StadiumVision

Cisco StadiumVision
Getting Started with the Management Dashboard

All Releases

November 2015

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Table of Contents

Preface

This guide provides an overview of the Cisco StadiumVision Director Management Dashboard and how to use it to manage and configure settings for your Cisco StadiumVision deployment.

> **NOTE:** This document includes illustrations for Cisco StadiumVision Director Release 2.3, but the content is also applicable to later releases of the Cisco StadiumVision Director software with some differences in the user interface for those releases.

Document Audience

The intended audience is Cisco StadiumVision system administrators and Cisco Technical Field Engineers who are responsible for designing and deploying Cisco StadiumVision. It is expected that readers of this document are familiar with basic IP networking technology, have a general understanding of the sports and entertainment business, and understand the objectives and operations of live events.

Document History

Table 1. Revision History

Date	Description
11/09/2015	Updates for Cisco StadiumVision Director Release 4.0 and introduction of the SV-4K media player.
10/29/2013	Minor revisions for support of later releases.
5/5/2011	First release for Cisco StadiumVision Director Release 2.3.

Management Dashboard Overview

The Cisco StadiumVision Director Management Dashboard application provides an interface for managing and monitoring the services and status of the DMPs, TVs, the Cisco StadiumVision Director Server, and DMP-to-switch connections for your Cisco StadiumVision deployment. Using the Dashboard, you can view status, configure settings, and send commands to devices to keep your Cisco StadiumVision network up and running smoothly. Alert icons provide at-a-glance device status to help you quickly identify issues that need your attention. You can mouse over an alert icon to see a tool tip with suggestions for how to resolve the issue. Additionally, detailed status for devices and monitored services is easily accessible from the Dashboard interface to help you pinpoint and troubleshoot issues occurring on the network.

Dashboard Terms

This section lists common terms you will need to familiarize yourself when managing devices with the Dashboard.

Dashboard Drawer

A “drawer” in the Dashboard refers to the categories in the left window pane of the Dashboard. As shown in Figure 1, there are five dashboard drawers that provide access to a collection of related commands and operations for monitoring and managing communications among Cisco StadiumVision components. Click on a drawer to expand the tree and access folders of related status and commands. You can view all devices in Cisco StadiumVision or view devices by zones and groups, luxury suites, and their auto registration status. Information about the devices displays in the Main window.

Figure 1. Dashboard Drawers

Commands

The Dashboard drawers contain commands that can be sent by Cisco StadiumVision Director to perform actions and display settings for devices in Cisco StadiumVision. There are three categories of commands that are sent by Cisco StadiumVision Director: Switch commands, DMP commands, and TV commands. Refer to Table 2.

Table 2. Dashboard Command Categories

Command Category	Description
Switch Commands	Switch commands are IOS commands that perform actions and display information for the Cisco StadiumVision switch. For example, to toggle PoE on a switch port, you can send the **Power Cycle DMP** command to instruct Cisco StadiumVision Director to send the command to the switch. The switch will send a command back that reboots the PoE to the switch port connected to the DMP.
DMP Commands	DMP commands perform actions and display information for DMPs. For example, to restart Flash on a Cisco DMP 4310G, you can send the **Restart Flash** command. This will instruct Cisco StadiumVision Director to send an HTTP command to the DMP and tell it to restart.
TV Commands	TV commands perform actions and display information about TVs. For example, to turn a TV on or off, you can send the **TV On** or **TV Off** command. Cisco StadiumVision Director will send the command to the DMP and the DMP will in turn send an RS-232 command across the RS-232 connection to tell the TV to turn on or off.

Beginning in Cisco StadiumVision Director Release 4.0, some Management Dashboard commands have been renamed and/or apply only to the Cisco DMP 4310G. For a summary of changes to the Management Dashboard commands, see the *Cisco StadiumVision Release Notes for Release 4.0*.

For information about commands supported on the SV-4K media player, see the “Management Dashboard Commands for the SV-4K Media Player” topic in the *Cisco StadiumVision SV-4K Media Player Deployment Guide* or the *Cisco StadiumVision Director Operations Guide*.

Figure 2 and Figure 3 show the interaction between the Cisco StadiumVision components when switch commands, DMP commands, and TV commands are sent by Cisco StadiumVision Director to the Cisco DMP 4310G.

Figure 2. Cisco DMP 4310G Endpoint Control with Cisco StadiumVision Director Commands

