



Using the Software Manager to Upgrade Cisco Vision Dynamic Signage Director Software, Language Packs, and Fonts

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This module describes using the Cisco Vision Dynamic Signage Director Software Manager to:

- Upgrade an existing server already running Cisco StadiumVision Director (Release 4.1 or later) to a later release in the supported upgrade path.
- Install language packs and fonts.

This module includes the following topics:

- [Best Practices, page 29](#)
- [Prerequisites, page 30](#)
- [Information About Using the Software Manager to Update Existing Cisco Vision Dynamic Signage Director Software, page 30](#)
- [Upgrade Tasks, page 31](#)
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Best Practices

Caution: Do not alter the RAID configuration prior to upgrade.

Before you begin upgrading an existing Cisco StadiumVision Director or Cisco Vision Dynamic Signage Director server, consider the following best practices:

- Choose an appropriate down time to perform the upgrade on the server when there is adequate time to complete and verify the upgrade before any scheduled events and to allow time to resolve any unexpected issues that might occur.
- See [Release Notes for Cisco Vision Dynamic Signage Director Release 5.0](#) for the latest information about hardware and software requirements, changes, important notes, and caveats for your software release.
- Pay particular attention to the required hardware and software versions for other devices supporting your Cisco Vision solution and be sure that you upgrade those devices as needed. For example, generally only certain firmware versions are supported for the DMP hardware, or a new firmware version is needed to provide additional functionality supported by the Cisco Vision Dynamic Signage Director software.

Prerequisites

Caution: For any release 4.1 systems or releases prior to 5.0 SP2, imported logos as channel icons are not backed up (the channel icons will disappear during the upgrade procedure of backing up the primary and restoring to secondary if the icons are not already on the secondary server). A maintenance patch (SV-DIRECTOR-HOTFIX-CSCvd35309) is needed on both the primary and secondary servers before you run any backup and restore operations as part of an upgrade from any 4.1 release, or to Release 5.0 SP2. Otherwise, you will need to re-import the logos after upgrading to Release 5.0 SP2.

- Perform a backup and restore of the primary and secondary servers:
 - Perform a backup of the currently active primary server.
 - Restore the backup data onto the standby secondary server.

Note: The config service must be running on the secondary server to do the restore.

For more information about performing a backup and restore on a Cisco Vision Dynamic Signage Director Server, see the “[Backing Up and Restoring Cisco Vision Dynamic Signage Director Servers](#)” module of the [Cisco Vision Administration Guide: Dynamic Signage Director](#).

- Promote the secondary server to primary.

For more information about promoting a secondary server to primary, see the “[Configuring Failover Between Redundant Cisco Vision Dynamic Signage Director Servers](#)” module of the [Cisco Vision Administration Guide: Dynamic Signage Director](#).

- Access the promoted secondary server to perform the upgrade.
- Verify the boot order in the BIOS (by pressing **F2** while booting) prior to upgrading; the virtual DVD should be the primary boot device for the Platform 3 server.
- Due to the difficulty in recovering from an interrupted installation process if the Linux shell is accidentally closed or the network drops, it is highly recommended that you use a server console connection method that does not pose a risk to the success of upgrade completion if the session breaks during upgrade.

This can be done using a monitor and keyboard that are directly connected to the Cisco Vision Dynamic Signage Director server to log into the web browser interface.

Prerequisites

Be sure that the following requirements are met before you upgrade your server:

- Your server is running a minimum of Cisco StadiumVision Director Release 4.1.0-508 (SP1) or higher.
- You have the IP address for the server where you want to upload the ISO upgrade image. You will need to use this information as part of the URL to access the ISO upload utility.
- You have a supported browser version for Cisco Vision Dynamic Signage Director. For more information about the latest supported browsers, see [Release Notes for Cisco Vision Dynamic Signage Director Release 5.0](#).

Information About Using the Software Manager to Update Existing Cisco Vision Dynamic Signage Director Software

The ISO upgrade procedure for Cisco Vision Dynamic Signage Director includes the following tasks:

1. Downloading an ISO service pack or upgrade file from the software download site on Cisco.com.
2. Uploading the ISO file from your laptop to the Cisco Vision Dynamic Signage Director server using the Software Manager.

Upgrade Tasks

3. Installing the ISO image using the install function in the Software Manager.

ISO Upgrade Files

You can store multiple ISO upgrade files on a Cisco Vision Dynamic Signage Director server. The files will be displayed with a version number and the ISO filename in the Software Manager web browser interface for you to select which file to install.

