Domains and Organizations

This chapter includes the following sections:

Domain Groups

Cisco UCS Central creates a hierarchy of Cisco UCS domain groups for managing multiple Cisco UCS domains. You will have the following categories of domain groups in Cisco UCS Central:

- **Domain Group—** A group that contains multiple Cisco UCS domains. You can group similar Cisco UCS domains under one domain group for simpler management.

- **Ungrouped Domains—**When a new Cisco UCS domain is registered in Cisco UCS Central, it is added to the ungrouped domains. You can assign the ungrouped domain to any domain group.

If you have created a domain group policy, and a new registered Cisco UCS domain meets the qualifiers defined in the policy, it will automatically be placed under the domain group specified in the policy. If not, it will be placed in the ungrouped domains category. You can assign this ungrouped domain to a domain group.

Each Cisco UCS domain can only be assigned to one domain group. You can assign or reassign membership of the Cisco UCS domains at any time. When you assign a Cisco UCS domain to a domain group, the Cisco UCS domain will automatically inherit all management policies specified for the domain group.

Before adding a Cisco UCS domain to a domain group, make sure to change the policy resolution controls to local in the Cisco UCS domain. This will avoid accidentally overwriting service profiles and maintenance policies specific to that Cisco UCS domain. Even when you have enabled auto discovery for the Cisco UCS domains, enabling local policy resolution will protect the Cisco UCS domain from accidentally overwriting policies.

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Important
- Make sure to create a separate domain groups for all M Series modular server domains. Also make sure the modular server domain groups are not hierarchical.

- You must create separate infrastructure firmware policy for M Series modular domains in Cisco UCS Central. The infrastructure firmware policies must be unique to modular servers. This will prevent any firmware policy resolution with other domain groups.

Creating or Editing a Domain Group

Step 1 In the Task bar, type **Create Domain Group** and press Enter.
This launches the **Create Domain Group** dialog box.

Step 2 In **Basic**, click **Domain Group Location** and select the location in which you want to create the domain group.

Step 3 Enter a **Name** and optional **Description**.
The name is case sensitive.

Step 4 In **Qualification**, select the **Qualification Policies** that you want to use to identify the Cisco UCS Manager domains.
All domains that meet the qualification policy are automatically added to the domain group.

Step 5 In **Domains**, select the Cisco UCS Manager domains that you want to add to the domain group.
M Series modular server domains should not be added to a domain group that contains UCS Classic (B Series) domains or UCS Mini domains.

Step 6 Click **Create**.

Adding a Domain to a Domain Group

Step 1 Click the Domain Group icon and select the domain group where you want to add the Cisco UCS Manager domain.

Step 2 Click the **Edit** icon.
The **Edit** dialog box for the domain that you selected displays.

Step 3 Update the description and qualification policies as necessary.

Step 4 Click **Domains** and select the Cisco UCS Manager domains that you want to add to the domain group.
Note M Series modular server domains should not be added to a domain group that contains UCS Classic (B Series) domains or UCS Mini domains.

Step 5 Click **Save**.

Managing Domain Group SNMP

Step 1   In the Task bar, type **Manage Domain Group SNMP** and press Enter.
This launches the **Manage Domain Group SNMP** dialog box.

Step 2   In **Basic**, click **Enabled**, then enter the **Community/User Name**.
Cisco UCS includes the SNMP v1 or v2c community name or the SNMP v3 username when it sends the trap to the SNMP host. This must be the same as the community or username that is configured in **SNMP Traps**.

Step 3   Enter the optional **System Contact** and **System Location**.

Step 4   In **SNMP Traps**, click **Add** and complete the following:

    a) Enter the same **Community/User Name** from the **Basic** section.
    b) Enter the **Port**, and select values for the SNMP **Version**, the **Type**, and the **V3 Privilege**.

Step 5   In **SNMP Users**, click **Add** and complete the following:

    a) Enter the **SNMP User Name**.
    b) Select the **Authentication Type** and whether to enable **AES-128 Encryption**.
    c) Enter and confirm the values for the password and privacy password.

Step 6   Click **Save**.

Domain Group Qualification Policy

Domain group policy enables you to automatically place new Cisco UCS domains under domain groups. You can create qualifiers based on Owner, Site and IP Address of various Cisco UCS domains based on your management requirements. When you register a new Cisco UCS domain, Cisco UCS Central analyses the domain based on the pre defined qualifiers in the domain group qualification policy and places the domain under a specific domain group for management.

Creating or Editing a Domain Group Qualification Policy

Step 1   In the Task bar, type **Create Domain Group Qualification Policy** and press Enter.
This launches the **Create Domain Group Qualification Policy** dialog box.

Step 2   In **Basic**, click **Organization** and select the location in which you want to create the domain group qualification policy.

Step 3   Enter a **Name** and optional **Description**.
The policy name is case sensitive.