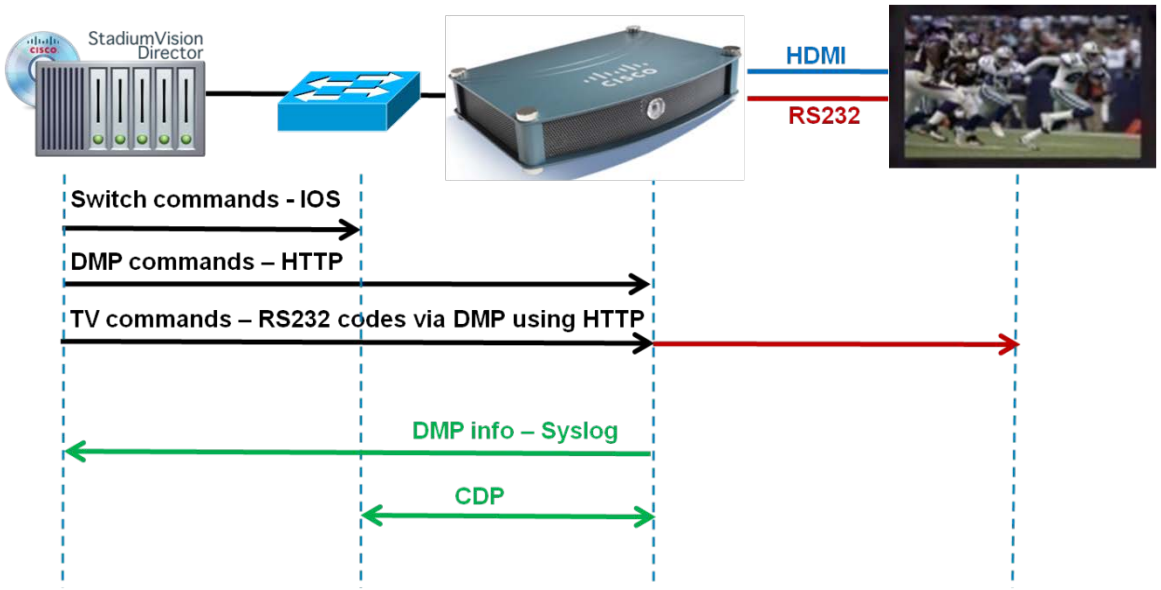
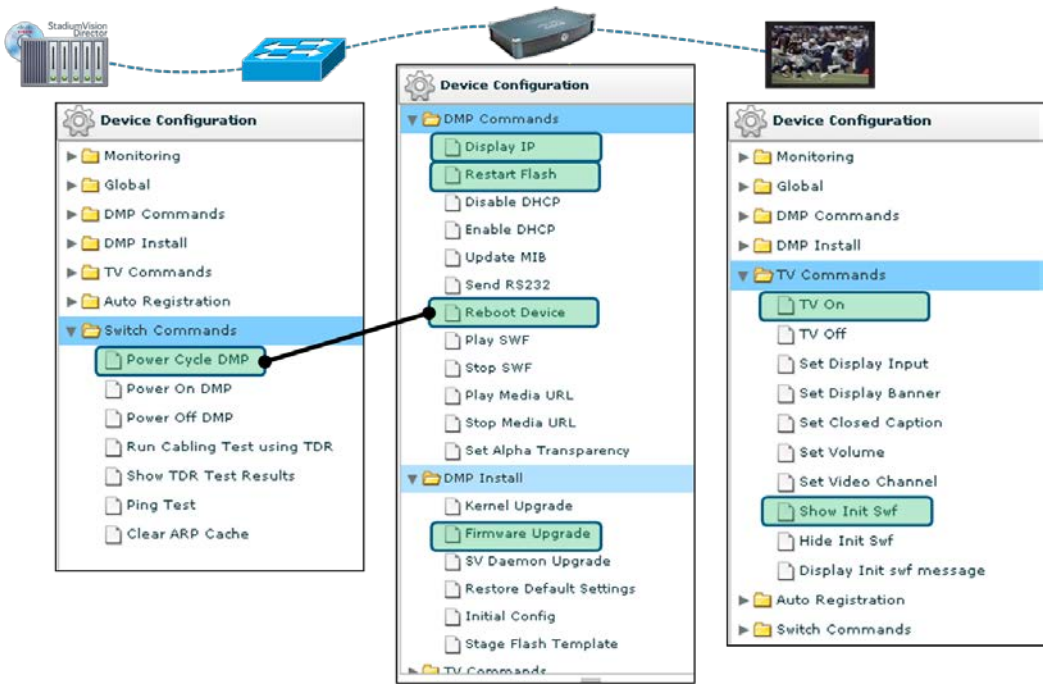


Figure 3. Switch, DMP, and TV Control Commands



Beginning in Cisco StadiumVision Director Release 4.0, some Management Dashboard commands have been renamed and/or apply only to the Cisco DMP 4310G. For a summary of changes to the Management Dashboard commands, see the *Cisco StadiumVision Release Notes for Release 4.0*.

Table 3 lists some of the most common Dashboard commands you will use to control the switch, DMP, and TV.

Table 3. Commonly Used Dashboard commands

Command Category	Description
Reboot Device **Power Cycle DMP**	Use these commands to restart the DMP on a regular basis. You can either send the Reboot Device command (if you still have communication to the DMP) or give the DMP a hard reboot by sending the Power Cycle DMP command.
Display IP	This command displays the DMP's IP address on the TV screen.
Restart Flash	(*Cisco DMP 4310G only*) This command restarts the Adobe Flash Player on the selected DMP(s). This is always a good thing to try if there is problem with a DMP.
Firmware Upgrade	(*Cisco DMP 4310G only*) Use this command to upgrade the firmware on the DMP.
Show Init SWF	This command shows you everything about the device including the IP address, the switch port, and location.  Beginning in Cisco StadiumVision Director Release 4.0, this command is renamed to **Show Diagnostics** and applies to all media players.

Flash (Cisco DMP 4310G Only)

The DMP utilizes the Adobe Flash Player or simply "Flash" software to deliver HD graphics and video. If the Adobe Flash player stops working, the DMP stops working.

MIB Variables (Cisco DMP 4310G Only)

Cisco StadiumVision Director communicates with the DMP through "MIB" variables. Not to be confused with SNMP MIB variables, DMP MIB variables are basically a schema where each variable has a name. They function more like registry settings on a PC.

In Cisco StadiumVision Director, a MIB is a persistent area of the onboard Flash RAM memory where both initial and static parameters of the DMP processes are stored. MIB data can be accessed using the Dashboard as well as the Digital Media Manager (DMM) interface for the DMP. The DMP accepts commands over SSH. By default, the DMP will accept a SSH session with the user "sysmng" to manage the system.

This guide also includes details about how to configure MIB variables via SSH and HTTPS.

Registry

The Management Dashboard Registry is a catch-all configuration value container, similar in concept (but not in structure or implementation) to the Windows Registry.

It contains key-value pairs which contain important system wide configuration values.

