



Introduction to Cisco UCS Central

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Introducing Cisco UCS Central

Cisco UCS Central provides scalable management solution for growing Cisco UCS environment. Cisco UCS Central simplifies the management of multiple Cisco UCS domains from a single management point through standardization, global policies and global ID pools. Cisco UCS Central does not replace Cisco UCS Manager, which is the policy driven management for single UCS domain. Instead Cisco UCS Central focuses on managing and monitoring the UCS domains on a global level, across multiple individual Cisco UCS Classic and Mini management domains worldwide.

Cisco UCS Central enables you to manage individual or groups of classic, mini or mixed Cisco UCS domains with the following:

- Centralized Inventory of all Cisco UCS components for a definitive view of the entire infrastructure and simplified integration with current Information Technology Infrastructure Library (ITIL) processes.
- Centralized, policy-based firmware upgrades that can be applied globally or selectively through automated schedules or as business workloads demand
- Global ID pooling to eliminate identifier conflicts
- Global administrative policies that enable both global and local management of the Cisco UCS domains
- An XML API, building on the Cisco UCS Manager XML API for easy integration into higher-level data center management frameworks
- Remote management to manage various end points in registered Cisco UCS domains

Cisco UCS Central does not reduce or change any local management capabilities of Cisco UCS Manager, such as its API. This allows you to continue using Cisco UCS Manager the same way as when you did not have Cisco UCS Central, and also allows all existing third party integrations to continue to operate without change.

Cisco UCS Central Features

The following table provides a list of features with brief description on the management capabilities of Cisco UCS Central:



Note For a full list of new features, see the [Release Notes for Cisco UCS Central](#).

Feature	Description
Centralized inventory	Cisco UCS Central automatically aggregates a global inventory of all registered Cisco UCS components, organized by domain, with customizable refresh schedules and provides even easier integration with ITIL processes, with direct access to the inventory through an XML interface.
Centralized fault summary	Cisco UCS Central enables you to view the status of all Cisco UCS infrastructure on the global fault summary panel, with a fault summary organized by domain and fault type. Also provides you the ability to view individual Cisco UCS Manager domains for greater fault detail and more rapid problem resolution. Drilling down on a fault launches the UCS Manager in context for a seamlessly integrated experience.
Centralized, policy-based firmware upgrades	You can download firmware updates automatically from the Cisco.com to a firmware library within Cisco UCS Central. Then schedule automated firmware updates, globally or selectively, based on your business requirements. Managing firmware centrally ensures compliance with IT standards and makes reprovisioning of resources a point-and-click operation.
Global ID pools	Cisco UCS Central eliminates identifier conflicts and ensures portability of software licenses. You are able to centralize the sourcing of all IDs, such as universal user IDs (UIDs), MAC addresses, IP addresses, and worldwide names (WWNs), from global pools and gain real-time ID use summaries. Centralizing server identifier information makes it simple to move a server identifier between Cisco UCS domains anywhere in the world and reboot an existing workload to run on the new server.
Domain groups	Cisco UCS Central simplifies policy management by providing options to create domain groups and subgroups. A domain group is an arbitrary grouping of Cisco UCS domains that can be used to group systems into geographical or organizational groups. Each domain group can have up to five levels of domain sub groups. This provides you the ability to manage policy exceptions when administering large numbers of Cisco UCS domains. Each sub group has a hierarchical relationship with the parent domain group.
Global administrative policies	Cisco UCS Central helps you to ensure compliance and staff efficiency with global administrative policies. The global policies are defined at the domain group level and can manage anything in the infrastructure, from date and time and user authentication to equipment power and system event log (SEL) policies.

Feature	Description
Global service profiles and templates	Global service profiles and templates in Cisco UCS Central enables fast and simplified infrastructure deployment and provides consistency of configurations throughout the enterprise. This feature enables global bare-metal workload mobility very similar to how hypervisor enables virtualized workload mobility.
Backup	Cisco UCS Central provides an automatic backup facility that enables quick and efficient backing up the configuration information of the registered Cisco UCS domains and the UCS Central configuration.
XML API	Cisco UCS Central, just like Cisco UCS Manager, has a high-level industry-standard XML API for interfacing with existing management frameworks and orchestration tools. The XML API for Cisco UCS Central Software is similar to the XML API for Cisco UCS Manager, making integration with high-level managers very fast.
Remote Management	Cisco UCS Central enables you to manage various end points in the registered Cisco UCS domains from one management point. You can manage chassis, servers, fabric interconnects, and fabric extenders from Cisco UCS Central GUI or CLI. You can also access tech support files for registered UCS domains from Cisco UCS Central.

