Introducing Cisco UCS Central 1.5

This chapter includes the following sections:

Overview of Cisco UCS Central 1.5 Features

Cisco UCS Central, release 1.5 allows you to take charge of the data center environment by delivering easy to use, integrated solution for managing Cisco UCS Domains from a single management point, both in data centers and remote management locations, with high availability. With Cisco UCS Central 1.5, you can efficiently manage server, storage and network policies and generate network traffic reports for your entire data center.

This release includes full support for the HTML5-based user interface, which is now the default user interface. The previous flash-based user interface is available at http://*UCSCentral_IP*/flex.html.

> **Note** The flash-based user interface is being deprecated, and will not be supported after Cisco UCS Central release 1.5.

Release 1.5(1a) supports the following new features in the HTML 5-based user interface:

Feature	Functions
Support for 160 LDAP group maps	Allows 160 LDAP group maps to be managed from Cisco UCS Central.
vNIC/vHBA pairing	Allows you to create redundancy pairs for vNICs and vHBAs.
Traffic monitoring	Allows you to use Switched Port Analyzer (SPAN) to monitor network traffic.

Feature	Functions
UUID sync	Enables syncing of UUIDs to match operating systems on M3 and above servers.
Admin host port for PCI placement	Allows you to select an admin host port for vNICs or vHBAs attached to vCONs.
Object tagging	Allows you to create tags to organize objects, run infrastructure firmware updates, and run the hardware compatibility report.
Infrastructure firmware updates with tags	Allows you to run infrastructure firmware updates outside of domain groups.
Hardware compatibility report	Allows you to check interoperability information for Cisco UCS components and configurations.
Domain registration from Cisco UCS Central.	Allows you to register domains directly from Cisco UCS Central instead of Cisco UCS Manager.
Local service profile views	Service profiles created in Cisco UCS Manager can now be viewed in Cisco UCS Central.
Enhanced error messaging	Added additional text to clarify error messages.
UI localization	Added UI support for the following languages: • Spanish • German • Italian • Japanese • Korean • Chinese (mainland China)
Tech support enhancements	Allows you to generate a tech support file for servers, chassis, FEX, and other options.

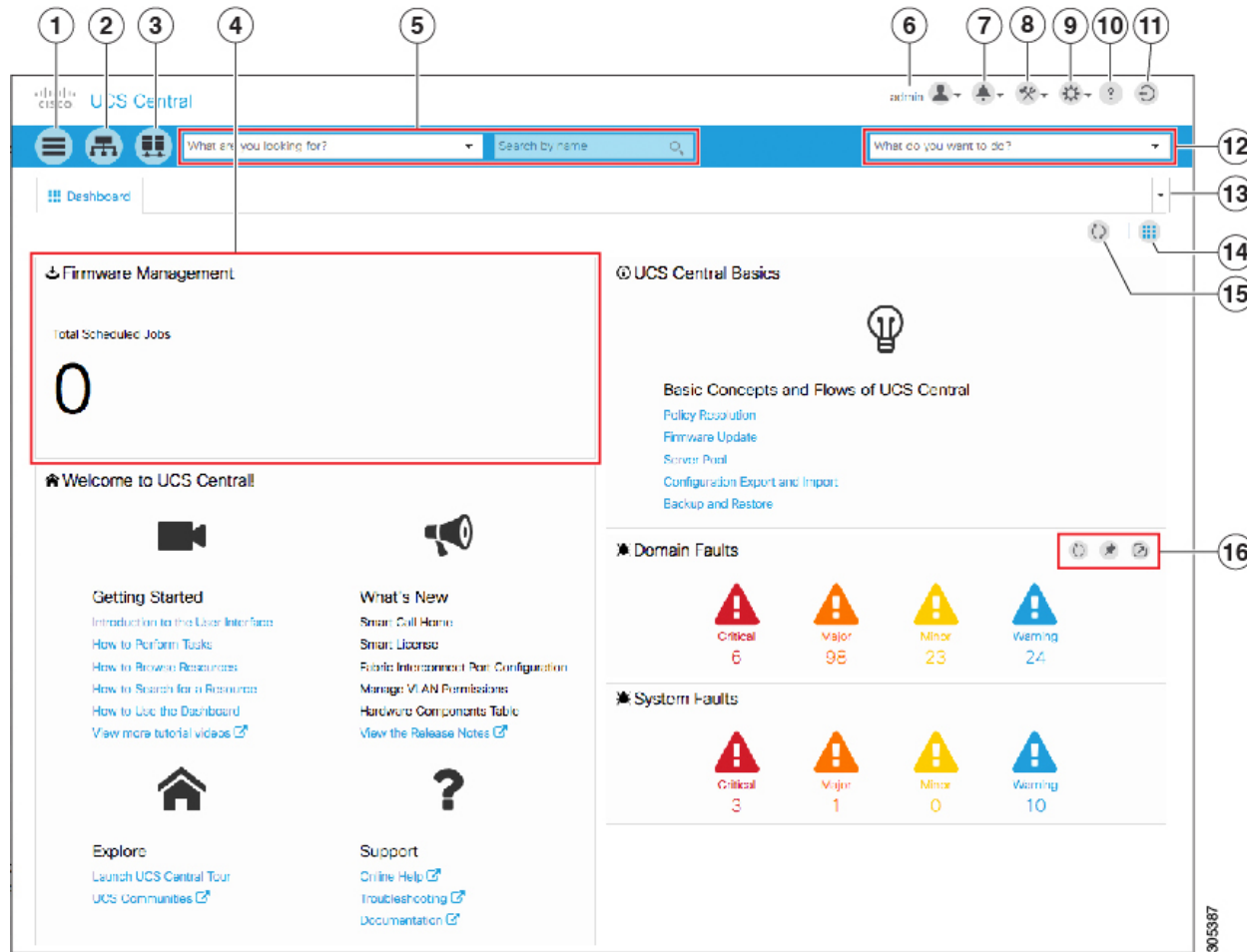# Overview of Cisco UCS Central HTML 5 UI