Staging

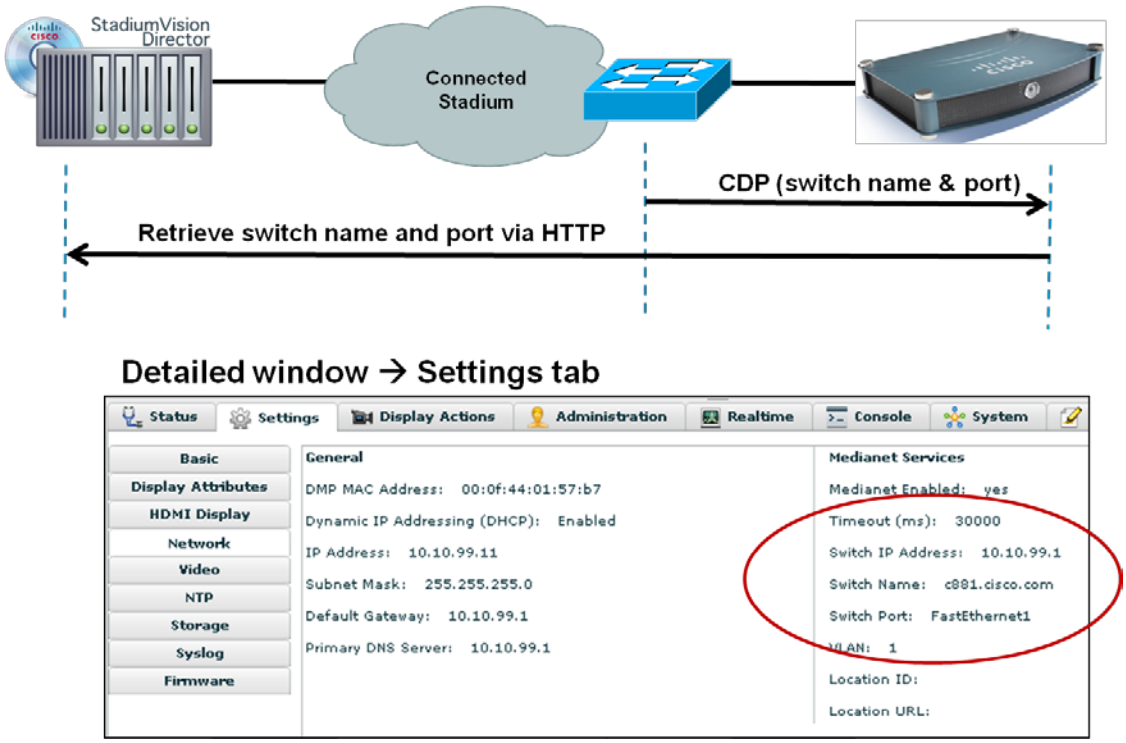
Staging, pre-positioning and pushing content all refer to the act of uploading content that is active for a given event script to all the DMPs. Staging a template refers to uploading the screen template and all the customizations, for example, the configuration of regions, the channel guide, the initial configuration, and the RS-232 commands.

Cisco Discovery Protocol (CDP) (Cisco DMP 4310G only)

CDP is used by the Cisco DMP 4310G only. Beginning in Cisco StadiumVision Director Release 4.0, the SV-4K media player uses LLDP for switch communication.

Cisco StadiumVision Director uses Cisco Discovery Protocol (CDP) to discover the switch and switch port to which a DMP is connected. By default, the switch will advertise CDP messages to the DMP once a minute. The DMP picks up that information which is then retrieved by Cisco StadiumVision Director. The Medianet Services panel in the Dashboard Device Details window displays the switch IP address, switch name, and switch port to which the DMP is connected. Refer to Figure 4. This is helpful to know if you need to escalate an issue with Cisco technical support.

Figure 4. Discovering the DMP Switch Name and Port



Accessing the Management Dashboard

Cisco StadiumVision Director provides multiple levels of user access to the Management Dashboard and the Control Panel based on Role Based Access Control (RBAC). For more information about RBAC, see the “Understanding User Roles in Cisco StadiumVision Director” topic of the Operation Basics section of *Cisco StadiumVision Director Operations Guide* or the “Account Management” section of the *Cisco StadiumVision Director Server Administration Guide*.

This guide assumes that you have Administrator access which allows you to access all screens in the Management Dashboard and Control Panel.

Table 4 lists the Dashboard commands that are accessible by the Administrator, Support, and Help Desk roles.

Table 4. Role Based Access for the Management Dashboard

Command Category	Command	Administrator	Support	Help Desk
Monitoring	Get Status	Yes	Yes	Yes
Monitoring	Ping	Yes	Yes	Yes
Global	Global DMP Settings	Yes	No	No
DMP Commands	Display IP	Yes	Yes	Yes
DMP Commands	Restart Flash	Yes	No	No
DMP Commands	Disable DHCP	Yes	No	No
DMP Commands	Enable DHCP	Yes	No	No
DMP Commands	Update MIB	Yes	No	No
DMP Commands	Send RS232	Yes	No	No
DMP Commands	Play SWF	Yes	No	No
DMP Commands	Stop SWF	Yes	No	No
DMP Commands	Play Media URL	Yes	No	No
DMP Commands	Stop Media URL	Yes	No	No
DMP Commands	Set Alpha Transparency	Yes	No	No
DMP Commands	Reboot Device	Yes	No	No
DMP Install	Kernel Upgrade	Yes	No	No
DMP Install	Firmware Upgrade	Yes	No	No
DMP Install	SVD Upgrade	Yes	No	No
DMP Install	Restore Default Settings	Yes	No	No
DMP Install	Initial Config	Yes	No	No
TV Commands	TV On	Yes	Yes	No
TV Commands	TV Off	Yes	Yes	No
Command Category	**Command**	**Administrator**	**Support**	**Help Desk**
TV Commands	Set Display Input	Yes	Yes	No
TV Commands	Set Display Banner	Yes	Yes	No
TV Commands	Set Closed Caption	Yes	Yes	No

TV Commands	Set Volume	Yes	Yes	No
TV Commands	Set Video Channel	Yes	Yes	No
Miscellaneous	Query Syslog	Yes	Yes	No
Switch Commands	Power Cycle DMP	Yes	No	No
Switch Commands	Run Cabling Test Using TDR	Yes	Yes	No
Switch Commands	Show Cabling Test Results	Yes	Yes	No
Switch Commands	Ping Test	Yes	Yes	Yes

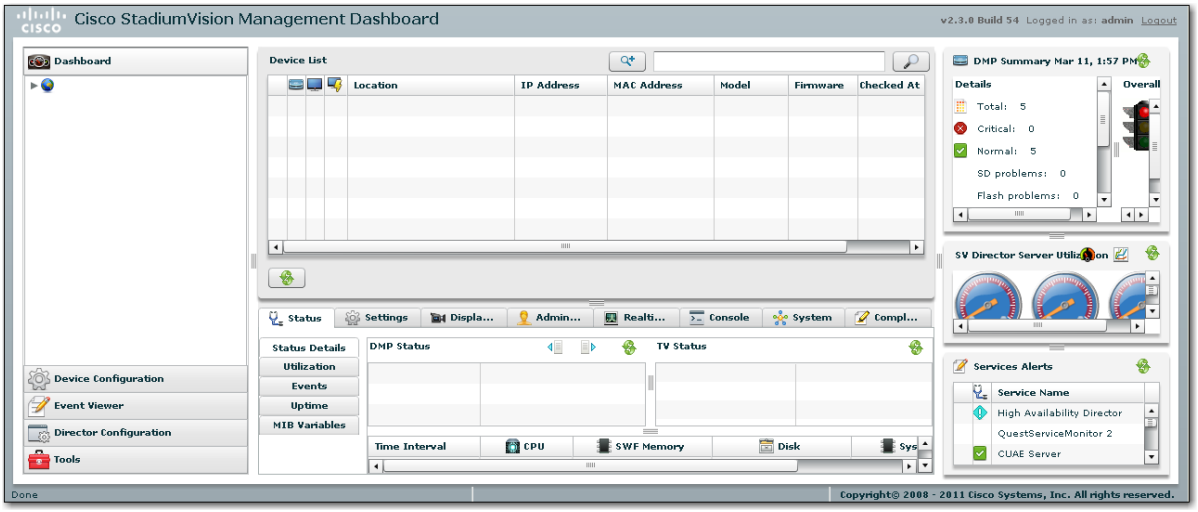
Logging Into the Management Dashboard

1. Log into Cisco StadiumVision Director as the Administrator.

   For more information, see the How to Access Cisco StadiumVision Director task note.