Overview of Cisco UCS Central HTML 5 UI

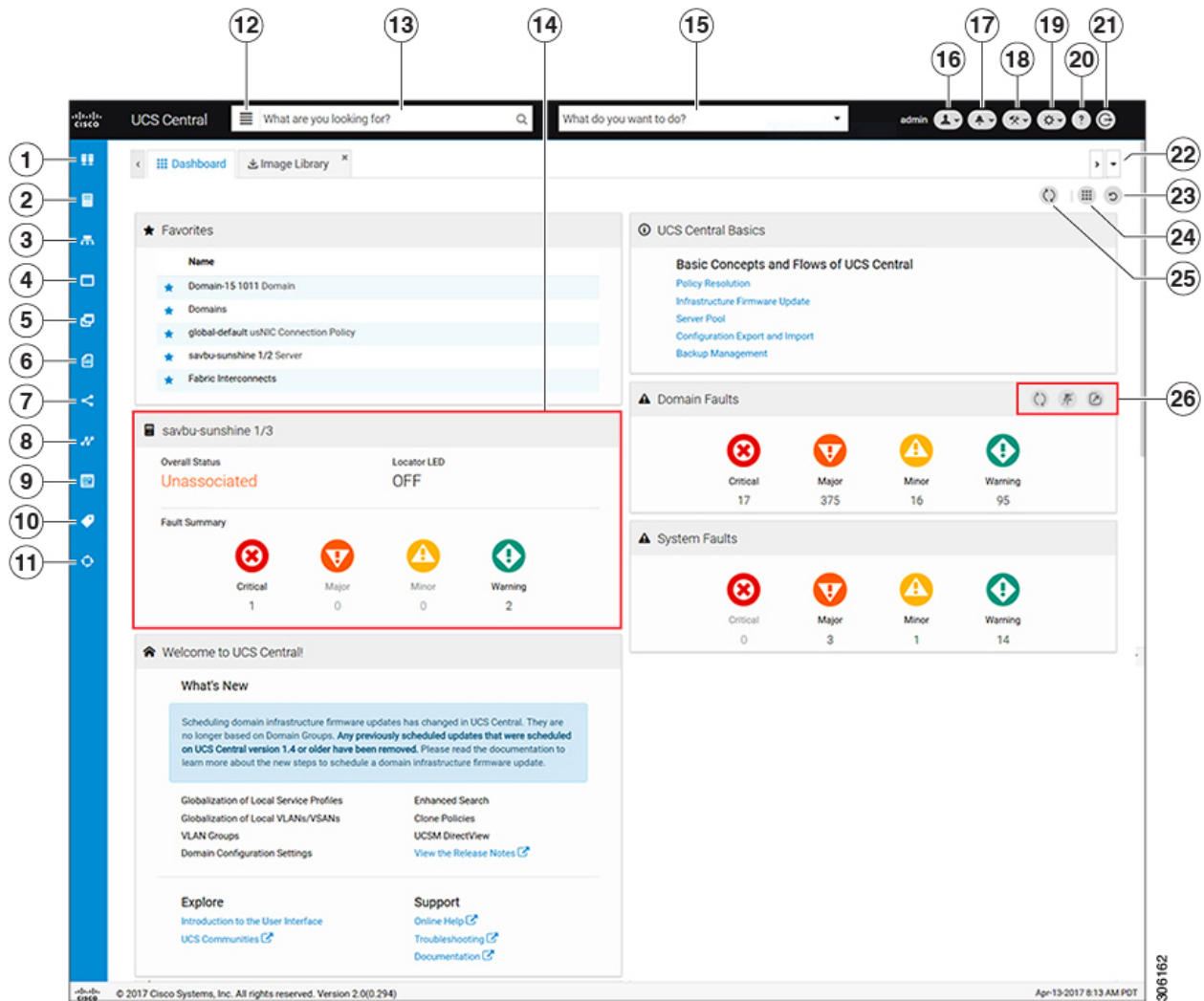
Cisco UCS Central HTML5 based user interface provides flexibility and task based usability for your management purposes.

