



# Release Notes for Cisco Vision Dynamic Signage Director (Cisco StadiumVision Director) Release 5.0

**First Published:** 2016-08-02

**Last Updated:** 2019-05-03

**Cisco Vision Dynamic Signage Director (Cisco StadiumVision Director) Release 5.0.0-1212 Service Pack 9**

**Cisco Vision Dynamic Signage Director Remote (Cisco StadiumVision Director Remote) Release 5.0.0-8**

**Table 1 Document Revision History**

Date	Revision History
2019-05-03	<p>Release 5.0.0-1212 (SP9) is available. We strongly recommend you upgrade to Release 5.0.0-1212 (SP9) from Cisco Vision Dynamic Signage Director Release 5.0.0-1110 (SP8). The following updates were made:</p> <ul style="list-style-type: none"><li>■ This release includes security updates and other fixes. It uses DMP firmware 6.2.166.2.</li><li>■ <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1212, page 43</a></li></ul>
2018-12-12	<p>Release 5.0.0-1110 (SP8) is available. We strongly recommend you upgrade to Release 5.0.0-1110 (SP8) from Cisco Vision Dynamic Signage Director Release 5.0.0-1022 (SP7). The following updates were made:</p> <ul style="list-style-type: none"><li>■ This release includes security updates and other fixes. It uses DMP firmware 6.2.166.2.</li><li>■ <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1110, page 44</a></li></ul>
2018-09-05	<p>Release 5.0.0-1022 (SP7) is available. We strongly recommend you upgrade to Release 5.0.0-1022 (SP7) from Cisco Vision Dynamic Signage Director Release 5.0.0-909 (SP6). The following updates were made:</p> <ul style="list-style-type: none"><li>■ This release includes security updates and other fixes. It uses firmware 6.2.166.2.</li><li>■ <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1022, page 44.</a></li></ul>
2018-04-10	<p>Release 5.0.0-909 (SP6) is available. We strongly recommend you upgrade to Release 5.0.0-909 (SP6) from Cisco Vision Dynamic Signage Director Release 5.0.0-820 (SP5). The following updates were made:</p> <ul style="list-style-type: none"><li>■ <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-909, page 45.</a></li></ul>
2010-01-31	<p>Release 5.0.0-820 (SP5) is available. We strongly recommend you upgrade to Release 5.0.0-820 (SP5) from Cisco Vision Dynamic Signage Director Release 5.0.0-709 (SP4). The following updates were made:</p> <ul style="list-style-type: none"><li>■ <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709, page 46.</a></li></ul>

**Table 1 Document Revision History (continued)**

Date	Revision History
2018-01-19	<p>Release 5.0.0-709 (SP4) is updated. The following updates were made:</p> <ul style="list-style-type: none"> <li>■ Defect CSCva71831 was fixed in firmware 6.2 <i>only</i>. See <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709, page 46</a>.</li> <li>■ Typo in Caveats section for first bullet item: <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605, page 47</a>.</li> </ul>
2017-12-08	<p>Release 5.0.0-709 (SP4) is updated. Release 5.0.0-709 (SP4) is considered a mandatory upgrade from Cisco Vision Dynamic Signage Director Release 5.0.0-605 (SP3). The following updates were made:</p> <ul style="list-style-type: none"> <li>■ <a href="#">DMP-2K Firmware Versions, page 9</a></li> <li>■ <a href="#">SV-4K Firmware Versions, page 10</a></li> <li>■ <a href="#">Firmware Configuration for the SV-4K and DMP-2K Media Player, page 40</a></li> <li>■ <a href="#">Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709, page 46</a></li> </ul> <p>DMP firmware 6.2.166.1 addresses security concerns and adds reliability improvements that were available after the first posting. It also includes performance improvements in HTML rendering.</p>
2017-09-21	<p>Release 5.0.0-709 (SP4) is announced. Release 5.0.0-709 (SP4) is considered a mandatory upgrade from Cisco Vision Dynamic Signage Director Release 5.0.0-605 (SP3). The following updates were made:</p> <ul style="list-style-type: none"> <li>■ <a href="#">Key Considerations for This Release, page 5</a></li> <li>■ <a href="#">Upgrade Paths, page 37</a></li> <li>■ Added <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709, page 46</a>.</li> </ul>
2017-06-21	<p>Release 5.0.0-605 (SP3) is announced. This update is recommended as required for those sites impacted by the defects resolved by the release.</p> <p>The following updates were made:</p> <ul style="list-style-type: none"> <li>■ <a href="#">Key Considerations for This Release, page 5</a></li> <li>■ <a href="#">Upgrade Paths, page 37</a></li> <li>■ Added <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605, page 47</a>.</li> </ul>

**Table 1 Document Revision History (continued)**

Date	Revision History
2017-05-18	Revised description of <a href="#">CSCvd80879—Deleting content false Pop-up message displayed.</a> , <a href="#">page 49</a> .
2017-05-16	<p>The following updates were made:</p> <ul style="list-style-type: none"> <li>■ Release 5.0.0-526 (SP2) is announced as a mandatory upgrade path from SP1.</li> <li>■ Updated production firmware version 6.1.105 applies to Release 5.0.0-421 (SP1) and later releases in: <ul style="list-style-type: none"> <li>– <a href="#">DMP-2K Firmware Versions, page 9</a>.</li> <li>– <a href="#">SV-4K Firmware Versions, page 10</a>.</li> <li>– <a href="#">Firmware Configuration for the SV-4K and DMP-2K Media Player, page 40</a>.</li> </ul> </li> <li>■ Troubleshooting tool for virtual environments in <a href="#">TUI Enhancement: Disk Speed Test, page 30</a>.</li> <li>■ New Management Dashboard and CCM functionality is added for the Venue Administrator in <a href="#">Venue Administrator RBAC Enhancement, page 31</a>.</li> <li>■ Added <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526, page 47</a> and <a href="#">Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526, page 48</a>.</li> </ul>
2017-03-30	<p>The following updates were made:</p> <ul style="list-style-type: none"> <li>■ Under <a href="#">Cisco Vision Dynamic Signage Director Server Support, page 10</a>, revised Note to strongly recommend virtual environments for future releases and removed statement about Release 5.0 as the last release to support upgrades on the Platform 3 server hardware.</li> <li>■ Revised two outdated links to the <i>Cisco Connected Stadium Design Guide</i> to point to location on Cisco.com (authorized partners only).</li> </ul>
2017-02-24	<p>Updates for Cisco Vision Dynamic Signage Director Release 5.0.0-421 (SP1) and Cisco Vision Dynamic Signage Director Remote Release 5.0.0-8 including:</p> <ul style="list-style-type: none"> <li>■ Introduction of new SV-4K/DMP-2K firmware version (6.1.105) for SP1 only.</li> <li>■ Revised <a href="#">Key Considerations for This Release, page 5</a>.</li> <li>■ Introduction of language pack support for Release 5.0.0-421, with the addition of Japanese (jp_JN).</li> <li>■ Added <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421, page 50</a> and <a href="#">Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421, page 50</a>.</li> </ul>
2016-12-05	<p>The following updates were made:</p> <ul style="list-style-type: none"> <li>■ Revised description for new <code>dmp.powerQueryByCEC</code> command in <a href="#">TV Control Using HDMI CEC for SV-4K and DMP-2K Media Players, page 27</a>.</li> <li>■ Revised headline for CSCvc13064 in <a href="#">Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320, page 51</a></li> </ul>
2016-11-30	Updates for Cisco Vision Dynamic Signage Director Release 5.0.0-320 and Cisco Vision Dynamic Signage Director Remote Release 5.0.0-7.

**Table 1 Document Revision History (continued)**

Date	Revision History
2016-11-09	The following updates were made: <ul style="list-style-type: none"><li data-bbox="423 380 1472 436">■ Added footnote clarification to the minimum VRAM requirement of 32 GB in <a href="#">Table 8 on page 12</a>.</li><li data-bbox="423 457 1472 514">■ Added more information to <a href="#">Multicast Video Scaling for SV-4K and DMP-2K Media Players, page 25</a>.</li><li data-bbox="423 535 1472 592">■ Changed <a href="#">CSCva71831–DMP stops all CEC communication when LG TV is turned off via remote., page 56</a> to no workaround.</li><li data-bbox="423 613 716 644">■ Other minor changes.</li></ul>
2016-10-10	Updates for Cisco Vision Dynamic Signage Director Release 5.0.0-235.
2016-08-02	Initial release of Cisco Vision Dynamic Signage Director Release 5.0.0-123.

## Contents

- [Introduction, page 5](#)
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## Introduction

Beginning in Release 5.0, Cisco StadiumVision Director is part of a new and expanded solution offer called Cisco Vision. Cisco StadiumVision Director is enhanced to support the new Cisco Vision solution and is renamed to Cisco Vision Dynamic Signage Director.

This document provides information about all releases of Cisco Vision Dynamic Signage Director Release 5.0 for the Cisco Vision solution. It includes hardware and software requirements, new and changed features, installation and upgrade information, known issues, and defects.

This document is for network and system administrators as well as technical field engineers who are responsible for designing and deploying the Cisco Vision solution. Readers of this document should be familiar with basic IP networking technology and the Cisco Vision solution.

## Key Considerations for This Release

**Note:** This section provides a highlight of several important considerations for Cisco Vision Dynamic Signage Director Release 5.0. Please read the entire release note to obtain all relevant information for the release.

**Caution:** If you are upgrading from Release 5.0.0-235 to Release 5.0.0-320, and you have already installed an SV-4K with WiFi enablement, then you must re-provision that SV-4K again over a hard-wired connection so that the WiFi configuration persists. After the re-provision, the WiFi configuration for the DMP is preserved.

- We strongly recommend you upgrade to Release 5.0.0-1212 (SP9) from Cisco Vision Dynamic Signage Director Release 5.0.0-1110 (SP8). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.2.166.2 (*no change*).

## Key Considerations for This Release

- We strongly recommend you upgrade to Release 5.0.0-1110 (SP8) from Cisco Vision Dynamic Signage Director Release 5.0.0-1022 (SP7). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.2.166.2 (*no change*).
- We *strongly recommend* you upgrade to Release 5.0.0-1022 (SP7) from Cisco Vision Dynamic Signage Director Release 5.0.0-909 (SP6). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.2.166.2.
- We *strongly recommend* you upgrade to Release 5.0.0-909 (SP6) from Cisco Vision Dynamic Signage Director Release 5.0.0-820 (SP5). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.2.166.1 (*no longer supports* 6.1.105).
- We *strongly recommend* you upgrade to Release 5.0.0-820 (SP5) from Cisco Vision Dynamic Signage Director Release 5.0.0-709 (SP4). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.2.166.1 (*no longer supports* 6.1.105).
- Release 5.0.0-709 (SP4) is considered a mandatory upgrade from Cisco Vision Dynamic Signage Director Release 5.0.0-605 (SP3). For your convenience, the supported firmware for DMP 4310: 5.4.(1)RB(2P) b4652 (*no change*) and for DMPs SV-4K/DMP-2K: 6.1.105 (*no change*).
- Release 5.0.0-605 (SP3) is required only for those sites impacted by [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605, page 47](#). No DMP firmware changes are required with this upgrade.
- Release 5.0.0-526 (SP2) is a mandatory upgrade from Release 5.0.0-421 (SP1). No DMP firmware changes are required with this upgrade.
- Release 5.0.0-421 (SP1) is considered a mandatory upgrade from Cisco Vision Dynamic Signage Director Release 5.0.0-320 (GA).
- When you upgrade to Release 5.0.0-421 (SP1), you must also upgrade your SV-4K and DMP-2K firmware to version 6.1.105. Earlier Cisco Vision Dynamic Signage Director 5.0 releases are supported by production firmware version 6.1.96.
- Language packs are available beginning in Release 5.0.0-421 (SP1), including the introduction of Japanese language support.
- Some features might be introduced during early releases of Cisco Vision Dynamic Signage Director Release 5.0 to support additional functionality coming later in the Cisco Vision solution.  
  
For example, the new Automatic Proof of Play Export feature is introduced in Cisco Vision Dynamic Signage Director Release 5.0, to support export of PoP report data to an external server. However, unified reporting for both in-suite and mobile PoP is not currently available.
- The recommended reboot period for maintenance of the DMP-2K has changed from 5 days to weekly in Release 5.0.0-235 and later releases.
- Portrait mode content renditions on the SV-4K and DMP-2K are released for production in Release 5.0.0-235 and later releases.
- Cisco Vision Dynamic Signage Director Remote is first supported with Release 5.0.0-320. It is not included in Release 5.0.0-123 or Release 5.0.0-235.
- Release 5.0 is the last release to support the Cisco DMP 4310G. After Release 5.0, you will need to upgrade to the newer DMP models to install future Cisco Vision Dynamic Signage Director releases.

# System Requirements for Cisco Vision Dynamic Signage Director Release 5.0

This section describes the hardware and software supported by the Cisco Vision solution for Cisco Vision Dynamic Signage Director Release 5.0. It includes the following topics:

- [Browser and Flash Player Support, page 7](#)
- [Digital Media Player Support, page 8](#)
- [Cisco Vision Dynamic Signage Director Server Support, page 10](#)
- [Cisco Vision Headend Support, page 14](#)
- [Cisco Unified Communications Support, page 17](#)
- [Commerce Integration Systems Support, page 17](#)
- [Media Controller Systems Support, page 18](#)
- [Touch Screen Devices and Controller Support, page 18](#)
- [TV Qualification for HDMI CEC Control of TV Power On/Off, page 18](#)

## Browser and Flash Player Support

You can use an Apple Mac or Microsoft Windows PC or laptop to access Cisco Vision Dynamic Signage Director Release 5.0.

[Table 2 on page 7](#) describes the browser software versions that have been tested with Cisco Vision Dynamic Signage Director Release 5.0, with the corresponding Flash player support.

**Table 2 Tested Browser Software**

PC or Laptop OS	Browser Version <sup>1</sup>	Flash Player <sup>2</sup>
Apple MAC OS X	Google Chrome Version 52.0.2743.82	Adobe Flash Player Version 22.0.0.209
	Mozilla FireFox Version 47.0.1	Adobe Flash Player Version 22.0.0.209
Microsoft Windows (Windows 7)	Google Chrome Version 51.0.2704.106	Adobe Flash Player Version 22.0.0.209
	Mozilla FireFox Version 47.0.1	Adobe Flash Player Version 22.0.0.209

1. Other than what is listed in this table, no additional browser software is tested (for example, not Apple Safari or Microsoft Internet Explorer). However, other untested browser software might work. Microsoft IE is no longer tested.
2. If necessary, you can find older versions of Adobe Flash Player by going to the Adobe archived Flash player versions site on the Adobe website. Be sure not to load any debug versions of this software which are unsupported by Cisco Vision Dynamic Signage Director.

## Digital Media Player Support

Cisco Vision Dynamic Signage Director Release 5.0 supports three models of digital media players (DMPs):

- [Cisco DMP 4310G, page 8](#)
- [DMP-2K Media Player, page 8](#)
- [SV-4K Media Player, page 9](#)

### Cisco DMP 4310G

**Note:** Release 5.0 is the last release to support the Cisco DMP 4310G. After Release 5.0, you will need to upgrade to the newer DMP models to install future Cisco Vision Dynamic Signage Director releases.

