card.

Fault Details

```
Severity: info
Cause: equipment-missing
mibFaultCode: 833
mibFaultName: fltStorageFlexFlashCardMissing
moClass: storage:FlexFlashCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/card-[slotNumber]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]/card-[slotNumber]
```

fltStorageFlexFlashVirtualDriveDegraded

Fault Code: F0834

Message

FlexFlash Virtual Drive RAID degraded on server [chassisId]/[slotId]. Reason: [raidState]FlexFlash Virtual Drive RAID degraded on server [id]. Reason: [raidState]

Explanation

This fault occurs when the flexflash raid is degraded.

Recommended Action

If you see this fault, take the following action:

Step 1 Re-acknowledge the server by setting the flexflash scrub policy to yes. Please note that this action will erase all data in the card(s)

Step 2 Verify the health of the controller/card(s). If the above action did not resolve the issue, replace the card(s)

Fault Details

```
Severity: minor
Cause: equipment-degraded
mibFaultCode: 834
mibFaultName: fltStorageFlexFlashVirtualDriveDegraded
moClass: storage:FlexFlashVirtualDrive
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]/vd-[id]
```

fltStorageFlexFlashVirtualDriveInoperable

Fault Code: F0835

Message

FlexFlash Virtual Drive on server [chassisId]/[slotId] is inoperable. Reason: [raidState]FlexFlash Virtual Drive on server [id] is inoperable. Reason: [raidState]

Explanation

This fault occurs when the flexflash virtual drive is inoperable.

Recommended Action

If you see this fault, take the following action:

Step 1 Re-acknowledge the server by setting the flexflash scrub policy to yes. Please note that this action will erase all data in the card(s)

Step 2 Verify the health of the controller/card(s). If the above action did not resolve the issue, replace the card(s)

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 835
mibFaultName: fltStorageFlexFlashVirtualDriveInoperable
moClass: storage:FlexFlashVirtualDrive
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/vd-[id]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]/vd-[id]
```

fltStorageFlexFlashControllerUnhealthy

Fault Code: F0836

Message

FlexFlash Controller [id] on server [chassisId]/[slotId] is unhealthy. Reason: [operQualifierReason] Status: [controllerHealth]FlexFlash Controller [id] on server [id] is unhealthy. Reason: [operQualifierReason] Status: [controllerHealth]

Explanation

This fault occurs when the flexflash controller is unhealthy.

Recommended Action

If you see this fault, take the following action:

Step 1 If reported as Old Firmware/Firmware Mismatch, update the CIMC and Board Controller firmware, reboot the server

Step 2 Re-acknowledge the server by setting the flexflash scrub policy to yes. Please note that this action will erase all data in the card(s)

Step 3 Verify the health of the controller. If the above action did not resolve the issue, replace the card(s)

Fault Details

```
Severity: minor
Cause: equipment-unhealthy
mibFaultCode: 836
mibFaultName: fltStorageFlexFlashControllerUnhealthy
moClass: storage:FlexFlashController
Type: equipment
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]

fltStorageFlexFlashControllerMismatch

Fault Code: F0837

Message

FlexFlash Controller [id] on server [chassisId]/[slotId] has SD cards with different sizes.FlexFlash Controller [id] on server [id] has SD cards with different sizes.

Explanation

This fault occurs when the flexflash SD Cards dont match in size.

Recommended Action

If you see this fault, take the following action:

Step 1 Remove one of the existing cards and replace it with another card that has the same size as the unremoved one.

Fault Details

Severity: major
Cause: equipment-unhealthy
mibFaultCode: 837
mibFaultName: fltStorageFlexFlashControllerMismatch
moClass: storage:FlexFlashController
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]

fltStorageFlexFlashDriveUnhealthy

Fault Code: F0838

Message

FlexFlash Drive [id] on server [chassisId]/[slotId] is unhealthy. Reason: [operQualifierReason] Status: [operationState]FlexFlash Drive [id] on server [id] is unhealthy. Reason: [operQualifierReason] Status: [operationState]

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: equipment-unhealthy
mibFaultCode: 838
mibFaultName: fltStorageFlexFlashDriveUnhealthy
moClass: storage:FlexFlashDrive
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/card-[slotNumber]/drive-[
name]
Affected MO:
sys/rack-unit-[id]/board/storage-flexflash-[id]/card-[slotNumber]/drive-[name]
```

fltStorageFlexFlashCardUnhealthy

Fault Code: F0839

Message

FlexFlash Card [slotNumber] on server [chassisId]/[slotId] is unhealthy. Reason: [cardHealth]FlexFlash Card [slotNumber] on server [id] is unhealthy. Reason: [cardHealth]

Explanation

This fault occurs when the flexflash card is unhealthy.

Recommended Action

If you see this fault, take the following action:

Step 1 Re-acknowledge the server by setting the flexflash scrub policy to yes. Please note that this action will erase all data in the card(s)

Step 2 Verify the health of the card. If the above action did not resolve the issue, replace the card

Fault Details

```
Severity: minor
Cause: equipment-unhealthy
mibFaultCode: 839
mibFaultName: fltStorageFlexFlashCardUnhealthy
moClass: storage:FlexFlashCard
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/board/storage-flexflash-[id]/card-[slotNumber]
Affected MO: sys/rack-unit-[id]/board/storage-flexflash-[id]/card-[slotNumber]
```

fltIppoolPoolEmpty

Fault Code: F0844

Message

IP pool [name] is empty

Explanation

This fault typically occurs when an IP address pool does not contain any IP addresses.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the pool is in use, add a block of IP addresses to the pool.

Step 2 If the pool is not in use, ignore the fault.

Fault Details

```
Severity: minor
Cause: empty-pool
mibFaultCode: 844
mibFaultName: fltIppoolPoolEmpty
moClass: ippool:Pool
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/network-sets/ip-pool-[name]
Affected MO: org-[name]/ip-pool-[name]
```

fltAaaProviderGroupProvidergroup

Fault Code: F0850

Message

For [dn]: Server Group with name [name] already exist, You need to specify a unique name for this object.

Explanation

This fault typically occurs because Cisco FPR Manager has detected multiple provider-groups with same name.

Recommended Action

If you see this fault, take the following actions:

Step 1 Need to delete the duplicate provider group configured causing this problem.

Fault Details

```
Severity: major
Cause: provider-group-already-exists
mibFaultCode: 850
mibFaultName: fltAaaProviderGroupProvidergroup
```

```
moClass: aaa:ProviderGroup
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/ldap-ext/providergroup-[name]
Affected MO: sys/radius-ext/providergroup-[name]
Affected MO: sys/tacacs-ext/providergroup-[name]
```

fltAaaProviderGroupProvidergroupsize

Fault Code: F0851

Message

For [dn]: Server Group [name] has [size] provider references. Authentication might fail, if this provider group is used with auth-domain.

Explanation

This fault typically occurs because Cisco FPR Manager has detected provider-group with 0 provider references..

Recommended Action

If you see this fault, take the following actions:

Step 1 Need to delete the provider group which does not have any provider references.

Step 2 Or Add provider references to provider group.

Fault Details

```
Severity: warning
Cause: provider-group-size-empty
mibFaultCode: 851
mibFaultName: fltAaaProviderGroupProvidergroupsize
moClass: aaa:ProviderGroup
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/ldap-ext/providergroup-[name]
Affected MO: sys/radius-ext/providergroup-[name]
Affected MO: sys/tacacs-ext/providergroup-[name]
```

fltAaaConfigServergroup

Fault Code: F0852

Message

For [dn]: [realm] Server Group with name [providerGroup] doesn’t exist or is not deployed.

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported authentication method.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that server group configured for authentication is present.

Step 2 If the server group is not configured, create the server group to use for authentication.

Fault Details

```
Severity: critical
Cause: invalid-server-group
mibFaultCode: 852
mibFaultName: fltAaaConfigServergroup
moClass: aaa:Config
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/auth-realm/console-auth
Affected MO: sys/auth-realm/default-auth
Affected MO: sys/auth-realm/domain-[name]/domain-auth
```

fltPkiKeyRingStatus

Fault Code: F0853

Message

[name] Keyring's certificate is invalid, reason: [certStatus].

Explanation

This fault occurs when certificate status of Keyring has become invalid.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: invalid-keyring-certificate
mibFaultCode: 853
mibFaultName: fltPkiKeyRingStatus
moClass: pki:KeyRing
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/pki-ext/keyring-[name]
```

fltPkiKeyRingModulus

Fault Code: F0854

Message

[name] Keyring's RSA modulus is invalid.

Explanation

This fault occurs when RSA keyring is created without modulus set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: invalid-keyring-modulus
mibFaultCode: 854
mibFaultName: fltPkiKeyRingModulus
moClass: pki:KeyRing
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/pki-ext/keyring-[name]
```

fltPkiTPStatus

Fault Code: F0855

Message

[name] Trustpoint's cert-chain is invalid, reason: [certStatus].

Explanation

This fault occurs when certificate status of TrustPoint has become invalid.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: invalid-trustpoint-cert-chain
mibFaultCode: 855
mibFaultName: fltPkiTPStatus
moClass: pki:TP
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/pki-ext/tp-[name]
```

fltAaaRoleRoleNotDeployed

Fault Code: F0856

Message

Role [name] can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported role.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that total number of roles is less than maximum supported roles.

Step 2 Verify that sum of privileges across all roles is less than maximum privileges sum.

Fault Details

```
Severity: critical
Cause: role-config-error
mibFaultCode: 856
mibFaultName: fltAaaRoleRoleNotDeployed
moClass: aaa:Role
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/user-ext/role-[name]
```

fltAaaLocaleLocaleNotDeployed

Fault Code: F0857

Message

Locale [name] can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported locale.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that total number of locale is less than maximum supported roles.

Fault Details

```
Severity: critical
Cause: locale-config-error
mibFaultCode: 857
mibFaultName: fltAaaLocaleLocaleNotDeployed
moClass: aaa:Locale
Type: security
Callhome: none
```

Auto Cleared: true
Is Implemented: true
Affected MO: sys/user-ext/locale-[name]

fltAaaOrgLocaleOrgNotPresent

Fault Code: F0858

Message

Locale Org [name] can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unidentified org reference.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the org dn referenced in this Org is exists, if not create the same.

Fault Details

Severity: warning
Cause: locale-org-config-error
mibFaultCode: 858
mibFaultName: fltAaaOrgLocaleOrgNotPresent
moClass: aaa:Org
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/user-ext/locale-[name]/org-[name]

fltAaaUserRoleUserRoleNotDeployed

Fault Code: F0859

Message

For user: [name] role [name] can't be assigned. Error: [configStatusMessage].For Ldap Group: [name] role [name] can't be assigned. Error: [configStatusMessage].

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported user role for ldap groups or local users.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the role is present .

Step 2 Verify that the role is applied .

Step 3 Verify that the role is compatible with locales assigned to ldap group or local user .

Fault Details

```
Severity: critical
Cause: user-role-config-error
mibFaultCode: 859
mibFaultName: fltAaaUserRoleUserRoleNotDeployed
moClass: aaa:UserRole
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/ldap-ext/ldapgroup-[name]/role-[name]
Affected MO: sys/user-ext/remoteuser-[name]/role-[name]
Affected MO: sys/user-ext/user-[name]/role-[name]
```

fltAaaUserLocaleUserLocaleNotDeployed

Fault Code: F0860

Message

For user: [name] locale [name] can't be assigned. Error: [configStatusMessage].For Ldap Group: [name] locale [name] can't be assigned. Error: [configStatusMessage].

