Release Notes for Cisco StadiumVision Director Release 3.2

First Published: April 21, 2014

Revised: May 21, 2015
Cisco StadiumVision Director Release 3.2.0-520

Cisco StadiumVision Director Remote Release 3.2.0-83

Table 1   Document Revision History

Date	Description
May 21, 2015	The "CSCuu22735—Flash player unable to load Control Panel due to Adobe certificate issue." section on page 34 was added to the "Open Defects in Cisco StadiumVision Director Release 3.2.0-520" section on page 34.
November 17, 2014	The following updates were made: • Updated latest software release information for Cisco StadiumVision Director Release 3.2.0-520 (SP2) and Cisco StadiumVision Director Remote Release 3.2.0-83 (SP1) to provide the GNU Bash fix (CSCur30139). • Updated the latest supported DMP firmware to address the GNU Bash fix in the "Cisco Digital Media Player Support" section on page 4. • Updated the "Security Information and Advisories for Cisco StadiumVision Director Release 3.2" section on page 14.
October 14, 2014	Added open defect "CSCuq48030—Manual Content Staging on Selected DMPs Broken on 3.2 SP1" section on page 35.
October 8, 2014	The following updates were made: • Removed support for video walls using Array Interactive CEE. • Removed the list of tested touch screen devices and replaced with a general statement of limited support in the "Touch Screen Devices and Controller Support" section on page 13.

Table 1   Document Revision History (continued)

Date	Description
July 17, 2014	The following updates were made for Cisco StadiumVision Director Release 3.2.0-518 (SP1):
	• Revised the information about tested VMware vSphere versions and clarified the note about VMware licenses that are not supported in the "VMware vSphere Tested Versions for Cisco StadiumVision Director" section on page 7 and the "VMware vSphere Tested Versions for Cisco StadiumVision Director Remote" section on page 8.
	• Removed list of supported core/distribution switches and replaced with link to the Cisco Connected Stadium Design Guide on ciscoet.com in the "Supported Cisco StadiumVision Headend Hardware and Software" table.
	• Added a note about a warning dialog received if you attempt to save a script that references a removed template region in the "Region Properties" section on page 26.
	• Added the mandatory upgrade requirement for Release 3.2.0-518 from Release 3.2.0-489 to the "Upgrade Paths" section on page 29.
	• Revised the Caution statement about clearing the browser cache in the "Upgrade Process" section on page 31.
	• Added reference to language packs in the note about licensing requirements for access to software in the "Software Download" section on page 30 and clarified that upgrade files are available on Cisco.com.
	• Documented the open and resolved defects for Release 3.2.0-518 in the "Caveats" section on page 34.
June 4, 2014	Added summary bugs for localization defects in the "Localization Defect Summaries" section on page 36.
May 14, 2014	Added caution for critical need for all users to clear their cache before accessing Cisco StadiumVision Director after an upgrade in the "Upgrade Process" section on page 31.
April 21, 2014	Initial release of Cisco StadiumVision Director Release 3.2.0-489 and Cisco StadiumVision Director Remote Release 3.2.0-82.

Contents

This release note includes the following topics:

Introduction

This document provides information about the Cisco StadiumVision solution for all releases of Cisco StadiumVision Director Release 3.2. It includes hardware and software requirements, new and changed features, installation and upgrade information, known issues, and defects.

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

System Requirements for Cisco StadiumVision Director Release 3.2

This section describes the hardware and software supported by the Cisco StadiumVision solution for Cisco StadiumVision Director Release 3.2. It includes the following topics:

- Browser and Flash Player Support, page 3
- Cisco Digital Media Player Support, page 4
- Cisco StadiumVision Director Server Support, page 5
- Cisco StadiumVision Director Remote Server Support, page 8
- Cisco StadiumVision Headend Support, page 9
- Cisco Unified Communications Support, page 12
- Commerce Integration Systems Support, page 12
- Media Controller Systems Support, page 13
- Touch Screen Devices and Controller Support, page 13
- Unsupported Hardware and Software in Cisco StadiumVision Director Release 3.2, page 13

Browser and Flash Player Support

You can use an Apple Mac or Microsoft Windows PC or laptop to access Cisco StadiumVision Director Release 3.2.

Table 2 describes the browser software versions that have been tested with Cisco StadiumVision Director Release 3.2, with the corresponding Flash player support.

Note Unless specifically identified as unsupported, other browser versions might work, but their compatibility with Cisco StadiumVision Director cannot be assured.

Table 2   Tested Browser Software

PC or Laptop OS	Browser Version[1]	Flash Player[2]
Apple Mac OS X	• Google Chrome Version 31.0 • Mozilla FireFox Version 26.0	Adobe Flash Player Version 11.9.900.170
Microsoft Windows (Windows 7)	• Google Chrome Version 31.0 • Mozilla FireFox Version 26.0	Adobe Flash Player Version 11.9.900.170

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 beginning in Cisco StadiumVision Director Release 3.2.

2. If necessary, you can find older versions of Adoble Flash Player at http://helpx.adobe.com/flash-player/kb/archived-flash-player-versions.html#Flash%20Player%20archives. Be sure not to load any debug versions of this software which are unsupported by Cisco StadiumVision Director.

Cisco Digital Media Player Support

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

Note   DMP-4310G Version 5.4.1 RB2P is required for the GNU Bash fix.

Table 3 describes the Cisco Digital Media Player (DMP) hardware and firmware supported in Cisco StadiumVision Director Release 3.2.

Table 3   Supported Cisco DMP Hardware and Firmware

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

DMP 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.

DMP-4310G Version 5.4.1 RB2P

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.

Upgrade Procedure

For information about how to upgrade the DMP firmware, see the "Upgrading the DMP Firmware" module of the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Cisco StadiumVision Director Server Support

Cisco StadiumVision Director supports upgrades from Release 3.1 to Release 3.2 software on the Platform 2 and Platform 3 server hardware, and also new installations of Release 3.2 in a virtual server environment using other or third-party hardware.

Note Use the Guided Solution Selling (GSS) tool when placing Cisco StadiumVision orders to ensure proper configuration and Bill of Materials (BOM).

https://www-gsc.cisco.com/swc/cisco/ciscoAdvisor.action?sfId=CISCO

New Product IDs in Cisco StadiumVision Director Release 3.2

In Cisco StadiumVision Director Release 3.2, the Cisco StadiumVision Director software, video management, and suite licenses are unbundled. This allows you to purchase hardware separately for the Cisco StadiumVision Director server and install Cisco StadiumVision Director software in a virtual environment (for more information, see the "Virtualized Server Environment Support" section on page 7.

Table 4 provides information about these new product IDs.

Table 4   New Product IDs in Cisco StadiumVision Director Release 3.2

Product ID	Description
R-SV-DR-DIR-SW-K9	Cisco StadiumVision Director software license only.
L-SV-DR-LCTRL-IPPS (replaces SV-DIR-1SVM)	IP Phone service per IP phone.
L-SV-DR-LCTRL-WEB (replaces SV-DIR-1ALT)	Web control license per device.
L-SV-DR-LOCAL (replaces Localization SoW)	Localization license per non-English language support.

Platform 2 and Platform 3 Server Support

Table 5 describes the Cisco StadiumVision Director server hardware and software supported in Cisco StadiumVision Director Release 3.2.