The DMP firmware image is not bundled with the Cisco Vision Dynamic Signage Director software. You must download the firmware image separately at the software download center site.

[Table 3 on page 8](#) describes the Cisco Digital Media Player (DMP) hardware and firmware supported in Cisco Vision Dynamic Signage Director Release 5.0.

**Table 3 Supported Cisco DMP Hardware and Firmware**

Hardware	Firmware Version
Cisco DMP 4310G	DMP-4310G Version 5.4.1 RB2P

### Cisco DMP 4310G Firmware Download Guidelines

**Note:** DMP-4310G Version 5.4.1 and later supports MP4 (H.264 encoded only) video files and adds support for ELO IntelliTouch+ technology.

**To download the DMP-4310G Version 5.4.1RB2P firmware, go to the Cisco Digital Media Players product page for the Cisco DMP 4310G:**

<http://www.cisco.com/c/en/us/support/video/digital-media-player-4310g/model.html>

1. Click the **Downloads** tab and then **Digital Media Player (DMP) System Upgrades**.
2. Go to **All Releases > 5 > 5.4.1\_RB\_2P**.
3. Click **Download** to get the 5.4.1\_RB2\_2P\_FCS\_4310.fwimg file.

### Cisco DMP 4310G Firmware Upgrade Procedure

For information about how to upgrade the DMP firmware, see the “[Upgrading the Cisco DMP 4310G Firmware](#)” module of the [Cisco StadiumVision Director Software Installation and Upgrade Guide](#).

### DMP-2K Media Player

The DMP-2K Media Player is introduced in Cisco StadiumVision Director Release 4.1. The DMP-2K has a smaller form-factor and supports less storage and fewer features than the SV-4K, including support of a maximum HD resolution of 1080p. For more information, see the [Feature Summary by Media Player Model, page 20](#).

**Note:** For more information about deployment and firmware installation, see also the [Deployment Guidelines for the SV-4K and DMP-2K Media Players, page 39](#).



## System Requirements for Cisco Vision Dynamic Signage Director Release 5.0

## DMP-2K Firmware Versions

The DMP-2K supports the same firmware versions as the SV-4K media player.

[Table 4 on page 9](#) describes the DMP-2K hardware and firmware supported in Cisco Vision Dynamic Signage Director Release 5.0. SP7

**Table 4 Supported DMP-2K Media Player Hardware and Firmware**

Hardware	Product ID	Firmware Version
DMP-2K Media Player (worldwide)	DMP-2K-WW-K9 <sup>1</sup>	<ul style="list-style-type: none"> <li>■ Base firmware—5.1.68.1</li> <li>■ Production firmware:               <ul style="list-style-type: none"> <li>– 6.1.96 (Release 5.0.0-320 and earlier)</li> <li>– 6.1.105 (Release 5.0.0-421 SP1 and later)</li> <li>– 6.2.166.1 (Release 5.0.0-709 SP4 and later)</li> <li>– 6.2.166.2 (Release 5.0.0-1022 SP7 and later)</li> </ul> </li> </ul>

1. There is only a single product ID for the DMP-2K for worldwide ordering.

## SV-4K Media Player

The SV-4K media player is a fan-less, solid-state, commercial digital media player that supports new technology standards. In addition to support of 4K video resolution, the SV-4K enhances the capabilities of the Cisco solution by adding support for WiFi, dual video regions, an enhanced processor, improved video wall and virtual ribbon board synchronization, and an HTML5 runtime environment.

For more information about the software features supported by the SV-4K media player, see the [Feature Summary by Media Player Model, page 20](#).

**Note:** For more information about deployment and firmware installation, see also the [Deployment Guidelines for the SV-4K and DMP-2K Media Players, page 39](#).

## SV-4K Firmware Versions

[Table 5 on page 10](#) describes the SV-4K hardware and firmware supported in Cisco Vision Dynamic Signage Director Release 5.0.

**Table 5 Supported SV-4K Media Player Hardware and Firmware**

Hardware	Product ID	Firmware Version
SV-4K Media Player (North America)	SV-DMP-4K-NA-K9	<ul style="list-style-type: none"> <li>■ Base firmware—5.1.68.1</li> <li>■ Production firmware:               <ul style="list-style-type: none"> <li>– 6.1.96 (Release 5.0.0-320 and earlier)</li> <li>– 6.1.105 (Release 5.0.0-421 SP1 and later)</li> <li>– 6.2.166.1 (Release 5.0.0-709 SP4 and later)</li> <li>– 6.2.166.2 (Release 5.0.0-1022 SP7 and later)</li> </ul> </li> </ul>
SV-4K Media Player (rest of the world)	SV-DMP-4K-ROW-K9	<ul style="list-style-type: none"> <li>■ Base firmware—5.1.68.1</li> <li>■ Production firmware:               <ul style="list-style-type: none"> <li>– 6.1.96 (Release 5.0.0-320 and earlier)</li> <li>– 6.1.105 (Release 5.0.0-421 SP1 and later)</li> <li>– 6.2.166.1 (Release 5.0.0-709 SP4 and later)</li> <li>– 6.2.166.2 (Release 5.0.0-1022 SP7 and later)</li> </ul> </li> </ul>

## Cisco Vision Dynamic Signage Director Server Support

Cisco Vision Dynamic Signage Director supports upgrades from Release 4.1 to Release 5.0 software on the Platform 3 server hardware. Software versions prior to Release 4.1 must be upgraded serially to the supported 4.1 version before upgrading to Release 5.0. For more information, see the [Upgrade Paths, page 37](#).

**Note:** For future releases of Cisco Vision Dynamic Signage Director, installation in a virtual server environment is strongly recommended.

New installations of Cisco Vision Dynamic Signage Director Release 5.0 are supported in a virtual server environment using Cisco Systems or other third-party hardware.

**Note:** Use the Cisco Commerce Workspace (CCW) tool when placing Cisco StadiumVision orders at: <https://apps.cisco.com/Commerce/home>.

## Product IDs in Cisco Vision Dynamic Signage Director Release 5.0 for Software Licenses

In Cisco Vision Dynamic Signage Director Release 5.0, the Cisco Vision Dynamic Signage Director software, video management, and display licenses are unbundled. This allows you to purchase hardware separately for the Cisco Vision Dynamic Signage Director server and install Cisco Vision Dynamic Signage Director software in a virtual environment (for more information, see the [Virtualized Server Environment Support, page 12](#).)

[Table 6 on page 11](#) provides information about the supported product IDs for Cisco Vision Dynamic Signage Director and related software.

## System Requirements for Cisco Vision Dynamic Signage Director Release 5.0

**Table 6 Product IDs in Cisco Vision Dynamic Signage Director for Software Licenses**

Product ID	Description
R-SV-DR-DR-DIR-SW-K9	Cisco Vision Dynamic Signage Director server software license.
L-SV-DR-DR-DISP-FSV	Cisco Vision Dynamic Signage Director Display License (SV-4K & DMP-2K) <sup>1</sup> .
L-SV-DR-DR-ENCODER	Cisco Vision Dynamic Signage Director SV-4K encoder license to support 10 DMPs.
L-SV-DR-DR-LCTRL-IPPS	IP Phone service per IP phone.
L-SV-DR-DR-LCTRL-WEB	License per device for third-party products that use the web control API.
L-SV-DR-DR-LOCAL	Localization license per non-English language support.

1. If you are upgrading from a Cisco DMP 4310G to the new display license for the SV-4K or DMP-2K, a discount might apply. Contact your Cisco Systems sales representative for more information.

## Platform 3 Server Support

[Table 7 on page 11](#) describes the Cisco Vision Dynamic Signage Director server hardware and software supported and tested in Cisco Vision Dynamic Signage Director Release 5.0.

**Note:** [Table 8 on page 12](#) identifies minimum tested versions of CIMC/BIOS with Cisco Vision Dynamic Signage Director. These should not be interpreted as the required versions that you must run. As long as your server CIMC/BIOS firmware is at this minimum tested version or later, no change is required to operate Cisco Vision Dynamic Signage Director.

The table also documents the latest firmware versions that are currently available for download and have been successfully tested in Release 5.0.

**Table 7 Supported Cisco Vision Dynamic Signage Director Hardware and Software in Release 5.0**

Hardware Product ID	Minimum Software Version Supported	Minimum Tested CIMC/BIOS Firmware <sup>1</sup>	Other Tested CIMC/BIOS Firmware
SV-DR-DIRECTOR-K9 <sup>2</sup>	<p>Cisco Vision Dynamic Signage Director Release 5.0.0-526</p> <p>Minimum upgrade path: 4.1.0-508 (SP1)</p> <p>For details about all supported upgrade paths, see the <a href="#">Upgrade Paths, page 37</a>.</p>	<p>Cisco UCS Server Firmware versions:</p> <p>BIOS-1.5.1g.0</p> <p>CIMC-1.5(11)</p>	<p>Cisco UCS Server Firmware versions:</p> <p>BIOS-2.0.8(0)</p> <p>CIMC-2.0(8d)</p>

1. Unless there is another reason why an upgrade has been found to be needed, no upgrade should be needed if your server firmware is at the minimum tested version (or later) for the Cisco Vision Dynamic Signage Director release that you are running.
2. This product ID includes both the hardware platform and the Cisco Vision Dynamic Signage Director software.

**Note:** For more information about verifying and upgrading the Cisco UCS Server firmware on the Platform 3 server, see [“Appendix C: CIMC Configuration and Firmware Upgrade Guidelines on the Cisco UCS C220 Server”](#) in [Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director \(StadiumVision Director\) Release 5.0](#).

## Virtualized Server Environment Support

Cisco Vision Dynamic Signage Director is designed to run in a modern virtual machine (VM) environment, such as VMware's vSphere. You can use another Cisco device or third-party server to run the Cisco Vision Dynamic Signage Director software.

Follow the requirements in this section to be sure that your virtual environment meets the minimum and tested specifications.

This section includes the following topics:

- [Minimum Virtual Machine System Requirements for Cisco Vision Dynamic Signage Director, page 12](#)
- [VMware vSphere Tested Versions for Cisco Vision Dynamic Signage Director, page 13](#)
- [Restrictions for Virtual Server Support, page 13](#)

### Minimum Virtual Machine System Requirements for Cisco Vision Dynamic Signage Director

Be sure that your configuration meets the minimum system requirements in [Table 8 on page 12](#) and supports a VMware virtual machine environment with a compatible vSphere version (See [VMware vSphere Tested Versions for Cisco Vision Dynamic Signage Director, page 13](#).)

**Note:** Cisco Vision Dynamic Signage Director servers are meant to be physically located close to the DMPs that they operate with, and communicating to the players over a LAN. For information about installation-related licensing compliance, see the [Installation Requirements for Licensing Compliance, page 36](#).

**Table 8 Minimum System Requirements for the Cisco Vision Dynamic Signage Director Server in a Virtualized Environment**

System Component	Minimum Requirement
Processor	Two processors each equivalent to an Intel Xeon Processor E5-2640 (15 MB cache, 2.50 GHz clock, 7.20 GT/s Intel® QPI)
Forward write (fwrite) operations per second	10,000
Virtual CPUs <sup>1</sup>	24
Virtual Disk Space	900 GB
Virtual RAM (VRAM)	32 GB <sup>2</sup>

1. Hyperthreading can be used. Be sure that the BIOS is properly configured to enable it.
2. 32 GB is the minimum VRAM that should be reserved for installation and operation of the Cisco Vision Dynamic Signage Director system. Additional storage should be allowed for the ESXi OS.

[Table 9 on page 12](#) provides additional information about the tested VM hardware and OS specifications that you should use when configuring a virtual machine to support Cisco Vision Dynamic Signage Director.

**Table 9 Virtual Machine Hardware and OS Specifications Tested for Cisco Vision Dynamic Signage Director Server**

System Component	Specification
VM Hardware	Version 8
Guest Operating System	Red Hat Enterprise Linux 5 (64-bit)
Network Adapter	E1000
SCSI Controller	LSI Logic Parallel or LSI Logic SAS
Disk Provisioning	Thick

## System Requirements for Cisco Vision Dynamic Signage Director Release 5.0

### VMware vSphere Tested Versions for Cisco Vision Dynamic Signage Director

Cisco Vision Dynamic Signage Director has been tested with VMware vSphere Version 5.5 using the minimum requirements described in [Table 8 on page 12](#). Other versions should work, but they have not been tested.

**Note:** Any VMware license that does not allow your virtual machine to be set to the minimum requirements described in [Table 8 on page 12](#) is not supported.

For more information about installing Cisco Vision Dynamic Signage Director servers, see [Cisco Vision Software Installation Guide: Dynamic Signage Director \(StadiumVision Director\) Release 5.0](#).

### Restrictions for Virtual Server Support

Be sure that you consider the following restrictions before you configure a virtual server environment for Cisco Vision Dynamic Signage Director:

- Migrating to a virtual environment on your existing Platform 2 or Platform 3 servers is not supported. For more information, see the [Important Migration and Upgrade Notes, page 36](#).
- When using a virtual server environment, Cisco Technical Support only provides support for the Cisco Vision Dynamic Signage Director software. No support is provided for third-party hardware or the virtual OS environment installed by the customer.
- The required configuration is for a dual virtual server environment to support a primary and backup server using the standard Cisco Vision Dynamic Signage Director backup/restore and failover tools.
- Cisco has not tested and does not provide support for any VMware tools in a Cisco Vision Dynamic Signage Director system. If your site chooses to use backup, recovery or other tools outside of the Cisco Vision Dynamic Signage Director software to manage your virtual servers, then you accept the risks and responsibility associated with securing your data.

### Cisco Vision Dynamic Signage Director Remote Server Support

**Note:** Cisco Vision Dynamic Signage Director Remote is supported by the Cisco DMP 4310G only.

You can use your own server or install a Cisco UCS C22 server<sup>1</sup> to run the Cisco Vision Dynamic Signage Director Remote software. Be sure that your configuration meets the minimum system requirements in [Table 10 on page 14](#) and supports a VMware virtual machine environment with a compatible vSphere version (See [VMware vSphere Tested Versions for Cisco Vision Dynamic Signage Director Remote, page 14](#).)

**Note:** Cisco Vision Dynamic Signage Director Remote servers are meant to be physically located close to the DMPs that they operate with, such as at the remote venue edge, and communicating to the players over a LAN. For information about installation-related licensing compliance, see the [Installation Requirements for Licensing Compliance, page 36](#).

1. The Cisco UCS C22 server has reached End-of-Sale.

## System Requirements for Cisco Vision Dynamic Signage Director Release 5.0

## VMware vSphere Tested Versions for Cisco Vision Dynamic Signage Director Remote

**Table 10 Minimum System Requirements for the Cisco Vision Dynamic Signage Director Remote Server**

System Component	Minimum Requirement
Hard Drive Capacity	300 GB  The hard drives must be configured as a single logical volume. A RAID volume is strongly recommended.
Processor	Single processor equivalent to an Intel Xeon Processor E5-2420 (15 MB cache, 1.90 GHz clock, 7.20 GT/s Intel® QPI)
Virtual RAM (VRAM)	16 GB

Cisco Vision Dynamic Signage Director Remote has been tested with VMware vSphere Version 5.5 using the minimum requirements described in [Table 10 on page 14](#). Other versions should work, but they have not been tested.