Step 4	In **Owner**, enter the owner name and regex.
Step 5	In **Site**, enter the site name and regex.
Step 6	In **IP Address**, add the IP address ranges.
Step 7	Click **Create**.

Organizations

Organization

The **Organization** page enables you to view logical entities created under an organization that exists in a registered Cisco UCS domains.

Click one of the following icons to launch the specific page.

- **Service Profiles**—Displays all service profiles in the organization.

- **Service Profile Templates**—Displays all service profile templates in the organization.

- **Pools**—Displays all pools in the organization.

- **Policies**—Displays all policies in the organization.

Updating Organization Descriptions

After an organization is created, you can update the description.

Step 1	From the **Organization** page, click the **Edit** icon. This launches the **Edit Organization** dialog box.
Step 2	Enter the **Description** for the organization.
Step 3	Click **Save**.

Inventory

Domains Table View

The **Domains Table View** page displays the following information related to the domains registered with Cisco UCS Central:

Domain	Hardware	Configuration	Status
This column displays the following information for a registered domain: • The associated domain name and site • Domain group location • Management IP address • Owner	This column displays the following hardware information for a registered domain: • Fabric interconnect model number and cluster state (HA or Standalone) • Number of chassis and FEX • Number of blade and rack servers • Number of blade servers available for storage • Number of cartridges for Cisco UCS M-Series Modular Servers.	This column displays the following configuration for a registered domain: • Platform family • Firmware version • Firmware status	This column displays the following status for a registered domain: • Overall status • Worst fault level • Trial expiry or status

Domain Group Details

From the **Domain Group** page, you can view information about the entities associated with a domain group. This includes the following:

- **Domains**
- **Fabric Interconnects**
- **Chassis**
- **Servers**
- **FEX**
- **vLANs**
- **vSANs**

If you click the **Settings** icon, you can perform the following tasks:

- Create a system profile or system policy.
- Manage users, authentication, SNMP, and Call Home settings.
- Edit the domain group, and delete any user-created domain group.

Note	The domain group root cannot be deleted.

Cisco UCS Domain Main View

The **Cisco UCS Domain** page displays the following information related to a selected Cisco UCS domain:

- **Basic**—Displays information related to the overall status, firmware, resources available, fault summary and management details of the selected Cisco UCS domain.

  Also, you can suspend and acknowledge a UCS Central subscription, and re-evaluate the membership of the domain.

- **FI**—Displays the number of Fabric Interconnects (FI) associated with a domain, overall status, hardware, and firmware details of the FI.

  If you want to view more information on the status of the components in the FI, click on an FI from the list.

- **Chassis**—Displays the number of chassis associated with a domain, overall status, hardware, and configuration details of the chassis. For more information on the status of the components in the chassis, click on a chassis from the list.

- **FEX**—Displays the number of FEX associated with a domain, overall status, hardware, and configuration details of the FEX. For more information on the status of the components in the FEX, click on an FEX from the list.

- **Servers**—Displays the number of servers in a domain and the number of available servers. For more information on overall status, hardware, and configuration details of the server, click **Go to Servers Table**.

On the **Cisco UCS Domain** page, you can do the following:

- Launch Cisco UCS Manager GUI for the selected Cisco UCS domain.

- Suspend UCS Central subscription when the overall status of a domain is OK.

- Activate UCS Central subscription when the overall status of a domain is suspended.

- Re-evaluate membership

Fabric Interconnect

The **Fabric Interconnect** (FI) page displays the following information related to FI associated with the registered Cisco UCS domain:

Fabric Interconnect	Hardware	FW	Status
This column displays the following information for a fabric interconnect: • The associated domain name and FI ID • Domain group location • IP address of the domain	This column displays the following hardware information for a fabric interconnect: • The model number and type of FI • Serial number • The number of fixed and expansion module ports • The number of ethernet and fabric channel ports	This column displays the following firmware details for a fabric interconnect: • Firmware version • Firmware status	This column displays the following status for a fabric interconnect: • Overall status • Worst fault level

Fabric Interconnect Main View

The **Fabric Interconnect Main View** page displays the following information related to the selected Fabric Interconnect (FI) and its components within a registered Cisco UCS domain.

- **Basic**—Displays an overview of the FI within the domain, hardware details, firmware version, number of ports (Ethernet or FC) that are in use and available for use, management IP, and fault summary details.

- **Fixed Mod.**—Displays overall status, firmware, hardware, properties, and fault summary details of the fixed modules installed in the FI .

- **Exp. Mod.**—Displays overall status, firmware, hardware, properties, and fault summary details of the expansion modules installed in the FI.

- **Fans**—Displays overall status, and hardware details of the fan.

- **PSUs**—Displays overall status, fault summary, and hardware details of the PSU.

You can turn on or turn off the locator LED on the chassis by selecting **Toggle Locator LED**.