2. Click **Management Dashboard**.
3. Wait a few moments while Cisco StadiumVision Director loads resources. When complete, the Management Dashboard screen displays in a separate window. Note that the Device List is not yet populated. Refer to Figure 5.

Figure 5. Initial Management Dashboard Screen



Logging Out of the Management Dashboard

Click **Logout** at the top right corner of the Dashboard to log out of the Dashboard and return to the main Cisco StadiumVision Director log in screen. A confirmation message displays when you have been successfully logged out.

Close the Cisco StadiumVision Director window to remove this instance of the software.

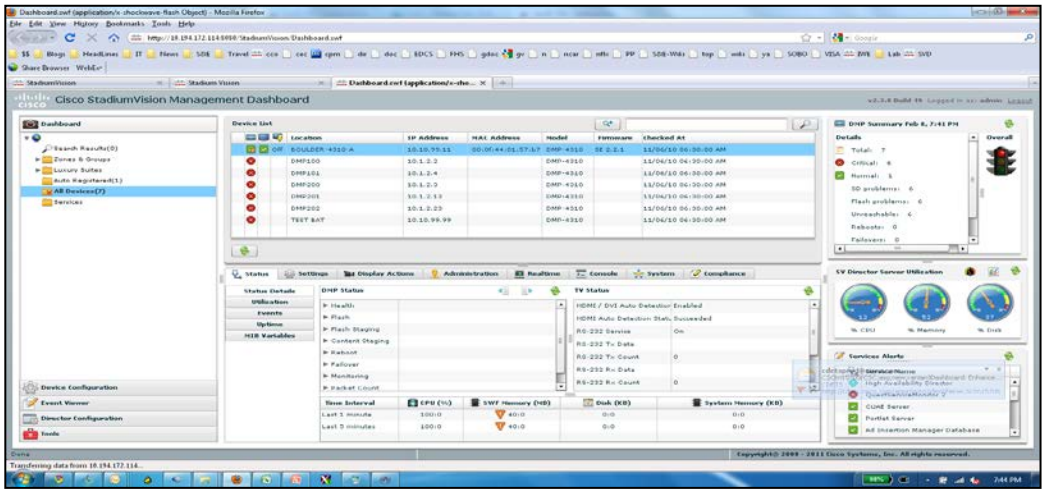
Viewing Devices in the Device List

When you first log in to the Management Dashboard, the device list is not populated. To view the devices being managed by the Dashboard:

1. In the Dashboard drawer, click the arrow in front of the globe icon to expand the tree.

2. Expand the Dashboard folders to view information about the devices for the selected category. The information displays in the Device List at the center of the screen. Refer to Figure 6.

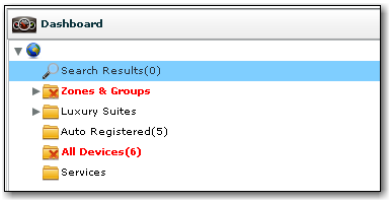
Figure 6. Cisco StadiumVision Director Management Dashboard



Viewing Devices by Category

The **Dashboard** drawer displays the DMPs that have been added to the database (via the Control Panel or Bulk Configuration tool) categorized by zones, groups and luxury suites to which the DMPs are assigned. You can view the DMPs according to their zone, group, or luxury suite assignments, or you can view all DMPs by selecting the All Devices category. Additionally, you can display the status of the services and servers the Dashboard is monitoring by selecting the Services category.

Items in the Dashboard drawer are red if at least one DMP in that group, zone or luxury suite is in RED state. The number within the parenthesis ( ) indicates the total number of DMPs present in that zone, group or luxury suite, and the number of DMPs that have auto registered in Cisco StadiumVision Director.

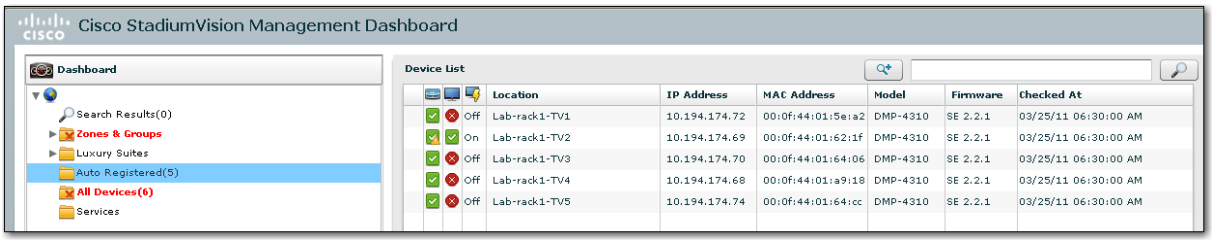


Folder	Description
Zones & Groups	Displays a listing of all the zones and groups that are managed by Cisco StadiumVision Director.
Luxury Suites	Displays a listing of all the luxury suites in the venue that are managed by Cisco StadiumVision Director.
Auto Registered	Displays a listing of all devices that have auto registered in Cisco StadiumVision.
All Devices	Displays a listing of all devices in the Cisco StadiumVision network.
Services	Displays the Monitored Services screen which shows all operational data in one console to make it easy to monitor the health of Cisco StadiumVision. If there are problems with the server or process, the Monitored Services tabs at the bottom of the screen help you identify the issue and provide suggestions for how to resolve it.

Viewing Auto-Registered Devices

Select Auto Registered in the Dashboard drawer to list all devices that have auto-registered in Cisco StadiumVision. Figure 7 shows an example of DMPs that have successfully registered with Cisco StadiumVision Director.

Figure 7. Auto-Registered DMPs in the Dashboard



For more details about auto-registration on the Cisco DMP 4310G, see the *Cisco StadiumVision Video Endpoint (DMP) Design and Implementation Guide* at http://www.cisco.com/en/US/products/ps11274/prod_maintenance_guides_list.html.