## Cisco Vision Headend Support

[Table 11 on page 14](#) describes the Cisco Vision Dynamic Signage Director headend hardware and software supported in Cisco Vision Dynamic Signage Director Release 5.0.

**Table 11 Supported Cisco Vision Dynamic Signage Director Headend Hardware and Software**

Hardware Device	Software Version
Core/Distribution and Access Layer Switches	
For the most up-to-date information, refer to the Recommended Equipment Lists documented in the <a href="#">Cisco Vision Dynamic Signage Solution Operation and Network Requirements</a> (available to qualified Cisco StadiumVision partners).	
Cisco Atlas MKII Digital Terrestrial Receiver	<b>Note:</b> This device is EOS/EOL and is replaced by the Cisco 9887B DVB-T Digital Terrestrial Receiver.
DVEO TLV 400 DVB-T2 Digital Terrestrial Receiver	The release that ships with the device is recommended.  <b>Note:</b> Other DVEO demodulators/receivers models might be recommended depending on the requirements of the customer.
Cisco D9094 HD Encoder	<b>Note:</b> This device is EOS/EOL and is replaced by the Cisco D9096 encoder.
Cisco D9096 4:2:2 10-Bit AVC Encoder (HD and SD encoder) <sup>1</sup>	2.0.1.3 (build 25.0.5)—Currently shipping with all new hardware and the <i>only</i> qualified SV release.  <b>Note:</b> Do <i>not</i> use any firmware versions other than the specific build qualified here. Also, <i>do not</i> downgrade any 2.0.1.3 release to 2.0.0.0 or any other release.  <b>Note:</b> Non-upgradable hardware PID D9096-1C8-NU-K9 is EOS/EOL.
Cisco D9854 Advanced Program Receiver (DVB-S/S2/Satellite receiver)	The release that ships with the device is recommended.  <b>Note:</b> This is one of the replacements for the EOS/EOL of the DCM DVB-S/S2 2-Port Receiver module for low-density implementation for DVB-S2/Satellite reception.
Cisco D9858 Advanced Receiver Transcoder (MPEG-4 to MPEG-2 HD transcoder)	R3.96  <b>Note:</b> This product is now EOS/EOL and is replaced by the Cisco D9859.

**Table 11 Supported Cisco Vision Dynamic Signage Director Headend Hardware and Software (continued)**

Hardware Device	Software Version
Cisco D9859 Advanced Receiver Transcoder (MPEG-4 to MPEG-2 HD transcoder) <sup>2</sup>	The release that ships with the device is recommended.
Cisco D9887B HDTV Modular Receiver	<p>6.3.2 and later</p> <p><b>Note:</b> This product is used for DVB-T reception only and is no longer used for 8VSB. The 8-Port DCM DRD 8VSB Receiver module is recommended for ATSC/8VSB Demodulation in North America.</p> <p><b>Note:</b> This product is EOS/EOL and replaced by the third-party product Sencore MRD 4400.</p>
Cisco DCM Series D9900 Digital Content Manager (DCM) (MKI chassis)	<ul style="list-style-type: none"> <li>■ 8.01.86 and later</li> <li>■ 16 GB Flash—8.7.0 and later</li> </ul> <p><b>Note:</b> DCMs with only 1G flash do not support releases past 8.1.86 and will need a Flash card upgrade to 16G to upgrade past DCM release 8.1.86. DRD DVB-S2 cards require DCM 9.1.x and later.</p> <p><b>Note:</b> This device is EOS/EOL and is replaced by the Cisco D9902 DCM.</p>
Cisco DCM Series D9902 Digital Content Manager (MKII chassis)	<p>16 GB Flash—10.0 and later</p> <p><b>Note:</b> The DCM 9902 uses the MKII Chassis instead of the MKI used in the replaced Cisco DCM 9900.</p> <p><b>Note:</b> The existing MKI DVB-S/S2 Satellite receiver modules and the 8-VSB Terrestrial receiver modules are compatible with the MKII.</p>
Cisco DCM 8-Port 8-VSB/ ATSC/ Off-Air Receiver Module <sup>3</sup>	<p>DCM Release 8.01.86 (minimum version)</p> <p><b>Note:</b> DCM Release 8.07.00 is recommended, and the operations of the 8-VSB receiver modules on the DCM require 16 GB Flash. This is used only in North America for Terrestrial/Off-Air reception.</p> <p><b>Note:</b> The Cisco DCM 4-Port 8-VSB receiver module for ATSC/Off-Air/Terrestrial reception used in North America will be EOL/EOS by April 2014. The replacement is the Cisco DCM 8-Port 8-VSB ATSC Terrestrial receiver module.</p> <p>The Cisco DCM 8-VSB modules are compatible with both the DCM MKI and MKII Chassis.</p>

**Table 11 Supported Cisco Vision Dynamic Signage Director Headend Hardware and Software (continued)**

Hardware Device	Software Version
Cisco 4-Port DVBS/S2 Satellite Receiver Module <sup>4</sup>	DCM Release V9.10.00 and later  <b>Note:</b> The Cisco DCM 2-port DVB-S/S2 receiver modules are EOS/EOL and are replaced by the DCM 4-port DVB-S/S2 receiver module for high density implementation.  <b>Note:</b> The Cisco D9854 is the replacement for low-density implementations of DVB-S2/Satellite reception.  This module is compatible with both the Cisco DCM D9900 (MKI) and Cisco DCM 9D902 (MKII) chassis.
Cisco RF Gateway 1 (QAM modulator)	The release that ships with the device is recommended.
Cisco Spectra QAM Demodulator	<b>Note:</b> This device is EOS/EOL and is replaced by the DVEO DVB-C Digital QAM Receiver.  The selection of modules/part numbers recommended for DVB-C clear QAM demodulation is per-DVEO discretion for each customer specification and could change.
DVEO TLV 400 DVB-C Digital QAM Receiver <sup>5</sup>	The release that ships with the device is recommended.  <b>Note:</b> The selection of modules/part numbers recommended for DVB-C clear QAM demodulation is per-DVEO discretion for each customer specification and could change.
DVEO OnRamp Analog Terrestrial Receiver–MPEG-2 output	The release that ships with the device is recommended.
DVEO GearBox Analog Terrestrial Receiver–MPEG-4 output	The release that ships with the device is recommended.
Fujitsu IP-9610 (Live encoder)	The release that ships with the device is recommended.  <b>Note:</b> This encoder is intended for use in Japan, where the Cisco D9096 is not supported.
Scientific Atlanta Titan S2 DVB-S2 Digital Satellite Receiver	Software Version V02.01.03  Hardware Version F02 Bootloader Version V03.01.42528  <b>Note:</b> This device has reached EOS/EOL and is replaced by the Cisco DCM 4-Port DVB-S/S2 Receiver Module.
Technicolor COM100 with COM24 cards	ST02.00.3 or later (to support 3D or sonic Tap)
Technicolor COM200 with COM24 cards	ST02.00.3 or later

1. The Cisco D9096 4:2:2 10-Bit AVC Encoder is the replacement for the Cisco D9094 HD Encoder. It is supported globally in all countries except Japan.
2. The Cisco D9859 Advanced Receiver Transcoder is the replacement for the Cisco D9858.
3. The Cisco DCM 8-VSB ATSC Off-Air Reception Module is the replacement for the Cisco D9887 HDTV Modular Receiver for North American ATSC implementations only.
4. The Cisco 4-Port DVBS/S2 Satellite Receiver Module is the replacement for the Cisco Titan DVB-S2 Digital Receiver and Cisco Indus MK II Transport Stream Descrambler.
5. The DVEO TLV 400 DVB-C Digital QAM Receiver is the replacement for the Cisco Spectra QAM Demodulator.



## Cisco Unified Communications Support

Cisco Vision Dynamic Signage Director supports the Cisco Unified IP Phone 7975G and 9971 models.

### Cisco Unified IP Phone 7975G

[Table 12 on page 17](#) lists the combinations of Cisco Unified Communications Manager (CUCM) and firmware for the Cisco Unified IP Phone 7975G that were tested for compatibility with Cisco Vision Dynamic Signage Director Release 5.0.

**Table 12 Tested Cisco Unified Communications Compatibility for the IP Phone 7975G**

CUCM Version	Cisco Unified IP Phone Firmware
11.5(1)	9.3(1)
10.5(2)	9.3(1)

### Cisco Unified IP Phone 9971

[Table 13 on page 17](#) lists the combinations of Cisco Unified Communications Manager (CUCM) and firmware for the Cisco Unified IP Phone 9971 that were tested for compatibility with Cisco Vision Dynamic Signage Director Release 5.0.

**Table 13 Tested Cisco Unified Communications Compatibility for the IP Phone 9971**

CUCM Version	Cisco Unified IP Phone Firmware
11.5(1)	9.4(2)
10.5(2)	9.4(2)

**Note:** Although not all combinations have been tested, earlier maintenance versions of CUCM are also likely to work with Cisco Vision Dynamic Signage Director Release 5.0. Avoid trying to use any major version other than 10.5 or 11.5.

## Commerce Integration Systems Support

[Table 14 on page 17](#) provides information about the hardware and software for third-party commerce integration systems that have been tested with Cisco Vision Dynamic Signage Director Release 5.0.

**Table 14 Tested Commerce Integration Systems Compatibility**

Hardware Device <sup>1</sup>	Software Version
Micros 9700 Enterprise Management Console	3.60.380
Micros 9700 Suites Management Application	1.0
Micros 9700 Content Manager	1.01

**Table 14 Tested Commerce Integration Systems Compatibility (continued)**

Hardware Device <sup>1</sup>	Software Version
Quest Venue Manager <sup>2</sup>	1.5.157 Build 2 2.0.1 Build 1 (new version for 4.0)
Quest Suite Catering Module <sup>2</sup>	1.5.157 Build 2

1. For supported hardware configuration, contact Micros or for Quest software, NCR Corporation.
2. Quest Venue Manager and Quest Suite Catering Module software are now owned by NCR Corporation.

## Media Controller Systems Support

[Table 15 on page 18](#) provides information about the hardware and software for third-party media controller systems that have been tested to support the External Event Trigger feature in Cisco Vision Dynamic Signage Director Release 5.0.

**Table 15 Tested Media Controller Systems Compatibility**

Hardware Device	Minimum Firmware Version	Custom Software Module <sup>1</sup>
Crestron Room Media Controller (QM-RMC)	4.001.1012	Cisco_StadiumVision_Alert_Trigger-v2.spz

1. Available to certified Crestron integrators through Crestron.

**Note:** To support the Crestron Room Media Controller with Cisco Vision Dynamic Signage Director it requires that you work with a Crestron reseller to install the appropriate software on the QM-RMC.

## Touch Screen Devices and Controller Support

**Note:** Touch screens are only supported by the Cisco DMP 4310G media player in Cisco Vision Dynamic Signage Director.

Cisco Vision Dynamic Signage Director supports a limited number of touch screen drivers for the Cisco DMP 4310G. To ensure compatibility of your devices, contact your Cisco Systems sales representative.

See the [“How to Enable a DMP for Touch Screen Control”](#) task note for more information about how to configure this support.

## TV Qualification for HDMI CEC Control of TV Power On/Off

**Note:** HDMI CEC TV control is supported by the SV-4K and DMP-2K only.

Release 5.0 introduces support for the universal TV power on/off HDMI CEC command. All HDMI CEC TVs should support this command. However, there can be variance in TV models so test the TV models that you plan to install for this support.

Table 16 on page 19 identifies the TV brands and models that have been *tested* for support of HDMI CEC Power On, Standby (Power Off), and Power Status control in Cisco Vision Dynamic Signage Director Release 5.0.

**Note:** The tested TVs listed do *not* reflect all of the possible TV models that can work with Cisco Vision Dynamic Signage Director.

**Table 16 Tested TVs for Support of HDMI/CEC Power On, Standby, and Power Status Control**

TV Brand	Model
LG	24LF4820 <sup>1</sup> <b>Note:</b> LG does not support putting a TV in Standby through CEC.
Philips	22PFL4507 <sup>2</sup>
Samsung	UN40JU6500
Sony	KLV-28R412B

1. If the TV is put into Standby (using TV remote), HDMI auto-detection status for TV health reporting in the Management Dashboard fails.
2. Philips model 24PFL4571/V7 supports Power On CEC control only. Standby and Power Status are not supported.

For more information about how to configure HDMI CEC, see [TV Control Using HDMI CEC for SV-4K and DMP-2K Media Players, page 27](#).

## Unsupported Hardware in Cisco Vision Dynamic Signage Director Release 5.0

The following hardware products are not in Cisco Vision Dynamic Signage Director Release 5.0:

- Platform 2 Server (SV-DIRECTOR-K9 or SV-PLATFORM2=)

## Security Information and Advisories for Cisco Vision Dynamic Signage Director Release 5.0

**Note:** These release notes do not qualify any specific details about possible security issues for your Cisco Vision Dynamic Signage Director network or products, and do not call attention to all possible relevant security information.

For the most up-to-date information about different levels of security information for Cisco Systems products, go to:

<http://tools.cisco.com/security/center/home.x>

## API Summary

Release 5.0 introduces support for video replay control on suite TVs in the [User Control API Enhancement, page 34](#).

For information about supported APIs, see the “[Introduction to Cisco StadiumVision Director APIs](#)” section of the [Release 4.1 and Later 5.0 Releases: Cisco StadiumVision Director Operations Guide](#).

## Feature Summary by Media Player Model

Table 17 on page 20 provides a summary of the software features supported in Cisco Vision Dynamic Signage Director Release 5.0 by media player model.