Disk Maintenance

There is no automatic aging of ISO upgrade files, but you can delete files directly in the Software Manager. ISO files can also be deleted via the TUI: **Troubleshooting > Disk Monitoring > Delete Files > Clean upgrade ISO files.**

The Management Dashboard has a gauge for % Disk Utilization, or you can use the TUI to get file system usage.

Note: To conserve disk space if you have installed language packs in your current Release 4.1 system, use the Software Manager prior to upgrade to remove the Release 4.1 language files. There is no harm to the system if you do not remove them. However, the language files will not appear in the Software Manager for removal after you upgrade, and they will remain in storage.

Upgrade Tasks

To upgrade your Cisco Vision Dynamic Signage Director server, complete the following tasks:

- [Downloading ISO Upgrade Files from Cisco.com, page 31](#) (required)
- [Uploading and Installing an ISO Upgrade File on the Cisco Vision Dynamic Signage Director Server, page 32](#) (required)
- [Rebooting the Cisco Vision Dynamic Signage Director Server, page 33](#) (required)
- [Installing Language Packs, page 34](#) (as required)
- [Reactivating Custom Fonts, page 33](#) (as required)
- [Staging the Flash Template for Cisco DMP 4310G Devices, page 34](#) (required)
- [Deploying Global DMP Settings for the Cisco DMP 4310G, page 34](#) (required)

Downloading ISO Upgrade Files from Cisco.com

Be sure to download the upgrade files to a location, such as a laptop computer, where you can access them for installation onto the Cisco Vision Dynamic Signage Director server.

To download an ISO upgrade file, complete the following steps:

1. Go to the Cisco StadiumVision Director software download site.

Note: This site page is available from the [Cisco StadiumVision Director product support page](#) by clicking **Download Software > Cisco StadiumVision Director.**

2. Select the ISO upgrade or service pack file (as available), and optionally the companion MD5 checksum file, and download them.

[Table 1](#) shows the filename conventions used for ISO upgrades.

Note: Be sure that you choose the ISO for SV-DIRECTOR and *not* for SVD-REMOTE.

Upgrade Tasks

Table 1 ISO Upgrade Filename Conventions

Hardware Product ID	Filename Convention ¹
SV-PLATFORM3=	<ul style="list-style-type: none"> ■ SV-DIRECTOR-UPGRADE-5.0.0-<i>nnn</i>.x86_64.iso ■ SV-DIRECTOR-UPGRADE-5.0.0-<i>nnn</i>.x86_64.iso.md5sum

1. “*nnn*” represents the build number of the image in the file.

You can download the files using one of the following methods:

- Download both files at one time—Select each file and click **Add to Cart**. Then at the top of the download page, click the “Download Cart (2 items)” link.
 - Download each file independently—Click the **Download Now** button in the file selection box for each file.
3. (Optional) To verify the integrity of your upgrade file from the download, you can use the Software Manager UI to verify the checksum on the .iso file.

The md5 checksum is calculated by the system, and is shown on the Software Manager UI. Compare what is shown on the UI and the downloaded md5 checksum.

The values should match. If they do not, retry the download.

Uploading and Installing an ISO Upgrade File on the Cisco Vision Dynamic Signage Director Server

After you have downloaded the ISO upgrade file from Cisco.com, you will use the Software Manager to both upload the file to the Cisco Vision Dynamic Signage Director server. and to install the upgrade image.

Prerequisites

Be sure that you know the IP address of the server where you want to upload the file, and you have a supported browser version for Cisco Vision Dynamic Signage Director.

Task

To upload and install an ISO upgrade file on the Cisco Vision Dynamic Signage Director server, complete the following steps:

1. Log into Cisco Vision Dynamic Signage Director as an administrator.
2. From your browser, go to the following URL, where x.x.x.x is replaced by the IP address of the server where you want to upload the upgrade software.
3. Click **Manage Software**.
4. From the **Upgrade** tab, click **Upload** (Figure 1 on page 33).

Figure 1 ISO File Selection and Upload

5. Navigate to the location of the ISO upgrade file that you downloaded from Cisco.com. Select the file that you want to upload and click **Open**. The file is sent to the server.

When the ISO upload is complete, one of the following occurs:

- When the image is validated and uploaded successfully, a message is displayed stating that the ISO image has been uploaded.
- The image upload failed for some reason and you will need to retry the upload again.

Caution: The upload might take several minutes. Do *not* refresh or reload the Software Manager page while the upload process is running. Any interruption will corrupt the ISO image being uploaded.

6. Click **Install**.
7. The installation process begins, and status messages are displayed.
8. After the installation is complete, Cisco Vision Dynamic Signage Director services are restarted.