Table 5   ***Supported Cisco StadiumVision Director Server Hardware and Software***

Hardware Product ID[1]	Minimum Software Version Supported	Minimum Tested CIMC/BIOS Firmware[2]	Spare Hard Drives
SV-DIR-DIRECTOR-K9	Cisco StadiumVision Director Release 3.2.0-489 Minimum upgrade path: 3.1.0-797 (SP2) **Note** For details about all supported upgrade paths, see the "Upgrade Paths" section on page 29.	Cisco UCS Server Firmware versions: • BIOS—1.5.1g.0 • CIMC—1.5(1l)	Not required
SV-PLATFORM3=[3]	Cisco StadiumVision Director Release 3.2.0-489 Minimum upgrade path: 3.1.0-797 (SP2) **Note** For details about all supported upgrade paths, see the "Upgrade Paths" section on page 29.	Cisco UCS Server Firmware versions: • BIOS—1.5.1g.0 • CIMC—1.5(1l)	Required— 4 additional drives (SV-HD-A03-D300 GA2=)
SV-DIRECTOR-K9 or SV-PLATFORM2=	Cisco StadiumVision Director Release 3.2.0-489 Minimum upgrade path: 3.1.0-797 (SP2) For details about all supported upgrade paths, see the "Upgrade Paths" section on page 29.	Cisco UCS Server Firmware version 1.4(2)	Required[4]

1. These product IDs include both the hardware platform and the Cisco StadiumVision Director software.

2. 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 StadiumVision release that you are running.

3. No software image is preinstalled when you order a SV-PLATFORM3= spare server.

4. Two additional 300 GB hard drives for a total of 4 drives are required only for the Platform 2 server in Cisco StadiumVision Director Release 3.1 and later releases. If you need additional drives, contact your Cisco Systems sales representative for more information. For important information about installing additional hard drives, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Note For more information about verifying and upgrading the Cisco UCS Server firmware, see the following:

—On the Platform 2 server, see the "CIMC and BIOS Firmware Installation for Cisco StadiumVision Director Platform 2 Servers" section on page 28.

—On the Platform 3 server, see the "Appendix D: CIMC Configuration and Firmware Upgrade Guidelines on the Cisco UCS C220 Server" module in the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Virtualized Server Environment Support

You can use another Cisco device or third-party server to run the Cisco StadiumVision Director software beginning in Release 3.2. Be sure that your configuration meets the minimum system requirements in Table 6 and supports a VMware virtual machine environment with a compatible vSphere version (See "Cisco StadiumVision Director Remote Server Support" section on page 8.)

Note Cisco StadiumVision 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" section on page 27.

Table 6 Minimum System Requirements for the Cisco StadiumVision Director Server in a Virtualized Environment

System Component	Minimum Requirement
Processor	Two processors each equivalent to an Intel Xeon Processor E5-2460 (15 MB cache, 2.50 GHz clock, 7.20 GT/s Intel® QPI)
Forward write (fwrite) operations per second	10,000
Virtual CPUs	24
Virtual Disk Space	900 GB
Virtual RAM (VRAM)	32 GB

VMware vSphere Tested Versions for Cisco StadiumVision Director

Cisco StadiumVision Director has been tested with VMware vSphere Version 5.1 and 5.5 using the minimum requirements described in Table 6. Other VMware vSphere versions cannot be guaranteed to work with Cisco StadiumVision Director Release 3.2.

Note Any VMware license that does not allow your virtual machine to be set to the minimum requirements described in Table 6 is not supported.

For more information about installing Cisco StadiumVision Director servers, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Restrictions for Virtual Server Support

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

- Migrating to a virtualized environment on your existing Platform 2 or Platform 3 servers is not supported. For more information, see the "Important Migration and Upgrade Notes" section on page 28.

- When using a virtual server environment, Cisco Technical Support only provides support for the Cisco StadiumVision software. No support is provided for third-party hardware or the virtual OS environment installed by the customer.

- The recommended configuration is for a dual virtual server environment to support a primary and backup server using the standard Cisco StadiumVision Director backup/restore and failover tools.

- Cisco has not tested and does not provide support for any VMware tools in a Cisco StadiumVision system. If your site chooses to use backup, recovery or other tools outside of the Cisco StadiumVision Director software to manage your virtual servers, then you accept the risks and responsibility associated with securing your data.

Cisco StadiumVision Director Remote Server Support

You can use your own server or install a Cisco UCS C22 server to run the Cisco StadiumVision Director Remote software. Be sure that your configuration meets the minimum system requirements in Table 7 and supports a VMware virtual machine environment with a compatible vSphere version (See "VMware vSphere Tested Versions for Cisco StadiumVision Director Remote" section on page 8.)

Note Cisco StadiumVision 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" section on page 27.

Table 7   Minimum System Requirements for the Cisco StadiumVision Director Remote Server

System Component	Minimum Requirement
Hard Drive Capacity	300 GB **Note** 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

VMware vSphere Tested Versions for Cisco StadiumVision Director Remote

Cisco StadiumVision Director Remote has been tested with VMware vSphere Version 5.1 and 5.5 using the minimum requirements described in Table 7. Other VMware vSphere versions cannot be guaranteed to work with Cisco StadiumVision Director Release 3.2.

Note Any VMware license that does not allow your virtual machine to be set to the minimum requirements described in Table 7 is not supported.

For more information about installing Cisco StadiumVision Director Remote servers, see the *Cisco StadiumVision Director Remote Installation and Upgrade Guide, Release 3.2*.

Cisco StadiumVision Headend Support

Table 8 describes the Cisco StadiumVision headend hardware and software supported in Cisco StadiumVision Director Release 3.2.

Table 8   Supported Cisco StadiumVision Headend Hardware and Software

Hardware Device	Software Version
Core/Distribution and Access Layer Switches	
Note For the most up-to-date information, refer to the Recommended Equipment Lists documented in the *Cisco Connected Stadium Design Guide* on ciscoet.com. Ciscoet.com is available to qualified Cisco StadiumVision partners.	
Cisco Atlas MKII Digital Terrestrial Receiver[1]	**Note** 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. **Note** Other DVEO demodulators/receivers models might be recommended depending on the requirements of the customer.
Cisco D9094 HD Encoder[2]	**Note** 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)[3]	2.0.0.0 (build 24.0.5) **Note** Do *not* use any release later than 2.0.0.0 (build 24.0.5).
Cisco D9854 Advanced Program Receiver (DVB-S/S2/ Satellite receiver)	The release that ships with the device is recommended. **Note** 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
Cisco D9887B HDTV Modular Receiver	6.3.2 and later **Note** 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.

Table 8   Supported Cisco StadiumVision Headend Hardware and Software (continued)

Hardware Device	Software Version
Cisco DCM Series D9900 Digital Content Manager (DCM) [4] (MKI chassis)	• 8.01.86 and later • 16 Gb Flash—8.7.0 and later **Note** 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. **Note** This device is EOS/EOL and is replaced by the Cisco D9902 DCM.
Cisco DCM Series D9902 Digital Content Manager (MKII chassis)	• 16 Gb Flash—10.0 and later **Note** The DCM 9902 uses the MKII Chassis instead of the MKI used in the replaced Cisco DCM 9900. **Note** The existing MKI DVB-S/S2 Satellite receiver modules and the 8-VSB Terrestrial receiver modules are compatible with the MKII.
Cisco DCM 8-Port 8-VSB/ ATSC/ Off-Air Receiver Module[5]	DCM Release 8.01.86 (minimum version) **Note** 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. **Note** 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. The Cisco DCM 8-VSB modules are compatible with both the DCM MKI and MKII Chassis.
Cisco 4-Port DVBS/S2 Satellite Receiver Module[6]	DCM Release V9.10.00 and later **Note** 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. **Note** 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.

Table 8   Supported Cisco StadiumVision Headend Hardware and Software (continued)

Hardware Device	Software Version
Cisco RF Gateway 1 (QAM modulator)	The release that ships with the device is recommended.
Cisco Spectra QAM Demodulator[7]	**Note** 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[8]	The release that ships with the device is recommended. **Note** 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.
Scientific Atlanta Titan S2 DVB-S2 Digital Satellite Receiver[9]	Software Version V02.01.03 Hardware Version F02 Bootloader Version V03.01.42528 **Note** This device 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 Atlas MKII Digital Terrestrial Receiver has reached EOS/EOL.

2. The Cisco D9094 HD Encoder has reached EOL.

3. The Cisco D9096 4:2:2 10-Bit AVC Encoder is the replacement for the Cisco D9094 HD Encoder.

4. The Cisco DCM Series D9900 Digital Content Manager (DCM) MK II 2RU Chassis has reached EOS/EOL.

5. 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.