**Table 17 Software Feature Map**

Cisco Vision Dynamic Signage Director Feature	SV-4K	DMP-2K	DMP 4310G
4K Local Video	<b>Yes</b>	No	No
2.1 AC3/AC3+ (Dolby Digital audio decode)	<b>Yes</b>	<b>Yes</b>	No
Auto-Registration	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Bulk Administration Tool (BAT)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Cisco Vision Dynamic Signage Director Remote Server	No	No	<b>Yes</b>
Closed Caption	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Command Center Monitoring	<b>Yes</b>	<b>Yes</b>	<b>Yes</b> <sup>1</sup>
Content Replacement <sup>2</sup>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Content Synchronization (between same media player models only)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b> <sup>3</sup>
Custom Applications using GAR	No	No	<b>Yes</b>
Custom Fonts (through Software Manager)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dual Video Regions	<b>Yes</b>	<b>Yes</b>	No
External Content Integration	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Event Script Scheduler	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Flash Content	No	No	<b>Yes</b>
Group/Zone Configuration	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
HDMI-In as a Video Source	<b>Yes</b>	No	No
Luma key support for second video region	<b>Yes</b>	<b>Yes</b>	No
Management Dashboard Commands <sup>4</sup>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Management Dashboard Firmware configuration	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Management Dashboard Model Filtering	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Management Dashboard Monitoring	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Multicast Video Scaling <sup>5</sup>	<b>Yes</b>	<b>Yes</b>	No
Network Time Protocol (NTP) configuration	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Portrait Mode content renditions <sup>5</sup>	<b>Yes</b>	<b>Yes</b>	No
POS Integration with Dynamic Menu Board (DMB) GAR application	No	No	<b>Yes</b>
POS Integration with DMB Using Widgets	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Precision Time Protocol (PTP) configuration	<b>Yes</b>	<b>Yes</b>	No
Proof of Play (PoP)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Proxy device support	No	No	<b>Yes</b>
Self-Service Content (SSC)	No	No	<b>Yes</b>
Suite Ordering	No	No	<b>Yes</b>
Ticker (legacy) from Control Panel Setup	No	No	<b>Yes</b>
Ticker (RSS in External Content Integration)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Touchscreen	No	No	<b>Yes</b>

## Internationalization and Localization

**Table 17 Software Feature Map (continued)**

Cisco Vision Dynamic Signage Director Feature	SV-4K	DMP-2K	DMP 4310G
TV Control using RS-232 and IR Remote	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
TV Control using HDMI CEC <sup>5</sup>	<b>Yes</b>	<b>Yes</b>	No
Video Encoding as a Channel	<b>Yes</b>	No	No
Video Streaming through HDMI-Out	<b>Yes</b>	No	No
Video Upload Support for Files Up to 4 GB in Size <sup>5</sup>	<b>Yes</b>	<b>Yes</b>	No <sup>6</sup>
Widgets tool	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
WiFi support <sup>5</sup>	<b>Yes</b>	No	No

1. Status monitoring is available in CCM for the Cisco DMP 4310G. However, the Thumbnail view (where CCM displays a snapshot of content playing on the DMP) is not supported.
2. Content replacement for the SV-4K and DMP-2K is only supported through an update of the playlist. Performing content replacement from the Control screen using the content replacement icon is not supported.



3. The Cisco DMP 4310G does not support PTP. Therefore, there will be more variance across these DMPs when playing the same video file.
4. The SV-4K and DMP-2K support a subset of original Dashboard commands. See the “Appendix: Management Dashboard Commands for the SV-4K Player” in the [Cisco StadiumVision SV-4K and DMP-2K Media Player Deployment Guide](#).
5. Introduced in Cisco Vision Dynamic Signage Director Release 5.0.
6. Although you can upload video files up to 4 GB in size in Cisco Vision Dynamic Signage Director Release 5.0, the Cisco DMP 4310G does not support files larger than 2 GB.

## Internationalization and Localization

**Caution:** A Cisco Vision Dynamic Signage Director system that is using language support from Release 4.1, will lose that support when first upgraded to Release 5.0, until language packs for the new release are available and installed.

### Internationalization (i18n)

Internationalization (known as *i18n*) support refers to the software infrastructure that is designed to accommodate multiple language translations (localization) without requiring additional engineering changes to that software.

The Cisco Vision Dynamic Signage Director Release 5.0 software supports i18n for the following general areas of the solution:

- Control Panel
- Dynamic Menu Board application
- Management Dashboard
- IP Phone user interface
- Software Manager

## Internationalization and Localization

- TV user interface

## Localization (L10n)

Localization (known as *L10n*) refers to the implementation of the specific regional language translation support within a software interface that has been designed for i18n. English is the default language.

**Note:** Certain locales are not supported, such as right-to-left languages.

## Language Packs for Localization

**Note:** Language packs are release-specific. They are not available with the initial release of Cisco Vision Dynamic Signage Director Release 5.0. You can install available language packs for Release 5.0, after you have installed or upgraded to Release 5.0, and when the 5.0 version of the language pack for the desired language is available.

**Caution:** A Cisco StadiumVision Director system that is using language support from Release 4.1 will lose that support when first upgraded to Release 5.0, until language packs for Release 5.0 are available and installed.

Cisco Vision Dynamic Signage Director Release 5.0 provides the flexibility to upload and install only the specific language(s) that you want to support through the independent installation of Language Packs. The upload and installation of the language packs is performed using the Software Manager from the Cisco Vision Dynamic Signage Director main menu. For more information about how to install language packs, see the [Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director Release 5.0](#).

The supported languages in Cisco StadiumVision Director Release 5.0.0-421 (SP1) and later are:

- Deutsch (de\_DE)
- English (en\_US). This is the default locale in all Cisco Vision Dynamic Signage Director releases.
- French (fr\_FR)
- Japanese (jp\_JN)
- Portuguese (pt\_BR)
- Russian (ru\_RU)
- Simplified Chinese (zh\_CN)
- Spanish (es\_ES)
- Swedish (sv\_SE)
- Traditional Chinese (zh\_TW)
- Turkish (tr\_TR)

For more information about requirements and restrictions in configuring localization in Cisco StadiumVision Director, including IP phone support, see the [Cisco StadiumVision Director Localization Guide](#).

## Translated User Documents

Available versions of translated end-user documents for Cisco Vision Dynamic Signage Director can be found at:

<http://www.cisco.com/c/en/us/support/video/stadiumvision/tsd-products-support-translated-end-user-guides-list.html>

## New and Changed Information in Cisco Vision Dynamic Signage Director Release 5.0

This section describes new features, enhancements and changes in support or behavior in Cisco Vision Dynamic Signage Director Release 5.0. It includes the following sections:

- [Automatic Proof of Play Export, page 23](#)
- [Media Player Enhancements and Information, page 24](#)
- [User Control API Enhancement, page 34](#)

### Automatic Proof of Play Export

#### WHAT IS IT

A Proof of Play (PoP) enhancement that automatically exports the Summary and Detailed PoP data (in CSV format) to a designated server using Secure FTP (SFTP) or Secure HTTP (HTTPS)—if you have enabled PoP for a script. You can verify the status of the export function under the new “Transmitted” column on the Control Panel Proof of Play screen. A green icon means the data has been transmitted; red means it failed.

**Note:** When automatic PoP export is enabled, the standard PoP reporting features remain available in Cisco Vision Dynamic Signage Director Release 5.0.

#### WHY USE IT

When you want to use another tool or application to consume the PoP CSV data from Cisco Vision Dynamic Signage Director.

**WHERE TO CONFIGURE IT**

Automatic PoP Export is disabled by default. You must enable the feature globally and configure the corresponding common and protocol-specific properties. PoP must also be enabled for a script for the automatic export to occur.

**Figure 1 Proof of Play Common Settings to Enable Automatic Export of PoP Data**

The screenshot displays the Cisco Vision Dynamic Signage Director Management Dashboard. The left sidebar shows a navigation tree under 'Dynamic Signage Director Configuration' with 'PoP Export Settings (3)' expanded to show 'Common Settings', 'HTTPS Settings', and 'SFTP Settings'. The main content area shows the 'Dynamic Signage Director Configuration' table with the following properties and values:

Configuration Property	Value
Enable Auto Upload	false
Delay Auto Upload(in sec)	30
Pop Upload Retry Count	3
Max Pop Upload Retry Count	50
Enable Compressed Report	false
File Transfer Protocol	sftp
Destination User Name	
Destination Password	

- After you configure the File Transfer Protocol, you also must configure the corresponding properties for the **HTTPS Settings** or **SFTP Settings** from the PoP Export Settings menu.

**FOR MORE INFORMATION**

See [How to Configure Automatic Proof of Play Export](#)

## Media Player Enhancements and Information

The following media player enhancements are introduced in Cisco Vision Dynamic Signage Director Release 5.0:

- [Multicast Video Scaling for SV-4K and DMP-2K Media Players, page 25](#)
- [Multicast Video Tune-In Timeout Default Value Change, page 25](#)
- [Portrait Mode Content Renditions for SV-4K and DMP-2K Media Players, page 26](#)
- [TV Control Using HDMI CEC for SV-4K and DMP-2K Media Players, page 27](#)
- [WiFi Network Connectivity on the SV-4K, page 28](#)



## Multicast Video Scaling for SV-4K and DMP-2K Media Players

**Note:** Multicast video scaling is supported on the SV-4K and DMP-2K only.

### WHAT IS IT

Cisco Vision Dynamic Signage Director Release 5.0 introduces support for scaling a multicast video region across a video wall display for both portrait and landscape orientation.

*Scaling* refers to support of two things:

1. Stretching of the content.
2. Showing only a portion of the content per display in a multi-screen video wall.

### WHY USE IT

Multicast video scaling is intended for use in video walls.

## Multicast Video Tune-In Timeout Default Value Change

**Note:** Configuration of Multicast Video Tune-In Timeout is supported on the SV-4K and DMP-2K only.

### WHAT IS IT

A change to the Video tune-in timeout default value from 500 ms to 10000 ms (10 seconds) for SV-4K and DMP-2K media players. The default change is made in *new* Cisco Vision Dynamic Signage Director Release 5.0 installations only. The value is used for receiving multicast video information on the network and for DCM failure detection.

### WHY USE IT

Certain venues might encounter network conditions requiring tuning of this multicast video operation.

### WHERE TO CONFIGURE IT

Go to: **Management Dashboard > Dynamic Signage Director Configuration > System Configuration > Global DMP Settings > SV-DMP Common Settings.**

**Note:** After you change and refresh the property value, you must reboot the DMP(s).



Configuration Property	Value
Video coded data buffer size	400000
Audio coded data buffer size	100000
Jitter buffer size	100000
Jitter latency adjust (ms)	100
IP network jitter (ms)	100
Luma key	0xFFFF
<b>Video tune-in timeout</b>	<b>10000</b>
Crash dump URL	-
PTP domain	15
PTP master candidates	15, 1500, 1500, 1500
PTP time-to-live	15
LLDP enabled	true
LLDP delay (seconds)	15
Standard Autorun Log Level	INFO

## Portrait Mode Content Renditions for SV-4K and DMP-2K Media Players

### WHAT IS IT

Portrait mode is a new rendering mode for TV displays controlled by SV-4K or DMP-2K media players. It allows the DMPs to automatically rotate content for proper orientation on vertically-positioned displays.

**Note:** Scaling of content across multiple display screens in portrait mode is only supported for multicast streaming video. See [Multicast Video Scaling for SV-4K and DMP-2K Media Players, page 25](#).

*Scaling* refers to support of two things:

1. Stretching of the content.
2. Showing only a portion of the content per display in a multi-screen video wall.

### WHY USE IT

Use portrait mode for vertical TV displays to auto-rotate content that would otherwise be improperly cut off and displayed sideways with the default landscape orientation.

### WHERE TO CONFIGURE IT

Go to **Control Panel > Setup > Devices > Display Specifications** and select or add your display. In the **Display Parameters** panel, add the “dmp.portrait” command and set it to “true.” Be sure to reboot the DMP.

## New and Changed Information in Cisco Vision Dynamic Signage Director Release 5.0



**Note:** The `sv4k.videoMode` display parameter is unrelated and *is not* a required or expected configuration for use of portrait mode content renditions. In addition, only certain values are supported for `sv4k.videoMode`, and they should not be changed to any other values (See [Cisco Vision Deployment Guide: SV-4K and DMP-2K Media Players](#)). However, your *content* should be designed for 1920 pixels high and 1080 pixels wide. The default template canvas will still show horizontal orientation when you are using portrait mode, but you can add regions that extend beyond the canvas.

## TV Control Using HDMI CEC for SV-4K and DMP-2K Media Players

**Note:** HDMI CEC control is supported on the SV-4K and DMP-2K only.

### WHAT IS IT

New Display Specifications configuration that allows you to control the following three TV functions through HDMI Consumer Electronics Control (CEC):

- Power On
- Standby (Power Off)
- Power Status

When HDMI CEC TV control is enabled, HDMI CEC is used instead of RS-232 for TV control functions. To control TVs, you can run the TV On and TV Off from the **DMP and TV Controls > TV Commands** menu in the **Management Dashboard**.

**Note:** Not all TVs support the standard HDMI CEC commands. It is important that you test the TV models that you plan to install for support of HDMI CEC, and be sure to turn HDMI-CEC on. TV manufacturers refer to CEC by different trade names. (For example: Anynet+ [Samsung], BRAVIA Link [Sony], EasyLink [Phillips], and Simplink [LG]).

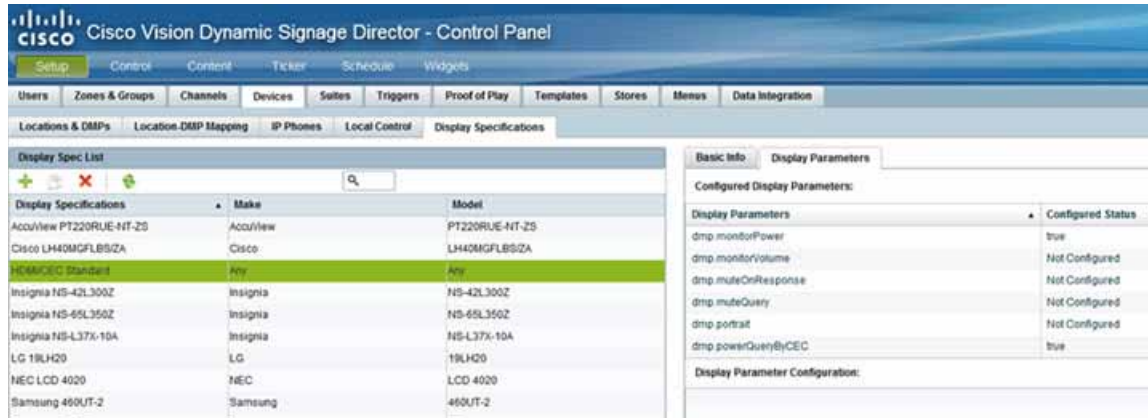
For information about TVs tested successfully for power on, power query, and power status commands, see [TV Qualification for HDMI CEC Control of TV Power On/Off, page 18](#).

### WHY USE IT

When your TV model does not support RS-232 connectivity for TV control, or you prefer to use HDMI/CEC.

## WHERE TO CONFIGURE IT

A new display specification called **HDMI/CEC Standard** is introduced with the HDMI CEC-related display parameters already configured.



You can apply the new HDMI/CEC Standard display specification for new TVs, or you can modify an existing display specification to add the display parameters commands. The following commands are used with HDMI/CEC TV control:

- **dmp.powerQueryByCEC**—(New in Release 5.0) Enables powerQuery to get TV Power status using HDMI/CEC instead of RS-232.
- **Note:** This command is not supported by all TV models, so it is separately configurable.
- **dmp.TVControlbyCEC**—(New in Release 5.0) Enables TV control using HDMI/CEC instead of RS-232.
- **dmp.monitorAPIDelay**—Frequency of power query command sent by Dynamic Signage Director over HDMI CEC to the TV. The default is 120000 ms (2 minutes). This command is also supported when using TV control with RS-232.
- **dmp.monitorPower**—Enables Dynamic Signage Director to run a power query to the TV using the **Get Status** command from the Management Dashboard. This command is also supported when using TV control with RS-232.

**Note:** You can run the **Get Status** command from the **Management Dashboard** to get the latest TV health status known to the DMP. This information can be up to two minutes old, or a few seconds depending on when the power query last ran. If the “dmp.monitorPower” parameter is set to false then you will not get the correct TV health status.