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported user locale for ldap groups or local users.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the locale is present .

Step 2 Verify that the locale is applied .

Step 3 Verify that the locale is compatible with roles assigned to ldap group or local user .

Fault Details

```
Severity: critical
Cause: user-locale-config-error
mibFaultCode: 860
mibFaultName: fltAaaUserLocaleUserLocaleNotDeployed
moClass: aaa:UserLocale
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/ldap-ext/ldapgroup-[name]/locale-[name]
Affected MO: sys/user-ext/remoteuser-[name]/locale-[name]
Affected MO: sys/user-ext/user-[name]/locale-[name]
```

fltPkiKeyRingKeyRingNotDeployed

Fault Code: F0861

Message

Keyring [name] can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an invalid Keyring.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the trust point configured for this keyring is present .

Step 2 Verify that the trust point found above is applied .

Fault Details

```
Severity: critical
Cause: keyring-config-error
mibFaultCode: 861
mibFaultName: fltPkiKeyRingKeyRingNotDeployed
moClass: pki:KeyRing
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/pki-ext/keyring-[name]
```

fltCommSnmpSyscontactEmpty

Fault Code: F0862

Message

Manager cannot deploy an empty value of SNMP Syscontact when Callhome is enabled. The previous value [sysContact] for SNMP Syscontact has been retained.

Explanation

This fault typically occurs when FPR Manager receives an invalid configuration from FPR Central wherein SNMP Syscontact is set to empty when Callhome is enabled.

Recommended Action

If you see this fault, please ensure that the SNMP Syscontact field on FPR Central is configured correctly for the domain group corresponding to this FPRM.

Fault Details

```
Severity: warning
Cause: snmp-config-error
mibFaultCode: 862
mibFaultName: fltCommSnmpSyscontactEmpty
moClass: comm:Snmp
Type: configuration
```

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/svc-ext/snmp-svc

fltCommDateTimeCommTimeZoneInvalid

Fault Code: F0863

Message

Timezone:[timezone] is invalid

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported role.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that total number of roles is less than maximum supported roles.

Step 2 Verify that sum of privileges across all roles is less than maximum privileges sum.

Fault Details

Severity: minor
Cause: timezone-file-not-exists
mibFaultCode: 863
mibFaultName: fltCommDateTimeCommTimeZoneInvalid
moClass: comm:DateTime
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/svc-ext/datetime-svc

fltAaaUserLocalUserNotDeployed

Fault Code: F0864

Message

Local User [name] can’t be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an invalid system user.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that local user name is not used by snmp users.

Fault Details

Severity: major

Cause: user-config-error
mibFaultCode: 864
mibFaultName: fltAaaUserLocalUserNotDeployed
moClass: aaa:User
Type: security
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/user-ext/user-[name]

fltCommSnmpUserSnmpUserNotDeployed

Fault Code: F0865

Message

SNMP User [name] can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an invalid snmp user.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that snmp user name is not used by system users.

Fault Details

Severity: major
Cause: snmp-user-config-error
mibFaultCode: 865
mibFaultName: fltCommSnmpUserSnmpUserNotDeployed
moClass: comm:SnmpUser
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/svc-ext/snmp-svc/snmpv3-user-[name]

fltCommSvcEpCommSvcNotDeployed

Fault Code: F0866

Message

Communication Service configuration can't be deployed. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an invalid communication policy confiuration.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that ports configured across all communication services is unique.

Fault Details

```
Severity: major
Cause: comm-svc-config-error
mibFaultCode: 866
mibFaultName: fltCommSvcEpCommSvcNotDeployed
moClass: comm:SvcEp
Type: configuration
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/svc-ext
```

fltSysdebugLogExportStatusLogExportFailure

Fault Code: F0871

Message

Log export to remote server failed from [switchId]:[exportFailureReason]

Explanation

This fault occurs when Cisco Firepower Manager cannot transfer a log file to a remote server. This is typically the result of one of the following issues:

- The remote server is not accessible.
- One or more of the parameters for the remote server that are specified for the log export target, such as path, username, password, ssh-key and server name, are incorrect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the connectivity to the remote server.

Step 2 Verify the path information of the remote server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: server-error
mibFaultCode: 871
mibFaultName: fltSysdebugLogExportStatusLogExportFailure
moClass: sysdebug:LogExportStatus
Type: sysdebug
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/sysdebug/log-export-policy/log-export-status-[switchId]
```

fltSysdebugAutoCoreFileExportTargetAutoCoreTransferFailure

Fault Code: F0872

Message

Auto core transfer failure at remote server [hostname]:[path] [exportFailureReason]

Explanation

This fault occurs when Cisco Firepower Manager cannot transfer a core file to a remote TFTP server. This is typically the result of one of the following issues:

- The remote TFTP server is not accessible.
- One or more of the parameters for the TFTP server that are specified for the core export target, such as path, port, and server name, are incorrect.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the connectivity to the remote server.

Step 2 Verify the path information of the remote server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: tftp-server-error
mibFaultCode: 872
mibFaultName: fltSysdebugAutoCoreFileExportTargetAutoCoreTransferFailure
moClass: sysdebug:AutoCoreFileExportTarget
Type: sysdebug
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/sysdebug/file-export
```

fltProcessorUnitInoperable

Fault Code: F0899

Message

Processor [id] on server [chassisId]/[slotId] operability: [operability]

Explanation

This fault occurs in the unlikely event that processor is inoperable.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the fault occurs on a blade server processor, remove the server from the chassis and then reinsert it.

Step 2 In Cisco FPR Manager, decommission and then recommission the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-inoperable
mibFaultCode: 899
mibFaultName: fltProcessorUnitInoperable
moClass: processor:Unit
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitThermalNonCritical

Fault Code: F0900

Message

Processor [id] on server [chassisId]/[slotId] temperature: [thermal]Processor [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the processor temperature on a blade or rack server exceeds a non-critical threshold value, but is still below the critical threshold. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: info
Cause: thermal-problem
mibFaultCode: 900
mibFaultName: fltProcessorUnitThermalNonCritical
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitThermalThresholdCritical

Fault Code: F0901

Message

Processor [id] on server [chassisId]/[slotId] temperature: [thermal]Processor [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the processor temperature on a blade or rack server exceeds a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: thermal-problem
mibFaultCode: 901
mibFaultName: fltProcessorUnitThermalThresholdCritical
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitThermalThresholdNonRecoverable

Fault Code: F0902

Message

Processor [id] on server [chassisId]/[slotId] temperature: [thermal]Processor [id] on server [id] temperature: [thermal]

Explanation

This fault occurs when the processor temperature on a blade or rack server has been out of the operating range, and the issue is not recoverable. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment. In addition, extreme temperature fluctuations can cause CPUs to become loose in their sockets.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).
- If sensors on a CPU reach 179.6F (82C), the system will take that CPU offline.

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the server.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the servers have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows on the Cisco FPR chassis or rack server are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Power off unused blade servers and rack servers.

Step 6 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 7 Use the Cisco FPR power capping capability to limit power usage. Power capping can limit the power consumption of the system, including blade and rack servers, to a threshold that is less than or equal to the system's maximum rated power. Power-capping can have an impact on heat dissipation and help to lower the installation site temperature.

Step 8 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: thermal-problem
mibFaultCode: 902
mibFaultName: fltProcessorUnitThermalThresholdNonRecoverable
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitVoltageThresholdNonCritical

Fault Code: F0903

Message

Processor [id] on server [chassisId]/[slotId] voltage: [voltage]Processor [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the processor voltage is out of normal operating range, but hasn't yet reached a critical stage. Normally the processor recovers itself from this situation

Recommended Action

If you see this fault, take the following actions:

Step 1 Monitor the processor for further degradation.

Step 2 If the fault occurs on a blade server processor, remove the server from the chassis and then reinsert it.

Step 3 In Cisco FPR Manager, decommission and then recommission the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: voltage-problem
mibFaultCode: 903
mibFaultName: fltProcessorUnitVoltageThresholdNonCritical
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
```

Affected MO: sys/rack-unit-[id]/board/cpu-[id]

fltProcessorUnitVoltageThresholdCritical

Fault Code: F0904

Message

Processor [id] on server [chassisId]/[slotId] voltage: [voltage]Processor [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the processor voltage has exceeded the specified hardware voltage rating.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the fault occurs on a blade server processor, remove the server from the chassis and then reinsert it.

Step 2 In Cisco FPR Manager, decommission and then recommission the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: voltage-problem
mibFaultCode: 904
mibFaultName: fltProcessorUnitVoltageThresholdCritical
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]

fltProcessorUnitVoltageThresholdNonRecoverable

Fault Code: F0905

Message

Processor [id] on server [chassisId]/[slotId] voltage: [voltage]Processor [id] on server [id] voltage: [voltage]

Explanation

This fault occurs when the processor voltage has exceeded the specified hardware voltage rating and may cause processor hardware damage or jeopardy.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the fault occurs on a blade server processor, remove the server from the chassis and then reinsert it.

Step 2 In Cisco FPR Manager, decommission and then recommission the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: voltage-problem
mibFaultCode: 905
mibFaultName: fltProcessorUnitVoltageThresholdNonRecoverable
moClass: processor:Unit
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitIdentity-unestablishable

Fault Code: F0906

Message

Processor [id] on server [chassisId]/[slotId] has an invalid FRUProcessor [id] on server [id] has an invalid FRU

Explanation

This fault typically occurs because Cisco FPR Manager has detected an unsupported CPU in the server. For example, the model, vendor, or revision is not recognized.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the capability catalog in Cisco FPR Manager is up to date. If necessary, update the catalog.

Step 2 If the above action did not resolve the issue, you may have an unsupported CPU configuration in the server. Create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: identity-unestablishable
mibFaultCode: 906
mibFaultName: fltProcessorUnitIdentityUnestablishable
moClass: processor:Unit
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltProcessorUnitDisabled

Fault Code: F0907

Message

Processor [id] on server [chassisId]/[slotId] operState: [operState]Processor [id] on server [id] operState: [operState]

Explanation

This fault occurs in the unlikely event that a processor is disabled.

Recommended Action

If you see this fault, take the following actions:

Step 1 If this fault occurs on a blade server, remove and reinsert the server into the chassis.

Step 2 In Cisco FPR Manager, decommission and recommission the blade server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: equipment-disabled
mibFaultCode: 907
mibFaultName: fltProcessorUnitDisabled
moClass: processor:Unit
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]
```

fltExtmgmtIfMgmtifdown

Fault Code: F0964

Message

Management interface on Fabric Interconnect [id] is [operState]

Explanation

This fault occurs when a fabric interconnect reports that the operational state of an external management interface is down.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the state transitions of the external management interface on the fabric interconnect.