Servers Table View

The **Servers** page displays the following information related to the servers associated with the registered UCS domain:

Servers	Hardware	Configuration	Status
This column displays the following information for a server: • The associated domain name, chassis ID, and slot ID • Domain group location • Management IP address	This column displays the following hardware information for a server: • Blade server model • The number of cores the CPU has and the total RAM on the motherboard • The serial number • The number of CPUs and the speed	This column displays the following configuration for a server: • Service profile name • Service profile organization location • Firmware version • Firmware status	This column displays the following status for a server: • Overall status • Worst fault level • Power status • Decommissioned server. You can recommission a decommissioned server.

Servers Details Page

The server details page allows you manage and monitor all servers in a Cisco UCS domain.

Note Depending on the server type, the options may vary.

You can view the following information on the selected server and its components:

• **Basic**—Displays associated service profile, fault summary, hardware and firmware details of the selected server.

• **Motherboard**—Displays the overall status and the hardware details of the motherboard.

• **CPUs**—Displays a list of all the CPUs in the server. Click a processor to view overall status and hardware and other details of the selected processor.

• **Memory**—Displays a list of available memory in the selected server. Click a memory to view the current overall status and other details.

• **Adaptors**—Displays details of the adapter in the selected server. Click an adaptor to view overall status, power status and other product details.

• **Storage**—Displays list of the storage in the selected server. Click a disk to view the current overall status, hardware and controller details.

You can also perform the following server-related tasks:

• Launch Cisco UCS Manager or the **KVM Console**.

• Reset, recover, reacknowledge, or decommission a server.

• Toggle the locator LED.

Chassis

The **Chassis** page displays the following information related to the chassis associated with the registered Cisco UCS domain:

Chassis	Hardware	Configuration	Status
This column displays the following information for a chassis: • The associated domain name and chassis ID • Domain group location • Fabric side	This column displays the following hardware information for a chassis: • Model number of the chassis • Serial number of the chassis • Number of blades or modular server. • Number of cartridges	This column displays the following configuration for a Chassis: • Configuration status • Configuration error count	This column displays the following status for a Chassis: • Overall status • Worst fault level • Power status • Thermal status • Decommissioned chassis. You can recommission the chassis by specifying a valid chassis ID.

Chassis Main View

The **Chassis Main View** page allows you to manage and monitor all chassis in a Cisco UCS domain through Cisco UCS Central GUI.

You can view the following information on the selected chassis and its components within a registered Cisco UCS domain:

• **Basic**—Displays the overall status and, overview of all the components within the selected chassis, fault summary, configuration errors and hardware details.

• **IOM Left**—Displays overall status, hardware details and fault summary of the left IOM module.

• **IOM Right**—Displays overall status, hardware details and fault summary details of the right IOM module.

• **Servers**—Displays overall status, hardware, and firmware details of the server associated with this chassis. On selecting a server, the page redirects to the server detail view page of the server in the UCS domain.

• **Fans**—Displays a list of fans in the chassis. Click a fan to view information related to its module, overall status and hardware details.

• **PSUs**— Displays a list of all the PSUs in the chassis. Click a PSU to view information related to its fault summary, overall status, and other property details..

On the **Chassis Main View** page, you can do the following:

- Acknowledge and decommission a chassis.

- Turn on or turn off Locator LED for a chassis.

- Launch Cisco UCS Manager GUI for the selected domain.

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Note   For Cisco UCS M-Series Modular Servers, you can also view information about the Cartridges, Storage, and LUNs associated with the chassis.

FEX

The **FEX** page displays the following information related to the FEX associated with the registered Cisco UCS domains:

FEX	Hardware	Configuration	Status
This column displays the following information for a FEX: - The associated domain name and FEX ID - Domain group location - Fabric Side	This column displays the following hardware information for a FEX: - Model number - Serial number - Number of ports available	This column displays the following configuration for a FEX: - Configuration status - Configuration error count	This column displays the following status for a FEX: - Overall status - Worst fault level - Power status - Thermal status - Decommissioned FEX. You can recommission the FEX by specifying a valid FEX ID.

FEX Main View

Cisco UCS Central enables you to manage the FEXes in the registered UCS domain from both Cisco UCS Central GUI and CLI.

You can view the following information related to the FEX and its components within a registered Cisco UCS domain:

- **Basic**—Displays fault summary, overall status and hardware details of the FEX within UCS domain.

- **IOM**—Displays fault summary, overall status, and properties of the IOM.

- **Servers**—Displays number of rack servers connected to the FEX. Click a server to view more information on overall status, firmware and hardware details of the server.

- **Fans**—Displays a list of fans in the FEX. Click a fan to view more information related to the module number, overall status and hardware details.

- **PSUs**— Displays a list of all the PSUs in the FEX. Click a PSU to view details on fault summary, status, properties, and status of power supply units.

On the **FEX Main View** page, you can do the following:

- Acknowledge, decommission, and recommission a FEX.

- Turn on or turn off Locator LED for FEXes.