## WiFi Network Connectivity on the SV-4K

### WHAT IS IT

Support for wireless network connectivity to the SV-4K over an 802.11a, 802.11b, or 802.11n wireless network in the Cisco Vision Dynamic Signage Director venue.

**Note:** The wireless network must support multicast traffic for communication over the Cisco Vision Dynamic Signage Director network. However, multicast video is not supported due to bandwidth limitations over a wireless network.

The wireless network SSID and passphrase is configured globally for all SV-4Ks in the system. The SV-4K firmware automatically tries to connect with WEP (if the passphrase is of a suitable length), WPA1 or WPA2.

### WHY USE IT

When you need to deploy SV-4Ks in areas where there is no existing Ethernet cabling, where it is difficult to run cabling, or simply as an alternative to Ethernet network connectivity.

## New and Changed Information in Cisco Vision Dynamic Signage Director Release 5.0

**Note:** For initial deployment of an SV-4K with WiFi connectivity, you will need both a PoE+ network connection in addition to connection of the SV-4K using the DMP power supply adapter. After the DMP is deployed for WiFi, a PoE+ connection is no longer needed for the DMP. In fact, the DMP will not route packets over the WiFi connection while the Ethernet port is connected and operational.

**WHERE TO CONFIGURE IT**

Configuration of SV-4Ks to support wireless network connectivity requires:

- Setting up the WiFi access point and configuring it to receive multicast messages.
- Specifying global SV-4K settings in the Management Dashboard to specify the SSID and passphrase for the wireless network.
- Initially registering the SV-4K with Cisco Vision Dynamic Signage Director using standard SV-4K auto-provisioning over a *wired Ethernet* connection using PoE+.
- Enabling the SV-4K for WiFi connectivity (on a per-DMP basis) in one of the following ways:
  - Control Panel device settings
  - Bulk Administration Tool (BAT)

**Figure 2 SV-4K WiFi Global SSID and WiFi Passphrase Configuration**

**FOR MORE INFORMATION**

- [How to Deploy WiFi Network Connectivity on the SV-4K](#)
- [Cisco Vision Deployment Guide: SV-4K and DMP-2K Media Players](#)

## System Enhancements

The following system enhancements are introduced in Cisco Vision Dynamic Signage Director Release 5.0:

- [Improved DMP Handling of Duplicate DMP IP Addresses, page 30](#)
- [TUI Enhancement: Disk Speed Test, page 30](#)
- [Venue Administrator RBAC Enhancement, page 31](#)
- [Video Upload Support for Files Up to 4 GB in Size, page 34](#)

## Improved Handling of Duplicate DMP IP Addresses

Infinite DHCP leases continue to be recommended for DMP IP address assignments in Cisco Vision Dynamic Signage Director. However, in the case of certain network conditions such as a temporary network problem causing segmentation of clients, or restart of a redundant stateless DHCP server, duplicate IP addresses on your DMPs can occur.

Cisco Vision Dynamic Signage Director Release 5.0 introduces the following behaviors to improve handling of DMPs attempting to register with the same IP address:

- If more than one DMP registers with the same IP address, then the most recent DMP to register is assigned the address. All other DMPs attempting to register with that IP address are set to 0.0.0.0.
- An alert is raised to prevent duplication of an IP address when a new DMP is created through the Management Dashboard or during upload of device data using the Bulk Administration Tool (BAT). However, no alerts occur when IP address reassignments to 0.0.0.0 are made during auto registration.

**Note:** If a static IP address needs to be reassigned to another DMP, and that address is already in the system database, then that IP address must be removed from the current DMP first.

## TUI Enhancement: Disk Speed Test

### WHAT IS IT

A new option called “Disk Speed Test” in the TUI Troubleshooting/Disk Monitoring menu that reports amount of time and rate for a data copy of 1 GB.

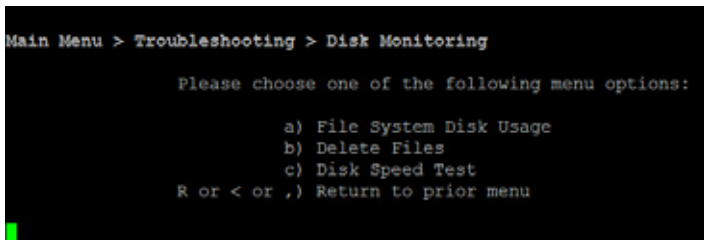
### WHY USE IT

The information from this troubleshooting test might be requested by Technical Support to get more information about disk performance in a virtual environment.

### WHERE TO CONFIGURE IT

Log in to the TUI as installer. Go to: **Main Menu > Troubleshooting > Disk Monitoring > Disk Speed Test** ([Figure 3 on page 31](#)).

**Figure 3 Disk Speed Test TUI Option**



## Venue Administrator RBAC Enhancement

**Note:** New Management Dashboard and CCM functionality is added for the Venue Administrator in Release 5.0.0-526 (SP2).

### WHAT IS IT

The Venue Administrator is a new Role-Based Access Control (RBAC) that provides limited permissions at the venues authorized by the central Administrator for that user, for the following areas of Cisco Vision Dynamic Signage Director:

- Control Panel–Content, Control (Script control and Staging), Schedule.
- Management Dashboard:
  - Release 5.0.0-526 (SP2)–The Venue Administrator can issue all DMP and TV commands.
  - Release 5.0.0-421 (SP1) and earlier releases–Read-only access with limited command support.
- Command Center Monitoring:
  - Release 5.0.0-526 (SP2)–The Venue Administrator can run the Reboot Device command from CCM to restart DMPs.
  - Release 5.0.0-421 (SP1) and earlier releases–Read-only access.
- Setup–Devices (Display specifications only); Read-only access to Zones & Groups, Channels, Luxury Suites.

[Table 18 on page 31](#) summarizes all RBAC permissions by functional area of Cisco Vision Dynamic Signage Director.

**Note:** The official “Administrator” and “Venue Administrator” roles have been abbreviated to “Admin” in the table.

**Table 18 Role Access Summary by Functional Area of Cisco Vision Dynamic Signage Director**

Functional Area	Admin	Concessionaire	Content Manager	Event Operator	Facility Operator	Help Desk	Self-Service Content	Support	Venue Admin	Venue Operator
Command Center Monitoring (CCM)	<b>Yes</b>	–	–	–	–	<b>Read only</b>	–	<b>Read only</b>	<b>Limited<sup>1</sup></b>	<b>Read only</b>
Control Panel/ Setup										
Channels	<b>Yes</b>	–	<b>Yes</b>	–	–	–	–	–	<b>Read only</b>	–

## New and Changed Information in Cisco Vision Dynamic Signage Director Release 5.0

**Table 18 Role Access Summary by Functional Area of Cisco Vision Dynamic Signage Director (continued)**

Functional Area	Admin	Concessionaire	Content Manager	Event Operator	Facility Operator	Help Desk	Self-Service Content	Support	Venue Admin	Venue Operator
Data Integration	Yes	–	Yes	–	–	–	–	–	–	–
Devices	Yes	–	–	–	–	–	–	–	Limited <sup>2</sup>	–
Menus	Yes	–	Yes	–	–	–	–	–	–	–
My Profile	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proof of Play	Yes	–	–	–	–	–	–	–	–	–
Stores	Yes	–	–	–	–	–	–	–	–	–
Suites	Yes	–	–	–	–	–	–	Limited <sup>3</sup>	Read only	–
Templates	Yes	–	Yes	–	–	–	–	–	–	–
Triggers	Yes	–	–	–	–	–	–	–	–	–
Users	Yes	–	–	–	–	–	–	–	–	–
Venues	Yes	–	–	–	–	–	–	–	–	–
Zones & Groups	Yes	–	Yes	Yes	–	–	–	–	Read only	–
<b>Control Panel</b>										
Content	Yes	–	Yes	–	–	–	–	–	Limited <sup>4</sup>	–
Control	Yes	–	–	Yes	–	–	–	–	Limited <sup>5</sup>	Limited <sup>5</sup>
Control /Staging	Yes	–	–	Yes	–	–	–	–	Yes	–
Schedule	Yes	–	Yes	–	–	–	–	–	Yes	–
Ticker (legacy)	Yes	–	Yes	Yes	–	–	–	–	–	–
Widgets	Yes	–	Yes	–	–	–	–	–	–	–
Dynamic Menu Boards	Yes	Yes	Yes	–	–	–	–	–	–	–
Management Dashboard	Yes	–	–	–	–	Limited <sup>6</sup>	–	Yes <sup>7</sup>	Limited <sup>8</sup>	Limited <sup>9</sup>
Scheduler Application	Yes	–	–	Yes	–	–	–	–	–	–
Software Manager	Yes	–	–	–	–	–	–	–	–	–
System State Reports	Yes	–	–	–	–	–	–	–	–	–
TV Off Application	Yes	–	–	Yes	Yes	–	–	–	–	–
SSC Portal <sup>10</sup>	–	–	–	–	–	–	Yes	–	–	–

1. Beginning in Release 5.0.0-526 (SP2), Venue Administrators can run the Reboot Device command from CCM to restart DMPs.

2. Venue Administrators can only edit the Display Specifications panel.

3. Support users can set up TV control PINs and channel guides for suites.



New and Changed Information in Cisco Vision Dynamic Signage Director Release 5.0

4. Venue Administrators can delete content associated (tagged) to the venues for which that venue admin is authorized. External content, channels, and Dynamic Menu Board (DMB) content items are global to all venues. Therefore, these global content items also can be deleted by the venue admin.
5. Venue Administrators and Venue Operators have script control only, and only for venues authorized by the Administrator for that user.
6. Help Desk users can view and monitor information on the Management Dashboard with read-only access. They also can run Get Status, Ping, Display IP, and Ping Test commands for DMPs in the Management Dashboard.
7. Support users can run Get Status, Ping, Display IP, Ping Test, TV On/Off, Set Display Input, Set Display Banner, Set Closed Captions, Set Video Channel, Cabling Test using TDR, and Show TDR Test Results commands.
8. Venue Administrators can view and monitor information on the Management Dashboard with read-only access to the venues for which permissions are granted. They also can run Get Status, Ping, Display IP, and Ping Test commands in the Management Dashboard for the DMPs in the venues at which that Venue Administrator is authorized. Beginning in Release 5.0.0-526 (SP2), Venue Administrators can run all DMP and TV commands.
9. Venue Operators can view and monitor information on the Management Dashboard with read-only access to the venues for which permissions are granted. They also can run Get Status, Ping, Display IP, and Query Syslog commands in the Management Dashboard for the DMPs in the venues at which that Venue Operator is authorized.
10. The SSC portal cannot be accessed directly from the Cisco Vision Dynamic Signage Director main menu or Control Panel. Access to the user-specific portal is opened only by logging into Cisco Vision Dynamic Signage Director as an SSC user.

**WHY USE IT**

Assign the Venue Administrator user role when you want to provide additional visibility and support capabilities beyond that of a Venue Operator on a venue-specific basis. The Venue Administrator has additional read-only access to areas of the UI, in addition to being able to set up Display Specifications.

**WHERE TO CONFIGURE IT**

**Note:** Only the Administrator can define a Venue Administrator role.



1	Go to: <b>Control Panel &gt; Setup &gt; Users</b> and create user with Venue Administrator role.	2	Go to: <b>Control Panel &gt; Setup &gt; Venues</b> and associate venues to the new Venue Administrator user.
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**FOR MORE INFORMATION**

See “[Associating Venues with Cisco Vision Dynamic Signage Director Objects](#)” in the [Cisco Vision Administration Guide: Dynamic Signage Director](#).

## Video Upload Support for Files Up to 4 GB in Size

### WHAT IS IT

A configurable Registry key in the Management Dashboard that allows an administrator to set the maximum allowable video file size for upload by your Cisco Vision Dynamic Signage Director system. The default value is 4 GB (the maximum). Users will be notified if the file exceeds the maximum size at the time of file upload.

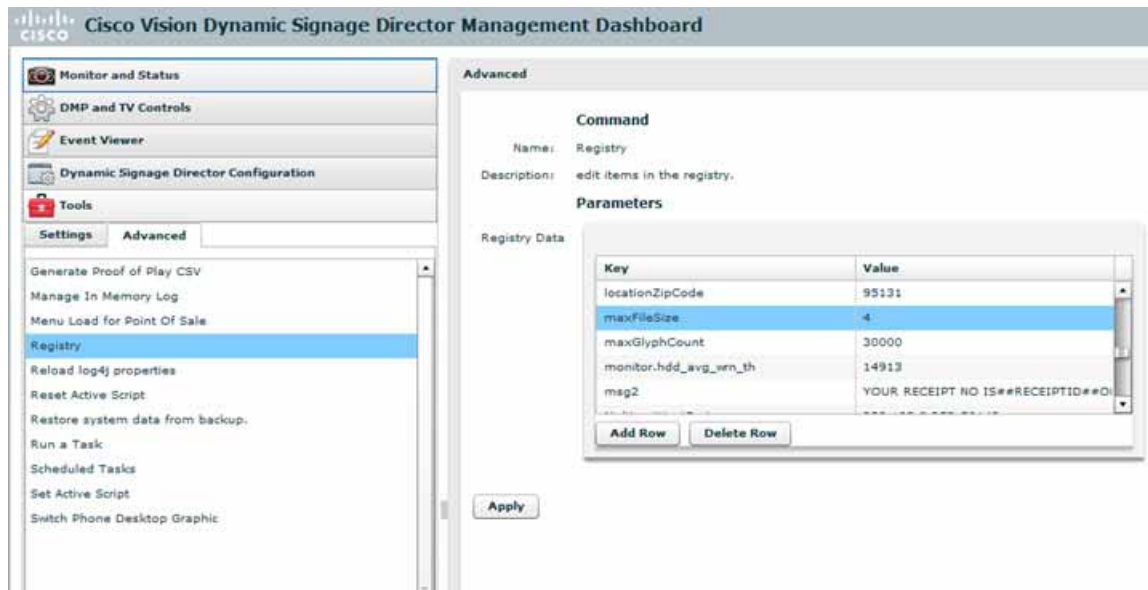
**Note:** Although now you can upload video files up to 4 GB in size to the Cisco Vision Dynamic Signage Director content library, the Cisco DMP 4310G does not support files larger than 2 GB (which is the maximum file upload size in prior releases).

### WHY USE IT

To set a maximum file size from 1-4 GB for videos uploaded and stored in the system, possibly to conserve storage.

### WHERE TO CONFIGURE IT

**Note:** The value must be an integer (in GB units). For example, you can specify a value of “1” but not “1.5.”



## User Control API Enhancement

Beginning in Cisco Vision Dynamic Signage Director Release 5.0, the User Control API is enhanced to support video replay functions on suite TVs using a mobile application.

The API video replay capabilities include:

- Start the replay application.
- Stop the replay application.
- Load the replay application on multiple DMPs or group of DMPs.
- Start playback of the replay video from encoded URL on specified devices.
- Stop playback of the replay video on specified devices.
- Pause playback of currently running replay video.
- Resume playback of currently running replay video.

## User Interface Change Summary

**Note:** Global changes have been made across the UI to reflect the new Cisco Vision Dynamic Signage Director product name.