Step 2 Check the link connectivity for the external management interface.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: mgmtif-down
mibFaultCode: 964
mibFaultName: fltExtmgmtIfMgmtifdown
moClass: extmgmt:If
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/extmgmt-intf
```

fltExtmgmtArpTargetsArpTargetsNotValid

Fault Code: F0965

Message

Invalid ARP Targets configured for Management Interface Polling. Error: [configStatusMessage]

Explanation

This fault typically occurs because Cisco FPR Manager has detected an invalid ArpTargets Configuration.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that Arp target ip address and external management ip address are in the same subnet.

Step 2 Verify that Arp target ip address is not the same as ip address of this system's fabric-interconnects.

Step 3 Verify that Arp target ip address is not the same as virtual IP Address.

Fault Details

```
Severity: major
Cause: arp-targets-config-error
mibFaultCode: 965
mibFaultName: fltExtmgmtArpTargetsArpTargetsNotValid
moClass: extmgmt:ArpTargets
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/extmgmt-intf-monitor-policy/arp-target-policy
```

fltExtmgmtNdiscTargetsNdiscTargetsNotValid

Fault Code: F0966

Message

Invalid NDISC Targets configured for Management Interface Polling. Error: [configStatusMessage]

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: ndisc-targets-config-error
mibFaultCode: 966
mibFaultName: fltExtmgmtNdiscTargetsNdiscTargetsNotValid
moClass: extmgmt:NdiscTargets
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/extmgmt-intf-monitor-policy/ndisc-target-policy
```

fltPoolElementDuplicatedAssigned

Fault Code: F0967

Message

Duplicated ID is assigned for multiple blades

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: major
Cause: duplicated-assigned
mibFaultCode: 967
mibFaultName: fltPoolElementDuplicatedAssigned
moClass: pool:Element
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: ip/[id]
Affected MO: iqn/[name]
Affected MO: mac/[id]
Affected MO: uuid/[id]
Affected MO: wwn/[id]
```

fltNetworkElementInoperable

Fault Code: F0977

Message

Fabric Interconnect [id] operability: [operability]

Explanation

This fault typically occurs when the fabric interconnect cluster controller reports that the membership state of the fabric interconnect is down, indicating that the fabric interconnect is inoperable.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that both fabric interconnects in the cluster are running the same Kernel and System software versions.

Step 2 Verify that the fabric interconnects software version and the Cisco FPR Manager software versions are the same.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-inoperable
mibFaultCode: 977
mibFaultName: fltNetworkElementInoperable
moClass: network:Element
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]
```

fltNetworkElementRemoved

Fault Code: F0978

Message

Fabric Interconnect [id] operability: [operability]

Explanation

This fault occurs when the fabric interconnect is removed in a clustering setup.

Recommended Action

If you see this fault, take the following actions:

Step 1 Reinsert the removed fabric interconnect back into the chassis (applicable to FPR-Mini only).

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: equipment-removed
mibFaultCode: 978
mibFaultName: fltNetworkElementRemoved
moClass: network:Element
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]
```

fltSwVlanPortNsResourceStatus

Fault Code: F0979

Message

Vlan-Port Resource exceeded

Explanation

This fault occurs when the total number of configured VLANs in the Cisco FPR instance has exceeded the allowed maximum number of configured VLANs on the fabric interconnect.

Recommended Action

If you see this fault, take the following actions:

Step 1 In the Cisco FPR Manager CLI or Cisco FPR Manager GUI, check the port VLAN count to determine by how many VLANs the system is over the maximum.

Step 2 Reduce the VLAN port count in one of the following ways:

- Delete VLANs configured on the LAN cloud.
- Delete VLANs configured on vNICs.
- Unconfigure one or more vNICs.
- Unconfigure one or more uplink Ethernet ports on the fabric interconnect.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: limit-reached
mibFaultCode: 979
mibFaultName: fltSwVlanPortNsResourceStatus
moClass: sw:VlanPortNs
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/vlan-port-ns
```

fltSwVlanPortNsResourceStatusWarning

Fault Code: F0980

Message

Total Available Vlan-Port Count on switch [switchId] is below 10%

Explanation

None set.

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

```
Severity: warning
Cause: near-max-limit
mibFaultCode: 980
mibFaultName: fltSwVlanPortNsResourceStatusWarning
moClass: sw:VlanPortNs
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/vlan-port-ns
```

fltNetworkElementInventoryFailed

Fault Code: F0981

Message

Fabric Interconnect [id] inventory is not complete [inventoryStatus]

Explanation

Cisco FPR Manager raises this fault when the management subsystem is unable to perform an inventory of the physical components, such as I/O cards or physical ports.

Recommended Action

If you see this fault, take the following actions:

Step 1 Ensure that both fabric interconnects in an HA cluster are running the same software versions.

Step 2 Ensure that the fabric interconnect software is a version that is compatible with the Cisco FPR Manager software.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: inventory-failed
mibFaultCode: 981
```

mibFaultName: fltNetworkElementInventoryFailed
moClass: network:Element
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]

fltNetworkElementThermalThresholdCritical

Fault Code: F0982

Message

Fabric Interconnect [id] temperature: [thermal]

Explanation

This fault occurs when the temperature of a Fabric Interconnect exceeds a critical threshold value. Be aware of the following possible contributing factors:

- Temperature extremes can cause Cisco FPR equipment to operate at reduced efficiency and cause a variety of problems, including early degradation, failure of chips, and failure of equipment.
- Cisco FPR equipment should operate in an environment that provides an inlet air temperature not colder than 50F (10C) nor hotter than 95F (35C).

Recommended Action

If you see this fault, take the following actions:

Step 1 Review the product specifications to determine the temperature operating range of the Fabric Interconnect.

Step 2 Review the Cisco FPR Site Preparation Guide to ensure the Fabric Interconnects have adequate airflow, including front and back clearance.

Step 3 Verify that the air flows are not obstructed.

Step 4 Verify that the site cooling system is operating properly.

Step 5 Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat.

Step 6 Replace faulty Fabric Interconnects.

Step 7 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: thermal-problem
mibFaultCode: 982
mibFaultName: fltNetworkElementThermalThresholdCritical
moClass: network:Element
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]

fltNetworkElementMemoryerror

Fault Code: F0983

Message

Fabric Interconnect [id] memory less than expected! Total Memory: [totalMemory] and Expected Memory: [expectedMemory]

Explanation

This fault occurs when the total memory on FI is less than expected.

Recommended Action

If you see this fault, take the following actions:

Step 1 You will need to do a manual physical inspection of the DIMMs on the FI. Try removing and reinserting the DIMMs, and verify the Total Memory. If this does not resolve the issue, one of the DIMMs has gone bad and needs to be replaced.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: memory-error
mibFaultCode: 983
mibFaultName: fltNetworkElementMemoryerror
moClass: network:Element
Type: equipment
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]
```

fltNetworkOperLevelExtraprimaryvlans

Fault Code: F0984

Message

Fabric Interconnect [id]: Number of primary vlans exceeds the max limit on the FI: Number of Primary Vlans: [primaryVlanCount] and Max primary vlans allowed: [maxPrimaryVlanCount]

Explanation

This fault occurs when the fabric interconnect has more number of primary vlans than what is supported.

Recommended Action

If you see this fault, take the following actions:

Step 1 It is recommended that operator should delete the extra primary vlans than are there in the FI. System may appear to be normally functioning even with these extra primary vlans in place. However there may be performance issues observed as the system is operating above the recommended scale limits..

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: extra-primary-vlans
mibFaultCode: 984
mibFaultName: fltNetworkOperLevelExtraprimaryvlans
moClass: network:OperLevel
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/oper-level
```

fltNetworkOperLevelExtrasecondaryvlans

Fault Code: F0985

Message

Fabric Interconnect [id]: Number of secondary vlans exceeds the max limit on the FI: Number of secondary vlans: [secondaryVlanCount] and Max secondary vlans allowed: [maxSecondaryVlanCount]

Explanation

This fault occurs when the fabric interconnect has more number of secondary vlans than what is supported.

Recommended Action

If you see this fault, take the following actions:

Step 1 It is recommended that operator should delete the extra secondary vlans that are there in the FI. System may appear to be normally functioning even with these extra secondary vlans in place. However there may be performance issues observed as the system is operating above the recommended scale limits..

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: extra-secondary-vlans
mibFaultCode: 985
mibFaultName: fltNetworkOperLevelExtrasecondaryvlans
moClass: network:OperLevel
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/switch-[id]/oper-level
```

fltSwVlanExtrasecondaryvlansperprimary

Fault Code: F0986

Message

Number of secondary vlans associated with the primary vlan [id] in Fabric Interconnect [switchId] exceeds the max limit: Number of secondary vlans: [secVlanPerPrimaryVlanCount] and Max secondary vlans allowed in a primary vlan: 30

Explanation

This fault occurs when the fabric interconnect has more number of secondary vlans per primary vlan than what is supported.

Recommended Action

If you see this fault, take the following actions:

Step 1 It is recommended that operator should delete the extra secondary vlans on this primary vlan that are there in the FI. System may appear to be normally functioning even with these extra secondary vlans on this primary vlan in place. However there may be performance issues observed as the system is operating above the recommended scale limits..

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: minor
Cause: extra-secondary-vlans-per-primary
mibFaultCode: 986
mibFaultName: fltSwVlanExtrasecondaryvlansperprimary
moClass: sw:Vlan
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/profiles/vnic-[name]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]

Affected MO:
sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/switch-[id]/access-eth/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/access-eth/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/access-eth/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/border-eth/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-eth/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/border-eth/pc-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-eth/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-eth/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-eth/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/border-eth/vlan-[id]
Affected MO: sys/switch-[id]/border-fc/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/border-fc/fcoesan-pc-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-fc/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/border-fc/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]

Affected MO:
sys/switch-[id]/border-fc/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/border-fc/vlan-[id]
Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/pc-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/lanmon-eth/mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/lanmon-eth/mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/lanmon-eth/mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/vc-[id]/vlan-[id]
Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/vlan-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]/vlan-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/vc-[id]/vlan-[id]
Affected MO:
sys/switch-[id]/phys/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/phys/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/phys/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/ssp-lanmon-eth/ssp-mon-session[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/ssp-lanmon-eth/ssp-mon-session[name]/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/vlan-[id]
Affected MO:
sys/switch-[id]/ssp-lanmon-eth/ssp-mon-session[name]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesan-ep-slot-[slotId]port-[portId]/vlan-[id]

fltFcpoolInitiatorsEmpty

Fault Code: F0987

Message

FC pool [purpose] [name] is empty

Explanation

This fault typically occurs when a WWN pool does not contain any WWNs.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the pool is in use, add a block of WWNs to the pool.

Step 2 If the pool is not in use, ignore the fault.

Fault Details

Severity: minor
Cause: empty-pool
mibFaultCode: 987

mibFaultName: fltFcpoolInitiatorsEmpty
moClass: fcpool:Initiators
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/wwn-pool-[name]

fltOsControllerFailedBladeBootup

Fault Code: F0996

Message

Slot [slotId], boot up failed - recovery in progress

Explanation

This fault occurs when blade failed to boot up.

Recommended Action

If you see this fault, do nothing because the blade will try to recover

Step 1 Reboot the Blade associated with the Slot

Fault Details

Severity: major
Cause: bootup-failure
mibFaultCode: 996
mibFaultName: fltOsControllerFailedBladeBootup
moClass: os:Controller
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl
Affected MO: sys/os-ctrl
Affected MO: sys/rack-unit-[id]/os-ctrl

fltOsControllerFailedBootupRecovery

Fault Code: F0997

Message

Slot [slotId], boot up failed - exceeded max number of retries

Explanation

This fault occurs when blade failed to boot up.