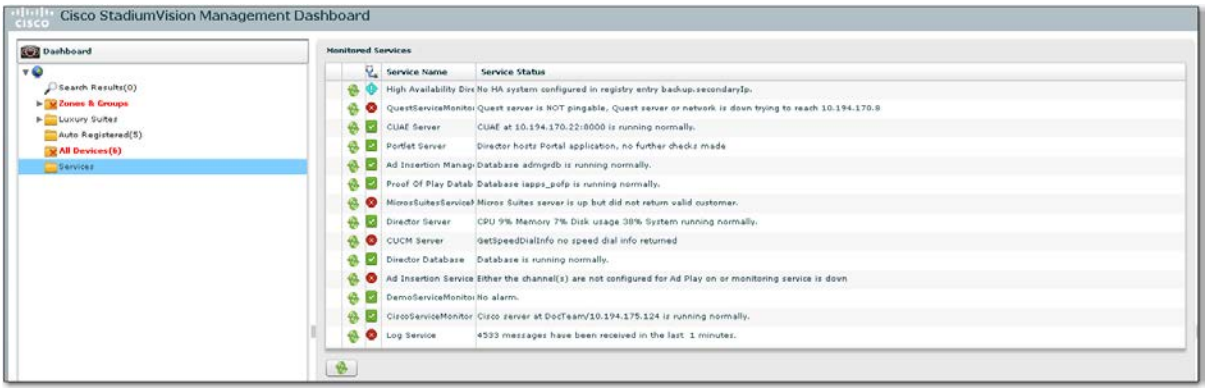
For information about auto-registration on the SV-4K media player, see the *Cisco StadiumVision SV-4K Media Player Deployment Guide*.

Viewing Monitored Services

The Services folder in the **Dashboard** drawer displays the Monitored Services screen which shows all operational data in one console to make it easy to monitor the health of Cisco StadiumVision. If there are problems with the server or process, the Monitored Services tabs in the Device Details window help you identify the issue and provide suggestions for how to resolve it.

For the latest information about Monitored Services in Cisco StadiumVision Director Release 4.0, see the "Management Operations" section of the *Cisco StadiumVision Director Operations Guide*.

Figure 8. Monitored Services Window



Dashboard Layout

As shown in Figure 9 and described in Table 5, the Dashboard is comprised of six panels, each with a different purpose:

Figure 9. Dashboard Layout

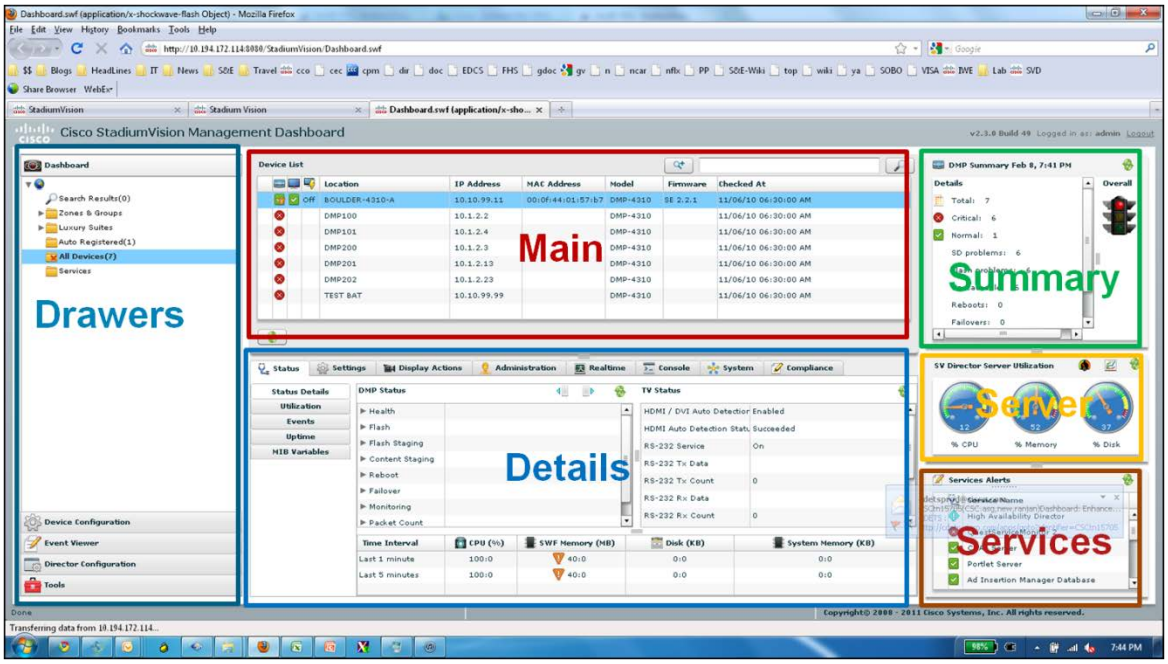


Table 5. Dashboard Layout

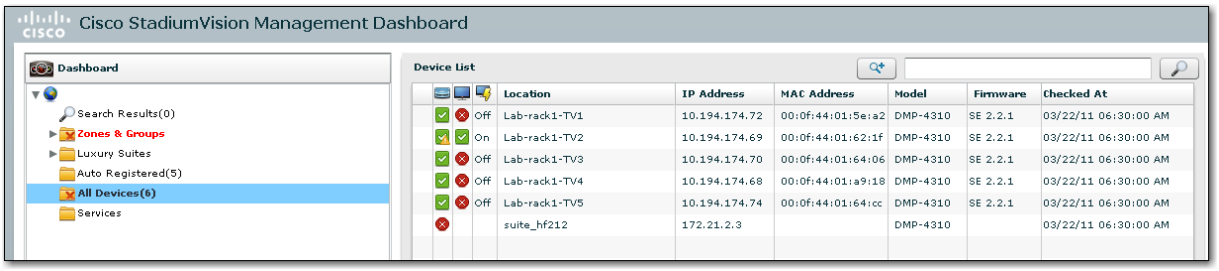
Window	Function
Drawers	Allows you to choose operations.
Main	Shows basic information for the DMP(s) you are operating on.
Details	Shows details for the selected DMP you are working on.
Summary	Shows how many DMPs you have and a summary of their overall condition.
Server	Shows utilization statics for the SV Server.
Services	Displays the status of the services that are currently running.