6. 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.

7. The Cisco Spectra QAM Demodulator has reached EOS/EOL.

8. The DVEO TLV 400 DVB-C Digital QAM Receiver is the replacement for the Cisco Spectra QAM Demodulator.

9. The Scientific Atlanta Titan S2 DVB-S2 Digital Satellite Receiver has reached EOS/EOL.

Cisco Unified Communications Support

The Cisco StadiumVision solution supports the Cisco Unified IP Phone 7975G and 9971 models.

Cisco Unified IP Phone 7975G

Table 9 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 StadiumVision Director Release 3.2.

Table 9   Tested Cisco Unified Communications Compatibility for the IP Phone 7975G

IP Phone Model	CUCM Version	Cisco Unified IP Phone Firmware
Cisco Unified IP Phone 7975G	8.6(2a)[1]	9.3(1) SR1
	9.1(2)	9.3(1) SR2

1. CUCM 8.6 is required for localization of the speed dial interface on the Cisco Unified IP Phone.

Cisco Unified IP Phone 9971

Table 10 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 StadiumVision Director Release 3.2.

Table 10   Tested Cisco Unified Communications Compatibility for the IP Phone 9971

IP Phone Model	CUCM Version	Cisco Unified IP Phone Firmware
Cisco Unified IP Phone 9971	8.6(2a)[1]	9.3(2)
	9.1(2)	9.3(2)

1. CUCM 8.6 is required for localization of the speed dial interface on the Cisco Unified IP Phone.

Note   Although not all combinations have been tested, earlier maintenance versions of CUCM are also likely to work with Cisco StadiumVision Director Release 3.2. Avoid trying to use any major version other than 8.6 and 9.1. For example, any other major version such as 5.1 or 8.0 is *not* supported. CUCM 8.6 is required for IP phone localization support.

Commerce Integration Systems Support

Table 11 provides information about the hardware and software for third-party commerce integration systems that have been tested with Cisco StadiumVision Director Release 3.2.

Table 11   Tested Commerce Integration Systems Compatibility

Hardware Device[1]	Software Version
Micros 9700 Enterprise Management Console	3.60.380
Micros 9700 Suites Management Application	1.0
Micros 9700 ContentManager	1.01

Table 11   Tested Commerce Integration Systems Compatibility (continued)

Hardware Device[1]	Software Version
Quest Venue Manager[2]	1.5.157 Build 2
Quest Suite Catering Module[2]	1.5.157 Build 2

1.   For supported hardware configuration, contact Micros or NCR Corporation for Quest software.

2.   Quest Venue Manager and Quest Suite Catering Module software is now owned by NCR Corporation.

Media Controller Systems Support

Table 12 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 StadiumVision Director Release 3.2.

Table 12   Tested Media Controller Systems Compatibility

Hardware Device	Minimum Firmware Version	Custom Software Module[1]
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 StadiumVision 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

Cisco StadiumVision 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 "Installation Notes" section on page 27 and the "How to Enable a DMP for Touch Screen Control" task note for more information about how to configure this support.

Unsupported Hardware and Software in Cisco StadiumVision Director Release 3.2

This section describes the hardware products and software features that are not supported in Cisco StadiumVision Director Release 3.2.

- Unsupported Hardware Products, page 13
- Unsupported Software Features, page 14

Unsupported Hardware Products

The following hardware products are not supported in Cisco StadiumVision Director Release 3.2, and have been unsupported since Release 3.0:

> **Note** For more information about the replacement products, see the "System Requirements for Cisco StadiumVision Director Release 3.2" section on page 3.

- Adtec DPI-1200 Ad Server
- Adtec TBGS
- Cisco ADE 2140 Series Appliance (CADE-2140-K9)
- Cisco DMP 4305G

Unsupported Software Features

Table 13 provides a cumulative list of all of the software features and integration that are not supported in Cisco StadiumVision Director Release 3.2:

Table 13   Unsupported Software Feature by Release Table

Feature Name	Removed from support beginning in:
Multicast Optimization (per-site multicast introduced in Release 3.1)	Release 3.2
CUCM 7.x	Release 3.2
Video Distribution Manager (VDM)	Release 3.1
Ad Insertion Manager (AIM)	Release 3.0
CUCM 6.x	Release 3.0

Security Information and Advisories for Cisco StadiumVision Director Release 3.2

> **Note** These release notes do not qualify any specific details about possible security issues for your Cisco StadiumVision 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

New and Changed Information in Cisco StadiumVision Director Release 3.2

This section describes new features, enhancements and changes in support or behavior in Cisco StadiumVision Director Release 3.2. It includes the following sections:

- API Support, page 15

API Support

This section summarizes the Application Programming Interfaces (APIs) that are supported in Cisco StadiumVision Director Release 3.2. Any enhancements in Release 3.2 are identified.

Note All APIs in Cisco StadiumVision Director are made available by special agreement. Contact your Cisco Systems representative for more information.

Event Trigger API

Cisco StadiumVision Director Release 3.2 supports an HTTP-based Representational State Transfer (REST) API that a software or hardware contact closure source can use to trigger one or more actions by the Cisco StadiumVision Director software. For more information about support for external input triggers, see the *Configuring Cisco StadiumVision Director for External Triggers* guide.

Note If you want to control external triggers from a software application, you can contact your Cisco Systems representative to obtain the Event Trigger API that is made available by special agreement. "TriggerSVD" is an example of a third-party demo application for the Event Trigger API on iOS (supporting Apple iTouch, iPhone, and iPad products) and is available as a free download from the iTunes store.

Media Planner Import API

Cisco StadiumVision Director Release 3.2 supports the Media Planner Import API that is used to import external, third-party generated playlists. The API can be used to support automatic updates to an already imported playlist that has been placed in a script, or an external playlist can be manually imported.

The Media Planner API supports the following features:

Import Playlist Functionality

- Automatically creates playlist and populates it with existing content.
- Automatically links missing content to playlist after each missing content item is uploaded.

- Updates to playlists tied to a script that have all content items requires no human intervention.

Special User Interface Indications

- Imported playlist are easily identifiable as "external playlist."

- Indicates playlist with missing content.

- Warn user when trying to assign a missing content playlist to template.

- Warn user when starting a script with missing content playlist.

Proof of Play Addition

- Works in the same way as a manually created playlist, but with more granularity.

- Automatic insertion of PoP tag for each time slot play.

User Interface Example

The API automatically creates the playlist, which you can easily identify by an icon that tags it as an external playlist source (Figure 1).

Figure 1   External Playlists in Control Panel Content Screen
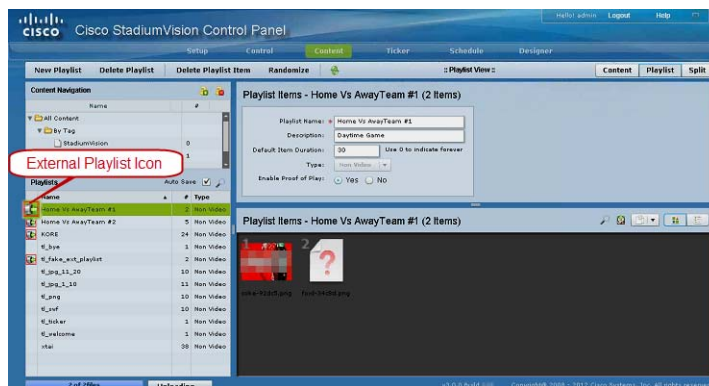
The playlist is populated with existing content in Cisco StadiumVision Director, and you are alerted to any missing content in the playlist by a red box around the external playlist icon on the Content screen. The missing content item is identified with a question mark. Once you import any missing content, it is automatically linked to the external playlist.

Current proof of play reporting is fully supported for external playlist sources and PoP tags are automatically created for specified sponsor IDs. Any missing content is not included in the PoP report.

POS API

Beginning in Cisco StadiumVision Director Release 3.2, an API is introduced to support integration of Point of Sale (POS) vendor data for use in the External Content Integration feature. This method of POS data integration provides a more flexible way of creating and updating menu boards using the Widgets tool independent of the legacy DMB application.