Recommended Action

If you see this fault, do the following:

Step 1 Reboot the Blade associated with the Slot

Fault Details

```
Severity: major
Cause: bootup-failure
mibFaultCode: 997
mibFaultName: fltOsControllerFailedBootupRecovery
moClass: os:Controller
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/os-ctrl
Affected MO: sys/os-ctrl
Affected MO: sys/rack-unit-[id]/os-ctrl
```

fltUuidpoolPoolEmpty

Fault Code: F1014

Message

UUID suffix pool [name] is empty

Explanation

This fault typically occurs when a UUID suffix pool does not contain any UUID suffixes.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the pool is in use, add a block of UUID suffixes to the pool.

Step 2 If the pool is not in use, ignore the fault.

Fault Details

```
Severity: minor
Cause: empty-pool
mibFaultCode: 1014
mibFaultName: fltUuidpoolPoolEmpty
moClass: uuidpool:Pool
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/uuid-pool-[name]
```

fltCapabilityCatalogueLoadErrors

Fault Code: F1020

Message

Load errors: File parse errors: [fileParseFailures], provider load failures: [providerLoadFailures], XML element load errors: [loadErrors].

Explanation

The capability catalog failed to load fully. This may be caused by either a faulty FPRM image or a faulty catalog image.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the version of the capability catalog.

Step 2 Contact Cisco TAC to see if there are known issues with the catalog and if there is a catalog image that will fix the known issues.

Fault Details

```
Severity: major
Cause: load-catalog-failed
mibFaultCode: 1020
mibFaultName: fltCapabilityCatalogueLoadErrors
moClass: capability:Catalogue
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: capabilities
```

fltFabricComputeSlotEpMisplacedInChassisSlot

Fault Code: F1038

Message

Server, vendor([vendor]), model([model]), serial([serial]) in slot [chassisId]/[slotId] presence: [presence]

Explanation

This fault typically occurs when Cisco FPR Manager detects a server in a chassis slot that does not match what was previously equipped in the slot.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the previous server was intentionally removed and a new one was inserted, reacknowledge the server.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: server-moved
mibFaultCode: 1038
mibFaultName: fltFabricComputeSlotEpMisplacedInChassisSlot
moClass: fabric:ComputeSlotEp
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/server/chassis-[chassisId]/slot-[slotId]
```

fltFabricComputeSlotEpServerIdentificationProblem

Fault Code: F1039

Message

Problem identifying server in slot [chassisId]/[slotId]

Explanation

This fault typically occurs when Cisco FPR Manager encountered a problem identifying the server in a chassis slot.

Recommended Action

If you see this fault, take the following actions:

Step 1 Remove and reinsert the server.

Step 2 Reacknowledge the server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: server-identification-problem
mibFaultCode: 1039
mibFaultName: fltFabricComputeSlotEpServerIdentificationProblem
moClass: fabric:ComputeSlotEp
Type: equipment
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/server/chassis-[chassisId]/slot-[slotId]
```

fltFabricVlanPrimaryVlanMissingForIsolated

Fault Code: F1040

Message

Primary Vlan can not be resolved for isolated vlan [name]

Explanation

This fault typically occurs when Cisco FPR Manager encounters a problem resolving the primary VLAN ID corresponding to a particular isolated VLAN.

Recommended Action

If you see this fault, take the following actions:

Step 1 Associate the isolated VLAN with a valid primary VLAN.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
```

```
Cause: primary-vlan-missing-for-isolated
mibFaultCode: 1040
mibFaultName: fltFabricVlanPrimaryVlanMissingForIsolated
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricVlanPrimaryVlanMissingForCommunity

Fault Code: F1041

Message

Primary Vlan can not be resolved for community vlan [name]

Explanation

This fault typically occurs when Cisco FPR Manager encounters a problem resolving the primary VLAN ID corresponding to a particular community VLAN.

Recommended Action

If you see this fault, take the following actions:

Step 1 Associate the community VLAN with a valid primary VLAN.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: primary-vlan-missing-for-community
mibFaultCode: 1041
mibFaultName: fltFabricVlanPrimaryVlanMissingForCommunity
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricLanPinGroupEmpty

Fault Code: F1042

Message

LAN Pin Group [name] is empty

Explanation

This fault typically occurs when a LAN pin group does not contain any targets.

Recommended Action

If you see this fault, add a target to the LAN pin group.

Fault Details

```
Severity: minor
Cause: empty-pin-group
mibFaultCode: 1042
mibFaultName: fltFabricLanPinGroupEmpty
moClass: fabric:LanPinGroup
Type: server
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/lan-pin-group-[name]
```

fltFabricEthLanPcEpDown

Fault Code: F1043

Message

[type] Member [slotId]/[aggrPortId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership][type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation

This fault typically occurs when a member port in an Ethernet port channel is down.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the link connectivity on the upstream Ethernet switch.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: membership-down
mibFaultCode: 1043
mibFaultName: fltFabricEthLanPcEpDown
moClass: fabric:EthLanPcEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]
-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portI
d]
Affected MO: fabric/lan/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
```

Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]

fltFabricEthEstcPcEpDown

Fault Code: F1044

Message

[type] Member [slotId]/[aggrPortId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership][type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation

This fault typically occurs when a member port in an Ethernet port channel is down.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the link connectivity on the upstream Ethernet switch.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: membership-down
mibFaultCode: 1044
mibFaultName: fltFabricEthEstcPcEpDown
moClass: fabric:EthEstcPcEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]

Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]

fltFabricPinTargetDown

Fault Code: F1045

Message

Pin target is a non-existent interface

Explanation

This fault typically occurs when a PinGroup has an unresolvable target.

Recommended Action

If you see this fault, take the following action:

Step 1 Check whether the PinGroup target is correctly provisioned.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: invalid-target
mibFaultCode: 1045
mibFaultName: fltFabricPinTargetDown
moClass: fabric:PinTarget
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/lan-pin-group-[name]/target-[fabricId]
Affected MO: fabric/san/san-pin-group-[name]/target-[fabricId]

fltFabricDceSwSrvPcEpDown

Fault Code: F1046

Message

[type] Member [slotId]/[aggrPortId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership][type] Member [slotId]/[portId] of Port-Channel [portId] on fabric interconnect [id] is down, membership: [membership]

Explanation

This fault typically occurs when a member port in a fabric port channel is down.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the link connectivity between the FEX or IOM and the fabric interconnect.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: membership-down
mibFaultCode: 1046
mibFaultName: fltFabricDceSwSrvPcEpDown
moClass: fabric:DceSwSrvPcEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]
-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portI
d]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port
-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId
]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotI
d]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO: fabric/server/sw-[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId
]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[port
Id]
```

fltFabricMonSpanConfigFail

Fault Code: F1047

Message

Configuration for traffic monitor [name] failed, reason: [configFailReason]

Explanation

This fault typically occurs when the configuration of a traffic monitoring session is incorrect.

Recommended Action

If you see this fault, correct the configuration problem provided in the fault description.

Fault Details

```
Severity: major
Cause: config-error
mibFaultCode: 1047
mibFaultName: fltFabricMonSpanConfigFail
moClass: fabric:Mon
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lanmon/[id]/eth-mon-[name]
```

fltFabricEpMgrEpTransModeFail

Fault Code: F1048

Message

Port constraint violation on switch [id]: [confQual]

Explanation

This fault occurs when at least one logical interface is misconfigured. This can happen when upgrading to a different type or series of fabric interconnect or when importing a configuration.The configuration must meet the following constraints:

- There must be at most one logical port per fabric interconnect ID/module ID/port ID.

Recommended Action

If you see this fault, take the following action:

Step 1 Create a list of all logical interfaces that are misconfigured and have caused an 'error-misconfigured' fault.

Step 2 For each logical interface, note the reason listed in the fault for the misconfiguration.

Step 3 Log into Cisco FPR Manager and correct each misconfigured logical interface. If you used the Cisco FPR Manager CLI, commit all changes.

