Chassis and FEX Alarms

Chassis and FEX Components Alarms

Following table shows the description of the supported alarms for chassis and FEX components.

Name	MO	Severity	Explanation	Recommended Action
IoCardTemperatureCritical	equipment.IoCard	Critical	The I/O Card has a critical temperature threshold condition.	1. View the acceptable temperature and voltage parameters and determine how much of the outlet or inlet temperature has reached or exceeded over the major or minor threshold value. 2. Monitor other environmental events and ensure the temperature ranges are within recommended ranges. 3. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
IoCardTemperatureWarning	equipment.IoCard	Warning	The I/O Card has a warning temperature threshold condition.	1. View the acceptable temperature and voltage parameters and determine how much of the outlet or inlet temperature has reached or exceeded over the major or minor threshold value. 2. Monitor other environmental events and ensure the temperature ranges are within recommended ranges. 3. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.

Name	MO	Severity	Explanation	Recommended Action
ChassisInputPowerCritical	equipment.Chassis	Critical	The chassis input power has crossed the threshold condition.	1. Monitor the PSU status. 2. Verify that the input power cord is appropriate as per the spec sheet. 3. If possible, remove and reset the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisInputPowerWarning	equipment.Chassis	Warning	The chassis input power has reached the threshold condition.	1. Monitor the PSU status. 2. Verify that the input power cord is appropriate as per the spec sheet. 3. If possible, remove and reset the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisOutputPowerCritical	equipment.Chassis	Critical	The chassis output power has crossed the threshold condition.	1. Monitor the PSU status. 2. Verify that the output power matches the maximum rated output power as per the spec sheet. 3. If possible, remove and reset the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisOutputPowerWarning	equipment.Chassis	Warning	The chassis output power has reached the threshold condition.	1. Monitor the PSU status. 2. Verify that the output power matches the maximum rated output mentioned in the spec sheet. 3. If possible, remove and reseat the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.

Name	MO	Severity	Explanation	Recommended Action
ChassisFansMissing	equipment.Chassis	Critical	Multiple chassis fans are not operational or missing.	1. Check the fans operational state on the GUI. **Chassis>Inventory>Thermal>Fan Modules>Fan Module Name>Fans** 2. Check the fan-related syslog messages to see the exact reason for the failure. 3. Create a `show tech-support` file and contact Cisco TAC to see if the fans need replacement.
ChassisFanMissing	equipment.Chassis	Warning	A single chassis fan is not operational or missing.	1. Check the fans operational state on the GUI. **Chassis>Inventory>Thermal>Fan Modules>Fan Module <ID>>Fans** 2. Check the fan-related syslog messages to see the exact reason for the failure. 3. Create a `show tech-support` file and contact Cisco TAC to see if the fan needs replacement.
ChassisPsuRedundancyLost	equipment.Chassis	Critical	The chassis power supply redundancy lost.	1. Consider adding more PSUs to the chassis. 2. If the issue still persists, create a `show tech-support` file and contact Cisco TAC.
IoCardLowMemory	equipment.IoCard	Critical	The I/O Card has a critical low memory error.	Create a `show tech-support` file and contact Cisco TAC.
IoCardFruState	equipment.IoCard	Critical	The I/O Card Field Replacement Unit (FRU) is not readable.	Create a `show tech-support` file and contact Cisco TAC.
ChassisFruState	equipment.Chassis	Critical	The Chassis Field Replacement Unit (FRU) is not readable.	1. Verify that a supported adapter is installed. 2. Create a `show tech-support` file and contact Cisco TAC to see if the adapter needs replacement.
IoCardPost	equipment.IoCard	Warning	The I/O Card has a POST error.	Create a `show tech-support` file and contact Cisco TAC.
IoCardAsicPost	equipment.IoCard	Warning	The I/O Card ASIC has a POST error	Create a `show tech-support` file and contact Cisco TAC.

Name	MO	Severity	Explanation	Recommended Action
IoCardSelectedImage	equipment.IoCard	Warning	There is some issue with the current I/O Card firmware image.	1. Review the fault and the error message on **Chassis>Inventory>IO Modules** to determine why the firmware image is unusable. 2. If the firmware image is bad or corrupted, upgrade the server firmware/HSU bundle. 3. If the issue still persists, create a `show tech-support` file and contact Cisco TAC.
IoCardAlternateImage	equipment.IoCard	Warning	There is some issue with the alternate firmware image of the I/O Card.	1. Review the fault and the error message on **Chassis>Inventory>IO Modules** to determine why the firmware image is unusable. 2. If the firmware image is bad or corrupted, upgrade the server firmware/HSU bundle. 3. If the image is present and the fault persists, create a `show tech-support` file and contact Cisco TAC.