The DMB application currently supports a more tightly-coupled integration with Micros and Quest POS vendors that allows for dynamic content updates along with support of in-suite ordering capabilities. The POS API does not support in-suite ordering, but would allow for more open integration of POS data from other POS vendors that can conform to the XML schema supported by Cisco StadiumVision Director.

User Control API

Cisco StadiumVision Director Release 3.2 supports the in-suite API, which allows querying as well as sending control information to Cisco StadiumVision Director.

The API supports the following areas:

Album Control

The API album control capabilities for SSC include:

- Retrieve all albums available for play on a specific player.
- Retrieve common albums available for play on a one or more players.
- Retrieve all albums available for play on a one or more players.
- Retrieve the album play duration.
- Set the album play duration.
- Control album loading and unloading of content to the player.
- Control play/pause/stop/next/previous actions of the album.

Information Retrieval

The API information capabilities include:

- Query of which suites that can be controlled.
- Query of all players that can be controlled.
- Query of all players with in a suite that can be controlled.
- Query control features that exist within all suites.
- Query control features that exist within a specific suite.
- Query control features that exist for all players.
- Query control features that exist for a specific player.
- Query A/V inputs that exist for all players.
- Query A/V inputs that exist for a specific player.
- Query of closed captioning capabilities of StadiumVision Director.
- Query the channel guide for a specific suite. If a channel is marked as a favorite, the favorite order is included.
- Query the status of all players that can be controlled.
- Query the status of a specific player.
- Detailed HTTP POST response messages in XML.

Security

The API security capabilities include:

- Unique permanent PIN for each suite in order to access and control the devices within.

- Temporary PIN for each suite that changes per event script run, can be displayed on TV. The temporary PIN is changed every day at 4 a.m. (default) based on the default scheduled task in Cisco StadiumVision Director. It also can be changed on demand using the UI.

- Common master PIN for administrative control.

TV Control

The API TV control capabilities include:

- Power on and off of the TV.

- Channel change to a channel within the guide.

- Channel change up or down from the current channel in the guide.

- Channel favorites and favorite order.

- Volume change to a specific value.

- Volume change up or down from current value.

- Mute the audio with a specific on or off.

- Mute and unmute the audio with a toggle.

- Closed caption on with specific CC setting.

- Closed caption off.

- A/V input change with specific input setting.

- Show and hide of the information banner on the TV.

Content Feature Enhancements

Cisco StadiumVision Director Release 3.2 provides additional content support in the following feature areas:

Basic HTML Pass-Through Support

Beginning in Cisco StadiumVision Director Release 3.2, you can render simple HTML browser content (with some restrictions) on the Cisco DMP by including an external URL in a playlist and scheduling it in a script.

The content is not actually stored in the Cisco StadiumVision Director content repository (CMS) and any changes to the content on the external site page are dynamically updated on the DMP when the script restarts.

Restrictions

Before you use the Basic HTML Pass-Through Support, consider the following restrictions:

- The URL for the HTML content must be local to the Cisco StadiumVision network or otherwise reachable by the DMP.

- To be supported on the DMP, the HTML content located at the external URL cannot contain:

    - Video

    - Adobe Shockwave Flash

    - HTML5

- Be aware that very large, complex web pages could consume too much memory on the DMP and be unable to be supported.

- Depending on how the web page is written, it might not appropriately scale to the template region size that you are running it in.

- As web page content refreshes for changes, there might be a delay on the DMP's TV display.

To use this feature, go to the Control Panel Content screen and click the **New External Content** button to open a dialog box and specify a name and enter the URL after the http:// prompt.

External Content Integration

The enhancements to the External Content Integration feature in Cisco StadiumVision Director Release 3.2 includes support for the following updates:

For more information on External Content Integration, see the *Cisco StadiumVision Director External Content Integration Guide, Release 3.2*.

Data Integration Enhancements

Cisco StadiumVision Director Release 3.2 supports the following updates for Data Integration:

- Introduction of the following new data source types:

    - **Generic Data Source—Database** source type

      Supports automatic translation of MySQL and SQLServer database formats to XML data in Cisco StadiumVision Director.

    - **Generic PoS**

      Allows any external POS data source that meets the XML schema requirements of the Cisco StadiumVision Director POS API to be ingested for use in the External Content Integration feature.

    - **Internal Database PoS**

      Allows POS data from stores that have been configured in Cisco StadiumVision Director to be made available as a data source to be used and modified in the Widgets tool.

    - **Menu Theme**

      Allows the default menu theme data from the Cisco StadiumVision Director DMB application to be made available as a data source so that this DMB theme content can be used and modified in the Widgets tool.

For details about the default menu themes in the DMB application, see the "Appendix A: DMB Default Menu Theme Reference" module in the *Cisco StadiumVision Director Dynamic Menu Board and Stores Configuration Guide, Release 3.0 and Later Releases*.

- Basic authentication through username and password properties.
- HTTPS URL support (for sites using signed SSL certificates).

Widgets Tool Enhancements

Cisco StadiumVision Director Release 3.2 supports the following updates in the Widgets tool:

- Font selector

  Only the Arial font is available by default.

  Custom fonts are made available for selection in the Widgets tool by uploading additional fonts to Cisco StadiumVision Director using the Software Manager. TrueType (.ttf) and OpenType (.otf) fonts are supported. For more information about how to install custom fonts, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

- List component

  The List component can be used to create tables by grouping individual list components side-by-side either vertically or horizontally. The default format for the List component is a horizontal row of two cells. By changing the orientation to a vertical layout, the component becomes a single column of cells. Each component can be rendered as text or graphics.

- Data Pull component

  The Data Pull component is a special component that is only needed in a widget for certain data sources larger than 16 KB and whose data does not need more immediate synchronization across large numbers of (100-200) DMPs (such as for menu board data).

  The Data Pull component changes how the data source is processed by Cisco StadiumVision Director by pulling the data feed and sending it to the Flash template, which overcomes the 16 KB multicast packet size normally pushed to the DMP.

For more information on the Widgets tool enhancements in Release 3.2, see the *Cisco StadiumVision Director External Content Integration Guide, Release 3.2*.

Multiple Tag Selection for Content

Cisco StadiumVision Director Release 3.2 allows you to filter content by selecting multiple tags in the Control Panel Content screen.

Internationalization and Localization

Note Cisco StadiumVision Director Release 3.2 supports internationalization and localization for the Cisco DMP 4310G only and the Cisco Unified IP Phone 7975G and IP Phone 9971.

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 StadiumVision Director Release 3.2 software supports i18n for the following general areas of the solution:

- Control Panel in Cisco StadiumVision Director
- Dynamic Menu Board application
- Management Dashboard in Cisco StadiumVision Director
- IP Phone user interface
- Software Manager
- 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.

In Cisco StadiumVision Director Release 3.2.0-489 English is the default language for the Cisco StadiumVision solution.

⚠️

Caution A Cisco StadiumVision Director system that is using language support from Release 3.1.0-797 (SP2), will lose that support if upgraded to Release 3.2.0-489. Support for other language translations must be installed separately as they become available as Language Packs using the new Software Manager from the Cisco StadiumVision Director main menu.

✎

Note Certain locales are not supported in Release 3.2, such as right-to-left languages.

Language Packs for Localization

Beginning in Cisco StadiumVision Director Release 3.2, you now have increased flexibility to upload and install only the specific language(s) that you want to support through the independent installation of Language Packs as they become available for the release. The upload and installation of the language packs is performed using the new Software Manager from the Cisco StadiumVision Director main menu.

In prior Cisco StadiumVision Director releases, localization upgrades included automatic installation of all supported languages bundled as part of a service pack which no longer applies to language support in Release 3.2.

For more information about how to install language packs, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Translated User Documents

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

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

Per-Script Multicast Optimization

In Cisco StadiumVision Director Release 3.2, the original Multicast Optimization introduced in Release 3.1 is replaced by Per-Script Multicast Optimization (for up to 20 different scripts) to reduce the number of multicast messages that each DMP must process.