Step 4 Review any faults or error messages that describe additional misconfigurations and correct those errors.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: config-error
mibFaultCode: 1048
mibFaultName: fltFabricEpMgrEpTransModeFail
moClass: fabric:EpMgr
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/[id]
```

fltFabricVlanMismatch-a

Fault Code: F1049

Message

VLAN [name] has [overlapStateForA] with another vlan under lan-cloud/appliance-cloud for the fabric interconnect A

Explanation

This fault typically occurs when private vlan properties of VLAN under one cloud conflicts with the private vlan properties of VLAN under another cloud for the fabric interconnect A. The cloud here means either a LAN cloud or an appliance cloud. This issue can stop the usage of this vlan.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the sharing property of the VLAN under both clouds and fabric A referred by its VLAN ID.

Step 2 If the sharing property of the VLAN does not match with the VLAN on the other cloud, then change the sharing property of either of the VLANs, so that it matches with each other.

Step 3 If the VLAN is a isolated/community vlan, check the pubnwname property of the VLAN under both clouds referred by its VLAN ID.

Step 4 If the pubnwname property of the isolated/community VLAN does not match with the isolated/community VLAN on the other cloud, then change the pubnwname property of either of the VLANs, so that it matches with each other.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: vlan-mismatch
mibFaultCode: 1049
mibFaultName: fltFabricVlanMismatchA
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricVlanMismatch-b

Fault Code: F1050

Message

VLAN [name] has [overlapStateForB] with another vlan under lan-cloud/appliance-cloud for the fabric interconnect B

Explanation

This fault typically occurs when private vlan properties of VLAN under one cloud conflicts with the private vlan properties of VLAN under another cloud for the fabric interconnect B. The cloud here means either a LAN cloud or an appliance cloud. This issue can stop the usage of this vlan.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the sharing property of the VLAN under both clouds and fabric B referred by its VLAN ID.

Step 2 If the sharing property of the VLAN does not match with the VLAN on the other cloud, then change the sharing property of either of the VLANs, so that it matches with each other.

Step 3 If the VLAN is a isolated/community vlan, check the pubnwname property of the VLAN under both clouds referred by its VLAN ID.

Step 4 If the pubnwname property of the isolated/community VLAN does not match with the isolated/community VLAN on the other cloud, then change the pubnwname property of either of the VLANs, so that it matches with each other.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: vlan-mismatch
mibFaultCode: 1050
mibFaultName: fltFabricVlanMismatchB
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricVlanErrorAssocPrimary

Fault Code: F1051

Message

VLAN [name] is in error state because the associated primary vlan [assocPrimaryVlanState]

Explanation

This fault typically occurs when there is an error in associated primary vlan of a secondary VLAN. This issue can stop the usage of this vlan.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the pubnwname property of the VLAN.

Step 2 If the pubnwname is not given or refers to a non-existing primary vlan, give a name of a primary vlan which is in good state.

Step 3 If the pubnwname refers to a vlan which is not a primary vlan, then either change the referred vlan to be a primary vlan or give a different primary vlan.

Step 4 If the pubnwname refers to a valid primary vlan, then check the state of the primary VLAN.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: vlan-error-assoc-primary
mibFaultCode: 1051
mibFaultName: fltFabricVlanErrorAssocPrimary
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricPloEpErrorMisconfigured

Fault Code: F1052

Message

Interface [name] is [operState]. Reason: [operStateReason]

Explanation

This fault occurs when a logical interface is misconfigured. This can happen when upgrading to a different type or series of fabric interconnect or when importing a configuration.

Recommended Action

If you see this fault, take the following action:

Step 1 Create a list of all logical interfaces that are misconfigured and have caused an 'error-misconfigured' fault.

Step 2 For each logical interface, note the reason listed in the fault for the misconfiguration.

Step 3 Log into Cisco FPR Manager and correct each misconfigured logical interface. If you used the Cisco FPR Manager CLI, commit all changes.

Step 4 Review any faults or error messages that describe additional misconfigurations and correct those errors.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: interface-misconfigured
mibFaultCode: 1052
mibFaultName: fltFabricPIoEpErrorMisconfigured
moClass: fabric:PIoEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/eth-estc/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO: fabric/eth-estc/[id]/pc-[portId]/eth-target-ep-[name]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO: fabric/eth-estc/[id]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]

Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-group-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-group-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/net-group-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]

Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO: fabric/lan/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/net-group-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/net-group-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/net-group-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/lanmon/[id]/eth-mon-[name]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]

Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/net-[name]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/san/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO: fabric/san/[id]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO: fabric/san/[id]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO:
fabric/san/net-[name]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/san/net-[name]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoe-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/net-[name]/sw-[switchId]-slot-[slotId]-aggr-port-[aggrPortId]/phys-switch-[switchId]-slot-[slotId]-port-[portId]
Affected MO: fabric/server/chassis-[chassisId]

Affected MO: fabric/server/chassis-[chassisId]/slot-[slotId]
Affected MO: fabric/server/chassis-ep-ven-[vendor]-mod[model]-ser-[serial]
Affected MO: fabric/server/compute-ep-ven-[vendor]-mod-[model]-ser-[serial]
Affected MO: fabric/server/sw-[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/dest-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/fcoesanpcep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-eth-slot-[slotId]-port-[portId]/eth-target-ep-[name]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-fcoesanep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/slot-[slotId]-port-[portId]
Affected MO: fabric/server/sw-[id]/slot-[slotId]-port-[portId]
Affected MO:
sys/switch-[id]/access-eth/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]
Affected MO:
sys/switch-[id]/border-eth/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]
Affected MO: sys/switch-[id]/border-eth/pc-[portId]/eth-target-[name]
Affected MO:
sys/switch-[id]/border-eth/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]
Affected MO:
sys/switch-[id]/border-fc/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]

Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/pc-[portId]/eth-target-[name]
Affected MO:
sys/switch-[id]/lanmon-eth/mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]
Affected MO: sys/switch-[id]/mgmt-port-[portId]
Affected MO:
sys/switch-[id]/phys/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]
Affected MO:
sys/switch-[id]/ssp-lanmon-eth/ssp-mon-session[name]/slot-[slotId]-aggr-port-[aggrPortId]/ethestc-ep-slot-[slotId]port-[portId]/eth-target-[name]

fltFabricEthLanEpMissingPrimaryVlan

Fault Code: F1053

Message

Primary vlan missing from fabric: [switchId], port: [slotId]/[aggrPortId]/[portId].Primary vlan missing from fabric: [switchId], port: [slotId]/[portId].

Explanation

This fault occurs when an uplink port or port channel is configured with a primary VLAN that does not exist in the Cisco FPR instance.

Recommended Action

If you see this fault, take the following action:

Step 1 Update the configuration of the port or port channel to include a primary VLAN.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: missing-primary-vlan
mibFaultCode: 1053
mibFaultName: fltFabricEthLanEpMissingPrimaryVlan
moClass: fabric:EthLanEp
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]

Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]

fltFabricEthLanEpUdldLinkDown

Fault Code: F1054

Message

UDLD state for ether port [slotId]/[aggrPortId]/[portId] on fabric interconnect [switchId] is: [udldOperState].UDLD state for ether port [slotId]/[portId] on fabric interconnect [switchId] is: [udldOperState].

Explanation

This fault occurs when an ethernet uplink port is unidirectional connected.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the tx and rx connection of the uplink port.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: udld-link-down
mibFaultCode: 1054
mibFaultName: fltFabricEthLanEpUdldLinkDown
moClass: fabric:EthLanEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]

Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]

fltFabricEthLanPcEpUdldLinkDown

Fault Code: F1055

Message

UDLD state for ether port [slotId]/[aggrPortId]/[portId] on fabric interconnect [switchId] is: [udldOperState].UDLD state for ether port [slotId]/[portId] on fabric interconnect [switchId] is: [udldOperState].

Explanation

This fault occurs when an ethernet uplink port-channel member is unidirectional connected.

Recommended Action

If you see this fault, take the following action:

Step 1 Check the tx and rx connection of the uplink port.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: udld-link-down
mibFaultCode: 1055
mibFaultName: fltFabricEthLanPcEpUdldLinkDown
moClass: fabric:EthLanPcEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/pc-[portId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]

Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/ep-slot-[slotId]-port-[portId]

fltFabricEthLanPcMissingPrimaryVlan

Fault Code: F1056

Message

Primary vlan missing from fabric: [switchId], port-channel: [portId].

Explanation

This fault occurs when an uplink port or port channel is configured with a primary VLAN that does not exist in the Cisco FPR instance.

Recommended Action

If you see this fault, take the following action:

Step 1 Update the configuration of the port or port channel to include a primary VLAN.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: missing-primary-vlan
mibFaultCode: 1056
mibFaultName: fltFabricEthLanPcMissingPrimaryVlan
moClass: fabric:EthLanPc
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/[id]/pc-[portId]

fltFabricEthLanEpOverlapping-vlan

Fault Code: F1057

Message

On Fabric: [switchId], Port: [slotId]/[aggrPortId]/[portId] following overlapping VLANs detected: [overlappingVlans]On Fabric: [switchId], Port: [slotId]/[portId] following overlapping VLANs detected: [overlappingVlans]

Explanation

This fault occurs when Overlapping Vlans occur due to mis configuration.

Recommended Action

Ports configured on Vlans belonging to a group should not intersect with other ports of different network group belonging to Vlans which overlap .

Fault Details

Severity: info
Cause: configuration-error
mibFaultCode: 1057
mibFaultName: fltFabricEthLanEpOverlappingVlan
moClass: fabric:EthLanEp
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
fabric/eth-estc/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/eth-estc/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO: fabric/lan/[id]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lan/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/lanmon/[id]/eth-mon-[name]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/fcoesanpc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/san/[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/pc-[portId]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]
Affected MO:
fabric/server/sw-[id]/slot-[slotId]-aggr-port-[aggrPortId]/phys-slot-[slotId]-port-[portId]

fltFabricEthLanPcOverlapping-vlan

Fault Code: F1058

Message

Overlapping VLANs detected on Fabric: [switchId], Port: [portId] in configured VLANs: [overlappingVlans]

Explanation

This fault occurs when Overlapping Vlans occur due to mis configuration.

Recommended Action

Ports configured on Vlans belonging to a group should not intersect with other ports of different network group belonging to Vlans which overlap .

Fault Details

```
Severity: info
Cause: configuration-error
mibFaultCode: 1058
mibFaultName: fltFabricEthLanPcOverlappingVlan
moClass: fabric:EthLanPc
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/[id]/pc-[portId]
```

fltFabricVlanMisconfigured-mcast-policy

Fault Code: F1059

Message

VLAN [name] multicast policy [mcastPolicyName] is non-default.

Explanation

This fault is raised when VLAN belonging to a Springfield fabric has a non-default multicast policy assigned to it.

Recommended Action

If you see this fault, take the following action:

Step 1 Un-assign multicast policy for the this vlan or change the multicast policy to default.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: vlan-mcast-policy-misconfigured
mibFaultCode: 1059
mibFaultName: fltFabricVlanMisconfiguredMcastPolicy
moClass: fabric:Vlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]
Affected MO: fabric/eth-estc/net-[name]
Affected MO: fabric/lan/[id]/net-[name]
Affected MO: fabric/lan/net-[name]
```

fltFabricPooledVlanNamedVlanUnresolved

Fault Code: F1062

Message

VLAN [name] for VLAN group [name] cannot be resolved to any existing vlans.

Explanation

This fault typically occurs when a named VLAN in VLAN group cannot be resolved to any existing vlans.

Recommended Action

If you see this fault, take the following action:

Step 1 Create VLAN.

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: named-vlan-unresolved
mibFaultCode: 1062
mibFaultName: fltFabricPooledVlanNamedVlanUnresolved
moClass: fabric:PooledVlan
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/lan/[id]/net-group-[name]/net-[name]
Affected MO: fabric/lan/net-group-[name]/net-[name]
```

fltMgmtEntityDegraded

Fault Code: F1115

Message

Fabric Interconnect [id], HA Cluster interconnect link failure

Explanation

This fault occurs when one of the cluster links (either L1 or L2) of a fabric interconnect is not operationally up. This issue impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that both L1 and L2 links are properly connected between the fabric interconnects.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: link-down
mibFaultCode: 1115
mibFaultName: fltMgmtEntityDegraded
moClass: mgmt:Entity
Type: network
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityDown

Fault Code: F1116

Message

Fabric Interconnect [id], HA Cluster interconnect total link failure

Explanation

This fault occurs when both cluster links (L1 and L2) of the fabric interconnects are in a link-down state. This issue impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that both L1 and L2 links are properly connected between the fabric interconnects.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: link-down
mibFaultCode: 1116
mibFaultName: fltMgmtEntityDown
moClass: mgmt:Entity
Type: network
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityElection-failure

Fault Code: F1117

Message

Fabric Interconnect [id], election of primary managemt instance has failed

Explanation

This fault occurs in an unlikely event that the fabric interconnects in a cluster configuration could not reach an agreement for selecting the primary fabric interconnect. This impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the initial setup configuration is correct on both fabric interconnects.

Step 2 Verify that the L1 and L2 links are properly connected between the fabric interconnects.

Step 3 In the Cisco FPR Manager CLI, run the **cluster force primary** local-mgmt command on one fabric interconnect.

Step 4 Reboot the fabric interconnects.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: election-failure
mibFaultCode: 1117
mibFaultName: fltMgmtEntityElectionFailure
moClass: mgmt:Entity
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityManagement-services-failure

Fault Code: F1118

Message

Fabric Interconnect [id], management services have failed

Explanation

This fault occurs in an unlikely event that management services fail on a fabric interconnect. This impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the initial setup configuration is correct on both fabric interconnects.

Step 2 Verify that the L1 and L2 links are properly connected between the fabric interconnects.

Step 3 Reboot the fabric interconnects.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: management-services-failure
mibFaultCode: 1118
mibFaultName: fltMgmtEntityManagementServicesFailure
moClass: mgmt:Entity
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityManagement-services-unresponsive

Fault Code: F1119

Message

Fabric Interconnect [id], management services are unresponsive

Explanation

This fault occurs when management services on a fabric interconnect are unresponsive. This impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the initial setup configuration is correct on both fabric interconnects.

Step 2 Verify that the L1 and L2 links are properly connected between the fabric interconnects.

Step 3 Reboot the fabric interconnects.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: management-services-unresponsive
mibFaultCode: 1119
mibFaultName: fltMgmtEntityManagementServicesUnresponsive
moClass: mgmt:Entity
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityHa-not-ready

Fault Code: F1120

Message

Fabric Interconnect [id], HA functionality not ready

Explanation

This fault occurs if Cisco FPR Manager cannot discover or communicate with one or more chassis or rack servers to write the HA Cluster state. This impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the initial setup configuration is correct on both fabric interconnects.

Step 2 Verify that the L1 and L2 links are properly connected between the fabric interconnects.

Step 3 Verify that the IOMs and/or FEXes are reachable and the server ports are enabled and operationally up.

Step 4 Verify that the chassis and/or rack servers are powered up and reachable

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: ha-not-ready
```

mibFaultCode: 1120
mibFaultName: fltMgmtEntityHaNotReady
moClass: mgmt:Entity
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]

fltMgmtEntityVersion-incompatible

Fault Code: F1121

Message

Fabric Interconnect [id], management services, incompatible versions

Explanation

This fault occurs if the Cisco FPR Manager software on the subordinate fabric interconnect is not the same release as that of the primary fabric interconnect. This impacts the full HA functionality of the fabric interconnect cluster.

