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Monitoring Media Player Operation During an Event Using Device Management

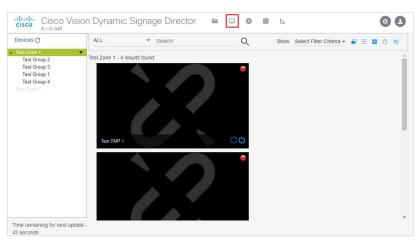
User Role: Administrator / Help Desk/ Support / Venue Operator / Venue Administrator

This module describes how to monitor operation of media players using Device Management in Cisco Vision Director.

Information About Device Management

The Device Management application shows at-a-glance device status information for media players and their attached TV displays during an event (Figure 1 on page 199).

Figure 1 Accessing the Device Management Application



Device Management Highlights

- Is accessible from the Cisco Vision Director (Main Menu) Library.
- Supports multi-venue site selection.
- Polls media players every 120 seconds (default) and auto-refreshes the monitoring display.
- Supports different ways to view device status.
- Allows you to select media players that you want to monitor by:
 - All criteria
 - Location Name

Device Management Views

- Description
- IP address
- MAC address
- Allows you to filter the selected device list by:
 - DMP state
 - DMP model
 - TV status
 - DMP health
 - TV health
- Provides icon for Administrator to Refresh or Restart a digital media player.

Device Management Roles

Note: The Administrator is the only role that can restart media players within the Device Management app, or change the polling interval in the Management Dashboard.

Device Management can be used by the following Cisco Vision Director user roles:

- Administrator
- Help Desk
- Support
- Venue Administrator
- Venue Operator

Device Management Views

Device Management supports three monitoring views of device status:

- Toggle Tree View–Provides the Devices Panel and the Thumbnail View of the devices or toggles to only thumbnails.
- Grid View–Provides detailed device status information in a tabular format.
- Thumbnail View–Provides device status as a thumbnail snapshot of content running on the TV along with a red or green icon showing the DMP state.

Grid View

Figure 2 on page 201 shows an example of the device information that can be seen in grid view, in addition to the status icons and controls that are also available from thumbnail view (Figure 3 on page 202).

Device Management Views

HDMI-In	MAC	Search	Q		Show Selec	tt Filter Criteria 👻 🖶 🗮 🕻
Lab 162 Sig 65 Lab 172 Bottom Group	Lab 172 Zone 1 - 4 result	s found				
Lab 172 Desk	Location	Model	IP Address	Firmware	TV Status	Status
Lab 172 Sig 64 (201) Lab 172 Single Zone	Lab 162 Sig 32	CV-HD	10.194.169.247	6.2.162	Off	<u>•</u> C ڻ
Lab 172 Top Group Lab 172 Top Group	Lab 162 Sig 65	CV-UHD	10.194.169.242	6.2.162	Off	0 C O
Lab 172 Zone 1	Lab 172 DMP-2K (159)	DMP-2K	10.194.169.159	6.2.162	Off	00 0
Ramana_zone rj-zone	Row-Q-Rack-1-R1-C2	SV-4K	10.194.169.241	6.2.162	Off	<mark>0</mark> 0 و
Sync Manager 1 Sync Zone 1 Tagboard Zone Test Zone Z1						
Z2 Z3 Copy Of Jason Luxury Suite 1						
Jason Luxury Suite 111						
Jason Luxury Suite 2 Jason Luxury Suite 3 Jason Luxury Suite 4						

Figure 2 Grid View Monitoring Example

Enhancements to Device Management

- Hover over the icons in the top right for functions.
- Supports multiple device selection using Ctrl and Shift keys for functionality such as TV On/Off, DMP Reboot, and Refresh
- Click the Refresh icon to refresh your preview, without having to wait for the next auto-refresh cycle to show a preview. This works for multiple DMPs, too.
- Within a Zone or Group, you can select multiple DMPs and perform a function (such as turn devices On/Off).
- Search channel names in the detail box.

To choose many devices in a Group or Zone, use **Ctrl** and **Shift** keyboard shortcuts to allow you to select large amounts of devices to perform Refresh, Reboot, TV ON and TV OFF functions. This speeds device control functions.