The dashboard provides a quick overview of components in the system. You can pin the components you use frequently and customize the dashboard to suit your operational requirements. You can click on any object on the dashboard to go to the related page in the system.

Using the HTML5 UI

Dashboard

You can pin dashboard widgets and customize the dashboard based on your operational requirements. The following describes the basic dashboard structure, and the navigation icons, for performing management tasks:



Item	Description
1	Domain group navigation icon. Click to display domain group root and other domain groups in the system. You can click a domain group to launch the details page.
2	Browse Tables icon. Click to display physical and logical inventory-related entities in the system such as: Equipment, Domains, Fabric Interconnects, Servers, Chassis, FEX, Hardware Components . Click any of these entities to launch related pages and view details.
3	Organization navigation icon. Click to display org root and other sub organizations in the system. You can click the root, or any suborganization, to launch the details page for a selected organization.
4	Profiles icon. Click to display a list of Service and Chassis Profiles and their Scope, Fault Level , and the associated Org . Click to view corresponding Profile details.

Item	Description
5	Templates icon. Click to display templates available in Cisco UCS Central such as Service Profiles , Chassis Profiles , vHBAs , and vNIC templates.
6	Policies icon. Click to display all the policies available in Cisco UCS Central. Click to view details of a policy from the Policies table.
7	LAN and SAN icon. Click to view details of VLANs , VLAN Groups and VSANs .
8	Identifiers icon. Click to view details of Identifiers, Pools, and ID Universe.
9	Schedules icon. Click to view details of Schedules in the system, Schedule Type , Start Date and Frequency .
10	Tag Management icon. Click to view Tags and Tag Types . Click a Tag to view the Tag Type , Multiple Tags Per Object , Value Type , and System-Based Tag .
11	Globalization tasks icon. Click to view Globalization Tasks , Globalization Type , and the Status of the globalization operation.
12	Search Categories icon. Click to search for an item in a specific category.
13	Spotlight Search bar. Type the name of a Pool, Policy, Tag Type, VLAN, VSAN, Equipment, Template, Domain, or other objects in Cisco UCS Central. The search result displays the top 10 matches and also provides a list of potential matches to the search term.
14	Dashboard widget. You can pin any widget on this dashboard. When you mouse over on the widget, other options are enabled on the widget menu bar.
15	<p>Actions bar. What do you want to do? You can Create, Schedule, Install, Export, and Import from here:</p> <ul style="list-style-type: none"> • Click the drop-down arrow to display available actions. • Select a task, or type the task into the actions bar. • Launch the dialog box to perform the task.

Item	Description
16	<p>Profile Configuration icon. Click to launch User Profile, or Change Password. You can perform the following actions:</p> <ul style="list-style-type: none"> • In the Basic tab, set Language preference. • Restore Tabs to save the open tabs and access them directly when you back in to Cisco UCS Central. You can select one of the following options from the Restore Tabs drop-down menu: <ul style="list-style-type: none"> • Prompt to restore tabs • Automatically restore tabs • Do not restore tabs <p>The Prompt to Restore Tabs option is enabled by default when you log in to Cisco UCS Central. If you select the Auto Restore option, the selected tabs are restored automatically when you log back in to Cisco UCS Central.</p> <p>You can set User Roles from the Roles tab and set Locales from the Locales tab.</p>
17	System Alerts icon. Click to display and navigate to Pending Activities, System Faults, Domain Faults, Events, Audit Logs, Core Dumps, and Internal Services .
18	System Tools icon. Click to display and navigate to Firmware Management, Backup & Restore, Export & Import, Tech Support, Image Library, Domain Management, Hardware Compatibility Reports, Unified KVM Launcher, Active Sessions, and Start Logging Session .
19	System Configuration icon. Click to display and navigate to System Profiles, System Policies, Users, Authentication, SNMP, Smart Call Home, and Licenses .
20	Help icon. Click to access online help.
21	Log out icon. Click to log out from the active Cisco UCS Central session.
22	Tab navigator. Allows you to navigate through the open tabs, or close all tabs at once.
23	Log out icon. Click to log out from the active Cisco UCS Central session.
24	Dashboard widgets library icon. Click to view available widgets. Click the widget to pin it to the dashboard.
25	Refresh icon. Click to refresh the information in all pinned widgets or table pages.
26	Refresh, Pin, and Show Detail icons. Click to perform these actions for a widget.