Recommended Action

If you see this fault, take the following actions:

Step 1 Upgrade the Cisco FPR Manager software on the subordinate fabric interconnect to the same release as the primary fabric interconnect and verify that both fabric interconnects are running the same release of Cisco FPR Manager.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: critical
Cause: version-incompatible
mibFaultCode: 1121
mibFaultName: fltMgmtEntityVersionIncompatible
moClass: mgmt:Entity
Type: management
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]

fltMgmtEntityDevice-1-shared-storage-error

Fault Code: F1122

Message

device [chassis1], error accessing shared-storage

Explanation

This fault occurs in an unlikely event that the shared storage selected for writing the cluster state is not accessible. This fault is typically a transient fault. You might see this fault when one of the following occurs: (a) the Fabric Interconnect boots, (b) the IO Module is reset, (c) the rack server is reboot, or (d)

system is upgraded/downgraded. If this fault is not cleared after the system returns to normal operation following the reboot/reset/upgrade/downgrade, then it may affect the full HA functionality of the Fabric Interconnect cluster.

Recommended Action

If this fault is not cleared even after the system returns to normal operation, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: device-shared-storage-error
mibFaultCode: 1122
mibFaultName: fltMgmtEntityDevice1SharedStorageError
moClass: mgmt:Entity
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityDevice-2-shared-storage error

Fault Code: F1123

Message

device [chassis2], error accessing shared-storage

Explanation

This fault occurs in an unlikely event that the shared storage selected for writing the cluster state is not accessible. This fault is typically a transient fault. You might see this fault when one of the following occurs: (a) the Fabric Interconnect boots, (b) the IO Module is reset, (c) the rack server is reboot, or (d) system is upgraded/downgraded. If this fault is not cleared after the system returns to normal operation following the reboot/reset/upgrade/downgrade, then it may affect the full HA functionality of the Fabric Interconnect cluster.

Recommended Action

If this fault is not cleared even after the system returns to normal operation, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: device-shared-storage-error
mibFaultCode: 1123
mibFaultName: fltMgmtEntityDevice2SharedStorageError
moClass: mgmt:Entity
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityDevice-3-shared-storage error

Fault Code: F1124

Message

device [chassis3], error accessing shared-storage

Explanation

This fault occurs in an unlikely event that the shared storage selected for writing the cluster state is not accessible. This fault is typically a transient fault. You might see this fault when one of the following occurs: (a) the Fabric Interconnect boots, (b) the IO Module is reset, (c) the rack server is reboot, or (d) system is upgraded/downgraded. If this fault is not cleared after the system returns to normal operation following the reboot/reset/upgrade/downgrade, then it may affect the full HA functionality of the Fabric Interconnect cluster.

Recommended Action

If this fault is not cleared even after the system returns to normal operation, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: device-shared-storage-error
mibFaultCode: 1124
mibFaultName: fltMgmtEntityDevice3SharedStorageError
moClass: mgmt:Entity
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtEntityHa-ssh-keys-mismatched

Fault Code: F1125

Message

Fabric Interconnect [id], management services, mismatched SSH keys

Explanation

This fault indicates that one of the following scenarios has occurred:

- The internal SSH keys used for HA in the cluster configuration are mismatched. This causes certain operations to fail.
- Another fabric interconnect is connected to the primary fabric interconnect in the cluster without first erasing the existing configuration in the primary.

Recommended Action

If you see this fault, take the following actions:

Step 1 Log into the Cisco FPR Manager CLI on the subordinate fabric interconnect.

Step 2 Enter **connect local-mgmt**

Step 3 Enter **erase configuration** to erase the configuration on the subordinate fabric interconnect and reboot it.

Step 4 When the secondary fabric interconnect has rebooted, reconfigure it for the cluster.

Step 5 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: ha-ssh-keys-mismatched
mibFaultCode: 1125
mibFaultName: fltMgmtEntityHaSshKeysMismatched
moClass: mgmt:Entity
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]
```

fltMgmtPmonEntryFPRM process failure

Fault Code: F1126

Message

FPRM process [name] failed on FI [switchId]

Explanation

This fault occurs in an unlikely event of a Cisco FPR Manager process crash. Typically, the failed process restarts and recovers from the problem. Any pending operations are restarted after the process successfully restarts.

Recommended Action

If you see this fault and the process does not restart successfully, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: critical
Cause: fprm-process-failure
mibFaultCode: 1126
mibFaultName: fltMgmtPmonEntryFPRMProcessFailure
moClass: mgmt:PmonEntry
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/mgmt-entity-[id]/[name]
```

fltSysdebugMEpLogMEpLogLog

Fault Code: F1127

Message

Log capacity on [side] IOM [chassisId]/[id] is [capacity]Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity]Log capacity on Management Controller on server [id] is [capacity]

Explanation

This fault typically occurs because Cisco FPR Manager has detected that the system event log (SEL) on the server is approaching full capacity. The available capacity in the log is low. This is an info-level fault and can be ignored if you do not want to clear the SEL at this time.

Recommended Action

If you see this fault, you can clear the SEL in Cisco FPR Manager if desired.

Fault Details

```
Severity: info
Cause: log-capacity
mibFaultCode: 1127
mibFaultName: fltSysdebugMEpLogMEpLogLog
moClass: sysdebug:MEpLog
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/log-[type]-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/mgmt/log-[type]-[id]
Affected MO: sys/switch-[id]/mgmt/log-[type]-[id]
```

fltSysdebugMEpLogMEpLogVeryLow

Fault Code: F1128

Message

Log capacity on [side] IOM [chassisId]/[id] is [capacity]Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity]Log capacity on Management Controller on server [id] is [capacity]

Explanation

This fault typically occurs because Cisco FPR Manager has detected that the system event log (SEL) on the server is almost full. The available capacity in the log is very low. This is an info-level fault and can be ignored if you do not want to clear the SEL at this time.

Recommended Action

If you see this fault, you can clear the SEL in Cisco FPR Manager if desired.

Fault Details

```
Severity: info
```

Cause: log-capacity
mibFaultCode: 1128
mibFaultName: fltSysdebugMEpLogMEpLogVeryLow
moClass: sysdebug:MEpLog
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/log-[type]-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/mgmt/log-[type]-[id]
Affected MO: sys/switch-[id]/mgmt/log-[type]-[id]

fltSysdebugMEpLogMEpLogFull

Fault Code: F1129

Message

Log capacity on [side] IOM [chassisId]/[id] is [capacity]Log capacity on Management Controller on server [chassisId]/[slotId] is [capacity]Log capacity on Management Controller on server [id] is [capacity]

Explanation

This fault typically occurs because Cisco FPR Manager could not transfer the SEL file to the location specified in the SEL policy. This is an info-level fault and can be ignored if you do not want to clear the SEL at this time.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify the configuration of the SEL policy to ensure that the location, user, and password provided are correct.

Step 2 If you do want to transfer and clear the SEL and the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: info
Cause: log-capacity
mibFaultCode: 1129
mibFaultName: fltSysdebugMEpLogMEpLogFull
moClass: sysdebug:MEpLog
Type: operational

Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/log-[type]-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/mgmt/log-[type]-[id]
Affected MO: sys/switch-[id]/mgmt/log-[type]-[id]

fltSysdebugMEpLogTransferError

Fault Code: F1130

Message

Server [chassisId]/[slotId] [type] transfer failed: [operState]Server [id] [type] transfer failed: [operState]

Explanation

This fault occurs when the transfer of a managed endpoint log file, such as the SEL, fails.

Recommended Action

If you see this fault, take the following actions:

Step 1 If the fault is related to the SEL, verify the connectivity to the CIMC on the server.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: info
Cause: file-transfer-failed
mibFaultCode: 1130
mibFaultName: fltSysdebugMEpLogTransferError
moClass: sysdebug:MEpLog
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/log-[type]-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/mgmt/log-[type]-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/log-[type]-[id]

Affected MO: sys/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/log-[type]-[id]
Affected MO: sys/rack-unit-[id]/mgmt/log-[type]-[id]
Affected MO: sys/switch-[id]/mgmt/log-[type]-[id]

fltMgmtIfMisConnect

Fault Code: F1131

Message

Management Port [id] in server [id] is mis connected

Explanation

This fault occurs when the server and FEX connectivity changes.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the connectivity between the server and FEX.

Step 2 If the connectivity was changed by mistake, restore it to its previous configuration.

Step 3 If the connectivity change was intentional, reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: link-misconnected
mibFaultCode: 1131
mibFaultName: fltMgmtIfMisConnect
moClass: mgmt:If
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/if-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/mgmt/if-[id]
Affected MO: sys/switch-[id]/mgmt/if-[id]

fltMgmtIfMissing

Fault Code: F1132

Message

Connection to Management Port [id] in server [id] is missing

Explanation

This fault occurs when the connectivity between a server and FEX is removed or unconfigured.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the connectivity between the server and FEX.

Step 2 If the connectivity was changed by mistake, restore it to its previous configuration.

Step 3 If the connectivity change was intentional, reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: link-missing
mibFaultCode: 1132
mibFaultName: fltMgmtIfMissing
moClass: mgmt:If
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/if-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/mgmt/if-[id]
Affected MO: sys/switch-[id]/mgmt/if-[id]
```

fltMgmtIfNew

Fault Code: F1133

Message

New connection discovered on Management Port [id] in server [id]

Explanation

This fault occurs when the connectivity between a server and a FEX is added or changed.

Recommended Action

If you see this fault, take the following actions:

Step 1 Check the connectivity between the server and FEX.

Step 2 If the connectivity was changed by mistake, restore it to its previous configuration.

Step 3 If the connectivity change was intentional, reacknowledge the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: new-link
mibFaultCode: 1133
mibFaultName: fltMgmtIfNew
moClass: mgmt:If
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/if-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/mgmt/if-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/if-[id]
Affected MO: sys/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/host-eth-[id]/if-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/if-[id]
Affected MO: sys/rack-unit-[id]/mgmt/if-[id]
Affected MO: sys/switch-[id]/mgmt/if-[id]
```

fltMgmtConnectionDisabled

Fault Code: F1134

Message

Management Connection [type] in server [id] is not operational

Explanation

This fault occurs when multiple management connections are acknowledegd.

Recommended Action

If you see this fault, take the following actions:

Step 1 Disable the management connection which is unused.