Per-Script Multicast Optimization is designed to reduce the load on DMPs when the following conditions are present in Cisco StadiumVision Director:

- More than one event script is run simultaneously in a venue.

  The scripts can be running across multiple venues, scripts running in a single venue, or running in systems without Cisco StadiumVision Director Remote servers.

- The External Content Integration feature is used, which sends multiple messages to the DMPs in a script.

Table 14 provides a summary of the two different multicast optimization features supported in Cisco StadiumVision Director.

Table 14   Summary of Multicast Optimization Features in Cisco StadiumVision Director

Feature Name	Release	Scope	Remote Servers Required	Default
Multicast Optimization[1]	3.1 only	Per Site	Yes	Automatic when multi-venue support is enabled.
Per-Script Multicast Optimization	3.2 and later	Per Script (20 maximum)[2]	No	- New 3.2 installs—Enabled. - Upgrades from 3.1—Disabled.

1. For information about per-site multicast optimization in Cisco StadiumVision Director Release 3.1, see the "Multicast Optimization for Remote Venues" topic in the "Configuring Cisco StadiumVision Director for Multiple Venue Support" module of the *Cisco StadiumVision Director Server Administration Guide, Release 3.1*.

2. If you are running more than 20 scripts, then the first 20 scripts operate using per-script multicast channels, and the additional scripts are run over the global multicast host port.

To use Per-Script Multicast Optimization in your Cisco StadiumVision venue for systems upgraded from Release 3.1, you must enable it by setting the "transport.dynamic.enable" registry key to "true" in the Management Dashboard. You also must ensure that all of the multicast port ranges for the feature and in your Cisco StadiumVision network are compatible and non-conflicting.

For more information, see the "Configuring Multicast Ports for Cisco StadiumVision Director" section in the "Configuring the Cisco StadiumVision Director Server System Settings" module of the *Cisco StadiumVision Director Server Administration Guide, Release 3.2*.

Playlist Synchronization Enhancement

As a series of content items transition in a playlist (such as advertisements in Region 2 of a standard 3-region L-wrap template), there will be some variance in the appearance of each content item on the DMP displays where that content is presented. Each content item will generally appear on all corresponding DMP displays within about one second of each playlist item transition.

However, the amount of time that it takes for all displays in your venue to show the same content item within a playlist might exceed a one-second duration based on the following venue conditions: Network infrastructure, number of regions on the display, number of content items in the playlist, and the playlist duration.

In Cisco StadiumVision Director Release 3.2, the mechanism supported for sourcing clocking on the DMPs has been replaced by use of the Network Time Protocol (NTP) to improve the synchronization of playlists across multiple DMPs. Therefore, NTP must be configured on the Cisco StadiumVision Director server and the DMPs. For more information, see the "Configuring NTP on Cisco StadiumVision Servers and DMPs" topic in the "Configuring the Cisco StadiumVision Director Server Settings" module of the *Cisco StadiumVision Director Server Administration Guide, Release 3.2*.

> **Note** The playlist synchronization improvement is optimal for playlists consisting of only static images, and uniform duration of content items in the playlist. Some benefits for video playlists also can be seen if the video is not looping and the actual duration of the video is used.

Using NTP does not universally solve synchronization issues. The improvement in cross-DMP synchronization has the following limitations:

- The DMP clock drifts, so setting the NTP sync interval too high can cause observable deterioration of synchronization over time. Playlist synchronization then improves when the DMP updates its clock.

- This feature is optimal for synchronization of static images contained in a playlist.

- To benefit from playlist synchronization when video is used, use the video's actual duration versus letting the DMP play it to completion. To do this however, seamless video looping is sacrificed.

- Although the duration of a static image (or other content type) is explicitly defined, the Flash template might choose to adjust the time it shows the playlist. This adjustment in display time involves either reducing or extending the render time, but is typically in the millisecond range (subject to the constraints of the sync interval setting).

RTP and UDP Multicast Channel Feed Support

Beginning in Cisco StadiumVision Director Release 3.2, you can configure the Real-Time Transport Protocol (RTP) and User Datagram Protocol (UDP) option for multicast feeds on the Channels screen in Control Panel Setup (Figure 2).

Figure 2   *Protocol Option on Channels Screen*
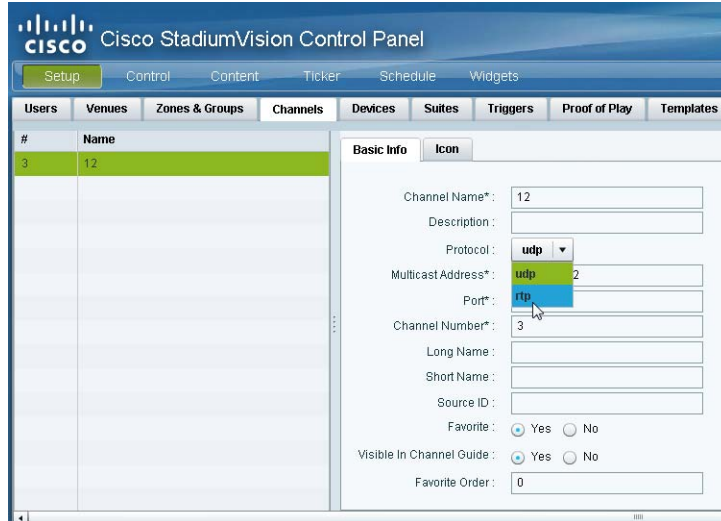
Server Administration

The following enhancement has been made for Cisco StadiumVision Director server administration:

- Software Manager, page 24

Software Manager

Beginning in Cisco StadiumVision Director Release 3.2, a new method of managing software is available from the Cisco StadiumVision Director and Cisco StadiumVision Director Remote main menu. After you download the necessary files to the computer where you run the Cisco StadiumVision Director software, you can use the Software Manager to run the following types of software activity on the Cisco StadiumVision Director and remote servers:

- ISO upgrades

    The legacy method of performing an ISO upgrade using the Text Utility Interface (TUI) remains available in Release 3.2.

- Language pack installation (Cisco StadiumVision Director only)

    Language support is no longer bundled with a service pack in Release 3.2. Individual language support can be installed independently.

- Custom font installation (Cisco StadiumVision Director only)

    Arial is the only default font made available in the Widgets tool for the External Content Integration feature. You can install additional fonts using the Software Manager. For more information about custom font support for screen layouts, see the "Widgets Tool Enhancements" section on page 20.

For more information about how to use the Software Manager, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

TUI

In Cisco StadiumVision Director and Cisco StadiumVision Director Remote Release 3.2, the following TUI enhancements were made.

For general information about the TUI, see the "Cisco StadiumVision Director Text Utility Interface" module in the *Cisco StadiumVision Director Server Administration Guide, Release 3.2*.

Cisco StadiumVision Director TUI Updates in Release 3.2.0-489

In Cisco StadiumVision Director, the NTP sub-menu was added to the Troubleshooting menu, with the following options:

- Local clock state
- Show configured peers and clients

For more information about NTP configuration and troubleshooting, see the "Configuring the Cisco StadiumVision Director Server Settings" module in the *Cisco StadiumVision Director Server Administration Guide, Release 3.2*.

Cisco StadiumVision Director Remote TUI Updates in Release 3.2.0-82

The "Change admin password" option was added to the System Accounts menu.

For more information, see the "Configuring Cisco StadiumVision Director Remote Servers" module in the *Cisco StadiumVision Director Server Administration Guide, Release 3.2*.

User Interface

The following general areas of the Cisco StadiumVision Director user interface (UI) have been changed in Cisco StadiumVision Director Release 3.2:

Main Menu

The Manage Software option has been added.

Channel Setup Screen

Addition of UDP and RTP protocol options.

Content Screen

New External Content button added to specify the URL for a pass-through HTML content source.