ChassisPowerCritical	equipment.Chassis	Critical	The chassis power supply has critical issue.	1. Review the product specifications to determine the operating temperature range of the PSU module.
				
				2. Power off unused blade servers and rack servers.
				
				3. Check the power supply unit that has the problem, as follows:
				  • On the CLI, run the following command on chassis IFM/ IOM to get the power details: `pwrmgrcli -a`
				  • On the GUI, view the PSUs tab here: **Chassis>Inventory>Power>PSUs**
				
				4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.

Name	MO	Severity	Explanation	Recommended Action
ChassisPowerWarning	equipment.Chassis	Warning	The chassis power supply has warning issue.	1. Review the product specifications to determine the temperature operating range of the PSU module. 2. Power off unused blade servers and rack servers. 3. Check the power supply unit that has the problem, as follow: • On the CLI, run the following command on chassis IFM/ IOM to get the power details: `pwrmgrcli -a` • On the GUI, view the PSUs tab here: **Chassis>Inventory> Power>PSUs** 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisPsuFruState	equipment.Psu	Critical	The power supply Field Replacement Unit (FRU) is not readable.	Create a `show tech-support` file and contact Cisco TAC.
ChassisPsuUnresponsive	equipment.Psu	Critical	The power supply is unresponsive.	1. Check the power supply unit that has the problem, as follow: • On the CLI, run the following command on chassis IFM/ IOM to get the power details: `pwrmgrcli -a` • On the GUI, view the PSUs tab here: **Chassis>Inventory>Power>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 above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.

Name	MO	Severity	Explanation	Recommended Action

ChassisPsuInputOutOfRange	equipment.Psu	Warning	The chassis power supply has out of range AC input.	1. Check the power supply unit that has the problem, as follow:
				
				  • On the CLI, run the following command on chassis IFM/ IOM to get the power details: `pwrmgrcli -a`
				
				  • On the GUI, view the PSUs tab here: **Chassis>Inventory>Power>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 above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.

ChassisPsuInputLost	equipment.Psu	Warning	The power supply has no AC input.	1. Monitor the PSU status. 2. Verify that the power cord is properly connected to the power supply and to the power source. 3. If possible, remove and reseat the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisPsuOutput	equipment.Psu	Critical	The power supply has an error condition that prevents DC output.	1. Monitor the PSU status. 2. Verify that the power cord is properly connected to the power supply and to the power source. 3. Remove and reseat the PSU. 4. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
ChassisPsuTemperatureCritical	equipment.Psu	Critical	The power supply has a temperature threshold condition.	1. Monitor the PSU status. 2. Verify that the server fans are working properly. 3. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.

Name	MO	Severity	Explanation	Recommended Action
ChassisPsuTemperatureWarning	equipment.Psu	Warning	The power supply has a temperature threshold condition.	1. Monitor the PSU status. 2. Verify that the server fans are working properly. 3. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
ChassisPsuInputVoltageCritical	equipment.Psu	Critical	The power supply input voltage has crossed threshold condition.	1. Verify that the power cord is properly connected to the PSU and the power source. 2. Verify that the power source is within the input voltage range mentioned in the spec sheet. 3. Verify that the PSU is properly installed in the chassis. 4. Remove the PSU and reinstall it. 5. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisPsuInputVoltageWarning	equipment.Psu	Warning	The power supply input voltage has reached threshold condition.	1. Verify that the power cord is properly connected to the PSU and the power source. 2. Verify that the power source is within the input voltage range mentioned in the spec sheet. 3. Verify that the PSU is properly installed in the chassis. 4. Remove the PSU and reinstall it. 5. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisPsuOutputCurrentCritical	equipment.Psu	Critical	The power supply output current has crossed the threshold condition.	1. Monitor the PSU status. 2. Remove and reseat the PSU. 3. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisPsuOutputCurrentWarning	equipment.Psu	Warning	The power supply output current has reached the threshold condition.	1. Monitor the PSU status. 2. Remove and reseat the PSU. 3. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.

Name	MO	Severity	Explanation	Recommended Action
ChassisPsuOutputVoltageCritical	equipment.Psu	Critical	The power supply output voltage has crossed the threshold condition.	1. Verify that the power cord is properly connected to the PSU and the power source. 2. Verify that the power source is within the output voltage range mentioned in the spec sheet. 3. Verify that the PSU is properly installed in the chassis. 4. Remove the PSU and reinstall it. 5. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisPsuOutputVoltageWarning	equipment.Psu	Warning	The power supply output voltage has reached the threshold condition.	1. Verify that the power cord is properly connected to the PSU and the power source. 2. Verify that the power source is within the output voltage range mentioned in the spec sheet. 3. Verify that the PSU is properly installed in the chassis. 4. Remove the PSU and reinstall it. 5. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisPsuOutputPowerCritical	equipment.Psu	Critical	The power supply output power has crossed the threshold condition.	1. Verify that the power cord is properly connected to the PSU and the power source. 2. Verify that the output power matches the maximum rated output mentioned in the spec sheet. 3. Verify that the PSU is properly installed in the chassis. 4. Remove the PSU and reinstall it. 5. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if the PSU needs replacement.
ChassisFanFruState	equipment.Fan	Critical	The fan Field Replacement Unit (FRU) is not readable.	If you see this fault, take the following actions: 1. Remove fan module and re-install the fan module again. Remove only one fan module at a time. 2. Create a `show tech-support` file and contact Cisco TAC to see if the fan module needs to be replaced with a different fan module.