Step 2 If new management connection needs to be used, decommission and recommission server.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: warning
Cause: another-connection-already-enabled
mibFaultCode: 1134
mibFaultName: fltMgmtConnectionDisabled
moClass: mgmt:Connection
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/mgmt-connection-[t
ype]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/switch-[id]/mgmt/mgmt-connection-[type]
```

fltMgmtConnectionUnused

Fault Code: F1135

Message

Management Connection [type] in server [id] is unused

Explanation

This fault occurs when a management connection is not enabel

Recommended Action

If you see this fault, you can enable the connection if none of the management connections are enabled. Else this can be ignored

Fault Details

```
Severity: info
Cause: connection-unused
mibFaultCode: 1135
mibFaultName: fltMgmtConnectionUnused
moClass: mgmt:Connection
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/mgmt-connection-[t
ype]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/switch-[id]/mgmt/mgmt-connection-[type]
```

fltMgmtConnectionUnsupportedConnectivity

Fault Code: F1136

Message

Unsupported connectivity for management connection [type] in server [id]

Explanation

This fault typically occurs because Cisco FPR Manager has detected that the physical connectivity of the management port of the server is unsupported.

Recommended Action

If you see this fault, take the following actions:

Step 1 Connect the management port/s of the rack mount server to the Fabric Extender/s

Step 2 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: unsupported-connectivity
mibFaultCode: 1136
mibFaultName: fltMgmtConnectionUnsupportedConnectivity
moClass: mgmt:Connection
Type: operational
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/mgmt-connection-[t
ype]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/rack-unit-[id]/mgmt/mgmt-connection-[type]
Affected MO: sys/switch-[id]/mgmt/mgmt-connection-[type]
```

fltMgmtControllerUnsupportedDimmBlacklisting

Fault Code: F1137

Message

Dimm blacklisting is not supported on server [chassisId]/[slotId]Dimm blacklisting is not supported on server [id]

Explanation

This fault typically occurs when the CIMC firmware on a server is an earlier release than Cisco FPR, Release 2.2.

Recommended Action

If you see this fault, consider upgrading the CIMC firmware, and the entire Cisco FPR instance if necessary, to Cisco FPR, Release 2.2 or later.

Fault Details

```
Severity: info
Cause: incompatible-server-firmware
mibFaultCode: 1137
mibFaultName: fltMgmtControllerUnsupportedDimmBlacklisting
moClass: mgmt:Controller
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt
Affected MO: sys/chassis-[id]/slot-[id]/mgmt
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt
Affected MO: sys/fex-[id]/mgmt
Affected MO: sys/fex-[id]/slot-[id]/mgmt
Affected MO: sys/mgmt
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt
Affected MO: sys/rack-unit-[id]/boardController/mgmt
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt
Affected MO: sys/rack-unit-[id]/mgmt
Affected MO: sys/switch-[id]/mgmt
```

fltMgmtInterfaceNamedInbandVlanUnresolved

Fault Code: F1138

Message

[configMessage]

Explanation

This fault occurs if there is an issue in Inband interface configuration.

Recommended Action

If you see this fault check if the VLAN configured on Inband IP is created and the VLAN is present in the Inband Profile or IP address is configured

Fault Details

```
Severity: minor
Cause: named-inband-vlan-unresolved
mibFaultCode: 1138
mibFaultName: fltMgmtInterfaceNamedInbandVlanUnresolved
moClass: mgmt:Interface
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/iface-[mode]
```

Affected MO: org-[name]/tier-[name]/ls-[name]/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/mgmt/iface-[mode]
Affected MO: sys/switch-[id]/mgmt/iface-[mode]

fltMgmtInterfaceInbandUnsupportedServer

Fault Code: F1139

Message

[configMessage]

Explanation

This fault occurs if there is an issue in Inband interface configuration.

Recommended Action

If you see this fault check if the VLAN configured on Inband IP is created and the VLAN is present in the Inband Profile or IP address is configured

Fault Details

Severity: minor
Cause: inband-unsupported-server
mibFaultCode: 1139
mibFaultName: fltMgmtInterfaceInbandUnsupportedServer
moClass: mgmt:Interface
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/iface-[mode]
Affected MO: org-[name]/tier-[name]/ls-[name]/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/iface-[mode]

Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/mgmt/iface-[mode]
Affected MO: sys/switch-[id]/mgmt/iface-[mode]

fltMgmtInterfaceInbandUnsupportedFirmware

Fault Code: F1140

Message

[configMessage]

Explanation

This fault occurs if there is an issue in Inband interface configuration.

Recommended Action

If you see this fault check if the VLAN configured on Inband IP is created and the VLAN is present in the Inband Profile or IP address is configured

Fault Details

Severity: minor
Cause: unsupported-cimc-firmware
mibFaultCode: 1140
mibFaultName: fltMgmtInterfaceInbandUnsupportedFirmware
moClass: mgmt:Interface
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/ls-[name]/iface-[mode]
Affected MO: org-[name]/tier-[name]/ls-[name]/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/boardController/mgmt/iface-[mode]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/mgmt/iface-[mode]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/iface-[mode]
Affected MO: sys/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/iface-[mode]
Affected MO: sys/rack-unit-[id]/mgmt/iface-[mode]
Affected MO: sys/switch-[id]/mgmt/iface-[mode]

fltPortPIoLink-down

Fault Code: F1150

Message

[transport] port [portId] on chassis [id] oper state: [operState], reason: [stateQual][transport] port [slotId]/[aggrPortId]/[portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual][transport] port [slotId]/[portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

Explanation

This fault occurs when a fabric interconnect port is in link-down state. This state impacts the traffic destined for the port.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the physical link is properly connected between the fabric interconnect and the peer component.

Step 2 Verify that the configuration on the peer entity is properly configured and matches the fabric interconnect port configuration.

Step 3 Unconfigure and re-configure the port.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: link-down
mibFaultCode: 1150
mibFaultName: fltPortPIoLinkDown
moClass: port:PIo
Type: network
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltPortPIoFailed

Fault Code: F1151

Message

[transport] port [portId] on chassis [id] oper state: [operState], reason: [stateQual][transport] port [slotId]/[aggrPortId]/[portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual][transport] port [slotId]/[portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

Explanation

This fault is raised on fabric interconnect ports and on server-facing ports on an IOM or a FEX module when FPRM detects that the port is not up and in failed state while it is expected to be up since it has been enabled by user and there is no known hardware failure or missing SFP issue and port license is valid. Additional reason is displayed by the fault description string.

Recommended Action

If you see this fault, Corrective action maybe taken based on reason information in the fault description whenever such a reason is displayed. If the fault description displays reason as "ENM source pinning failed" then it means that the fabric interconnect is operating in End-host Node Mode and the uplink port that this server facing port is pinned to is down or does not have appropriate VLAN configured. In case of such an error for an appliance port check the VLAN configuration on uplink port. A VLAN with same id as the one on the appliance port will also need to be configured on the uplink port. After setting the configuration right if you still see the fault then create a **show tech-support** file for Cisco FPR Manager and the chassis or FEX module, and then contact Cisco TAC.

Fault Details

```
Severity: minor
Cause: port-failed
mibFaultCode: 1151
mibFaultName: fltPortPIoFailed
moClass: port:PIo
Type: network
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltPortPIoHardware-failure

Fault Code: F1152

Message

[transport] port [portId] on chassis [id] oper state: [operState], reason: hardware-failure[transport] port [slotId]/[aggrPortId]/[portId] on fabric interconnect [id] oper state: [operState], reason: hardware-failure[transport] port [slotId]/[portId] on fabric interconnect [id] oper state: [operState], reason: hardware-failure

Explanation

This fault is raised on fabric interconnect ports and server-facing ports on an IOM or a FEX module when the system detects a hardware failure.

Recommended Action

If you see this fault, create a **show tech-support** file for Cisco FPR Manager and the chassis or FEX module, and then contact Cisco TAC.

Fault Details

```
Severity: major
Cause: port-failed
mibFaultCode: 1152
mibFaultName: fltPortPIoHardwareFailure
moClass: port:PIo
Type: network
Callhome: diagnostic
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltPortPIoSfp-not-present

Fault Code: F1153

Message

[transport] port [portId] on chassis [id] oper state: [operState][transport] port [slotId]/[aggrPortId]/[portId] on fabric interconnect [id] oper state: [operState][transport] port [slotId]/[portId] on fabric interconnect [id] oper state: [operState]

Explanation

When a fabric interconnect port is not in an unconfigured state, an SFP is required for its operation. This fault is raised to indicate that the SFP is missing from a configured port.

Recommended Action

If you see this fault, insert a supported SFP into the port on the fabric interconnect. A list of supported SFPs can be found on www.Cisco.com.

Fault Details

```
Severity: info
Cause: port-failed
mibFaultCode: 1153
mibFaultName: fltPortPIoSfpNotPresent
moClass: port:PIo
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltPortPIoInvalid-sfp

Fault Code: F1154

Message

[transport] port [portId] on chassis [id] role : [ifRole] transceiver type:[xcvrType][transport] port [slotId]/[aggrPortId]/[portId] on fabric interconnect [id] role : [ifRole] transceiver type:[xcvrType][transport] port [slotId]/[portId] on fabric interconnect [id] role : [ifRole] transceiver type:[xcvrType]

Explanation

This fault is raised against a fabric interconnect port, network-facing IOM port, or FEX module port if an unsupported transceiver type is inserted. The port cannot be used if it has an unsupported transceiver.

Recommended Action

If you see this fault, replace the transceiver with a supported SFP type. Refer to the documentation on the Cisco website for a list of supported SFPs.

Fault Details

```
Severity: major
Cause: unsupported-transceiver
mibFaultCode: 1154
mibFaultName: fltPortPIoInvalidSfp
moClass: port:PIo
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/aggr-port-[aggrPortId]/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltEtherServerIntFloHardware-failure

Fault Code: F1155

Message

IOM [transport] interface [portId] on chassis [id] oper state: [operState], reason: [stateQual]Fabric Interconnect [transport] interface [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]IOM [transport] interface [portId] on fex [id] oper state: [operState], reason: [stateQual]

Explanation

This fault is raised on the IOM/FEX backplane ports when Cisco FPR Manager detects a hardware failure.

Recommended Action

If you see this fault, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: interface-failed
mibFaultCode: 1155
mibFaultName: fltEtherServerIntFIoHardwareFailure
moClass: ether:ServerIntFIo
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/diag/port-[portId]
Affected MO: sys/chassis-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/chassis-[id]/sw-slot-[id]/[type]/port-[portId]
Affected MO: sys/fex-[id]/slot-[id]/[type]/port-[portId]
Affected MO: sys/rack-unit-[id]/diag/port-[portId]
Affected MO: sys/switch-[id]/slot-[id]/[type]/port-[portId]
```

fltFabricExternalPcDown

Fault Code: F1156

Message

[type] port-channel [portId] on fabric interconnect [switchId] oper state: [operState], reason: [stateQual][type] port-channel [portId] on fabric interconnect [switchId] oper state: [operState], reason: [stateQual]

Explanation

This fault typically occurs when a fabric interconnect reports that a fabric port channel is operationally down.

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the member ports in the fabric port channel are administratively up and operational. Check the link connectivity for each port.

Step 2 If connectivity seems correct, check the operational states on the peer switch ports of the port channel members.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: operational-state-down
mibFaultCode: 1156
mibFaultName: fltFabricExternalPcDown
moClass: fabric:ExternalPc
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/eth-estc/[id]/net-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/eth-estc/[id]/pc-[portId]
Affected MO: fabric/eth-estc/net-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/lan/[id]/net-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/lan/[id]/net-group-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/lan/[id]/pc-[portId]
Affected MO: fabric/lan/net-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/lan/net-group-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/san/[id]/fcoesanpc-[portId]
Affected MO: fabric/san/[id]/net-[name]/fcoepc-switch-[switchId]-fcoepc-[portId]
Affected MO: fabric/san/[id]/net-[name]/pc-switch-[switchId]-pc-[portId]
Affected MO: fabric/san/[id]/pc-[portId]
Affected MO: fabric/san/net-[name]/fcoepc-switch-[switchId]-fcoepc-[portId]
Affected MO: fabric/san/net-[name]/pc-switch-[switchId]-pc-[portId]
```

fltFabricInternalPcDown

Fault Code: F1157

Message

[type] port-channel [portId] on fabric interconnect [id] oper state: [operState], reason: [stateQual]

Explanation

This fault occurs when the transport VIF for a server is down. Cisco FPR Manager raises this fault when a fabric interconnect reports the connectivity state on virtual interface as one of the following:

- Down
- Errored
- Unavailable

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the blade server discovery was successful.