Templates Screen

Template List

The template list has the following enhancements:

- Templates are ordered by name.
- When switching between templates, unsaved edits are no longer forced to be deleted. Unsaved templates are indicated by an *.

- Deletion of a template that is being used by a script will cause a force dialog.

Template Canvas

There are alignment guides on the template canvas.

Region List

The Region list has the following enhancements:

- Regions are ordered from bottom-to-top, where the top layer appears at the top of the list.

- Layers are numbered, where the video region always appears at the bottom of the list (Region 1). (You can manually drag a video region to be on top of other regions; however, the rendering of the regions below the video region will not be predictable, and can be completely invisible.)

- A separate button adds a video region. This button is disabled when a video region already exists.

- A film icon indicates the video region.

Region Properties

- Switching a non-video region to a video region might produce a warning if there is already an existing video region. The template editor will only support creation of one video region that is indicated by the film icon.

- Saving an existing template with regions removed will produce a force dialog for confirmation if the regions are used by a script. Another dialog will appear after the template is saved to give a list of script(s) affected.

Note If you do not correct an affected script to use available template regions and try to edit/save the script while it still references a removed template region, you will receive the following "Error in server communication" warning dialog and the script cannot be saved.
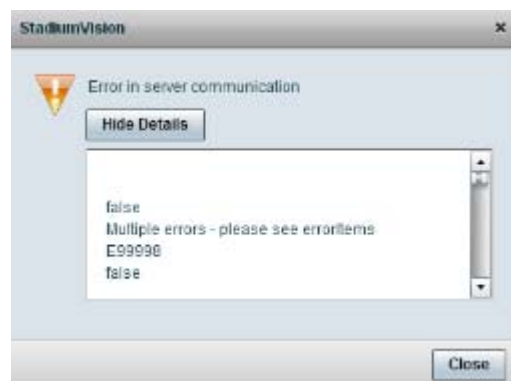
Installation Notes

This section includes the following installation information:

- Installation Requirements for Licensing Compliance, page 27
- Installation Requirements on New Platform 3 Servers, page 27
- Cisco StadiumVision Director Remote OVF Deployment, page 27
- CIMC and BIOS Firmware Installation for Cisco StadiumVision Director Platform 2 Servers, page 28
- Important Migration and Upgrade Notes, page 28

Installation Requirements for Licensing Compliance

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

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

Installation Requirements on New Platform 3 Servers

⚠

Caution   New Platform 3 servers (SV-DIR-DIRECTOR-K9 and SV-PLATFORM3=) come preinstalled with a preliminary image of Cisco StadiumVision Director that is not intended for production operation. You must install the Cisco StadiumVision Director Release 3.2 software from a full ISO image (not an upgrade) that you downloaded from Cisco.com to be sure that you are running the released production version of Cisco StadiumVision Director Release 3.2.

For information about installing a fresh ISO image on a Platform 3 server, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

Cisco StadiumVision Director Remote OVF Deployment

Beginning in Cisco StadiumVision Director Remote Release 3.2, new installations of the software are deployed using an OVF and installing a full ISO.

For more information about installation files and upgrade paths, see the "Important Migration and Upgrade Notes" section on page 28.

For more information about installing Cisco StadiumVision Director Remote, see the *Cisco StadiumVision Director Remote Installation and Upgrade Guide, Release 3.2*.

CIMC and BIOS Firmware Installation for Cisco StadiumVision Director Platform 2 Servers

Platform 2 (SV-DIRECTOR-K9 or SV-PLATFORM2=) of the Cisco StadiumVision Director server requires installation of the Unified Computing System (UCS) Server Firmware Version 1.4(2) or later to avoid problems powering off the server hardware.

Verifying the BIOS Firmware Version

You can verify the firmware version installed on Platform 2 of the Cisco StadiumVision Director server by running a Basic System State Report from the Cisco StadiumVision Director main menu.

Note   BIOS firmware version 1.4.1 is the compatible version packaged with CIMC firmware version 1.4.2.

In the OS Information section of the Basic System State Report, look for "BIOS Information" and "Version" below the "Handle 0x00005, DMI type 0, 24 bytes" line, as shown in the following example.

If your version is less than "1.4.1," then an upgrade is needed:

```
Handle 0x0005, DMI type 0, 24 bytes.
BIOS Information
Vendor: Cisco Systems, Inc.
Version: C200.1.1.1a.0.032920100525
Release Date: 03/29/2010
```

Tip   If the vendor information in this section is Intel Corporation, and the version begins with "S5000," then this is not a Platform 2 server, but rather a Cisco ADE 2140 Series server. This BIOS upgrade process does *not* apply to the Cisco ADE 2140 Series server.

For more detailed information about verifying the BIOS firmware and instructions about how to upgrade, see the "Upgrading the CIMC and BIOS Firmware on a Cisco StadiumVision Director Platform 2 Server" module of the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.0*.

Important Migration and Upgrade Notes

In this document, the following terminology is used to qualify changes to your Cisco StadiumVision hardware and software environment:

- Migration—For Release 3.2, migration means moving an *existing* Cisco StadiumVision Director Release 3.1 platform to a new hardware platform in a virtual environment.

- Upgrade—Means changing your software version to a newer release on your existing platform.

Consider the following important changes that are implemented in Cisco StadiumVision Director Release 3.2 for upgrades to existing Cisco StadiumVision Director sites:

Migration Restrictions

For Release 3.2, migration means moving an *existing* Cisco StadiumVision Director Release 3.1 platform to a new hardware platform in a virtual environment. Brand new installations of Cisco StadiumVision Director Release 3.2 on new platforms in a virtual environment are not considered a migration and are supported.

⚠️
Caution Migration restrictions are identified for the following environments. Contact your Cisco Systems sales representative to move these environments to Cisco StadiumVision Director Release 3.2:

—Migration to a virtualized environment on your existing Platform 2 or Platform 3 servers is not supported.

—Migration from a Platform 2 or Platform 3 server to a virtualized environment on third-party servers for installation of Release 3.2 is not supported for *independent customer installation*. Contact your Cisco Systems sales representative for information about your options.

Upgrade Paths

✎
Note Localization support is introduced through the installation of language packs as they become available.

Table 15 lists the latest supported upgrade paths for Cisco StadiumVision Director Release 3.2.

⚠️
Caution The following upgrades are mandatory:

—Upgrade from Release 3.2.0-489 to Release 3.2.0-518 (SP1) is a mandatory upgrade to fix the critical defect CSCuo71708.

—Upgrade from Release 3.2.0-518 (SP1) to Release 3.2.0-520 (SP2) is a mandatory upgrade for the GNU Bash fix CSCur30139.

Table 15   Supported Upgrade Paths for Cisco StadiumVision Director Release 3.2

From:	To:
Release 3.2.0-518 (SP1)	Release 3.2.0-520 (SP2) ⚠️ **Caution** This is a mandatory upgrade.
Release 3.2.0-489	Release 3.2.0-518 (SP1) ⚠️ **Caution** This is a mandatory upgrade.
Release 3.1.0-797 (SP2)	Release 3.2.0-489

Table 16 lists the supported upgrade paths for Cisco StadiumVision Director Remote Release 3.2:

Table 16 Supported Upgrade Paths for Cisco StadiumVision Director Remote Release 3.2

From:	To:
Release 3.2.0-82	Release 3.2.0-83 (SP1) ⚠ **Caution** This is a mandatory upgrade to fix the GNU Bash vulnerability.
Release 3.1.0-205	Release 3.2.0-82

Installation and Upgrade Files

Cisco StadiumVision Director Release 3.2 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 StadiumVision 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 StadiumVision Director and Cisco StadiumVision Director Remote software.