Dashboard Widgets

Dashboard widgets allow you to customize the dashboard based on your operational requirements. Cisco UCS Central contains the following types of widgets:

Default Widgets

Default widgets are listed in the widgets library on the dashboard. Click the widgets library to pin the widget to the dashboard. The widgets library includes the following widgets:

- **Welcome to UCS Central!**—Displays introductory links and videos to get you started with Cisco UCS Central.
- **UCS Central Basics**— Displays basic concepts and flows for Cisco UCS Central.
- **Licenses**—Displays the total number of licenses and their status.
- **Backup & Restore**—Displays the current backup and restore status.
- **Config Export & Import**—Displays the current config export and import status.
- **Firmware Management**—Displays the total number of scheduled Firmware update jobs.
- **Inventory Status**—Displays the number of domains, FIs, servers, chassis, and FEX, as well as the overall status.
- **ID Universe**—Displays the number of IDs that are available or in conflict.
- **System Faults**—Displays the number of system faults with the top four severities.

Click the Expand icon to view the Faults Log page for all system faults. Click on a fault icon to view the system faults with the selected severity pre-selected.

- **Domain Faults**—Displays the number of domain faults with the top four severities.
Click the Expand icon to view the Faults Log page for all domain faults. Click on a fault icon to view the domain faults with the selected severity pre-selected.
- **Pending Activities**—Displays Pending activities. Some may need user acknowledgment.
- **Domains**—Displays current number of domains registered with Cisco UCS Central.

Table Summary Widgets

Table summary widgets displays the total number of items and the status for the following:

- **Domains**
- **Fabric Interconnects**
- **Servers**
- **Chassis**
- **FEX**
- **Service Profiles**

Up to two status bars can be displayed, with the top four errors displayed in each status bar.

Click the Expand icon to view the full table.

Detailed Instance Summary Widgets

Detailed instance summary widgets display the overall status and fault summary. Click the pin icon to create a widget for the following instances:

- Domain
- Domain Group
- Organization
- Fabric Interconnect
- Server
- Chassis
- FEX
- Service Profile

Click the Expand icon to view the full instance page. Click on a fault icon to view a faults window with the selected severity pre-selected.

Instance Shortcut Widgets

Shortcut widgets create a read-only link to a particular instance of a policy or template. Click the pin icon on an instance to create the widget.

Adding Table Summary Widgets to the Dashboard

Step 1 Click the **Search** icon and choose one of the following:

- **Domains**
- **Fabric Interconnects**
- **Servers**
- **Chassis**
- **FEX**
- **Service Profiles**

Step 2 On the table page that displays, click the **Pin** icon.

Step 3 Click the **Dashboard** link to view the new widget.

Adding Instance Summary Widgets to the Dashboard

Step 1 Click the **Search** icon and select one of the following:

- **Domains**

- **Fabric Interconnects**
- **Servers**
- **Chassis**
- **FEX**
- **Service Profiles**

- Step 2** Click on an instance.
- Step 3** On the instance page that displays, click the **Pin** icon.
- Step 4** Click the **Dashboard** link to view the new widget.

Tab Navigator






The tab navigator appears on all screens, and allows you to navigate quickly through the tabs that you have opened. You can also close all tabs at once.

















Using the Tab Navigator









- Step 1** On the tab bar, click the drop-down on the far right.
A list of all currently opened tabs is displayed.
- Step 2** Select the tab that you want to navigate to, or select **Close All Tabs** to close all of the tabs.
- Note** You cannot close the dashboard tab.