To select multiple devices and perform an action:

- 1. Go to Device Management.
- 2. Choose a Zone, Group, or device from the left panel.
- 3. In either Gridview or Thumbnail view, select as many devices as you need. Use **Ctrl (Control)** or **Shift** to select individual devices, skip around, or choose a range.
- 4. Choose an action to perform: Refresh, Reboot, TV ON, TV OFF, or search Channel Name (Figure 3 on page 202).

Device Management Filters

Or, select multiple devices from Gridview and perform an action (Figure 4 on page 202).

Figure 4 Select Multiple Devices with Shift and Control Keys

ALL T	Search	Q		Show Se	lect Filter Criteria 👻 🖶 🗮 🗴 🧋
d-uhd group - 2 results fou	nd				
Location	Model	IP Address	Firmware	TV Status	Status
Austin Bottom Bench left-2	CV-UHD	10.10.12.37	7.0.66	Off	● C ∪
Austin Bottom Bench Right-2	CV-UHD	10.10.12.39	7.0.66	Off	0 20

Device Management Filters

Device Management allows you to apply filter criteria to the devices selected for visual monitoring to see devices with specific characteristics or conditions:

- DMP State
- Model
- TV Status
- DMP Health
- TV Health

Note: The filters do not apply to all DMPs in the system. They only apply to the DMPs (groups/zones) that you have selected in the device tree list.

Figure 5 on page 203 shows the specific types of filter criteria available.

Best Practices for Device Management

Jui o	5 Device Ividi	agement Dioph
how	Select Filter Criteria 👻	₽ 🗄 🖬 🔿
All		
DMP	P State	
N	Ready Not Ready Production	
🕶 Mode	el	
S	CV-UHD CV-HD SV-4K DMP-2K	
TV S	Status	
	Power On Power Off	
DMP	PHealth	
C	lormal Critical Jnknown	
▼ TV H	lealth	
C	lormal Critical Jnknown	

Figure 5 Device Management Display Filter Criteria

Best Practices for Device Management

When working with Device Management, consider the following best practices:

- Do not change the DMP polling interval to less than the 12000 ms (2 minutes) default.
- To reduce network traffic, only enable monitoring for the DMPs that you want to observe for the event.

How to Use Device Management

This section includes the following topics:

- Prerequisites for Device Management, page 203
- Restrictions for Device Management, page 204
- Understanding the Device Management Screen, page 204
- Enabling Monitoring of Devices in Device Management, page 204
- Viewing DMP Details in Device Management, page 205
- Rebooting DMPs in Device Management, page 206
- Changing the Device Management Polling Period, page 207

Prerequisites for Device Management

Before you configure Device Management, be sure that the following conditions are met:

- DMPs are created in Cisco Vision Director.
- DMPs are assigned to zones, groups, and locations.

Restrictions for Device Management

Before you use Device Management, consider the following restrictions:

Only users with role of Administrator can reboot DMPs from Device Management.

Understanding the Device Management Screen

Figure 6 on page 204 shows the Device Management screen (grid view) and the options available there.

Figure 6 Device Management Screen Navigation

ALL	▼ Search	Q		Show Se	lect Filter Criteria 👻 🗗 🗮 🗴 🌚
I-uhd group - 2 results	found				
ocation	Model	IP Address	Firmware	TV Status	Status
Austin Bottom Bench left	-2 CV-UHD	10.10.12.37	7.0.66	Off	● C ∪
ustin Bottom Bench Rig	ght-2 CV-UHD	10.10.12.39	7.0.66	Off	0 0

Enabling Monitoring of Devices in Device Management

User Role: Administrator / Help Desk / Support / Venue Operator / Venue Administrator

By default, monitoring of devices in Device Management is disabled.

To enable monitoring of devices in Device Management:

- 1. From the Device Management screen, show the device list tree.
- 2. In the Devices box, select the DMP group or zone that you want to enable.

TIP: Disabled DMPs display "Non Monitorable" on the screen when you select them (Figure 7 on page 205).

 Click the drop-down arrow beside the DMP(s) that you want to enable for monitoring and select the Visual Monitoring checkbox (Figure 7 on page 205).