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	Browse Tables icon. Click to display physical and logical inventory-related entities in the system such as: **Domains**, **Fabric Interconnects**, **Servers**, **Chassis**, **FEX**, **Hardware Components**, **vLANs**, **vSANs**, **Service Profiles**, **Templates**, **Pools**, **Policies**, **Schedules**, **ID Universe**, and **Tags**. Click any of these entities to launch related pages and view details.
2	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.

Item	Description
3	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.
4	Dashboard widget. You can pin any widget on this dashboard. When you mouse over on the widget, other options are enabled on widget's menu bar.
5	Search bar. **What are you looking for?** You can do the following: • Select the entity type to search for any entity in the system by name. Empty search string returns all entities. • Filter search results by location and status when applicable. • Click an entity in the search results to open the details on a new page.
6	**Profile Configuration** icon. Click to launch **User Preferences** and **Change Password**. From here you can **Change Password**, **Restore Dashboard Defaults**, and **Show First Launch Experience**.
7	System Alerts icon. Click to display and navigate to **Pending Activities**, **System Faults**, **Domain Faults**, **Events**, **Audit Logs**, **Core Dumps**, and **Internal Services**.
8	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**.
9	System Configuration icon. Click to display and navigate to **System Profiles**, **System Policies**, **Users**, **Authentication**, **SNMP**, **Smart Call Home**, and **Licenses**.
10	Help icon. Click to access online help.
11	Log out icon. Click to log out from the active Cisco UCS Central session.
12	Actions bar. **What do you want to do?** You can Create, Schedule, Install, Export, and Import from here: • 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.
13	Tab navigator. Allows you to navigate through the open tabs, or close all tabs at once.

Item	Description
14	Dashboard widgets library icon. Click to view available widgets. Click the widget to pin it to the dashboard.
15	Refresh icon. Click to refresh the information in all pinned widgets or table pages.
16	Widget menu. From within any widget on the dashboard you can do the following: • Refresh the displayed information for this widget. • Unpin this widget from the dashboard. • Launch the details page for this operation.

Behavior Changes in Release 1.5

Deprecation Announcement for Cisco UCS M-Series Modular Servers

Cisco UCS M-Series Modular Servers have been deprecated and will not be supported in Cisco UCS Central release 1.5.

Feature Support

RDM-based shared storage for Cisco UCS Central HA configurations is no longer supported with Cisco UCS Central release 1.5.

The following features that are available in the older flash-based user interface are not supported in the HTML5 user interface at this time:

- Policy Import
- Threshold Policy
- Statistics

Note Any functionality introduced in Cisco UCS Central release 1.4(1a) and newer releases will be available in the HTML 5 user interface only.

Behavior Changes Based on Design

- 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.

Multi-version Management Support

Cisco UCS Central provides you the ability to manage multiple Cisco UCS domains with different versions of Cisco UCS Manager at the same time. Cisco UCS Central identifies feature capabilities of each Cisco UCS domain at the time of domain registration. This ability enables you to seamlessly integrate multiple versions Cisco UCS Manager with Cisco UCS Central for management and global service profile deployment.

When you upgrade your Cisco UCS Central to a newer release, based on the features you are using, you might not have to upgrade all of your Cisco UCS Manager release versions to make sure the registered UCS domains are compatible with Cisco UCS Central.

When you register a Cisco UCS domain in Cisco UCS Central, along with the inventory information Cisco UCS Central receives the following information from the domain:

- Cisco UCS Manager release version

- List of available supported features in the domain

The available features are sent as a management capability matrix to Cisco UCS Central. Based on this information Cisco UCS Central builds a list of supported features for each registered domain. Based on the feature capabilities in a Cisco UCS domain, Cisco UCS Central decides if certain global management options are possible in the domain. When you perform management tasks, such as deploying a global service profile on a group of domains that include earlier versions of Cisco UCS Manager instances, based on the feature capability matrix, Cisco UCS Central does the following:

- Delivers the task only to the supported domains.