This section provides an overview of the Cisco Vision Dynamic Signage Director user interface (UI) that have been changed in Cisco Vision Dynamic Signage Director Release 5.0:

- [Control Panel Setup–Devices, page 35](#)
- [Control Panel Setup–Users, page 35](#)
- [Management Dashboard, page 35](#)
- [TUI, page 35](#)

### Control Panel Setup–Devices

Under Display Specifications, the following updates were made:

- The Serial Commands tab is renamed Display Parameters.
- The HDMI/CEC Standard display specification is added.
- The following new Display Parameters are introduced for HDMI CEC TV control:
  - **dmp.powerQueryByCEC**–Enables TVs to be powered on and off using HDMI/CEC.
  - **dmp.TVControlbyCEC**–Enables TV control using HDMI/CEC instead of RS-232.
- The **dmp.portrait** parameter is introduced.

### Control Panel Setup–Users

The Venue Administrator role is added.

### Management Dashboard

- The maxFileSize registry key is added for video upload.
- The following updates were made for the PoP Automatic Export feature:
  - The PofpUploadRetryTask was added.
  - Configuration properties are added to Pofp Export Settings > Common Settings.
- The following updates were made for the SV-4K WiFi feature:
  - Configuration properties are added to the Global DMP Settings > SV-4K Settings.
  - “WiFi Enabled” filter criteria is added.

### TUI

The following TUI menus and options have been renamed for Cisco Vision Dynamic Signage Director:

- StadiumVision Server Administration menu is now Cisco Vision Server Administration.
  - Restart StadiumVision Director Software option is Restart Cisco Vision Dynamic Signage Director software.

## Installation Notes

- Shutdown StadiumVision Director Software option is Shutdown Cisco Vision Dynamic Signage Director software.
- StadiumVision Director Services menu is Cisco Vision Dynamic Signage Director Services.
- Service names have changed from SVD to CVD.

## Installation Notes

This section includes the following installation information:

- [Installation Requirements for Licensing Compliance, page 36](#)
- [Cisco Vision Dynamic Signage Director Remote OVF Deployment, page 36](#)
- [Important Migration and Upgrade Notes, page 36](#)
- [Deployment Guidelines for the SV-4K and DMP-2K Media Players, page 39](#)

## Installation Requirements for Licensing Compliance

To maintain software licensing compliance, Cisco Vision Dynamic Signage Director servers must be installed in the following manner:

- The Cisco Vision Dynamic Signage Director server is installed in a data center or in an enterprise data closet, or the Cisco Vision Dynamic Signage Director software is installed on the customer's choice of hardware that supports a VMware virtualized environment.
- The Cisco Vision Dynamic Signage Director Remote software is installed on the customer's choice of hardware that supports a VMware virtualized environment, or the remote server hardware is installed in a data center or in an enterprise data closet.

## Cisco Vision Dynamic Signage Director Remote OVF Deployment

New installations of the Cisco Vision Dynamic Signage Director Remote Release 5.0.0-7 software are deployed using an Open Virtualization Format (OVF) template and installing a full ISO.

For more information about installation files and upgrade paths, see [Important Migration and Upgrade Notes, page 36](#).

For more information about installing Cisco Vision Dynamic Signage Director Remote, see [Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director Remote Release 5.0](#).

## Important Migration and Upgrade Notes

In this document, the following terminology is used to qualify changes to your Cisco Vision Dynamic Signage Director hardware and software environment:

- Migration—Moving an *existing* Cisco Vision Dynamic Signage Director platform to a new hardware platform in a virtual environment.
- Upgrade—Changing your software version to a newer release on your existing platform.

**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.**

This section includes the following topics:

- [Migration Restrictions, page 37](#)
- [Upgrade Paths, page 37](#)
- [Installation and Upgrade Files, page 38](#)
- [Upgrade Process, page 39](#)

## Migration Restrictions

Migration means moving an *existing* Cisco StadiumVision Director platform to a new hardware platform in a virtual environment. Brand new installations of Cisco Vision Dynamic Signage Director on new platforms in a virtual environment are not considered a migration and are supported.

**Caution:** Migration to a virtual environment on your existing Platform 2 or Platform 3 servers is not supported. For information about migrating from your Platform server to a virtual server environment, see the [“Migrating From Platform 2 Servers to a Virtual Environment”](#) module in the [Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 4.1](#).

## Upgrade Paths

**Note:** Localization support is introduced through the installation of language packs as they become available in Release 5.0.

[Table 19 on page 37](#) and [Table 20 on page 38](#) list the latest upgrade paths for Cisco Vision Dynamic Signage Director Release 5.0, with the supported prerequisite release listed in the “From” column. Software versions prior to Release 4.1 must be upgraded sequentially to the supported 4.1 version before upgrading to Release 5.0.

In general, the supported upgrade paths for Cisco Vision Dynamic Signage Director follow a linear progression. DMP firmware upgrade requirements vary by DMP model and system release. For information about possible DMP firmware upgrades associated with each release, see [Digital Media Player Support, page 8](#).

**Note:** Release 5.0.0-421 (SP1) was the last minimum supported software version for Cisco Vision Dynamic Signage Director. Release 5.0.0-526 (SP2) is a mandatory upgrade from SP1.

### Release 5.0 Upgrade Sequence

5.0.0-123 > 5.0.0-235 > 5.0.0-320 > 5.0.0-421 (SP1) > Release 5.0.0-526 (SP2) > Release 5.0.0-605 (SP3) > Release 5.0.0-709 (SP4) > Release 5.0.0-820 (SP5) > Release 5.0.0-909 (SP6) > Release 5.0.0-1022 (SP7) > Release 5.0.0-1110 (SP8) > Release 5.0.0-1212 (SP9)

**Table 19 Supported Upgrade Paths From Cisco Vision Dynamic Signage Director Release 5.0**

From:	To:
Release 5.0.0-123	Release 5.0.0-235
Release 5.0.0-235	Release 5.0.0-320
Release 5.0.0-320	Release 5.0.0-421 (SP1)
Release 5.0.0-421 (SP1)	Release 5.0.0-526 (SP2)
Release 5.0.0-526 (SP2)	Release 5.0.0-605 (SP3)

**Table 19 Supported Upgrade Paths From Cisco Vision Dynamic Signage Director Release 5.0**

From:	To:
Release 5.0.0-605 (SP3)	Release 5.0.0-709 (SP4)
Release 5.0.0-709 (SP4)	Release 5.0.0-820 (SP5)
Release 5.0.0-820 (SP5)	Release 5.0.0-909 (SP6)
Release 5.0.0-909 (SP6)	Release 5.0.0-1022 (SP7)
Release 5.0.0-1022 (SP7)	Release 5.0.0-1110 (SP8)
Release 5.0.0-1110 (SP8)	Release 5.0.0-1212 (SP9)

**Release 4.1 Upgrade Sequence**

4.1.0-508 &gt; 5.0.0-320

**Table 20 Supported Upgrade Paths From Cisco StadiumVision Director Release 4.1**

From:	To:
Release 4.1.0-508 (SP1)	Release 5.0.0-320

## Installation and Upgrade Files

Cisco Vision Dynamic Signage Director Release 5.0 software is available in different types of files based on the installation or upgrade environment and product.

### ISO Files

ISO files are packaged images that are available in two versions:

- An ISO *full* image—The full ISO file is to be installed only on brand new Cisco Vision Dynamic Signage Director servers that have no prior Cisco StadiumVision Director software version installed.
- An ISO *upgrade* image—The upgrade ISO file is built for processing using the TUI upgrade utility or Software Manager.

**Note:** ISO upgrade images are available for both Cisco Vision Dynamic Signage Director and Cisco Vision Dynamic Signage Director Remote software.

### OVF Files

For new installations, the Cisco Vision Dynamic Signage Director Remote software is delivered as a .zip file (SV-REMOTE\_FULL\_TEMPLATE\_5.0.0-xx-Y.x86\_64.zip) that contains an Open Virtualization Format (OVF) template and full ISO to be installed with a VMware virtual host.

The .zip file contains the following files:

- SV-REMOTE\_FULL\_TEMPLATE\_5.0.0-xx-y.x86\_64-disk1.vmdk—VM disk file (binary)
- SV-REMOTE\_FULL\_TEMPLATE\_5.0.0-xx-y.x86\_64-file1.iso—Full installation file (binary)
- SV-REMOTE\_FULL\_TEMPLATE\_5.0.0-xx-y.x86\_64.mf—Checksum (text)
- SV-REMOTE\_FULL\_TEMPLATE\_5.0.0-xx-y.x86\_64.ovf—XML VM descriptor file (text)

### Software Download

**Note:** You are eligible to obtain information about how to access the Cisco Vision Dynamic Signage Director full ISO file, language packs, or Cisco Vision Dynamic Signage Director Remote OVF zip file after you have purchased the proper licensing. Contact Cisco Technical Support for information about how to download these files.

## Installation Notes

If you have a Cisco CCO account and a contract for software download, you can download the Cisco Vision Dynamic Signage Director upgrade files on the Cisco.com software download site at:

<http://www.cisco.com/cisco/software/navigator.html?mdfid=283479662&i=rm>

## Upgrade Process

Upgrades to Cisco Vision Dynamic Signage Director and Cisco Vision Dynamic Signage Director Remote software are made available using the Software Manager. For more details about upgrades, see the corresponding software installation and upgrade guide for your release.

## Deployment Guidelines for the SV-4K and DMP-2K Media Players

This section includes the following topics:

- [Deployment Guidelines for the SV-4K Media Player, page 39](#)
- [Deployment Guidelines for the DMP-2K Media Player, page 39](#)
- [Firmware Configuration for the SV-4K and DMP-2K Media Player, page 40](#)
- [Firmware Download for the SV-4K and DMP-2K Media Player, page 41](#)

## Deployment Guidelines for the SV-4K Media Player

Before you deploy the SV-4K media player, consider the following guidelines:

- The SV-4K media player has different requirements than the Cisco DMP 4310G, including, but not limited to support of PoE+ for 30W of port power on the Cisco Connected Stadium switch. Be sure that your switch can meet these and the other requirements for deployment of the SV-4K.
- Before you configure the SV-4K for WiFi network connectivity, you must first provision the SV-4K according to the normal auto-registration process to download the required firmware and WiFi credentials over a *hard-wired connection*.

**Caution: If you are upgrading from Release 5.0.0-235 to Release 5.0.0-320, and you have already installed an SV-4K with WiFi enablement, then you must re-provision that SV-4K again over a hard-wired connection so that the WiFi configuration persists. After an upgrade to Release 5.0.0-320, the WiFi configuration for the DMP is preserved.**

For more information, see:

- [Cisco Vision Deployment Guide: SV-4K and DMP-2K Media Players](#)
- [How to Deploy WiFi Network Connectivity on the SV-4K](#)
- [Cisco Vision Dynamic Signage Solution Network Requirements](#) (available to qualified Cisco Vision partners)

## Deployment Guidelines for the DMP-2K Media Player

Before you deploy the DMP-2K media player, consider the following guidelines:

- The DMP-2K has the same requirement as the SV-4K for PoE+ for 30W of port power on the Cisco Connected Stadium switch. Be sure that your switch can meet these and the other requirements for deployment of the device.

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

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



## Installation Notes

- You are using a standard category Category 5e or 6 cable up to 100 m in length.
- Be sure to configure your DHCP server with the corresponding Option 43 and Option 60 strings for the DMP-2K. Use “Cisco DMP-2K” for the Option 60 Vendor Class Identifier string for new DMPs shipped from the factory.

## Firmware Configuration for the SV-4K and DMP-2K Media Player

The SV-4K and DMP-2K media players 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 5.0. The latest updated production firmware is:

6.2.166.2

Figure 4 on page 40 shows the auto-registration configuration that ensures that this required firmware upgrade sequence is automatically preserved for affected media players in the system. Table 21 on page 40 identifies the required firmware properties for Cisco Vision Dynamic Signage Director Release 5.0.

**Caution:** A new production firmware version is required when you upgrade to Release 5.0.0-421 SP1 and later releases. Check the version requirements in section [DMP-2K Media Player, page 8](#) and [SV-4K Media Player, page 9](#). All earlier releases of Cisco Vision Dynamic Signage Director Release 5.0 continue to use firmware version 6.1.96.

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



Table 21 Required Firmware Properties for the SV-4K and DMP-2K in Release 5.0

Release Number	Firmware Property	Value for Release
5.0.0-1022 (SP7) 5.0.0-1110 (SP8) 5.0.0-1212 (SP9)	Firmware image to use (SV-4K, DMP-2K)	DMP-Series2-6.2.166.2.bsfw
	init.version (SV-4K, DMP-2K)	6.2.166.2
5.0.0-709 (SP4) and later	Firmware image to use (SV-4K, DMP-2K)	DMP-Series2-6.2.166.1.bsfw
	init.version (SV-4K, DMP-2K)	6.2.166.1
5.0.0-421 (SP1) and later	Firmware image to use (SV-4K, DMP-2K)	DMP-SV4K-6.1.105.bsfw
	init.version (SV-4K, DMP-2K)	6.1.105



## Limitations and Restrictions

**Table 21 Required Firmware Properties for the SV-4K and DMP-2K in Release 5.0**

Release Number	Firmware Property	Value for Release
5.0.0-320 (and earlier)	Firmware image to use (SV-4K, DMP-2K)	DMP-SV4K-6.1.96.bsfw
	init.version (SV-4K, DMP-2K)	6.1.96
All 5.0 Releases	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.  <b>Note:</b> Contact your Cisco Systems representative for information about how to obtain the 5.1.68.1 firmware.
All 5.0 Releases	base.version (SV-4K, DMP-2K)	5.1.68.1

## Firmware Download for the SV-4K and DMP-2K Media Player

The SV-4K and DMP-2K 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 SV-4K and DMP-2K Production Firmware

**To download the SV-4K and DMP-2K production firmware, go to:**

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

## Downloading the SV-4K and DMP-2K Base Firmware

If you do not already have the required base firmware version 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 partners.

## Limitations and Restrictions

When using Cisco Vision Dynamic Signage Director Release 5.0, be aware of the following limitations and restrictions:

**Caution: Proof of play raw data repository in /var/sv/pofp/raw directory is not part of the backup process. In normal operation, a completed script with a green dot already has a copy of the raw data and is part of the backup data. No further action is needed aside from generating the PoP report. For completed scripts that do not have a green dot, it is very important to investigate or call for support within 60 days of the event, after which time the PoP messages in the raw directory will be deleted.**

- If you have previously accessed a different Cisco StadiumVision Director version on your computer, sometimes unexpected behavior or warnings arise, or you might access an older version of the interface. In this case, and especially after an upgrade, you must clear your browser cache.
- The first release of Cisco Vision Dynamic Signage Director Release 5.0 implements the infrastructure only to support i18n and L10n to support the independent installation of other language packs with Cisco Vision Dynamic Signage Director Release 5.0 as they become available. Language support for Release 5.0 is introduced in Release 5.0.0-421. See the “[Language Packs for Localization](#)” section on page 20.
- Cisco Vision Dynamic Signage Director does not support internationalization for back-end messaging.