Rebooting the Cisco Vision Dynamic Signage Director Server

To reboot the Cisco Vision Dynamic Signage Director server, complete the following steps:

1. Log into the TUI as installer.
The TUI Main Menu is displayed.
2. Go to the **Cisco Vision Server Administration** menu.
3. Select **Reboot**.
4. At the confirmation prompt, press **Y** to start the reboot process.

Reactivating Custom Fonts

If you have already installed custom fonts for use in the Widgets tool prior to upgrade, then you will need to reactivate those fonts from the Software Manager after you upgrade.

To reactivate custom fonts, complete the following steps:

1. From the Cisco Vision Dynamic Signage Director main menu, click **Manage Software**.
2. From the Software Manager screen, click **Fonts**.

Installing Language Packs

3. Select the fonts to be activated.
4. Click **Activate Selected**.
5. (Cisco DMP 4310G only) Stage the Flash Template.

See [Staging the Flash Template for Cisco DMP 4310G Devices](#), page 34.

Staging the Flash Template for Cisco DMP 4310G Devices

Note: This task must be completed after upgrades, installing custom fonts, and installing language packs for Cisco DMP 4310G devices.

To be sure that any changes that might have been made to the Cisco Vision Dynamic Signage Director Flash Template (.swf file) are deployed to the Cisco DMP 4310G, complete the following steps:

1. Go to the Management Dashboard.
2. From the DMP and TV Controls dashboard drawer, navigate to the following command path:
DMP and TV Controls > DMP Install > Stage Template.
3. Select all of the Cisco DMP 4310G devices where the command should be applied.

Note: If you have a mixed deployment of different media player device types, then you can use the Search filter to filter by Model and select only DMP 4310 devices.

4. Click the play button to run the command on the selected devices.

Deploying Global DMP Settings for the Cisco DMP 4310G

To apply the global MIB variable settings to all Cisco DMP 4310G devices, complete the following steps:

1. Go to the Management Dashboard.
2. From the DMP and TV Controls dashboard drawer, navigate to the following command path:
DMP and TV Controls > Global > Global DMP Settings.
3. Select all of the DMP devices where the command should be applied.
4. Click the play button to run the command on the selected Cisco DMP 4310G devices.

Installing Language Packs

Note: Language packs are release-specific. You can install language packs for Release 5.0 when they become available, after you have installed or upgraded to the required 5.0 release.

You have increased flexibility to upload and install only the specific language(s) that you want to support through the independent installation of Language Packs as they become available for the release. The upload and installation of the language packs is performed using the new Software Manager from the Cisco Vision Dynamic Signage Director main menu.

To install language packs, complete the following steps:

1. Download the desired language pack from Cisco.com.
2. Log into Cisco Vision Dynamic Signage Director as an administrator.
3. From the main menu, click **Manage Software**.
4. From the Software Manager screen, click **Language Packs** ([Figure 2 on page 35](#)).

Installing Fonts

Figure 2 Language Packs Tab

RPM List					
4.0.0_4-1	gn-locales-gc_38-4.0.0_4-1.noarch.rpm	455.9 KB	Mon Jun 29 15:24:43 2015	80c2f95071671c22973ae44b79ea9	Rever Version Installed
4.0.0_4-1	gn-locales-es_38-4.0.0_4-1.noarch.rpm	457.5 KB	Mon Jun 29 15:24:34 2015	e56f5322e8290b64cd9b0a6d4054c	Rever Version Installed
4.0.0_3-1	gn-locales-es_38-4.0.0_3-1.noarch.rpm	2.5 KB	Mon Jun 29 15:23:59 2015	590e0000f6320e27ee230d439779e	Rever Version Installed
4.0.0_3-1	gn-locales-es_38-4.0.0_3-1.noarch.rpm	489.7 KB	Mon Jun 29 15:24:31 2015	48e4d35172b0e6c78247c7627b7789d	Rever Version Installed
4.0.0_4-1	gn-locales-es_38-4.0.0_4-1.noarch.rpm	454.4 KB	Mon Jun 29 15:24:52 2015	4c3e6ed27fa350ee32134ee3350b	Rever Version Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	4.4 KB	Sat Apr 9 10:00:59 2016	94e4d290b071d0213e9a3126ca7a3	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	2.5 KB	Sat Apr 9 10:00:59 2016	67631a6f679a93c4b67575570ac2614	Uninstalled
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	429.5 KB	Sat Apr 9 10:00:17 2016	3a4241208f9432c41549091604a9af	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	454.2 KB	Sat Apr 9 09:59:32 2016	c828427e12a881317a02bae12e222e	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	543.2 KB	Sat Apr 9 09:59:05 2016	4d8d235b5c146f6c023a1387085f435	Uninstalled
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	434.1 KB	Sat Apr 9 09:59:15 2016	081e7919e0b0c9f2b3c9390d3289d	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	457.8 KB	Sat Apr 9 09:58:57 2016	284ac0208484e31879d70e34ae12b	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	490.5 KB	Sat Apr 9 09:58:46 2016	e1a779e5a327774a82307e743079	Installed
4.1.0_2-1	gn-locales-es_38-4.1.0_2-1.noarch.rpm	490.3 KB	Sat Apr 9 09:58:29 2016	5e647e02290e131378582f3243c5	Installed

5. Click **Upload**.

6. In the File Upload dialog box, navigate to the downloaded Language Pack RPM file, and click **Open**.

The language pack is sent to the server.

