I/O Module Management

I/O Module Management in Cisco UCS Manager GUI

Beginning with release 4.3(2a), Cisco UCS Manager supports Cisco UCS X9508 server chassis with Cisco UCS X-Series servers. Cisco UCS X-Series servers support Intelligent Fabric Modules (IFM), which function similarly to the Input/Output Module (IOM) in Cisco UCS B-Series servers. This guide uses the term IOM to refer both IOM and IFM.

You can manage and monitor all I/O modules in a Cisco UCS domain through Cisco UCS Manager GUI.

Cisco UCS Manager Release 4.1(1) extends support for the Cisco 2408 IO module to the Cisco UCS 64108 Fabric Interconnect.

Cisco UCS Manager Release 4.0(4c) introduces the Cisco 2408 IO module. This IO Module has 32 25-Gigabit backplane ports and 4 100-Gigabit uplink ports, and is supported only on the Cisco UCS 6454 Fabric Interconnect.

Cisco UCS Manager Release 4.0(4a) introduces the Cisco UCS-IOM-2304V2 I/O module which is based on Cisco UCS-IOM-2304 I/O module.

Cisco UCS Manager Release 3.1(1) introduces the Cisco UCS-IOM-2304 I/O module with 40 GbE connectivity to the Cisco UCS 6300 Series Fabric Interconnect. The *Cisco UCS Manager Getting Started Guide* provides more information about this functionality.

Acknowledging an IO Module

Cisco UCS Manager Release 2.2(4) introduces the ability to acknowledge a specific IO module in a chassis.

Note

• After adding or removing physical links between Fabric Interconnect and IO Module, an acknowledgement of the IO Module is required to properly configure the connection.

• The ability to re-acknowledge each IO Module individually allows to rebuild the network connectivity between a single IO Module and its parent Fabric Interconnect without disrupting production traffic in the other Fabric Interconnect.

Procedure

Step 1 In the **Navigation** pane, click **Equipment**.

Step 2 Expand **Equipment** > **Chassis** > *Chassis Number* > **IO Modules**.

Step 3 Choose the I/O module that you want to acknowledge.

Step 4 In the **Work** pane, click the **General** tab.

Step 5 In the **Actions** area, click **Acknowledge IO Module**.

Step 6 In the **Acknowledge IO Module** confirmation box, click **Yes**.

Resetting an I/O Module

Procedure

Step 1 In the **Navigation** pane, click **Equipment**.

Step 2 Expand **Equipment** > **Chassis** > *Chassis Number* > **IO Modules**.

Step 3 Choose the I/O module that you want to reset.

Step 4 In the **Work** pane, click the **General** tab.

Step 5 In the **Actions** area, click **Reset IO Module**.

Step 6 If a confirmation dialog box displays, click **Yes**.

Resetting an I/O Module from a Peer I/O Module

Sometimes, I/O module upgrades can result in failures or I/O modules can become unreachable from Cisco UCS Manager due to memory leaks. You can reboot an I/O module that is unreachable through its peer I/O module.

Resetting the I/O module restores the I/O module to factory default settings, deletes all cache files and temporary files, but retains the size-limited OBFL file.

Procedure

Step 1	In the **Navigation** pane, click **Equipment**.
Step 2	Expand **Equipment** > **Chassis** > *Chassis Number* > **IO Modules**.
Step 3	Choose the peer I/O module of the I/O module that you want to reset.
Step 4	In the **Work** pane, click the **General** tab.
Step 5	In the Actions area, click **Reset Peer IO Module**.

Viewing Health Events for an I/O Module

Procedure

Step 1	In the **Navigation** pane, click **Equipment**.
Step 2	Expand **Equipment** > **Chassis** > *Chassis Number* > **IO Modules**.
Step 3	Choose the I/O module for which you want to view health events.
Step 4	In the **Work** pane, click the **Health** tab

The health events triggered for this I/O module appear. The fields in this tab are:

Name	Description
Health Summary area	
Health Qualifier field	Comma-separated names of all the heath events that are triggered for the component.
Health Severity field	Highest severity of all the health events that are triggered for the component. This can be one of the following: • **critical** • **major** • **minor** • **warning** • **info** • **cleared** **Note** The severity levels listed here are from highest to lowest severity.
Health Details area	

Name	Description

Severity column	Severity of the health event. This can be one of the following:
	
	   • **critical**
	
	   • **major**
	
	   • **minor**
	
	   • **warning**
	
	   • **info**
	
	   • **cleared**
	
	Note The severity levels listed here are from highest to lowest severity.

Name column	Name of the health event.
Description column	Detailed description of the health event.
Value column	Current value of the health event.
Details area	The **Details** area displays the **Name**, **Description**, **Severity**, and **Value** details of any health event that you select in the **Health Details** area.

Viewing the POST Results for an I/O Module

You can view any errors collected during the Power On Self-Test process for an I/O module.

Procedure

Step 1   In the **Navigation** pane, click **Equipment**.

Step 2   Expand **Equipment** > **Chassis** > *Chassis Number* > **IO Modules**.

Step 3   Choose the I/O module for which you want to view the POST results.

Step 4   In the **Work** pane, click the **General** tab.

Step 5   In the **Actions** area, click **View POST Results**.

The **POST Results** dialog box lists the POST results for the I/O module.

Step 6   Click **OK** to close the **POST Results** dialog box.