- Displays a version incompatibility message for the domains where the feature is not supported.

Supported Features in Cisco UCS Manager

You can view supported features in a Cisco UCS domain using the Cisco UCS Central CLI. Based on the Cisco UCS Manager versions in the registered Cisco UCS domains, Cisco UCS Central CLI builds list of supported features in the following four categories:

- **Server Feature Mask**: Includes global service profiles, policy mapping and Inband management, advanced boot order

- **Network Feature Mask**: None

- **Storage Feature Mask**: FC Zoning and ISCSI IPv6

- **Environment Feature Mask**: Power group, remote operations, UCS registration, estimate impact on reconnect

Management Exclusion

Multi-version support also provides you the ability to exclude some features from global management. You can log into a registered UCS domain and turn off a specific feature from Cisco UCS Manager CLI. You can disable the following global management capabilities:

- **Global service profile deployment**: If you deploy global service profile on a server pool, and you have disabled global service profile deployment in one of the servers in the pool, Cisco UCS Central excludes the server from the global service profile deployment.

- **In band management**: A service profile with inband management capability will not be deployed on the servers where you have excluded inband management feature.

- **Policy mapping**: This will disable importing policies or policy components from this Cisco UCS domain into Cisco UCS Central.

- **Remote management**: This will restrain controlling physical devices in a Cisco UCS domain from Cisco UCS Central.

You can enable these features any time using the Cisco UCS Manager CLI to restore global management capabilities in the registered Cisco UCS domains at anytime.

Feature Support Matrix

The following table provides a list of features in Cisco UCS Central, and Cisco UCS Manager release versions in which these features are supported:

Note Some features are built in Cisco UCS Central to be compatible with upcoming Cisco UCS Manager releases.

Feature Support for Release 1.5

Cisco UCS Central Features	Supported Cisco UCS Central Versions	Supported Cisco UCS Manager Versions			
		2.1	**2.2**	**3.0**	**3.1**
vNIC/vHBA pairing	1.5(1a)	No	2.2(7) and later	No	No
Traffic monitoring	1.5(1a)	No	2.2(7) and later	No	3.1(1) and later
UUID sync	1.5(1a)	No	2.2(7) and later	No	No
Admin host port for PCI placement	1.5(1a)	No	2.2(7) and later	No	No
Support for 160 LDAP group maps	1.5(1a)	No	2.2(8) and later	No	No

Feature Support for Release 1.4

Cisco UCS Central Features	Supported Cisco UCS Central Versions	Supported Cisco UCS Manager Versions				
		2.1	2.2	2.5	3.0	3.1
Port Configuration	1.4(1a)	No	2.2(7) and later	No	No	3.1(1) and later
Advanced Local Storage Configuration	1.4(1a)	No	2.2(7) and later	2.5(1) and later	No	3.1(1) and later
Multiple LUNs in Boot Policy	1.4(1a)	No	2.2(7) and later	2.5(1) and later	No	3.1(1) and later
Consistent Device Naming	1.4(1a)	No	2.2(4) and later	2.5(1) and later	3.0(1) and later	3.1(1) and later
Direct-Attached Storage/FC Zoning	1.4(1a)	No	2.2(7) and later	No	No	3.1(1) and later
Advanced Host Firmware Pack	1.4(1a)	No	2.2(6) and later	No	No	3.1(1) and later
usNIC Connection Policy	1.4(1a)	No	2.2(6) and later	No	No	3.1(1) and later
VMQ Connection Policy	1.4(1a)	No	2.2(6) and later	No	No	3.1(1) and later
Equipment Policies	1.4(1a)	No	2.2(7) and later	No	No	3.1(1) and later
Maintenance Policy on Next Reboot	1.4(1a)	No	2.2(8) and later	No	No	3.1(1) and later

Feature Support for Release 1.3 and earlier

Cisco UCS Central Features	Supported Cisco UCS Central Versions	Supported Cisco UCS Manager Versions				
		2.1	**2.2**	**2.5**	**3.0**	**3.1**
Multi-version management support and viewing supported Cisco UCS Manager features	1.1(2a)	No	2.2(1b) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
Importing policy/policy component and resources		No	2.2(1b) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
Specifying remote location for backup image files		No	2.2(2b) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
3rd party certificate		No	2.2(2c) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
IPv6 inband management support		No	2.2(2c) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
Estimate Impact on Reconnect	1.2(1a)	No	2.2(3a) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
Precision Boot Order Control		No	2.2(1b) and later	2.5(1a) and later	3.0(1c) and later	3.1(1a) and later
Scriptable vMedia	1.2(1e) and later	No	2.2(2c) and later	2.5(1a) and later	3.0(2c) and later	3.1(1a) and later

Note
- Searching for policy/policy components or resources is supported in Cisco UCS Manager, releases 2.1(2x) and 2.1(3x). To import policies, you must have Cisco UCS Manager, releases 2.2(1b) or higher.

- For precision boot order control, the blade server must have CIMC version 2.2(1b) or above.