Drawers Panel

As described previously, the Dashboard drawers provide access to a collection of related commands and operations for monitoring and managing communications among Cisco StadiumVision components. Click on a drawer to expand the tree and access folders of related status and commands. You can view all devices in Cisco StadiumVision or view devices by zones and groups, luxury suites, and their auto registration status. Information about the devices displays in the Main Panel/Device List.

Figure 10 shows an example of the Dashboard screen when the All Devices folder is expanded.

Figure 10. Dashboard Drawers Window

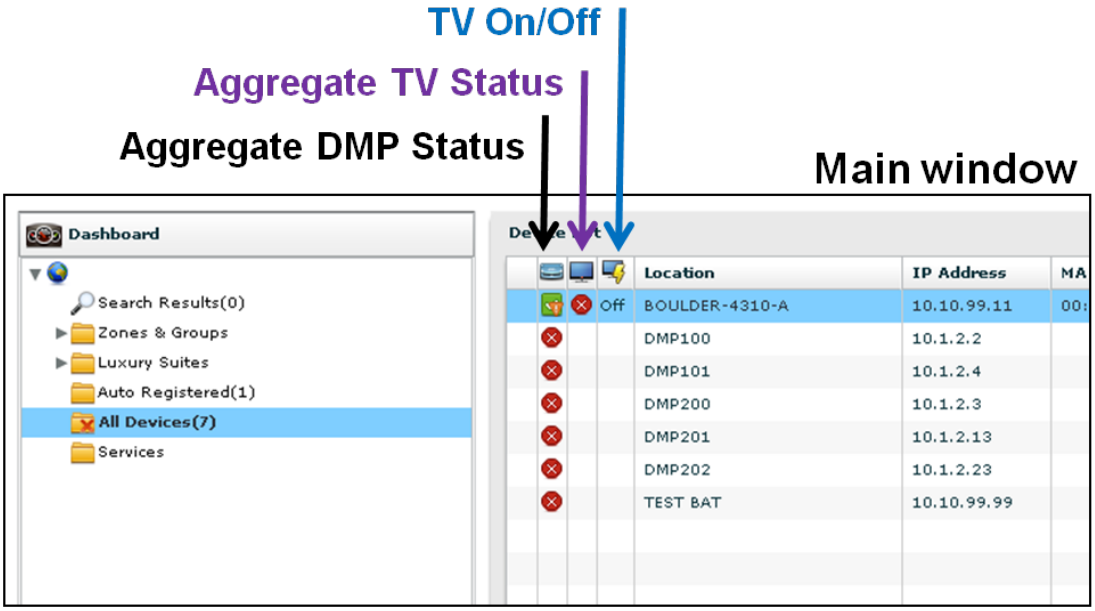


Main Panel/Device List

The Dashboard Main panel shows the Device List including the location, IP address, MAC address, model, and firmware version for selected or all devices. It also shows a time stamp of the last time the device was checked for status. You can click any heading in the Device List to sort the information by that category.

Items of interest in the Main panel are the alert icons in the first three columns which provide at-a-glance status of the DMP, the TV, and the TV on/off status. These statuses indicate the aggregate status derived from the alerts shown in the Details panel. Refer to Figure 11.

Figure 11. DMP and TV Aggregate Status and Alerts



Device List Controls

Table 6 defines the device list controls.

Table 6. Device List Controls

Button	Description
	Executes a command on the selected device(s). Referred to as the Play button in this document.
	Cancels the command currently submitted by the logged in user.
	Cancels the command currently submitted by any user.
	Refreshes the device list.
	Selects all devices in the Device List.
	Deselects all devices in the Device List.
	Removes all devices from the Device List.
	Cancels the command currently submitted by the logged in user.

Details Panel

The Dashboard Details panel shows details for the selected DMP you are working on. Three types of alerts are displayed: minor, major and critical. The Dashboard takes a summary of the alert statuses to calculate the aggregate status displayed as normal, warning, and critical alert icons in the Main panel.

Figure 12 illustrates how the aggregate statuses are derived from the detailed status shown in the Details window.

Figure 12. Detailed DMP Status and TV Status

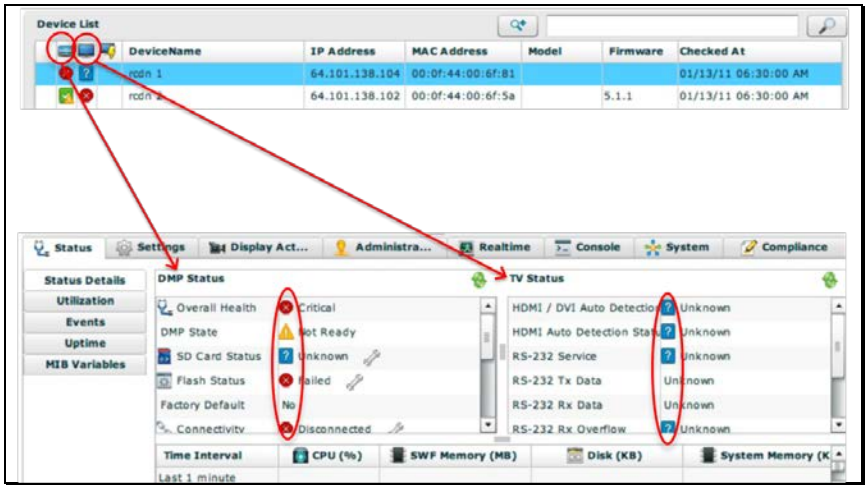
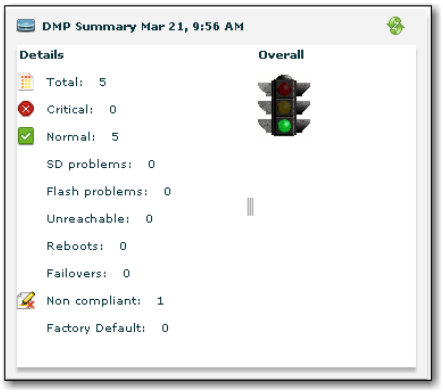


Table 7 defines the relationship between the alert icons displayed in the Main window and the alert icons displayed in the Details window. If the DMP status is red, the Dashboard will not display an icon for the TV status or the TV On status.