Figure 7	Visual Monitori	g Check	box	
cisco	Cisco Vision Dy 6.0.0-685	iamic S	Signage	Director
542543		ALL		Search
▶ 611		Non Mor	itorable 🧲	
▶ 622▶ 623		Location	÷	Model
 COB1Cou 				
COB1Cou				
COB1Cou COB1Cou				

Viewing DMP Details in Device Management

User Role: Administrator / Help Desk Support / Venue Operator / Venue Administrator

You can view a lot of information about DMPs from Device Management including addressing information, firmware version, disk space and configuration.

To view DMP details in Device Management:

- 1. From Device Management, go to thumbnail view.
- 2. Search for or filter the current display to find the DMP that you want information about.
- 3. Click the thumbnail of the DMP. The DMP Summary page displays (Figure 8 on page 205).

Figure 8 DMP Summary Panel



From here, there are TV controls you can manage such as:

- Channel selection
- TV On
- TV Standby
- Refreshing the DMP device
- Rebooting the DMP device
- 4. To see configuration information such as switch and script information, click **Configuration**. The DMP Configuration page displays (Figure 9 on page 206).

From here, there are TV controls you can manage such as:

Monitoring Media Player Operation During an Event Using Device Management

How to Use Device Management

- Group
- Active Script
- Switch
- Video Mode
- Screen Resolution

Figure 9 DMP Configuration Panel



Rebooting DMPs in Device Management

User Role: Administrator / Venue Administrator

ONLY users with the Administrator role can reboot DMPs from within Device Management.

The reboot devices button can be used from either the grid view (Figure 10 on page 207) or thumbnail view (Figure 11 on page 207).

Figure 10	Reboot I	Device Butt	on-Grid View			
ALL	•	Search	Q		Show Select Filte	r Criteria 👻 🗗 🗮 🖒
Lab 172 Group 1	1 (DMP-2K)	- 1 result found				
Location	\$	Model	IP Address	Firmware	TV Status	Status
Eablai7210MP-21 http://10.1941.170.14	Re(1399)1015 42:8080/Cisco)	DMP-2K /ision/#/home/device/	10.194.169.159 Managemeni	6.2.162	Off	<mark>ම</mark> C <mark>ප</mark>

Figure 11 Reboot Device Button–Thumbnail View



Changing the Device Management Polling Period

User Role: Administrator / Venue Administrator

By default, Device Management polls devices to update status every 120 seconds.

To change the Device Management polling period:

- 1. Go to Tools > Management Dashboard > Dynamic Signage Director Configuration > System Configuration > Management Dashboard > DMP Health Poller.
- 2. In the Configuration Property box, find the Normal Poll Interval in seconds.

Monitor and Status	Dynamic Signage Director Configuratio	n	
DMP and TV Controls	Configuration Property	Value	
2 Event Viewer	DMP Health Poller Active	yes	
2	Normal Poll Interval in seconds	300	
Dynamic Signage Director Configuration	Slow Poll Interval in seconds	600	
System Configuration (12)	Force Poll Interval in seconds	000	
🔻 🛅 Dynamic Signage Director Settings (1)			
Media File Types			
🛛 🔁 Global DMP Settings (6)			
Networking			
Audio/Video/Closed Caption			
Firmware Versions			
Time Source			
Storage and Cache			
Runtime Behavior			
V Auto Registration Settings (2)			
Series 2 DMP			
Series 3 DMP			
W Comment Dashboard (10)	🕹 💩		E
General Settings		-	
Power over Ethernet (2)	System		
Overall DMP Status Thresholds	Timestamp Messages	Count: 12 Log Level:	Info 💌 🏧
DMP Health Poller	0 10/12/17 09:46:01 P Building Dashboard	system cache start	
Export Punch List	10/12/17 09:46:01 P Building Dashboard		
Dashboard Console Display	0 10/12/17 09:46:01 P Read Monitored Att	ributes, count = 65	
DMP Alert Thresholds	0 10/12/17 09:46:01 P Read Field Catalog	count = 62	
Server Alert Thresholds			
4		r: com.cisco.sv.hpm.config.registry.RegistryConfigurator	
	-	r: com.cisco.sv.hpm.config.locale.LocaleConfigurator	
Tools		n comicisco svinprincomgilocare Locare Configurator	

- 3. In the value box, type the time period in ms.
- 4. Click the disk icon to save your changes.

TIP: You do not need to reset the DMPs to apply the new value. Whenever a script starts, the media player retrieves the global settings.