Step 2 Check the states on all communicating ports from end to end.

Step 3 If connectivity seems correct, decommission and recommission the server.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: operational-state-down
mibFaultCode: 1157
mibFaultName: fltFabricInternalPcDown
moClass: fabric:InternalPc
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: fabric/server/sw-[id]/pc-[portId]
```

fltDcxVcDown

Fault Code: F1158

Message

[transport] VIF [id] on server [chassisId] / [slotId] of switch [switchId] down, reason: [stateQual][transport] VIF [id] on server [id] of switch [switchId] down, reason: [stateQual]

Explanation

This fault typically occurs when a fabric interconnect reports one of the following connectivity states for a virtual interface:

- Down
- Errored
- Unavailable

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the uplink physical interface is up.

Step 2 If the vNIC/vHBA is configured for a pin group, verify that the pin group targets are configured correctly.

Step 3 In the Network Control Policy for the vNIC, verify that the 'Action on Uplink Fail' field is set to 'warning'.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: link-down
mibFaultCode: 1158
mibFaultName: fltDcxVcDown
moClass: dcx:Vc
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]
```

Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/fex-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/vc-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/vc-[id]

fltDcxVcMgmt-vif-down

Fault Code: F1159

Message

IOM [chassisId] / [slotId] ([switchId]) management VIF [id] down, reason [stateQual]

Explanation

This fault occurs when the transport VIF for an I/O module is down. Cisco FPR Manager raises this fault when a fabric interconnect reports the connectivity state on virtual interface as one of the following:

- Down
- Errored
- Unavailable

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the chassis discovery has gone through successfully. Check the states on all communicating ports from end to end.

Step 2 If connectivity seems correct, decommission and recommission the chassis.

Step 3 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: cmc-vif-down
mibFaultCode: 1159
mibFaultName: fltDcxVcMgmtVifDown
moClass: dcx:Vc
Type: network
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO:
sys/chassis-[id]/blade-[slotId]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/chassis-[id]/sw-slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/fabric-[switchId]/path-[id]/vc-[id]

Affected MO: sys/fex-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/fex-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/fex-[id]/slot-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/adaptor-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/boardController/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/ext-board-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/fabric-[switchId]/vc-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/rack-unit-[id]/mgmt/fabric-[switchId]/vc-[id]
Affected MO: sys/switch-[id]/lanmon-eth/mon-[name]/vc-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/path-[id]/vc-[id]
Affected MO: sys/switch-[id]/mgmt/fabric-[switchId]/vc-[id]

fltPolicyControlEpSuspendModeActive

Fault Code: F1174

Message

FPRM is suspended from receiving updates from FPR Central.

Explanation

This fault occurs when FPRM enters into suspend state from receiving updates from FPR Central that it is registered with.

Recommended Action

If you see this fault, take the following actions:

Step 1 Please check if FPR Central is restored to a previous version or a policy roll-back has occured. You may have brought FPR in to manual suspension mode by using **set suspendstate on** command under the system-control-ep policy scope.

Step 2 Please confirm the suspend state by using **show control-ep policy detail** under system scope. If you still want to receive the updates from FPR Central, you need to restore it back to a version compatible with FPRM or set the suspend state to off by acknowledging it by using **set ackstate acked** under policy-control scope.

Step 3 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: warning
Cause: suspend-mode-entered
mibFaultCode: 1174

mibFaultName: fltPolicyControlEpSuspendModeActive
moClass: policy:ControlEp
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/control-ep-[type]

fltProcessorUnitThermalProblem

Fault Code: F1308

Message

[typeInKp] thermal state is upper-critical. [faultMsg]

Explanation

This fault typically occurs when the processor unit thermal sensors have detected a problem.

Recommended Action

If you see this fault, take the following actions:

Step 1 Make sure that the fans are working properly.

Step 2 If the above action did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

Severity: major
Cause: thermal-problem
mibFaultCode: 1308
mibFaultName: fltProcessorUnitThermalProblem
moClass: processor:Unit
Type: environmental
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/blade-[slotId]/board/cpu-[id]
Affected MO: sys/chassis-[id]/blade-[slotId]/npu/cpu-[id]
Affected MO: sys/rack-unit-[id]/board/cpu-[id]

fltFirmwareInfraPackInfraBundleVersionMissing

Fault Code: F1309

Message

Bundle version in firmware package is empty, need to re-install

Explanation

This fault typically occurs when the bundle version in a firmware infrastructure package is not set.

Recommended Action

If you see this fault, take the following actions:

Step 1 In the CLI, under scope org/fw-infra-pack, set the infra-bundle-version to a desired or expected running version.

Fault Details

```
Severity: critical
Cause: default-infra-version-missing
mibFaultCode: 1309
mibFaultName: fltFirmwareInfraPackInfraBundleVersionMissing
moClass: firmware:InfraPack
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: org-[name]/fw-infra-pack-[name]
```

fltFirmwareSystemInfraBundleValidationFailure

Fault Code: F1310

Message

Software Pack upgrade failed validation

Explanation

This fault typically occurs when the bundle upgrade failed the image signature validation

Recommended Action

If you see this fault, take the following actions:

Step 1 In the CLI, under scope firmware, delete the software pack and redownload again. If problem still persists, please contact customer support

Fault Details

```
Severity: major
Cause: default-infra-bundle-validation-failed
mibFaultCode: 1310
mibFaultName: fltFirmwareSystemInfraBundleValidationFailure
moClass: firmware:System
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fw-system
```

fltFirmwareSystemInfraBundleUpgradeFailure

Fault Code: F1311

Message

Software Pack upgrade failure: [upgradeStatus]

Explanation

This fault typically occurs when the bundle upgrade failed to upgrade one or more platform image(s)

Recommended Action

If you see this fault, please contact customer support

Fault Details

```
Severity: critical
Cause: default-infra-bundle-upgrade-failure
mibFaultCode: 1311
mibFaultName: fltFirmwareSystemInfraBundleUpgradeFailure
moClass: firmware:System
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fw-system
```

fltFirmwareSystemFirmwareUpgradeFailure

Fault Code: F1312

Message

Failed to upgrade Firmware Image

Explanation

This fault typically occurs when firmware image is failed to upgrade

Recommended Action

If you see this fault, please contact customer support

Fault Details

```
Severity: critical
Cause: default-firmware-upgrade-failure
mibFaultCode: 1312
mibFaultName: fltFirmwareSystemFirmwareUpgradeFailure
moClass: firmware:System
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fw-system
```

fltFirmwareSystemTooManyKeysInstalled

Fault Code: F1314

Message

Too many keys on the system Primary/Backup Release Keys([numPrimaryReleaseKeys], [numBackupReleaseKeys])

Explanation

This fault typically occurs when the firmware was not properly install on the system

Recommended Action

If you see this fault, please contact customer support

Fault Details

```
Severity: info
Cause: too-many-keys-on-system
mibFaultCode: 1314
mibFaultName: fltFirmwareSystemTooManyKeysInstalled
moClass: firmware:System
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fw-system
```

fltFirmwareSystemDevkeysInstalled

Fault Code: F1315

Message

System is installed with development keys

Explanation

This fault typically occurs when the development keys are installed on the system

Recommended Action

If you see this fault, please contact customer support

Fault Details

```
Severity: info
Cause: devkeys-installed-on-system
mibFaultCode: 1315
mibFaultName: fltFirmwareSystemDevkeysInstalled
moClass: firmware:System
Type: management
Callhome: none
Auto Cleared: true
Is Implemented: true
Affected MO: sys/fw-system
```

fltEquipmentFanModuleFanModuleUnidentified

Fault Code: F1322

Message

Fan module inserted unidentified

Explanation

This fault typically occurs when Cisco FPR Manager can not identify a Fan Tray

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the fan tray is properly installed in the chassis.

Step 2 Remove the fan tray and reinstall it.

Step 3 Make sure that a Cisco Firepower fan tray is inserted.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: fan-module-unidentified
mibFaultCode: 1322
mibFaultName: fltEquipmentFanModuleFanModuleUnidentified
moClass: equipment:FanModule
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/fan-module-[tray]-[id]
Affected MO: sys/rack-unit-[id]/fan-module-[tray]-[id]
Affected MO: sys/switch-[id]/fan-module-[tray]-[id]
```

fltEquipmentPsuPsuUnidentified

Fault Code: F1323

Message

Power supply inserted into slot [id] unidentified

Explanation

This fault typically occurs when Cisco FPR Manager can not identify a PSU

Recommended Action

If you see this fault, take the following actions:

Step 1 Verify that the PSU is properly installed in the chassis.

Step 2 Remove the PSU and reinstall it.

Step 3 Make sure that a Cisco Firepower Psu is inserted.

Step 4 If the above actions did not resolve the issue, create a **show tech-support** file and contact Cisco TAC.

Fault Details

```
Severity: major
Cause: psu-unidentified
mibFaultCode: 1323
mibFaultName: fltEquipmentPsuPsuUnidentified
moClass: equipment:Psu
Type: equipment
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
```

Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]

fltEquipmentPsuPsuFanProblem

Fault Code: F1324

Message

Power supply [id] in chassis [id] Fan Status: [psuFanStatus]Power supply [id] in fabric interconnect [id] Fan Status: [psuFanStatus]Power supply [id] in fex [id] Fan Status: [psuFanStatus]Power supply [id] in server [id] Fan Status: [psuFanStatus]

Explanation

This fault typically occurs when Cisco FPR Manager detects a problem with PSU Fan

Recommended Action

Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at **http://www.cisco.com/tac**. If you cannot resolve the issue, create a **show tech-support** file and contact Cisco Technical Support.

Fault Details

Severity: major
Cause: psu-fan-problem
mibFaultCode: 1324
mibFaultName: fltEquipmentPsuPsuFanProblem
moClass: equipment:Psu
Type: environmental
Callhome: environmental
Auto Cleared: true
Is Implemented: true
Affected MO: sys/chassis-[id]/psu-[id]
Affected MO: sys/fex-[id]/psu-[id]
Affected MO: sys/rack-unit-[id]/psu-[id]
Affected MO: sys/switch-[id]/psu-[id]

fltEquipmentChassisBoot-problem

Fault Code: F1325

Message

Device [id] Boot Status: [bootStatus]

Explanation

This fault occurs in the event that the Chassis Boot Status is not normal

Recommended Action