Upgrading the DMP Firmware

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Note: This module describes how to upgrade the firmware for Cisco Vision Dynamic Signage Director Release 6.0. If you are deploying a Series 2 or Series 3 media player for the first time, see also Cisco Vision Deployment Guide for Series 2 and Series 3 Media Players: Dynamic Signage Director.

Caution: Immediately after installing Cisco Vision Dynamic Signage Director Release 6.0, you must configure the new auto-registration settings in the Management Dashboard. Failure to perform this configuration can cause the media player to repeatedly boot.

The Series 2 and Series 3 firmware upgrade is not initiated from the Management Dashboard, but is done automatically when the device starts up or reboots.

Each time a Series 2 or Series 3 device is powered on or reboots, a compliance check is done against the firmware that is loaded on the device against the Cisco Vision Dynamic Signage Director auto-registration settings. If the firmware versions do not match, the device initiates a firmware upgrade automatically.

In Cisco StadiumVision Director Release 4.1 and later releases, the DMPs require that a minimum—or *base*—firmware version is provisioned before they can be upgraded to the *production* firmware version supported in Cisco Vision Dynamic Signage Director Release 6.0.

An auto-registration configuration requirement ensures that this required firmware upgrade sequence is automatically preserved for affected media players in the system.

With proper configuration, the system upgrades existing media player firmware to the pre-requisite or base firmware versions automatically before provisioning the production firmware version supported in Release 6.0.

Contents

Prerequisites

Before you upgrade the DMP firmware, be sure that the following requirements are met:

Caution: For initial deployment of a new DMP-2K, be sure that:

– No other accessories are attached to the DMP-2K.

– You are using standard Category 5e or 6 cabling up to 100 m in length.

- You have read the Release Notes for Cisco Vision Dynamic Signage Director Release 6.0 to obtain the latest information and to verify the supported DMP firmware upgrade paths.

- The Connected Stadium switch is configured, including the required LLDP for proper POE+ operation.

- A DHCP server has been configured with required Option 60 and Option 43 properties.

For more information, see the Cisco Connected Stadium Design Guide available to qualified Cisco Vision partners.

Provisioning Tasks

To provision the firmware, complete the following tasks:

- Downloading the Firmware for All Media Players, page 52 (required)

- Uploading the DMP Firmware to Cisco Vision Dynamic Signage Director, page 52 (required)

- Configuring the DMPs for Auto-Registration, page 54 (required)

Downloading the Firmware for All Media Players

The media player firmware image is not bundled with the Cisco Vision Dynamic Signage Director software.

Note: Be sure to download the firmware to a device that you also can use to access the Cisco Vision Dynamic Signage Director software.

Downloading the Series 2 and Series 3 Production Firmware

To download the Series 2 and Series 3 production firmware, go to:

https://www.brightsign.biz/downloads/dmp-firmware-download-6083-0516

Downloading the Series 2 DMP Base Firmware

If you do not already have one of the required base firmware versions uploaded to Cisco Vision Dynamic Signage Director, you must download the firmware image separately from a password-protected site and then upload it to Cisco Vision Dynamic Signage Director.

Contact your Cisco Systems representative for the "How to Download SV-4K Firmware" document, available to qualified Cisco Vision (StadiumVision) partners.

Uploading the DMP Firmware to Cisco Vision Dynamic Signage Director

After you have obtained the DMP firmware image from the external vendor, you must upload the image to Cisco Vision Dynamic Signage Director.

Caution: For Series 2 DMPs, you must be sure that the following two firmware versions are uploaded to the Cisco Vision Dynamic Signage Director server:

