Understanding UCS-SCU User Interface

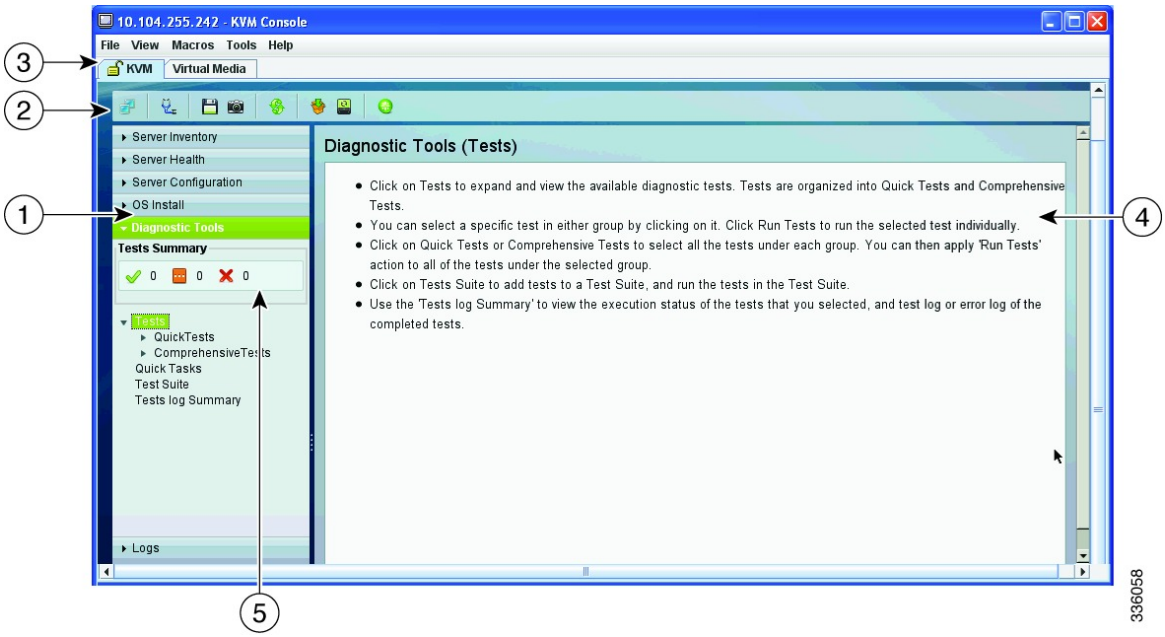
This chapter includes the following sections:

License Agreement

After UCS-SCU boots up, the first interface is the End User License Agreement. Select **I Accept** and click **Next** to agree to this license.

Overview of the UCS-SCU Graphical User Interface

Figure 1: UCS-SCU GUI



This table describes the callouts in the figure.

1	Navigation Pane
2	Toolbar
3	Tabs
4	Content Pane
5	Tests Summary Pane

This table shows the description of each element.

Table 1: UCS-SCU GUI Elements

Navigation Pane	Displays on the left side in the UCS-SCU user interface. See Table 2 for a description of all the navigation pane elements.
Toolbar	Displays on the left-hand top corner and has a set of icons. See Table 3 for a description of all the toolbar icons.

Tabs	Provides the following options in the UCS-SCU: • KVM—Use this tab to enter KVM Console. • Virtual Media—Use this tab to access the virtual media.
Help	Opens a window in the application that displays context-sensitive help for the displayed page.
Content Pane	Displays on the right side of the GUI. Different pages appear on the content pane depending on the tab that you select in the Navigation Pane.
Tests Summary Pane	Provides details of tests passed, tests in the queue, and tests failed. Viewed only when Diagnostic Tools is selected.

This table describes the elements in the Navigation Pane.

Table 2: Navigation Pane

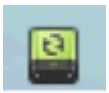
Server Inventory	Displays the server information and inventory. Contains links to the following pages: • Server Information • Inventory For more information about Server Inventory, go to About Server Inventory.
Server Health	Displays the health of the subsystems on your server such as CPUs, memory, power supplies, fans, storage, PCI devices, BIOS, and CIMC. For more information about Server Health, go to About Server Health.
Server Configuration	Sets the BIOS boot order and configures a RAID volume on attached hard drives of your server. Contains links to the following pages: • Boot Order Configuration • RAID Configuration For more information about Server Configuration, go to About Configuring Boot Order and RAID Levels.

OS Install	Installs the RHEL, SLES, and Windows operating systems in a fully unattended mode. The most recent drivers for all onboard components are added from the Tools and Drivers CD or from other supported locations during the operating system installation. For more information about OS Install, go to About Operating System Installation.
Diagnostic Tools	Allows you to run various types of diagnostic tests to detect server failure. For more information about Diagnostic Tools, go to About Diagnostic Tools.
Logs	Displays the System Log and System Event Log of your server. Contains links to the following pages: • System Logs • System Event Log For more information about Logs, go to About Viewing Logs.