Table 7. Aggregate Status Alerts

Aggregate TV/DMP Status	Triggered by these alerts
Critical	One or more critical alerts
Warning	One or more minor or major alerts
Normal	No alerts of any kind

DMP Summary Panel



The Dashboard DMP Summary panel displays a summary of the status of all DMPs in the network. The traffic light indicates the overall network status. Values are green, yellow, and red. By default, the traffic light is green when 5% or fewer DMPs on the network are up and running without errors, yellow when 5-10% of DMPs are unhealthy, and red when 10% or more of the DMPs are unhealthy. You can set the threshold for when the status is green, yellow, or red.

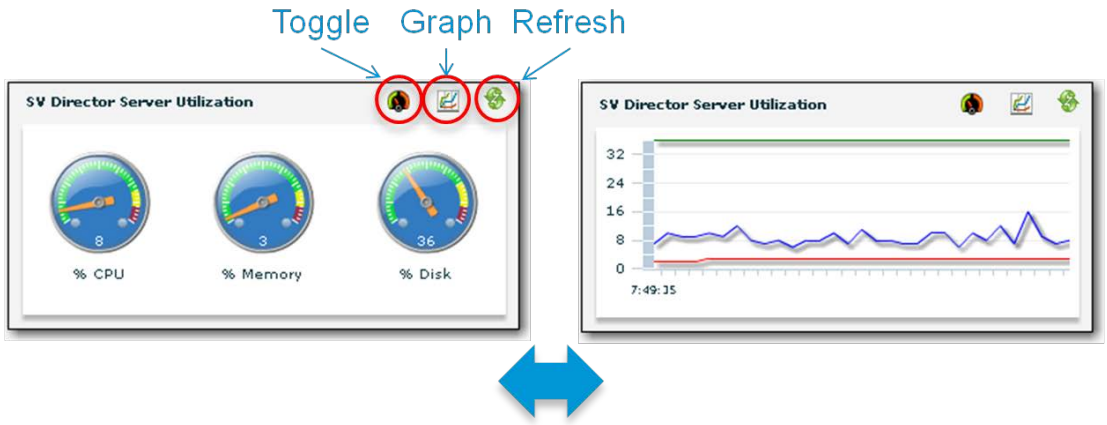
Table 8 defines the summary status topics and icons displayed in the Summary window.

Table 8. Network Status Icons

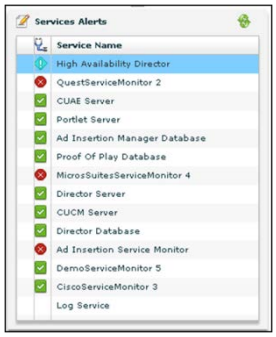
Icon	Description
	Total number of DMPs in the network.
	Number of DMPs in critical state.
	Number of DMPs in normal state.
	Number of DMPs with non-compliant configurations.

Server Utilization Gauges

The gauges in the Cisco StadiumVision Director Server Utilization panel provide an at-a-glance view of the percentage of CPU, memory, and disk space usage for the Cisco StadiumVision Director Server. Click on the gauge icons to view a graph of the server utilization history for the selected item, or click on the Graph icon to view the server utilization history for all categories. Mouse over the graph lines to display the value for the corresponding status. Server status is polled every 30 seconds. The browser will not automatically refresh to update the utilization status; you need to click the refresh button.



Services Alerts Panel



The Dashboard Services Alerts panel provides top level exposure of network services and internal processes critical to Cisco StadiumVision Director operation. It shows a list of the services that are currently being used by the Cisco StadiumVision Director server and displays alerts indicating their status. This allows quick identification of the state of these services to help you troubleshoot issues. For example, if the phones aren't working, you can check here to see if the CUCM service is running. If the service is not running, you can isolate the problem to CUCM. Some of the services displayed are internal, such as the Cisco StadiumVision Director database. You can click the refresh icon at the top of the screen to refresh the data at any time. Also, you can mouse over each service name to display more details about the service status.

Figure 13 illustrates the relationship between the Server Utilization data and Services Alerts.

Figure 13. Server Utilization and Services Alerts

Using the Dashboard Features

This section explains how to use the Dashboard search function, how to send and change command settings, and how to add/change registry settings.

Search and Filter Feature

When managing hundreds and even thousands of DMPs and TVs in a venue, you will learn to appreciate the Dashboard search and filter features which provide the ability to search for DMPs and filter the results shown in the Device List. This allows you to zero in on devices of interest without having to scroll through the whole Device List.

There are two ways to use the search box:

- Typing in a text string or a few numeric characters.
- Selecting a filter from the Select Search Criteria drop down.

When you perform a search, the search results are added to the current list of devices in the Device List. Duplicates are dropped to ensure that the Device List contains unique DMPs. This allows you to perform multiple searches and build up a desired list of DMPs. You can then execute one or more commands on this list of DMPs.

Press the minus button below the Device List to clear the DMPs that were added as a result of search operations as well as DMPs you may have selected from the device tree on the Select Devices panel.

Searching on a Text String, IP Address, or MAC Address

Table 9 defines the search criteria you can type in the search box. This search method is handy, for example, when a Cisco StadiumVision operator calls in and tells you that TV “100-N-500” is not working. You can simply type in that location to find the TV right away and begin troubleshooting the problem.

As a best practice, include the TV location in the Location name to make it easier to locate and troubleshoot through the Dashboard.

Table 9. DMP Search Criteria

Search Criteria	Description
Name, Description, Location	If the search field contains text, the Dashboard does a search on the textual name, description, and location. You can enter partial text strings as the search criteria. For example, if you enter “test” as the search criteria, DMPs which contain the word “Test”

	in their name, description or location fields will be displayed. Text strings are not case-sensitive.
IP Address	If the search field contains the period (.) character, the Dashboard does a search on the IP address for the DMPs in the database. You can enter a partial IP address as the search criteria. For example, .44 will match 10.1.44.5, 10.44.5.1.
MAC Address search	If the search field contains a semicolon (:) character, the Dashboard does a search on the MAC address for the DMPs in the database. You can enter a partial MAC address as the search criteria. For example, :6e will match 00:0f:44:00:6e:86.