Base firmware version—5.1.68.1

Production firmware version—6.2.166 for Series 3 or 6.2.166.1 for Series 2
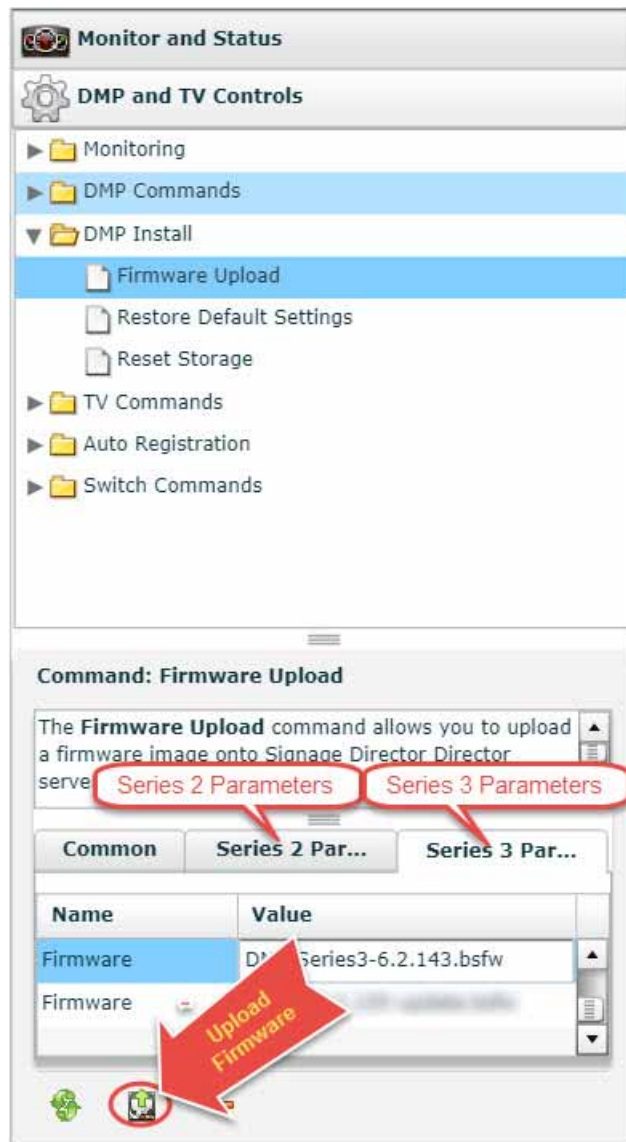
Note: You only go to the Firmware Upgrade page in the Management Dashboard to upload the firmware. You *do not* run the command to provision the software on the device from there. Each time the device powers on or reboots, a compliance check is done against the firmware that is loaded on the device against the Cisco Vision Dynamic Signage Director auto-registration settings. If the firmware versions do not match, the Series 2 and Series 3 DMP initiates a firmware upgrade automatically.

To upload the Series 2 and Series 3 firmware:

1. From the device where you downloaded the firmware, log into Cisco Vision Dynamic Signage Director as an administrator.

2. From the Management Dashboard, go to:

   DMP and TV Controls > **DMP Install** > **Firmware Upload**

3. Select the **Series 2 Parameters** or the **Series 3 Parameters** tab according to the DMP model that you are provisioning and click the upload icon (Figure 1 on page 54).

Figure 1   DMP Firmware Upload

4. Navigate to the firmware image file and click **OK**.

   An upload status string appears at the bottom of the screen that indicates when the firmware upload is complete.

Configuring the DMPs for Auto-Registration

Before the firmware can be provisioned to the media player, it must be uploaded to Cisco Vision Dynamic Signage Director and then configured in the auto-registration settings.

To configure the Series 2 and Series 3 DMPs for auto-registration:

1. From the Management Dashboard, go to:

   Dynamic Signage Director Configuration > **System Configuration** > **Auto Registration Settings** > **Provision DMP.**.

2. Do one of the following:

   – To provision an SV-4K or DMP-2K, click **Series 2 DMP.**

Provisioning Tasks

— To provision a CV-HD or CV-UHD, click **Series 3 DMP**.

3. In the Configuration Property panel, find and configure the firmware properties.

— on page 55 shows the auto-registration configuration and Table 1 on page 55 identifies the required firmware properties for the CV-UHD and CV-HD in Release 6.0.

— Figure 3 on page 56 shows the auto-registration configuration and Table 2 on page 56 identifies the required firmware properties for the SV-4K and DMP-2K in Release 6.0.

Note: The CV-HD and CV-UHD media players require a different *base* firmware than the SV-4K and DMP-2K media players.

— Firmware image to use—Select from dropdown box.

— init.version—Type the version.

— Base firmware image to use—Select from dropdown box.

— Base.version—Type the version.

Note: If you have just uploaded the firmware image, you need to click the Refresh icon next to the drop-down box for the new file to appear.

Figure 2   Firmware Image and Version Properties Required to Provision the CV-UHD and CV-HD

Table 1   Required Firmware Properties for the CV-UHD and CV-HD in Release 6.0

Release Number	Firmware Property	Value for Release
6.0.0-740	Firmware image to use (CV-UHD, CV-HD)	DMP-Series3-6.2.166.bsfw
	init.version (CV-UHD, CV-HD)	6.2.166
6.0.0-740	Base firmware image to use (CV-UHD, CV-HD)	DMP-Series3-6.2.166.bsfw
	base.version (CV-UHD, CV-HD)	6.2.166

Figure 3   **Firmware Image and Version Properties Required to Provision the SV-4K and DMP-2K**

Table 2   **Required Firmware Properties for the SV-4K and DMP-2K in Release 6.0**

Release Number	Firmware Property	Value for Release
6.0.0-740	Firmware image to use (SV-4K, DMP-2K)	DMP-Series 2-6.2.166.1.bsfw
	init.version (SV-4K, DMP-2K)	6.2.166.1
6.0.0-740	Base firmware image to use (SV-4K, DMP-2K)	If a prerequisite firmware is not already installed, upload and select the 5.1.68.1 firmware file. **Note:** Contact your Cisco Systems representative for information about how to obtain the 5.1.68.1 firmware.
	base.version (SV-4K, DMP-2K)	5.1.68.1

4. Save the changes.

5. Power on or reboot the DMP.

Verify the startup sequence. For more information on the startup sequence, see the Cisco Vision Deployment Guide for Series 2 and Series 3 Media Players: Dynamic Signage Director.