7. Click **Install/Upgrade** to install the language pack.

Note: If using a secondary Cisco Vision Dynamic Signage Director server, the language pack should be installed on both the primary and secondary servers.

8. (Cisco DMP 4310G only) Stage the Flash Template.

See [Staging the Flash Template for Cisco DMP 4310G Devices](#), page 34.

9. (SV-4K and DMP-2K only) To transfer the locales to the SV-4K and DMP-2K media players, do the following:

a. From the Management Dashboard, go to:

DMP and TV Controls > DMP Install > Restore Default Settings

b. In the Select Devices panel, select the SV-4K and DMP-2K media player devices.

c. To execute the command, click the play (>) button located at bottom left of the panel.

10. (SV-4K and DMP-2K only) Stage content to the media players.

For more information, see the “Staging Content to the Media Player” topic in the [Cisco StadiumVision Director Operations Guide](#).

Installing Fonts

Note: Follow these guidelines to install new fonts on your system for use in the Widgets tool—these fonts are not used for external HTML pages.

If you have already installed custom fonts prior to upgrade, then you only need to reactivate them. See [Installing Language Packs](#), page 34.

Installing Fonts

This section includes the following topics:

- [Guidelines for Installing Fonts, page 36](#)
- [Procedure, page 36](#)

Guidelines for Installing Fonts

Note: In Cisco StadiumVision Director Release 4.1 and later releases, the unifont.ttf font is embedded in the SV-4K and DMP-2K media player firmware. This means that the font is available as a fallback font to external HTML pages that might not explicitly reference fonts in their CSS.

Consider the following guidelines before installing fonts:

- To save system memory on the media player, install fonts that have the minimal set of required characters.
- Cisco Vision Dynamic Signage Director can support approximately 30,000 installed glyphs.
- Asian languages like Chinese (which contain more glyphs) require more memory.
- The fallback font is Arial; it will be used as the default font in cases where the widget is referencing a font that is not available.
- Only True Type (.ttf) and OpenType (.otf) fonts are supported.
- Activating selected fonts compiles the font for use in the widgets SWF and on the Cisco DMP 4310G. For the SV-4K and DMP-2K, these fonts are uploaded to the media player when content is staged.
- Fonts with style, or weight, or both are currently not supported in the Widgets tool.

If you need to use a font with these characteristics, in most cases you can use a font editor tool (such as FontForge) to alter the OS/2 fsSelection field (called “style map” in FontForge) in the font. Changing this to REGULAR in the bitfield (from BOLD + ITALIC, for example), is usually enough to get things working. After regenerating the font, re-upload and activate the font in Cisco Vision Dynamic Signage Director.

Procedure

To install fonts, complete the following steps:

1. Obtain the desired fonts.

Note: Fonts must be TrueType (.ttf) or OpenType (.otf).

2. Log into Cisco Vision Dynamic Signage Director as an administrator.
3. From the main menu, click **Manage Software**.
4. From the Software Manager screen, click **Fonts** ([Figure 3 on page 36](#)).

Figure 3 Fonts Tab

Name	Status	Filename	Size	Upload Date
Arial	Active	Arial.ttf	42.3 KB	Tue Jun 16 12:00:00 2015

5. Click **Upload**.

What to Do Next

6. In the Font Upload dialog box, do the following:
 - a. Click **Browse**.
 - b. Navigate to the location of your font file and click **Open**.
 - c. Click **Upload**.
7. Click the checkbox of the font to be activated.
8. Click **Activate Selected** to make the font available in Cisco Vision Dynamic Signage Director.

The fonts are compiled for use in the Widgets tool and on the Cisco DMP 4310G.

9. (SV-4K and DMP-2K only) Stage content to the media player.

For more information, see the “Staging Content to the Media Player” topic in the [Cisco StadiumVision Director Operations Guide](#).

What to Do Next

- Follow the steps in [Verifying the Upgrade, page 39](#) to verify that the upgrade process was successful.
- Use [Appendix A: Post-Upgrade Checklist, page 57](#) to be sure that you have completed the required verification steps.

What to Do Next