Searching by Device Status and Alerts

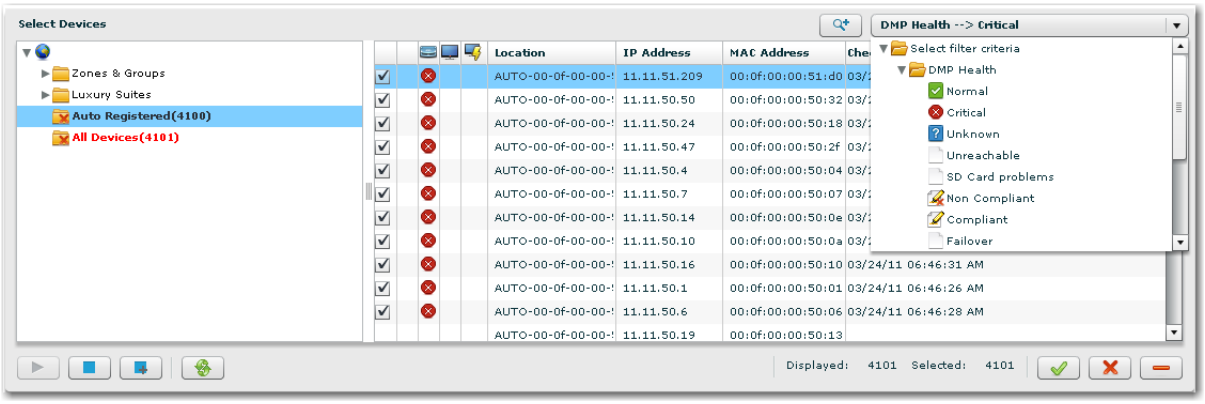
Click the search button with the magnifying glass and plus sign to choose from a comprehensive list of search criteria. The search criteria displayed here corresponds to the status shown on the **Status** tab in the Detailed status window (bottom of the screen).

The filters allow you to search by detailed device status and alerts in the following categories:

- DMP Health
- TV Health
- DMP State
- Flash Status (Runtime Status in Release 4.0)
- Content Staging
- Power Over Ethernet
- DMP Reboot
- Monitoring
- Location
- Model (Introduced in Release 4.0)

For example, if you want to show all the DMPs in critical status, you can filter by the DMP Health → Critical search criteria. Refer to Figure 14.

Figure 14. Searching and Filtering by DMP Health



Sending a Command

The Device Configuration, Director Configuration, and Tools drawers contain categories of commands you can send to DMPs.

To send a command:

1. In the Device List, select the DMP(s) to which you want to send the command. You can do a search on DMPs using the Search feature.
2. Select a command from one of the Dashboard drawers. Use the Device List controls to select/deselect devices. You can mouse over any control to display a tool tip about the control.

Figure 15. Selecting a Device and a Command

3. Make changes to command parameters. Not all commands have user-specified values.

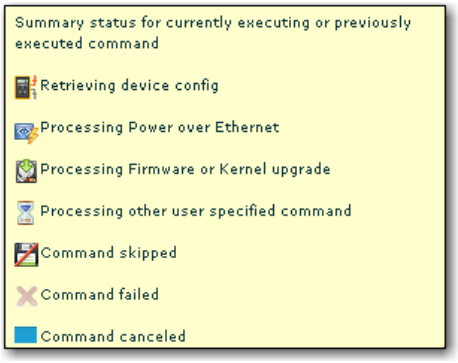
4. Click the Play button.The following confirmation message is displayed:

   "Are you sure you want to execute command 'command name' on the selected devices ?"

5. Confirm or cancel the action.

While the command is executing on a device, icons will display in the first column of the Device List next to the device(s). You can mouse over the first column heading (blank) to view a tool tip that defines each status icon. Refer to Figure 16.

Figure 16. Command Status Icons



When the operation is complete, the results will be updated in the Device List. Use the scroll bar to view the results for all selected devices. You can view detailed command from the Device Details tabs.

The Checked At column in the Device List displays the progress of a command on a per device basis. Once the command has completed, a timestamp of when the command completed will be displayed.

You cannot send some commands on a DMP in the Factory Default/Not Ready state. After initial installation of a Cisco DMP 4310G, use the **Initial Config** command (Cisco DMP 4310G only) to move the DMP to the Ready state. See “Deploying the Initial Configuration” in the Cisco StadiumVision Management Dashboard Device Configuration Commands guide.

Making Changes to Command Parameters

Some commands have user-specified parameters that you can set as described here.

Parameters that are common between DMP models are sent to all models. Be sure to enter parameters specific to a DMP type in the correct tab.

1. Select a command. A description of the command and the command parameters box displays in the Dashboard Drawers panel.
2. In the Command Parameters box, select the appropriate tab for the DMP type.
   - Legacy releases—Tabs are Common, 4305 Parameters, or 4310 Parameters.
   - Release 4.0—Tabs are Common, 4310 Parameters, or SV-4K Parameters.
3. Type the desired value for the parameter name.
4. Click the Play button in the Device List to send the command.

Figure 17. Changing Command Parameters

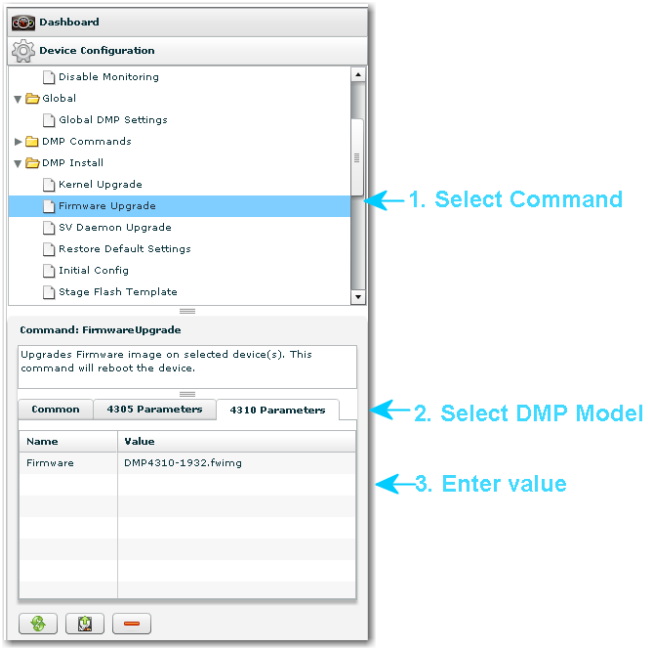


Table 10 defines the button icons in the Command parameters box.

Table 10. Buttons in the Command Parameters Box

Icon	Description
	Removes currently selected file.
	Refresh button. After you upload a file, click the **Refresh** button to refresh the file list displayed by the Dashboard.
	Upload button. Click the **Upload** button to upload the firmware to the Cisco StadiumVision Director server. This button is displayed only for the Upgrade Firmware commands.