OVF Files

For new installations, the Cisco StadiumVision Director Remote software is delivered as a .zip file (SV-REMOTE_FULL_TEMPLATE_3.2.0-XXX-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_3.2.0-82-2.x86_64-disk1.vmdk—VM disk file (binary)

- SV-REMOTE_FULL_TEMPLATE_3.2.0-82-2.x86_64-file1.iso—Full installation file (binary)

- SV-REMOTE_FULL_TEMPLATE_3.2.0-82-2.x86_64.mf—Checksum (text)

- SV-REMOTE_FULL_TEMPLATE_3.2.0-82-2.x86_64.ovf—XML VM descriptor file (text)

Software Download

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

If you have a Cisco CCO account and a contract for software download, you can download the Cisco StadiumVision 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

⚠

Caution   When upgrading from Release 3.1.0-797 (SP2) to Release 3.2.0-489, it is critical that *all* Cisco StadiumVision Director users clear their browser cache to prevent permanent database corruption and to be sure that you are running the latest version of Cisco StadiumVision Director. This defect (CSCuo71708) is fixed in Release 3.2.0-518, however after an upgrade to any Cisco StadiumVision Director version, it is always required that every user clears their browser cache.

Upgrades to Cisco StadiumVision Director and Cisco StadiumVision Director Remote software are made available using the new Software Manager once you have installed Release 3.2. For more information, see the "Software Manager" section on page 24. As an alternative, the legacy ISO upgrade utility is still available from the TUI.

For Cisco StadiumVision Director, there are two upgrade environments for Release 3.2, which have different upgrade requirements:

- Upgrading an existing server from Release 3.1.0-797 Service Pack 2 to Release 3.2.

  This requires you to upgrade DMP firmware and perform the ISO upgrade using the legacy ISO upgrade utility from the TUI.

- Upgrading an existing server already running Release 3.2 to a more recent 3.2 release.

  This environment generally requires that you only perform an ISO software upgrade. You can use the new Software Manager to perform the upgrade.

For more details about upgrading the Cisco StadiumVision Director software for your environment, see the *Cisco StadiumVision Director Software Installation and Upgrade Guide, Release 3.2*.

For more details about upgrading the Cisco StadiumVision Director Remote software for your environment, see the *Cisco StadiumVision Director Remote Installation and Upgrade Guide, Release 3.2*.

VLAN Compliance Check

A VLAN compliance check for DMPs is supported in Cisco StadiumVision Director Release 3.2. After you upgrade to release 3.2, you need to go to the Management Dashboard and change the Assigned VLAN property under Global DMP Settings for the 4310 v5.x.x settings according to your DMP VLAN configuration as follows:

- If all of your DMPs are located on the same VLAN (recommended)—Type the number of the VLAN and save the configuration.

- If all of your DMPs are *not* located on the same VLAN, or you want to bypass any VLAN compliance checking—Type "**$svd_ignore**" and save the configuration.

✎

**Note**   The default Assigned VLAN property value is $svd_ignore.

The value in the Assigned VLAN property in the Management Dashboard settings for the DMP 4310s is checked against the value being sent by the DMP, unless you have configured $svd_ignore.

⚠

Caution   DMP auto-registration support requires that the VLAN value is correctly set or "$svd_ignore" is used.

Figure 3 shows how to configure the Assigned VLAN property under the 4310 v5.x.x Settings for DMPs that are not located on the same VLAN using the "$svd_ignore" string.

Figure 3   Assigned VLAN Property Configuration for DMPs
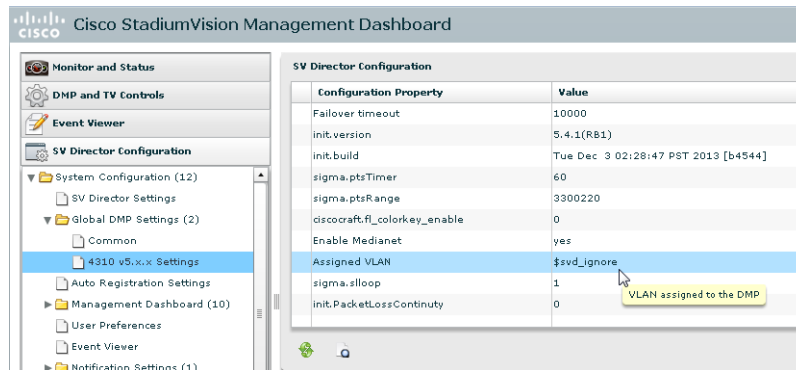
Limitations and Restrictions

When using Cisco StadiumVision Director Release 3.2, 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 StadiumVision Director Release 3.2 implements the infrastructure only to support i18n and L10n to support the independent installation of other language packs with Cisco StadiumVision Director Release 3.2 as they become available.

- Cisco StadiumVision Director Release 3.2 does not support internationalization for back-end messaging.

- Non-English characters are not supported as a Cisco StadiumVision Director login credential.

- Multi-user support in Cisco StadiumVision Director Release 3.2 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 users 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 StadiumVision 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 StadiumVision Director initiates staging and always uses 50 as the maximum value. In this case, the stagingThreadNum registry setting is ignored and remains unchanged.

- Consider the following restrictions and expected behavior when configuring playlists:
  - Single video loop—You can configure a playlist to loop continuously when you have a playlist with a *single* video content item set for a duration of zero, with the playlist duration also set to zero.
  - Single non-video loop—You can configure a playlist to loop continuously when you have a playlist with a *single* non-video content item by setting the item duration to -1, and setting the playlist duration to a number greater than or equal to zero.
  - All playlists will loop their content (for example, once the last item plays, the playlist restarts with the first item) *unless* a duration of zero is configured on the first playlist item.
  - To run a playlist one time, you can specify a duration of zero for the last item in the playlist. There is different behavior if the last item is a non-video item versus a video. If the last item has zero duration, and once the rest of the playlist items run, then if the last item is a non-video item, it continuously plays for the duration of the state. If the last item is a video, the video plays one time followed by a black screen for the duration of the state.
  - If a change is made to a playlist and the playlist is currently being displayed, it is possible that items in the playlist that are past an item in the playlist with a duration of zero, could get displayed and the playlist continues until the item with zero duration is reached again.

Important Notes

This section includes other important information about the Cisco StadiumVision solution that you should know for optimal operation.

DMP 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 DMPs in your system each week. You can reboot DMPs manually or configure a periodic task to run automatically.

> **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.

Caveats

- Resolved Defects in Cisco StadiumVision Director Release 3.2.0-520, page 34
- Open Defects in Cisco StadiumVision Director Release 3.2.0-518, page 35
- Resolved Defects in Cisco StadiumVision Director Release 3.2.0-518, page 36
- Open Defects in Cisco StadiumVision Director Release 3.2.0-489, page 36
- Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489, page 42

Resolved Defects in Cisco StadiumVision Director Release 3.2.0-520

Table 17 lists the defects that are resolved in Cisco StadiumVision Director Release 3.2.0-520 (SP2).

Table 17   Resolved Defects in Cisco StadiumVision Director Release 3.2.0-520 (SP2)

Resolved Defect Number	Description of Original Defect
CSCur30139	Security Alert: IntelliShield security alert ID: 35836 (GNU Bash)

Open Defects in Cisco StadiumVision Director Release 3.2.0-520

All defects that are documented as open in Release 3.2.0-518, and that are not identified as resolved in Release 3.2.0-520, remain open in Release 3.2.0-520 (SP2).

CSCuu22735—Flash player unable to load Control Panel due to Adobe certificate issue.

Symptom

Some time on 5/5/2015, the ability to load the Cisco StadiumVision Director Control Panel was reported from the field and also reproduced in the Cisco lab. The Control Panel will start to load but will remain at 0% on screen. Before 5/5/2015 there were no issues in loading Control Panel.

Solution

A certificate in the Adobe library expired without announcement to the development community causing applications that utilize the Adobe library to cease operating on or after 5/6/2015. Adobe has since provided updated versions of their libraries with updated certificates.

Recommended Action

Upgrade your system to the latest Cisco StadiumVision Director Release 4.0 version.

Temporary Workaround (Until upgrade to Release 4.0 is completed)

Use Mozilla Firefox to access Cisco StadiumVision Director once you have completed the workaround steps below. You may have to complete the steps daily.