Name	MO	Severity	Explanation	Recommended Action
ChassisFanUnresponsive	equipment.Fan	Critical	The chassis fan is unresponsive.	If you see this fault, take the following actions: 1. Check the status of the fan module here for Cisco UCS X-Series Chassis **Chassis>Chassis Name>Inventory>Intelligent Fabric Modules>IFM name>Fan Modules>Fans** or Check the status of the fan module here for chassis other than Cisco UCS X-Series. **Chassis>Chassis Name>Inventory>Thermal>Fan Modules>Fans** 2. Check the operational state of the fan. 3. Create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
ChassisFanTemperatureCritical	equipment.Fan	Critical	The chassis fan has a temperature threshold condition.	1. Review the product specifications to determine the temperature operating range of the fan module. 2. Power off unused blade servers and rack servers. 3. Verify that the site cooling system is operating properly. 4. Set the value of the Fan Control Mode for the chassis using Chassis Thermal policy. 5. Create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
ChassisFanTemperatureWarning	equipment.Fan	Warning	The chassis fan has a temperature threshold condition.	1. Review the product specifications to determine the temperature operating range of the fan module. 2. Power off unused blade servers and rack servers. 3. Verify that the site cooling system is operating properly. 4. Set the value of the Fan Control Mode for the chassis using Chassis Thermal policy. 5. Create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.

Name	MO	Severity	Explanation	Recommended Action
ChassisFanSpeedCritical	equipment.Fan	Critical	The chassis fan has a speed threshold condition.	If you see this fault, take the following actions: 1. If the fan is running below the expected speed, ensure that the fan blades are not blocked. 2. If the fan is running above the expected speed, remove and re-insert the fan. 3. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
ChassisFanSpeedWarning	equipment.Fan	Warning	The chassis fan has a speed threshold condition.	If you see this fault, take the following actions: 1. If the fan is running below the expected speed, ensure that the fan blades are not blocked. 2. If the fan is running above the expected speed, remove and re-insert the fan. 3. If the issue persists, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
FexPsuInoperable	equipment.Psu	Critical	This alarm occurs if a Power Supply is not operational.	1. Check the PSU status by navigating on the GUI as follows: **Chassis >Chassis Name >Inventory> Power>PSUs** 2. Create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.

Name	MO	Severity	Explanation	Recommended Action
FexPsuPoweredOff	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.	1. Check the power supply unit that has the problem, as follow: • On the GUI, view the PSUs tab here: on the GUI **Fabric Interconnects > Fabric Interconnect Name > Connections > Fabric Extenders>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 fans are working properly. 6. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
FexFanInoperable	equipment.Fan	Critical	This alarm occurs if a fan is not operational.	1. Check the fan status on the GUI **Fabric Interconnects > Fabric Interconnect Name > Connections > Fabric Extenders>Inventory>Fan Modules** 2. Check the fan-related syslog messages to see the exact reason for the failure. 3. Create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.

Chassis and FEX Components Alarms

Name	MO	Severity	Explanation	Recommended Action
FexFanPoweredOff	equipment.Fan	Critical	This alarm occurs if a fan is shutdown.	1. Check the fan status on the GUI **Fabric Interconnects > Fabric Interconnect Name > Connections > Fabric Extenders>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 > Fabric Interconnect Name > Connections > Fabric Extenders>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 above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC to see if any hardware needs replacement.
IoCardOffline	equipment.IoCard	Critical	The I/O Card is offline. This fault typically occurs because an I/O module has lost its connection to the Fabric Interconnects.	1. Wait a few minutes to see if the fault clears. This is typically a temporary issue, and can occur after a firmware upgrade. 2. If the fault does not clear after a few minutes, remove, and reinsert the I/O card. 3. If the above actions do not resolve the issue, create a `show tech-support` file and contact Cisco TAC.
IoCardMissing	equipment.IoCard	Critical	I/O Card is missing or removed.	1. Reinsert the I/O card and configure the Fabric Interconnect ports connected to it as server ports and wait a few minutes to see if the fault clears. 2. If the above action does not resolve the issue, create a `show tech-support` file and contact Cisco TAC.