## Important Notes

- Non-English characters are not supported as a Cisco Vision Dynamic Signage Director login credential.
- Multi-user support in Cisco Vision Dynamic Signage Director is limited to script editing only. No other Control Panel functions for templates, zones, groups, and playlists support a multi-user environment, and these areas can be deleted by other users. However, users are notified about potential impact due to currently locked scripts and are prompted for confirmation of deletion and given an option to use instant messaging to coordinate with the script owner.
- No more than 10 user sessions can be supported at any one time in the Management Dashboard and Control Panel areas. The system does not prevent more than 10 sessions to be opened, so you need to be careful that you do not exceed this limit.
- No more than 50 staging threads can be processing in Cisco Vision Dynamic Signage Director at any one time. The default maximum is 10. The maximum is configured using the “stagingThreadNum” registry found under the **Tools > Advanced > Registry** section of the Management Dashboard.

**Note:** If auto-registration is enabled and a new DMP is detected, then Cisco Vision Dynamic Signage Director initiates staging and always uses 50 as the maximum value. In this case, the stagingThreadNum registry setting is ignored and remains unchanged.

## Important Notes

This section includes other important information about Cisco Vision Dynamic Signage Director that you should know for optimal operation. It includes the following topics:

- [Media Player Maintenance Recommendations, page 42](#)
- [System Utilization Values, page 42](#)

## Media Player Maintenance Recommendations

To avoid unexpected behavior and maintain normal operation of your devices, it is highly recommended that you perform a soft reboot of all of the media players in your system:

- Cisco DMP 4310G–Weekly.
- SV-4K–Weekly.
- DMP-2K–Weekly.

You can reboot DMPs manually or configure a periodic task to run automatically. Remember that the automatic scheduled task applies globally to all media players in the system.

**Note:** Before you perform a reboot, be sure that there are not any active scripts running.

For more information see the “[How to Configure the Reboot DMP System Task From the Management Dashboard](#)” Task Note.

## System Utilization Values

Measurement units for storage in Cisco Vision Dynamic Signage Director are based on a KB equivalent of 1024 bytes [known as a kibibyte (KiB)], not 1000 bytes.

Therefore, a notation of MB actually means 1,048,576 (1024 x 1024) bytes in Cisco Vision Dynamic Signage Director.

Caveats

## Caveats

- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1110, page 44](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1022, page 44](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-909, page 45](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709, page 46](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605, page 47](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526, page 47](#)
- [Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526, page 48](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421, page 50](#)
- [Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421, page 50](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320, page 51](#)
- [Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320, page 51](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-235, page 53](#)
- [Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-235, page 53](#)
- [Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-123, page 55](#)
- [Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-123, page 55](#)

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1212

**Table 22**

Resolved Defect Number	Description of Original Defect
CSCvf65527	Deleting Location or Location+DMP objects outside of luxury suite UI causes issues in IP Phone luxury suite control.

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1110

**Table 23 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1110**

Resolved Defect Number	Description of Original Defect
CSCvk40700	Under some circumstances, DMPs may not reboot at the scheduled time.
CSCvm54867	In a template, when placing a non-video region on top and the number of regions is more than 2, then the Channel Banner will show behind that region.
CSCvm77507	Force deletion of template used by a script results in corrupted script that can't be saved.
CSCvn13333	When "admin" user is forced to change password, changing "admin" password in TUI continues to prompt user to change password during login in the web UI..
CSCvm69344	When script is running, a channel change using IR remote may not persist, with content on screen reverting to script state content.

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-1022

**Table 24 Resolved Defects in Cisco Dynamic Signage Director Release 5.0.0-1022**

Resolved Defect Number	Description of Original Defect
CSCvi97888	Input and output triggers get exception when users attempt to reset them.
CSCvk40656	NPE in backend may appear during script validation.
CSCvm22275	DMP encoded stream latency increased starting with firmware 6.2.x.

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-909

**Table 25 Resolved Defects in Cisco Dynamic Signage Director Release 5.0.0-909**

Resolved Defect Number	Description of Original Defect
CSCvi38009	On Data Integration tab, Field mapping tab, "Input field" not refreshing.
CSCvi73009	Unable to change the length of a playlist item in 5.0 SP5 build.
CSCvi72267	Scheduler UI doesn't update properly if recurrence event is edited in between.
CSCvi70220	Control Panel options disabled for Admin login, if Venue Admin user is listed on top of the user tab.

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-820

**Table 26 Resolved Defects in Cisco Dynamic Signage Director Release 5.0.0-820**

Resolved Defect Number	Description of Original Defect
CSCvg81608	Screen freezes when channel changes by channel guide, when image played in mixed/video region.
CSCvh73161	Assigned DMPs to luxury suites are not listing in CCM screen.
CSCvh60809	In Dashboard, firmware column sorting does not produce expected results.
CSCvh58687	In Dashboard, when sorting by firmware column, large amount of information dialogs appear.
CSCvg51174	New external content and playlists options are disabled for admin log.
CSCvg45745	Import, delete, playlists, external content options are not working when we select a venue as an administrator.
CSCvf78422	Uploading a video directly from a playlist shows the video duration as -1.
CSCvg94148	Cisco Vision DSD Content Manager Role can not access screen template.
CSCvh60719	Content replacement takes a very long time under certain circumstances.
CSCvh02728	Fade-in effect occurs on non-multicast to multicast transitions on 5.0 SP4 when using 6.2.166.1 firmware.
CSCvh50103	/var/sv/RESTORE/backups directory gets deleted if empty.

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709

**Table 27 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709**

Resolved Defect Number	Description of Original Defect
CSCvf56276	Orphaned users can cause user accounts to not load and inability to delete scripts or playlists.
CSCvf53350	After restore operation, data integration server will not start.
CSCvf36408	Dashboard GetStatus call takes > 5 seconds to return, causing timeout failure.
CSCvf16071	Critical DMP information is not showing correct number in Dashboard summary pane.
CSCvf38557	Error calling services on a phone not setup to control a suite.
CSCve79612	First video in a playlist is not played completely for the first time.
CSCvf52146	Able to create a channel without Channel name.
CSCvf30156	Log written with incorrect date in sv_dmp_event_msg.log file.
CSCvf62362	SV-DMP GetStatus request timeouts.
CSCvb98474	Integration server is not restarting after deploying the same FTP server data source.
CSCvf72804	Unable to tag the external URL content in content tab.
CSCvf63487	Channel guide localctl call contains extraneous data.
CSCvf80751	Enhanced performance of backend server when there are blocked scripts.
CSCvf76842	Editing External Content URL is throwing Exception.
CSCva71831	DMP stops all CEC communication when LG TV is turned off via remote. <b>Note:</b> This defect only appears when you are using firmware 6.2.166.1.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-709

All defects that are open in prior Cisco Vision Dynamic Signage Director Release 5.0 releases and not listed as resolved remain open in Cisco Vision Dynamic Signage Director Release 5.0.0-709. This section describes newly-found defects in Release 5.0.0-709.

**CSCvh02728—Fade-in effect occurs on non-multicast to multicast transitions on 5.0 SP4 when using 6.2.166.1 firmware. \*\*This does NOT occur when using Release 6.0.0-740 using 6.2.166.1 firmware.\*\***

**Symptom** Fade-in effect happens on non-multicast to multicast transitions on Release 5.0.0.709 (SP4) when using 6.2.166.1 firmware.

**Conditions** Series 2 DMP using both a 6.2.166.1 firmware and running the 5.0.0-709 (SP4) runtime.

**Workaround** There is no workaround.

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605

**Table 28 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-605**

Resolved Defect Number	Description of Original Defect
CSCve94003	Scheduler page is not rendering for German Language.
CSCve71234	When using dual video (luma-keyed), changing primary video to multicast freezes the secondary video.

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526

**Table 29 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526**

Resolved Defect Number	Description of Original Defect
CSCve35952	Unable to scroll when we create multi day events in scheduler in Monthly view.
CSCve31984	TV health is critical when TV commands are issued for HDMI-CEC display spec.
CSCve09110	Certain state change sequence causes DMP to no longer able to decode multicast streams.
CSCve09065	RTP streaming fails under some state change scenarios.
CSCve07136	When using RTP stream the DMP runtime is not including several streaming parameters.
CSCve02789	New suites do not have a default channel guide selected explicitly.
CSCve02233	There is no logging in DWS logs when external content URL is played.
CSCve00145	Default portrait mode DMP bootup state should use a portrait mode template.
CSCve00093	MUTING_TOGGLE doesn't show as feature even when set on display spec.
CSCvd92530	Using IR remote channel guide or direct channel number to change channel L-Wrap disappears after.
CSCvd91453	Unable to assign content to venue/custom tag using drag-drop if it is already present in DSD.
CSCvd87709	Duplicate menu text displayed on DMP when hiding menu item having blank item.
CSCvd87621	Duplicate menu icon displayed on DMP when hiding menu item having blank item.
CSCvd52742	ParseException exception displayed in SVD-control module.

## Caveats

**Table 29 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526 (continued)**

Resolved Defect Number	Description of Original Defect
CSCvd37026	Info button in IR Remote is showing Wrong Channel info in Banner
CSCvd35309	Channel icons that have been uploaded do not make into the backup.  <b>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.</b>
CSCux14361	Calendar events is not displayed in day & weekly view in below scenario.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-526

This section describes newly-found defects in Release 5.0.0-526. Some defects might apply to earlier releases of Cisco StadiumVision Director. All defects that are open in prior Cisco Vision Dynamic Signage Director Release 5.0 releases and not listed as resolved remain open in Cisco Vision Dynamic Signage Director Release 5.0.0-526.

### CSCve39573-4310: Video is not playing continuously in 2 regions state when there are dup. items in playlist.

**Symptom** It is observed if there are duplicate video items in a row in a playlist and a two-region template is used (video region on bottom and non-video region on top) the duplicate items after the first one will show blank screen on TV. This is only a 4310 issue, it does not occur with SV-4K and DMP-2K DMPs.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Create a template with 2 full screen regions, where bottom region is video and top is non-video.
2. Create a playlist (P1) and put several videos in it. Now duplicate one of the video several times so you will have for example (V1, V1, V1, V2, V3).
3. Create a playlist (P2) and put several transparent L-wrap PNGs in it.
4. Create a script and state and assign P1 to the bottom video region and P2 to the top non-video region.
5. Start the script and state.

Notice the second and third slot for V1 shows a blank screen. The first slot for V1 and other slots for V2 and V3 display correctly.

**Workaround** There is no workaround.

### CSCve35944-Multi-day event details are not shown properly in day and week view when move to next day.

**Symptom** When you create a multi-day event and go to Day view, the scheduled event is shown for the selected date, but when you move to the next day, the scheduled event is not shown.

**Workaround** Go to Month view to see the event details.



## Caveats

### CSCve00267—In Control Panel UI multi-select unlink operation not all items succeed.

**Symptom** When you do a multi-select for an unlink operation, an error appears and not all items are unlinked.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director and go to Control Panel.
2. Go to **Setup > Devices > Location-DMP Mapping**.
3. From the Locations pane (right pane), select multiple items (> 10).
4. Click **Unlink**.

**Workaround** Manually select the failed items and perform an unlink until all items have been unlinked.

### CSCvd80879—Deleting content false Pop-up message displayed.

**Symptom** Incorrect message is displayed after allowing content to be deleted from Cisco Vision Dynamic Signage Director while the content is still part of another playlist.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director and go to Control Panel.
2. Upload some content.
3. Create at least 2 playlists.
4. Select any content image/video and assign it to at least 2 playlists.
5. Delete the content from one of the playlists.
6. Delete the content from Cisco Vision Dynamic Signage Director.

**Workaround** Change the UI focus from playlists and then delete the content from Cisco Vision Dynamic Signage Director. The correct pop-up message is displayed with valid information. Or, refresh the browser and content with associated playlists shows up properly.

### CSCva47132—Widget designer preview doesn't accurately portray SV-4K display.

**Symptom** The widget preview does not correspond with the actual widget on an SV-4K display. Text spacing and text sizes change causing formatting issues.

**Workaround** There is no workaround.

### CSCuw60818—Timer based script states change is delayed (DMP and UI) when timer count down reaches zero.

**Symptom** The widget preview does not correspond with the actual widget on an SV-4K display. Text spacing and text sizes change causing formatting issues.

**Conditions** These are some of the conditions when this defect occurs:

- When there are blocked scripts.
- When there are other large scripts starting.
- When there are a large number of running scripts.

## Caveats

**Workaround** The following things can be done to mitigate the risk of this defect occurring:

1. Cancel any blocked scripts. When scripts are scheduled make sure that if you manually start the script you also manually stop the script before the next scheduled script start time. Otherwise, the manually started script will continue to run and the next scheduled script will be blocked.
2. If possible, start all necessary scripts before an event. Avoid starting scripts during an event. Best practice is to complete and finalize script changes before an event.
3. Consider restructuring scripts to minimize the number of scripts needed for an event.

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421

**Table 30 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421**

Resolved Defect Number	Description of Original Defect
CSCvd29288	DMP firmware unable to negotiate 30 watts of power on IOS-XE switches.
CSCvd09717	Script does not start while unlink the DMP location having LocalHDMI in state.
CSCvd02441	Select MC channel and exit the channel guide. Previous image & widget content freeze.
CSCvd02423	Changing to RTP channel and exit the channel guide displayed black screen on DMP.
CSCvc97174	Network Details are not shown for DMP in Dashboard when connected over WiFi.
CSCvc95127	Slow IP acquisition causes mibs.json to fail to download from DSD server to DMP.
CSCvc70847	Channel guide interaction with channel up/down commands channel change behavior not identical.
CSCvc56451	Wrong time on SVD servers displayed after changing correct time/zone.
CSCvc51526	Bulk Admin tool broken in 5.0; Not able to export all the devices in the system.
CSCvc50985	Mute and Unmute API calls not working with newly created display specs.
CSCun46754	DMB permission assignment breaks if a user with permission gets deleted.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-421

This section describes newly-found defects in Release 5.0.0-421. All defects that are open in prior Cisco Vision Dynamic Signage Director Release 5.0 releases and not listed as resolved remain open in Cisco Vision Dynamic Signage Director Release 5.0.0-421.

### CSCvd30791—Localization defect summary for 5.0 GA release.

These are localization defects in individual language packs that have been deferred. For more information about how to install the language packs, see the [Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director Release 5.0](#).

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320

**Table 31 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320**

Resolved Defect Number	Description of Original Defect
CSCvc13064	The status API yields 500 error.
CSCvc13000	Increase Control size heap memory to 4 GB for all 5.0 installations.
CSCvb98508	Copy script does not work when “Start streaming” is added as an action.
CSCvb90373	SV4K: Slow IP acquisition causes DMP to not boot up properly.
CSCvb76106	Unable to communicate to wifi SV4K DMP after DSD upgrade.
CSCvb70988	Unable to generate POP report with single video in a playlist.
CSCvb70737	Wifi DMPs should be compliant with all necessary MIB variables.
CSCvb65701	“Stadium Vision” Text displayed in Replay Loading image.
CSCvb59715	When creating a new suite, by default it should be in inactivated state.
CSCvb51963	Existing Script validation errors in the Schedule UI is coming empty.
CSCvb39671	Channel doesn't exit through channel guide. (IR as well as IP Phone).
CSCuz65985	Editing single occurrence in a recurring event keeps earlier event intact.
CSCuz13183	Lack of robustness on locale sniffer causes fail to load desired locale.
CSCux63108	Common Widget not showing up in different state.
CSCux38701	SV_4K Status - CPU usage - should display accurate information.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-320

All defects that are open in prior Cisco Vision Dynamic Signage Director Release 5.0 releases and not listed as resolved remain open in Cisco Vision Dynamic Signage Director Release 5.0.0-320.