Common User Interface Options

The following table describes user interface options:

Icon	Label	Description
	Acknowledge	Acknowledge the changes most recently made.
	Acknowledge reboot	Grant permission for Cisco UCS Central to reboot the selected hardware.
	Add	Add the settings selected.
	Apply	Apply the settings that you configured.
	Browse Tables	Display physical and logical inventory entities in the system.

Icon	Label	Description
	Dashboard	Access to the Dashboard widgets.
	Delete	Delete selected items.
	Domain Group Navigation	Search through all of the registered domains.
	Download and Import Selected Images	Download and import selected images from the Image Library.
	Download CSV file	Download data in table as a *.csv (comma delineated) file.
	Download PDF file	Download data in table as a *.pdf (Adobe PDF) file.
	Download XLS file	Download data in table as an *.xls (Microsoft Excel) file.
	Dual Table View	Splits the table view into two views.
	Edit	Edit the item selected.
	Launch	Launch the submenu for the selected item.
	Organization Navigation	Access to organizations and their service profiles, templates, pools, policies, and permitted vLANs.
	Pin	Pin the widget to the dashboard.
	Profile Configuration	Configure user settings, such as password and preferences.
	Register Domain	Register a Cisco UCS Manager domain with Cisco UCS Central.
	Re-run report	Re-run the Hardware Compatibility List report.
	Reset	Reset service profile assigned IDs manually.

Icon	Label	Description
	Share tab	Copy a service profile's URL. When you send the link to another user, it opens to the same view. The other user does not have to search for the view.
	System Alerts	Access to system alerts menu, logs, faults, core dumps, internal services, events, and pending activities.
	System Configuration	Access to the system configuration menu when on the system level. In other views, configuration menu is contextual.
	Tag	Tag items to assign them to groups for specific functions.
	Tools	Access to the system tools menu when on the system level. In other views, tools menu is contextual.
	Unregister Domain	Unregister a Cisco UCS Manager domain from Cisco UCS Central.
	Usage Table	Opens a table to show data associated with the object.
	Favorites	Saves your most used components, tabs, and dialogs for creating or editing policies and enables quick access.

Behavior Changes in Release 2.0

Deprecation Announcements

- Cisco UCS Central no longer includes the Flex-based UI. The HTML5 UI is the only graphical interface available.
- The Statistics Management feature is deprecated and is no longer supported in Cisco UCS Central.
- After March 3, 2017, Cisco UCS Central version 1.4 or earlier will be unable to fetch the updated firmware image list from Cisco.com. If you are running Cisco UCS Central version 1.4 or earlier, you can manually download firmware images directly from Cisco.com and import them to Cisco UCS Central. To continue to have Cisco UCS Central fetch the available image data from Cisco.com and place the firmware image in the **Image Library**, Cisco recommends that you upgrade to Cisco UCS Central release 1.5 or later.

Feature Support

Behavior Changes Based on Design

- The Spotlight search bar replaces the search bar, and allows you to search for profiles, policies, pools, VLANs/VSANs, templates, domains, orgs, domain groups etc by their names, descriptions, and labels. Spotlight auto-completes the search field with suggestions as you type and displays the top 10 potential matches to the term you type.
- Icons in the Sidebar navigation menu enable direct and easy access to all objects in Cisco UCS Central. Browse tables, Organization navigation, and Domain group navigation are now part of Sidebar navigation.

- From the Organizations tree view, you can directly navigate to that org's Profiles, Templates, Pools, Policies, and Permitted VLANs. The corresponding tab in the selected org is highlighted and opened when you click these objects.
- Cisco UCS Central 2.0 prevents you from deleting critical objects such as service profiles, domain groups, organizations, and service profile templates from the Cisco UCS Central GUI and the command line. When you attempt to delete any of these items from Cisco UCS Central, an error message with the potential impact displays.
- You must create the global service profile template before you can create a service profile.
- vNIC and vHBA Placement is now referred to as Interface Placement.
- Registration Policy is now referred to as Domain Group Qualification Policy.
- ID Range Qualification Policy is now referred to as ID Range Access Control Policy.
- There are no qualified IP addresses for ID Range Access Control Policy.
- Only the configuration export (all-config) and backup (full-state) options are used in Cisco UCS Central. Other backup types such as config logical and config system are not supported.