This table lists and describes all the UCS-SCU icons that you can use to perform specific tasks.

Table 3: Toolbar Pane

Toolbar Icon	Name	Function
	Network Configuration	Configures the IP address, DNS and Subnet mask, and Cisco.com credentials.
	Probe Server	Performs health check
	Save Logs	Saves logs to an USB
	Server Snapshot	Allows you to take a point-in-time inventory of the server.
	Refresh	Refreshes the content area, if supported.

Toolbar Icon	Name	Function
	Update	Allows you to download the most recent versions of UCS-SCU, OS drivers, and Host Upgrade Utility.
	Hypervisor Sync	Allows you to synchronize the Hypervisor data across 2 members of the RAID 1 virtual disk, when one member slot of the SD card is corrupt. This feature is available only when both slots of the Cisco FlexFlash SD card are populated.
	Reboot	Restarts the server.

Configuring a Network

Network configuration in the UCS-SCU allows you to configure the network by providing IP details, proxy details, cisco credential details and so on. It is a one-time process, and if you do not configure your network, you will be prompted to configure it during the following procedures:

- When you are updating images to Cisco Flexible Flash. (See theUpdating Images to Cisco Flexible Flash, on page 8 section).
- When you are downloading drivers from the network share or cisco.com during the operating system installation. (See the Installation Drivers section).

To configure a network, follow these steps:

Procedure

Step 1 Click the **Network Configuration** button on the toolbar.
The Network Configuration dialog box appears.

Step 2 In the Network Configuration dialog box, do the following:

a) Select IP Address from DHCP server or Static IP Address. If you select Static IP Address, do the following:

- In the IP Address field, enter the IPv4 address.
- In the Subnet Mask field, enter the subnet IPv4 address.
- In the Gateway field, enter the gateway IPv4 address.
- (Optional) In the DNS field, enter the DNS IPv4 address.

Note Go to Step b. if you want to download software and drivers from cisco.com.

b) Select Direct Connection to internet or Manual Proxy. If you select Manual Proxy, do the following:

- In the HTTP Proxy Server URL field, enter the URL of the proxy server. The maximum limit is 45 characters.
- In the Port field, enter the port number. The maximum limit is 5 characters. By default, it is 8080.
- In the Proxy Server UserName field, enter the user name of the proxy server. The maximum limit is 45 characters.
- In the Proxy Server Password field, enter the password of the proxy server. The maximum limit is 45 characters.

Step 3 Click **Configure** to save the settings.

Performing Server Health Check

The Probe Server functionality allows to perform a health check of the server subsystems. When you click the Probe Server icon, the server health check is initiated.

To view the health check results, click the **Server Health** tab in the navigation pane.

Saving Logs

You can use the Save Logs functionality to save your log files. Before using Save Logs, you must insert a USB flash drive or vMedia for storing the log files.

Using Server Snapshot

You can use the Server Snapshot feature in the UCS SCU user interface to take a point-in-time inventory of a server. This feature allows you to compare inventories or components of a server over certain periods of time. Before you initiate a server snapshot, be sure that you connect a USB flash drive into the server. Without a flash drive available, the log file created by the server snapshot is not saved.

When you initiate a server snapshot, UCS SCU retrieves information on the server components, and also runs a series of quick tests to determine the state of the server. Taking a server snapshot can take approximately 20 minutes. After the server snapshot process is complete, the log file is saved on to the USB flash drive that you specified. You can open this log file in any editor, for example, WordPad. To help compare server inventories across time periods, we recommend that you store these log files in a location and archive it. When you have multiple log files, you can use a comparison tool from the Internet to view differences in the server inventory.

To take a server snapshot, follow these steps:

Procedure

Step 1 Connect a USB flash drive to the server or through vMedia.
Without this flash drive, you cannot save the server snapshot log file. Be sure that there is adequate space on the flash drive to save the log file.

Step 2 Click the **Server Snapshot** icon in the UCS SCU interface.
A dialog box is displayed that prompts you to insert the USB flash drive.

Step 3 Click **Yes** to continue.
A dialog box prompts you to select the USB flash drive in which you would like to save the log file.

Step 4 Choose the USB flash drive from the drop-down menu and click **Save.**
The Server Snapshot process is initiated. This process could last up to 20 to 30 minutes. A dialog box indicating the progress of the server snapshot process appears. During this process, you cannot perform any other tasks on the server. At any moment during the process, you can cancel the server snapshot process by clicking **Cancel** in the dialog box.

Note During the server snapshot process, if the KVM connection is terminated, it does not terminate the server snapshot process. When you log in again to KVM Console, you will notice that the server snapshot process is still running or has completed. However, if the USB flash drive is connected through vMedia and the KVM connection is terminated, then the server snapshot process is halted as the connection to the USB flash drive is lost.

