



Fabric Interconnect Alarms

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Fabric Interconnect Components Alarms

Following table shows the description of the supported alarms for Fabric Interconnect components.

| Name | MO | Severity | Explanation | Recommended Action |
|------------------------|-----------------|----------|---|--|
| PeerFirmwareOutOfSync | network.element | Info | This alarm is triggered when there is a discrepancy in the firmware version between peer fabric interconnects, indicating that they are not synchronized. | <ol style="list-style-type: none"> 1. Initiate the firmware upgrade process on the peer fabric interconnect to align its firmware version with the other interconnect. 2. Verify that both fabric interconnects are operating on identical firmware versions post-upgrade to ensure synchronization. |
| fpgaUpgrade | network.Element | Critical | This alarm occurs when you update to Infrastructure Release 4.1(3) or a later version on Cisco UCS 6400 Series Fabric Interconnects, you may notice a specific message on one or both Fabric Interconnects, depending on the original factory-shipped code for the device. There is no production risk involved. However, it's important to note that the security level may be slightly lower. | To enhance the security of your Field-Programmable Gate Array (FPGA), execute the 'activate secure-fpga' command on the target device through your console's Command Line Interface (CLI). For more information, see Intersight Help Center. |
| NetworkSwitchEvacuated | network.Element | Info | This alarm is triggered when the Fabric Interconnect is evacuated. For example, Evacuation enabled for DomainName/switch-B. | Disable the Fabric Evacuation on the Fabric Interconnect for the alarm to get cleared. |

| Name | MO | Severity | Explanation | Recommended Action |
|---------------------------|---------------------|----------|---|---|
| SwitchFanModuleInoperable | equipment.FanModule | Critical | This alarm occurs if a fan module is not operational. It can occur when one or more fans in a fan module are not operational. | <ol style="list-style-type: none"> 1. Check the fan module status on the GUI Fabric Interconnects>Inventory>Fan Modules 2. Ensure that at least one fan is installed and functioning properly. 3. Check the fan-related syslog messages to see the exact reason for the failure. 4. Create a <code>show tech-support</code> file and contact Cisco TAC to see if the fan needs replacement. |
| SwitchFanInoperable | equipment.Fan | Critical | This alarm occurs if a fan is not operational. | <ol style="list-style-type: none"> 1. Check the fan status on the GUI Fabric Interconnects>Inventory>Fan Modules 2. Check the fan-related syslog messages to see the exact reason for the failure. 3. Create a <code>show tech-support</code> file and contact Cisco TAC to see if the fan needs replacement. |
| SwitchFanPoweredOff | equipment.Fan | Critical | This alarm occurs if a fan is shutdown. | <ol style="list-style-type: none"> 1. Check the fan status on the GUI Fabric Interconnects>Inventory>Fan Modules 2. Check the fan-related syslog messages to see the exact reason for the failure. 3. If the fan is OK, Check the PSU status Fabric Interconnects>Inventory>PSUs 4. Verify that the power cord is properly connected to the power supply and to the power source. 5. Ensure that the power supply is properly inserted and plugged in. 6. If problem persists, remove and re-insert the power-supply unit. 7. If the status continues to show fail or shutdown, create a <code>show tech-support</code> file and contact Cisco TAC to see if the faulty power supply unit needs replacement. |

| Name | MO | Severity | Explanation | Recommended Action |
|------------------------|----------------------|----------|--|--|
| SwitchPsuInoperable | equipment.Psu | Critical | This alarm occurs if a Power Supply is not operational. | <ol style="list-style-type: none"> 1. Check the power supply unit that has the problem, as follow: <ul style="list-style-type: none"> • On the GUI, view the PSUs tab here: Fabric Interconnects>Inventory>PSUs 2. Verify that the power cord is properly connected to the power supply and to the power source. 3. Ensure that the power supply is properly inserted and plugged in. 4. If problem persists, remove and re-insert the power-supply unit. 5. If the power supply light is still not green and the status continues to show fail or shutdown, create a <code>show tech-support</code> file and contact Cisco TAC to see if the PSU needs replacement. |
| SwitchPsuPoweredOff | equipment.Psu | Critical | This alarm occurs if a Power Supply is powered off either due to higher than expected power or due to higher than expected temperatures, or because of the failure of a fan. | <ol style="list-style-type: none"> 1. Check the power supply unit that has the problem, as follow: <ul style="list-style-type: none"> • On the GUI, view the PSUs tab here: on the GUI Fabric Interconnects>Inventory>PSUs 2. Verify that the power cord is properly connected to the power supply and to the power source. 3. Ensure that the power supply is properly inserted and plugged in. 4. Ensure that the PSU is operating in the permissible temperature range. 5. Verify that the server fans are working properly. 6. Create a <code>show tech-support</code> file and contact Cisco TAC to see if any hardware needs replacement. |
| VlanPortCountThreshold | network.VlanPortInfo | Warning | This alarm typically occurs when the total number of configured VLANs in the Cisco UCS instance has exceeded 90% of the allowed maximum number of configured VLANs on the Fabric Interconnect. | <ol style="list-style-type: none"> 1. Ensure that Port VLAN Count with VLAN Port Count Optimization Enabled on Cisco UCS 6400 Series and 6500 Series FI in Intersight Managed Mode does not exceed 97200. 2. If the above action does not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |

| Name | MO | Severity | Explanation | Recommended Action |
|-----------------------|----------------------|----------|---|--|
| VlanPortCountExceeded | network.VlanPortInfo | Critical | This alarm typically occurs when the total number of configured VLANs in the Cisco UCS instance has exceeded the allowed maximum number of configured VLANs on the Fabric Interconnect. | <ol style="list-style-type: none"> 1. Ensure that Port VLAN Count with VLAN Port Count Optimization Enabled on Cisco UCS 6400 Series and 6500 Series FI in Intersight Managed Mode does not exceed 108000. 2. If the above action does not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| SwitchDisconnected | network.Element | Critical | This alarm typically occurs when device cannot connect to Intersight. It can occur when a power cable is disconnected or input voltage is incorrect. | <ol style="list-style-type: none"> 1. Ensure that the power supply is properly inserted and plugged in. 2. Ensure that the device is supplied with the required input voltage as per the product specifications. 3. If the above actions do not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| SwitchInoperable | network.Element | Critical | This alarm typically occurs when the device connector reports that the connectivity state of this switch is down. | <ol style="list-style-type: none"> 1. Ensure that the power supply is properly inserted and plugged in. 2. Ensure that the device is supplied with the required input voltage as per the product specifications. 3. Ensure that the device is connected to the network. 4. If the above action does not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| SwitchEvacuated | network.Element | Info | This alarm typically occurs when the switch is evacuated. | <ol style="list-style-type: none"> 1. Ensure that the Evacuation option is switched off for the Fabric Interconnects. 2. If the above action does not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |

| Name | MO | Severity | Explanation | Recommended Action |
|----------------------------|-----------------|----------|---|---|
| SwitchThermalError | network.Element | Warning | This alarm occurs when the temperature of a Fabric Interconnect exceeds a critical threshold value. | <ol style="list-style-type: none"> 1. Review the product specifications to determine the operating temperature range of the Fabric Interconnect. 2. Power off unused blade servers and rack servers. 3. Verify that the server fans are working properly. 4. Clean the installation site at regular intervals to avoid buildup of dust and debris, which can cause a system to overheat. 5. Set the power profiling, power priority of the server, and the power restore state of the system through server Power Policy. 6. If the above actions do not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| EtherTransceiverNotPresent | network.Element | Info | When a switch port is not in an unconfigured state, an SFP is required for its operation. This alarm is raised to indicate that the either SFP is faulty or missing from a configured port. | If you see this fault, insert a supported SFP into the port on the Fabric Interconnect. Refer to the documentation on the Cisco website for a list of supported SFPs. |
| EtherPortLinkDown | network.Element | Warning | This alarm occurs when a Fabric Interconnect port is in link-down state. This state impacts the traffic destined for the port. | <ol style="list-style-type: none"> 1. Verify that the physical link is properly connected between the Fabric Interconnect and the peer component. 2. Verify that the configuration on the peer entity is properly configured and matches the Fabric Interconnect port configuration. 3. Unconfigure and re-configure the port. 4. If the above actions do not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| FcPcLinkDown | network.Element | Warning | This fault occurs when a Fabric Interconnect port channel is in link-down state. This state impacts the traffic destined for the port channel. | <ol style="list-style-type: none"> 1. Check the link connectivity on the upstream Fibre Channel switch. 2. If the above actions do not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |

| Name | MO | Severity | Explanation | Recommended Action |
|-------------------------|-----------------|----------|--|--|
| FcPortLinkDown | network.Element | Warning | This fault occurs when a Fabric Interconnect port is in link-down state. This state impacts the traffic destined for the port. | <ol style="list-style-type: none"> 1. Verify that the physical link is properly connected between the Fabric Interconnect and the peer component. 2. Verify that the configuration on the peer entity is properly configured and matches the Fabric Interconnect port configuration. 3. Unconfigure and re-configure the port. 4. If the above actions do not resolve the issue, create a <code>show tech-support</code> file and contact Cisco TAC. |
| FcTransceiverNotPresent | network.Element | Info | When a switch port is not in an unconfigured state, an SFP is required for its operation. This alarm is raised to indicate that the SFP is missing from a configured port. | If you see this fault, insert a supported SFP into the port on the Fabric Interconnect. Refer to the documentation on the Cisco website for a list of supported SFPs. |