**CSCvc10647**—Assigning and removing permissions to multiple users in a theme is not reliable.

**Symptom** Assigning and removing permissions to multiple users in a theme is not reliable.

**Workaround** Remove or add permission for one user at a time.

**CSCvc10640**—Channel does not play in full screen after channel is selected & OK button is clicked in channel guide.

**Symptom** Channel does not play in full screen after channel is selected and OK button is clicked in channel guide.

**Workaround** Select a channel and press Exit instead of OK.

## Caveats

CSCvb98474—Data Integration Broker is not restarting after deploying the same FTP server data source.

**Symptom** When we have more than one FTP data source pointing to the Dynamic Signage Director server, we are seeing errors (Data integration is not restarting).

**Conditions** When we have more than one FTP data source.

**Workaround** Dynamic Signage Director can only have one FTP data source with the same host address. You can use HTTP endpoint for other data sources.

CSCva11351—Deleted locations appear in dashboard after deletion from control panel.

**Symptom** Dynamic Signage Director Management Dashboard still displays SV-4K entries even after deleting them from Control Panel.

**Workaround** Restart Director Services to refresh the Management Dashboard.

## Caveats

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-235

**Table 32 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-235**

Resolved Defect Number	Description of Original Defect
CSCvb40149	CMS- Imported video duration value differ than actual one list view.
CSCvb40010	Content detail are not displayed for widget,Channel &DMB in thumb view.
CSCvb25359	Selected venue tag [drop down] should display in content upload window.
CSCvb22126	Disabling Wifi on SV-4K do not take effect.
CSCvb15662	T2S component in the widget ,last line gets duplicated.
CSCvb07258	Widget data is not showing up correctly on sv4ks.
CSCvb05171	CMS - Imported video files seconds calculation mismatch.
CSCvb02942	Unable to schedule event starting Dec 2016 ending Jan 2017.
CSCva99374	Selecting unassigned content deletion should not happen by venue admin.
CSCva96269	Channels are not listed in edit script screen while login venue admin.
CSCva92384	Content are not deleted by venue admin if it is tagged to its own.
CSCva89967	Menu item icon are still displayed after Hiding the DMB menu item.
CSCva87250	Default venue tag are displaying multiple times in content upload window.
CSCva85597	Duplicate IP address are present in SVD in below scenario.
CSCva83503	Unable to save the script after edit as venue admin user.
CSCva80779	Assign/Remove suites to channel guide via Channel Guide tab not working.
CSCva71817	Dashboard TV health should show red when CEC TV fail to respond powrqueries.
CSCva65713	Unable to communicate to DMP when wififlag is set from Yes to No via POE.
CSCuz61881	Improper indentation when zone name with long text in CCM screen.
CSCuz59784	Suites are not displayed in sorted order in CCM.
CSCuz53399	Unable to create daily/weekly event with end by date in Firefox browser.
CSCuz49064	Widgets fail to display data integration when a bound XML value is blank.
CSCuz40236	Date wont display correctly (scheduler) if date format isnt mm/dd/yy.
CSCuz27548	Scheduler-UI-UpDown arrow for time is missing when using Firefox in Mac.
CSCum91268	Unknown condition results in x_stateinstance (s) remaining active.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-235

All defects that are open in prior Cisco Vision Dynamic Signage Director Release 5.0 releases and not listed as resolved remain open in Cisco Vision Dynamic Signage Director Release 5.0.0-235.

## CSCvb51963–Existing Script validation errors in the Schedule UI are empty.

**Symptom** Errors are noticed in the Schedule UI page for Script validation. This is caused when a playlist associated with a script is deleted. The existing Script validation errors in the Schedule UI page are empty.

**Workaround** There is no workaround.

## Caveats

### CSCvb39730—Data integration breaks when source URL contains “{.”

**Symptom** Restart of Data Integration application fails when deploying a data source with a URL that contains “{.”

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Create a Generic data source (HTTP).
2. Enter data source URL **https://www.google.com/#q={** .
3. Save the URL and deploy it to the integration server.
4. Restart the Data Integration application.

**Workaround** Use URL encoding for invalid characters in the query string.

### CSCvb39671—Channel does not exit through channel guide (IR and IP Phone).

**Symptom** A black screen is displayed before each content item in the script is played.

**Conditions** Start the channel content over script content having video playlist. Exit the channel using IR remote or IP phone.

**Workaround** Restart the runtime from the Management Dashboard to join the script.

### CSCva11351—Deleted locations appear in Dashboard after deletion from Control Panel.

**Symptom** Deleted SV-4K locations continue to appear in the Management Dashboard after they are deleted from the Control Panel.

**Workaround** Restart Director Services to refresh the Dashboard.

### CSCuz65985—Editing single occurrence in a recurring event keeps earlier event intact.

**Symptom** Change of script while editing a single occurrence in a recurring event keeps the earlier event intact.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Create a recurring daily/weekly event.
2. Edit the single occurrence in the recurring event.
3. Change the script.

**Workaround** There is no workaround.

### CSCux63108—Common widget not showing up in different state.

**Symptom** When playing same widget in 2 different states in the same script, then while changing to the second state, the first widget with Dynamic Menu Board data integration does not show up. Note:- This only happens for the first widget in the second state, since rest of the widget will display well in the playlist.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Create a Dynamic Menu Board.
2. Deploy three different data sources using Menu Theme.
3. Create three different widgets using data sources (per Step 2.) in Data Bind. Be sure to add a Data Pull component.
4. Create a custom template.

## Caveats

5. Create a script.

**Workaround** Complete the following steps:

1. Copy the first widget in the playlist (that is used in two states):
  - a. Go to: **Control Panel > Widgets > Manage Widgets** and select the first widget in the playlist.
  - b. Click **Copy** at the prompt and rename the copied widget.
2. Open the copied widget and delete and recreate the Data Pull component in the widget (there is a defect related to copying widget):
  - a. Select the Data Pull component and click the trash can icon.
  - b. Save the Widget (Click **File > Save**).
  - c. Create a Data Pull component and Save again.
3. Create new playlist (Click **Content > New Playlist**).
4. Copy all other content from the playlist that is used from the first state.
5. Select all and drag and drop in new playlist.
6. Add copied widget (that was created in Step 1 and 2) to the playlist.
7. Apply this created playlist in second state.

## Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-123

**Table 33 Resolved Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-123**

Resolved Defect Number	Description of Original Defect
CSCva61884	Duplicate record is created in device list during WiFi autoreg of SV-4K.
CSCva61768	CEC Power status of the TV is not updated when it is ON/OFF via TV Remote.
CSCva61274	DMP communicates over WiFi even when it is connected through Ethernet.

## Open Defects in Cisco Vision Dynamic Signage Director Release 5.0.0-123

The following defects are newly opened in Cisco Vision Dynamic Signage Director Release 5.0.0-123.

### CSCva71847–Dashboard TV health status should show red when HDMI cable is unplugged.

**Symptom** Dashboard TV health status shows green when HDMI cable is unplugged.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director.
2. Autoregister the DMP and assign it to HDMI/CEC standard display spec.

## Caveats

3. Ensure that the HDMI cable of the DMP is attached to a HDMI CEC-compliant TV.
4. Unplug the HDMI cable.

**Workaround** Complete the following steps:

1. Log into Cisco Vision Dynamic Signage Director.
2. Autoregister the DMP and assign it to HDMI/CEC standard display spec.
3. Ensure that the HDMI cable of the DMP is attached to a HDMI CEC-compliant TV.
4. Ensure that the HDMI cable is not unplugged.

### CSCva71831–DMP stops all CEC communication when LG TV is turned off via remote.

**Symptom** DMP stops all CEC communication when LG TV is turned off via remote.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director.
2. Autoregister the DMP and assign it to HDMI/CEC standard display specification.
3. Ensure that the HDMI cable of the DMP is attached to an LG TV.
4. Turn off the TV using the remote.

**Workaround** This issue is resolved with firmware 6.2.

### CSCva71817–Dashboard TV health should show red when CEC TV fails to respond to power queries.

**Symptom** Dashboard TV health is displayed green even when CEC TV fails to respond to power queries.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director.
2. Autoregister the DMP and assign it to HDMI/CEC standard display specification.
3. Ensure that the HDMI cable of the DMP is attached to a TV that does not respond to power query.

**Workaround** Ensure that the TV attached is compliant with HDMI CEC power query.

### CSCva65713–Unable to communicate to DMP when wifi flag is set from Yes to No via POE.

**Symptom** Unable to communicate to DMP when wifi flag is set from Yes to No via POE.

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director.
2. In the DMP device setup, specify **Yes** for the WiFi Enabled option while the DMP is on a wired connection to the network.
3. Reboot the DMP to get the wifi enabled flag.
4. Remove the DMP power supply adapter and Ethernet cable and then reconnect the power supply only. The DMP is now on a wireless connection.



## Related Documentation and Resources

5. Change the Wifi Enabled option for the DMP to **No**.
6. Remove the power supply, and then connect the Ethernet cable. The DMP is now connected through POE.
7. Run DMP commands from the Management Dashboard (getstatus, ping, and so on).

### Workaround

1. Log into Cisco Vision Dynamic Signage Director.
2. In the DMP device setup, specify **Yes** for the WiFi Enabled option while the DMP is on a wired connection to the network.
3. Reboot the DMP to get the wifi enabled flag.
4. Remove the DMP power supply adapter and Ethernet cable and then reconnect the power supply only. The DMP is now on a wireless connection.
5. Ensure that the WiFi Enabled option is set to **Yes**.
6. Remove the power supply and connect the Ethernet cable.

## CSCva64681—IR remote change channel delay before display banner appears.

**Symptom** The display banner appears after about 0.5 to 1 second.

**Conditions** Use the IR remote to select channel up or channel down.

**Workaround** There is no workaround.

## CSCva61251—List of published albums are not displayed in the start album action of the script.

**Symptom** List of published albums are not displayed

**Conditions** The following steps recreate the conditions when this defect occurs:

1. Log into Cisco Vision Dynamic Signage Director as an SSC user.
2. Create an album by uploading images/videos.
3. Publish the album.
4. As an administrator, go to **Control Panel > Schedule**.
5. Create a new script and add the action “start album.”

**Workaround** There is no workaround.

## Related Documentation and Resources

This document is to be used in conjunction with the documents listed in this section.

**Note:** For a video introduction to finding Cisco StadiumVision documentation information online, see the [“Finding Cisco StadiumVision Documentation”](#) video.

## Cisco Vision Dynamic Signage Director Documentation Go URL

For more information about Cisco Vision Dynamic Signage Director hardware and software installation, configuration, and operation, see the documentation available on Cisco.com at:

[www.cisco.com/go/stadiumvisiondocs](http://www.cisco.com/go/stadiumvisiondocs)

## Cisco Vision Dynamic Signage Director Documentation Summary

The following documents are included in the content library for Cisco Vision Dynamic Signage Director Release 5.0:

### **Install and Upgrade Guides**

[Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director Release 5.0](#)

[Cisco Vision Software Installation and Upgrade Guide: Dynamic Signage Director Remote Release 5.0](#)

### **Design and Deployment**

[Cisco Vision Deployment Guide: SV-4K and DMP-2K Media Players](#)

[Cisco Connected Stadium Design Guide \(authorized partners only\)](#)

[Cisco Connected Stadium WiFi Design Guide \(authorized partners only\)](#)

[Cisco StadiumVision Video Headend Design and Implementation Guide \(authorized partners only\)](#)

### **Localization**

[Cisco StadiumVision Director Localization Guide](#)

### **Server Administration**

[Cisco Vision Administration Guide: Dynamic Signage Director](#)

### **Content Management**

[Cisco StadiumVision Content Creation Design and Specifications Guide](#)

[Cisco StadiumVision Director External Content Integration Guide](#)

### **Event Operations**

[Cisco StadiumVision Director Operations Playbook](#)

[Cisco StadiumVision Director Operations Guide](#)

### **Task Notes**

[DMPs: Configure Reboot DMP System Task](#)

[DMPs: Enable Touch Screen Control](#)

[DMPs: Find the Serial Number for a DMP From the Management Dashboard](#)

[DMPs: Deploy WiFi Network Connectivity on the SV-4K](#)

[DMPs: UI: Access Cisco StadiumVision Director](#)

[PoP: Configure Automatic Proof of Play Export](#)

### **Licensing Information**

[Open Source Used In Cisco StadiumVision Director Release 5.0](#)

[Open Source Used In Cisco StadiumVision Director Remote Release 5.0](#)

## Cisco Vision Dynamic Signage Director Documentation Notifications

You can receive periodic emails that summarize new and changed information in Cisco Vision Dynamic Signage Director documentation by subscribing to the [sv-doc-notify@external.cisco.com](mailto:sv-doc-notify@external.cisco.com) email alias.

Contact us at [stadiumvisiondocs@external.cisco.com](mailto:stadiumvisiondocs@external.cisco.com) to request this notification service.

## Cisco Vision Dynamic Signage Director Documentation Team Email Contact Information

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## Obtaining Cisco Product Documentation

For information on obtaining other Cisco Product documentation, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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## Service and Support for Cisco Vision Dynamic Signage Director

Cisco Solution Support is the required technical support service for the Cisco StadiumVision solution (including Cisco Vision Dynamic Signage Director).

Cisco Solution Support for StadiumVision combines Cisco product support—Cisco Smart Net Total Care Service or software services—with solution-level support into one service. By taking a solution-level approach, Cisco is responsible for managing product support teams to resolve any issue, no matter where it resides.

For this service, simply purchase Cisco Solution Support for each Cisco hardware or software product in Cisco StadiumVision.

**Note:** Cisco Solution Support is required for Cisco software in the Cisco StadiumVision solution. Although it is optional for Cisco hardware in this solution, each Cisco component must be covered to take advantage of Cisco Solution Support. Product support for solution partner products within Cisco StadiumVision is also required. Contact these vendors for details and requirements.

### Solution Support References

- For a high-level introduction to this service for Cisco StadiumVision, see the [Cisco Solution Support for StadiumVision At-A-Glance](#) document.
- For technical details and product coverage, including the support workflow, see the [“Cisco Solution Support for StadiumVision Service Definition.”](#)

Find more details about [Cisco Solution Support on cisco.com](#) or contact your Cisco sales representative.

## RMA Process for the SV-4K and DMP-2K Media Player

The Return Materials Authorization (RMA) process for the SV-4K and DMP-2K media player is covered by the Solution Support Service for Cisco StadiumVision.

Service and Support for Cisco Vision Dynamic Signage Director

Before you place a service call, see the troubleshooting information in the [Cisco Vision Deployment Guide: SV-4K and DMP-2K Media Players](#). If you cannot resolve the problem with any of the recommended troubleshooting steps, open a Cisco Solution Support case to further troubleshoot and coordinate the return process with the vendor.

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