After the snapshot process is complete, a dialog box message appears to indicate that the server snapshot process is complete

Step 5 Click **OK.**
The log file is saved on the USB flash drive. The log file is a text file and is saved with the server name, and includes the date when the server snapshot was taken. For example:
Server_C260-BASE-2646_FCH1234345_06_08_2011 is the log file name of a server snapshot taken for UCS C-260 server on August 6th, 2001.

Step 6 Open this log file with any editor.

Note To compare inventory information of the same server over a period of time, we recommend that you archive these log files so that they are always available for comparison

While running quick tests on the server, the server snapshot feature can determine only if a server component passed or failed a test. It cannot determine the reasons for a component not passing the quick test. While viewing the log file of the server snapshot process, if you notice that a server component did not pass the quick test, then check the quick test logs available under the Diagnostics Tools.

Note To know more about Diagnostic Tools, go to the Chapter 7, Understanding Diagnostic Tools.

The log file of the server snapshot process includes the following information:

- Chassis Summary
- BaseBoard Summary

- CIMC Summary
- Processor Summary
- Memory Summary
- Storage Summary
- PCI Adapter Summary
- Power Supply Summary
- Server diagnostics Quick Test Results
- Server Probe Data

Updating Images to Cisco Flexible Flash

You can use the UCS-SCU GUI to download the most recent versions of UCS-SCU, operating system drivers and Host Upgrade Utility (HUU). These images can be flashed to the SD card on your system on the respective partitions.

To update the images to Cisco Flexible Flash using the UCS-SCU GUI, follow these steps:

Procedure

Step 1 Click the **Update** icon in the toolbar.
The Cisco Flex Flash Software Update dialog box appears displaying a list of partitions.

Step 2 Select **Cisco Server Configuration Utility** in the list.
You can update the image to the SD card using one of the following options to update the image:

- Updating from cisco.com, on page 8
- Updating from Network, on page 9

Step 3 Click **Apply** to apply the image.
The Cisco Flex Flash Software Update dialog box appears and the table is refreshed with the version of the image.

Step 4 Repeat Step 1 to Step 4 for the remaining partitions.

Updating from cisco.com

To update the images to the Cisco Flexible Flash from cisco.com, follow these steps:

Procedure

Step 1 Click **Cisco.com.**

If the network or user credentials are not configured, the Network Configuration dialog box appears. If they are configured, the Select Updates dialog box appears. If you need to configure the network, go to Step 2. If you do not need to configure the network, go to Step 3.

Step 2 In the Network Configuration dialog box, do the following:

a) Enter the IP addresses to configure the network. For more information about configuring the network, go to the "Configuring a Network" section on page 3-5.
b) In the User Name field, enter the cisco.com username. The maximum limit is 45 characters.
c) In the Password field, enter the cisco.com password. The maximum limit is 45 characters.

Step 3 In the Select Updates dialog box that is displayed, select the required version of the ISO image.

Step 4 Click **OK**.

Updating from Network

To update the image from your network to the Cisco Flexible Flash, follow these steps:

Procedure

Step 1 Click **From Network**.
If the network or user credentials are not configured, the Network Configuration dialog box appears. If they are configured, the Network Location dialog box appears. If you need to configure the network, go to Step 2. If you do not need to configure the network, go to Step 3.

Step 2 In the Network Configuration dialog box, enter the IP addresses to configure the network. For more information about configuring network, go to "Configuring a Network" section on page 3-5.

Step 3 In the Network Location dialog box that is displayed, do the following:

a) In the User Name field, enter the login name to the network location.
b) In the Password field, enter the password to the network location.
c) In the Network Location field, enter the path name of the folder that contains the ISO image files.
d) Click **Connect**.
A file dialog box is displayed listing the images.
e) Select an .iso image file.
f) Click **Open.**

The selected file appears as a package name in the Network Location dialog box.

Step 4 Click **Ok.**

Synchronizing the Hypervisor Partition

On servers that support the Cisco FlexFlash SD card, UCS-SCU provides an option to synchronize the Hypervisor virtual disk, on the SD card, configured as a RAID-1 disk. This feature is available only when

both slots of the Cisco FlexFlash SD card are populated. UCS-SCU detects the presence and absence of SD cards on the server.

When one member slot of the SD card is corrupt, use this option to synchronize the Hypervisor data across 2 members of the RAID-1 virtual disk. You can initiate this synchronization only if 2 cards are detected and RAID-1 is determined as unhealthy (one member is corrupt).

Procedure

Step 1 Click the **Hypervisor Sync** icon on the toolbar of UCS-SCU interface.
A dialog box prompts you to confirm that you want to synchronize the hypervisor RAID.

Step 2 Click **Yes**.
When the synchronization is complete, a dialog box indicating the completion of the synchronization is displayed.

Step 3 Click **OK**.
After you click **OK**, the **Hypervisor Sync** icon on the toolbar is greyed out.

Restarting the Server

To restart the server, follow these steps:

Procedure

Step 1 Click the **Reboot** icon on the toolbar.
The Reboot dialog box appears.

Step 2 Click **Yes** to restart.
The server restarts, and the UCS-SCU GUI reappears.