Complete the following steps to reset the Mozilla Firefox browser:

1. Do the following based on your computer model:
    – On a PC, clear the browser cache from **Control Panel** > **Flash Player Settings Manager**.
    – On a Mac, clear the browser cache from **System Preference** > **Flash Player**.
2. Select the **Storage** tab, click **Delete All**.
3. Click **Confirm**.
4. Select the **Advanced** tab, under **Browsing Data and Setting**, click **Delete All**.
5. Go to the following URL using a Firefox browser on your PC or Mac:

http://www.macromedia.com/support/documentation/en/flashplayer/help/settings_manager03.html

6. Uncheck "Store common Flash components to reduce download times".
7. Click **Confirm**.
8. Close all Firefox sessions and verify that all sessions are closed.
9. Open a new Firefox session.
10. Launch Cisco StadiumVision Director.

Open Defects in Cisco StadiumVision Director Release 3.2.0-518

All defects that are documented as open in Release 3.2.0-489, and that are not identified as resolved in Release 3.2.0-518, remain open in Release 3.2.0-518 Service Pack 1. See also "Open Defects in Cisco StadiumVision Director Release 3.2.0-489" section on page 36.

CSCuq48030—Manual Content Staging on Selected DMPs Broken on 3.2 SP1

Symptom Manual Content Staging on Selected (individual) DMPs is not Available on 3.2 sp1 (build 518).

Conditions On the manual staging tab, you cannot select individual DMPs for content staging. When you attempt to select individual DMPs the list of DMPs is blank and none can be selected or staged.

Note Manually staging the Flash Template to individual DMPs is working. This defect only applies to manually staging Content to individual DMPs.

Workaround Stage content to All DMPs in the script.

Resolved Defects in Cisco StadiumVision Director Release 3.2.0-518

Table 19 lists the defects that are resolved in Cisco StadiumVision Director Release 3.2.0-518.

Table 18   Resolved Defects in Cisco StadiumVision Director Release 3.2.0-518

Resolved Defect Number	Description of Original Defect
CSCup89008	When using content lookup feature grahics component makes double request.
CSCup88411	PofP is not recording playtime of video content.
CSCup63024	Editing a copy of a Display Specification obliterates the original copy.
CSCup56008	Changing mysql password from TUI back to back will cause errors.
CSCup55989	Changing mysql password of length > 8 in TUI makes SVD inoperable.
CSCup55973	Changing mysql password from TUI will make SVD inoperable.
CSCup50652	Browser flash plugin crashes while list component selects the format #,#.
CSCuo79288	Content lookup feature using data binding is broken in 3.2.0-489.
CSCuo71708	Editing scripts without clearing browser cache after upgrad corrupts db.
CSCuo54657	Move the mysql tmpdir to '/var/tmp' because PofP processing fails.
CSCuo50225	Wrong TV status on dashboard.

Open Defects in Cisco StadiumVision Director Release 3.2.0-489

This section lists the defects that are open in Cisco StadiumVision Director Release 3.2.0-489. These defects are open in addition to those defects open in Release 3.1.0-797 that are not yet resolved.

Localization Defect Summaries

The purpose of these caveats is to summarize the known and postponed localization issues that remain open in Cisco StadiumVision Director Release 3.2.0-489. These are informational caveats.

CSCuo34069—L10n: Localization defect summary for 3.2.0-GA release.

CSCuh34357—L10n: Localization defect summary for 3.1.0-SP1 release.

CSCuc60327—L10n: Localization defect summary for 3.0.0-SP1 release.

CSCtx35299—L10n: Spanish localization defect summary for 2.4.0-SP1 release.

CSCuo22947—Selection of region names is not possible until template is saved once.

Symptom   User cannot select any of the regions on the list of regions until the template is saved at least once.

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

1. Log into Cisco StadiumVision Director and go to **Control Panel** > **Setup** > **Templates**.

2. Create a new template.

3. Add two or more regions.

4. Attempt to select the regions you created by clicking on the entries on the list of regions on the right.

Workaround Save the newly created template.

CSCuo21040—Database Integration PostgreSQL DB type unable to get data.

Symptom The PostgreSQL database is not retrieved.

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

1. Log into Cisco StadiumVision Director and go to **Control Panel > Data Integration**.

2. Create a PostgreSQL data source and save it.

3. Notice the schema is automatically picked up and displayed in the "mapping" tab.

4. Click and drag over some field mappings.

5. Deploy the data source and restart the application from the Management Dashboard.

Workaround There is no workaround.

CSCuo20599—Only a single database type can be deployed at the same time.

Symptom Two MySQL data sources stop getting data.

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

1. Log into Cisco StadiumVision Director and go to **Control Panel** > **Data Integration**.

2. Create two database data sources for MySQL databases.

3. Verify that the data sources are getting data.

4. Create a data source for SQLServer.

5. Restart the integration server.

Workaround There is no workaround.

CSCuo20587—In Database Integration when source table schema changes, the table name parameter in Cisco StadiumVision Director needs to change/saved in order for schema to update.

Symptom If the table schema changes in the source database Cisco StadiumVision Director will not automatically pick up the schema change.

Workaround For Cisco StadiumVision Director to pick up the schema change, the "Table Name" parameter for the data source has to be modified and saved. Change the table name to something else, save the change, change the table name back, then save.

CSCuo15028—Data Integration unable to retrieve data over unsigned SSL certificate.

Symptom If the HTTPS server uses an unsigned SSL certificate the data retrieval will fail.

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

1. Log into Cisco StadiumVision Director and go to **Control Panel** > **Data Integration**.
2. Create a data source for an HTTPS source.

Workaround The HTTPS server where data is being retrieved needs to have a signed SSL certificate.

CSCuo14464—Initial RS232 commands delayed by +/- 15 seconds during FlashTempl load.

Symptom The Flash template needs to be fully loaded before issuing RS-232 / RS-232 commands to a television screen attached to the DMP, or the commands may not be sent. The initial RS-232 command from Cisco StadiumVision Director to the DMP might be delayed by as much as +/- 15 seconds. Thus, if the customer creates a set of sequential states where state #1 is less than 20 seconds, the first command (i.e. "TV On") could be transmitted after the second command.

Workaround Create a blank state (120+ seconds) and set the initial RS-232 command to 20 seconds.

CSCun96085— Live content addition causes flickering effect of content on displays.

Symptom Sometimes live content addition/deletion/replacement (while a script is running) causes something like a flickering effect of the content on the displays for 30 seconds to a minute, and then it goes back to normal. The flickering effect can be described as the DMPs switching back and forth between two images in rapid succession on the display. This happens only from time to time and is not reproducible at will.

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

1. Make sure a script is running full screen non-video template that has static images as playlists, and a script state with that particular playlist is playing on the TV's.
2. Go into the playlist mentioned in Step 1 and start dragging and dropping new static images from Content tab. Select yes and Force options to the warnings so the new content is pushed while the script is running.
3. Observer the TV display to see if the flickering is happening.

Workaround There is no workaround.

CSCun79926—Channel guide can disappear (goes blank) if customer creates channel #zero.

Symptom When the customer adds a channel numbered zero, sometimes the channel guide will no longer display in Cisco StadiumVision Director Control Panel UI.

Workaround Do not create a channel with channel #0.

CSCun46754—DMB permission assignment breaks if a user with permission gets deleted.

Symptom If a non-admin user have permission to a DMB theme in liferay and that user gets deleted from the Cisco StadiumVision Director side, that particular DMB theme can never be assigned to any other users.

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

1. Log into Cisco StadiumVision Director as an administrator.

2. Click on the DMB button from the Main Menu to go to the liferay portal. Select a theme and click the manage user access button to assign the permission to a concessionaire user.

3. Sign out the as admin and login as the concessionaire user that you just assigned permission to.

4. Click on the DMB button once you login to Cisco StadiumVision Director. You can see that the concessionaire user can see and have access to the DMB from Step 2.

5. Logout and log back in as admin user.

6. Now delete the concessionaire user and create another concessionaire user.

7. Click on the DMB button to go into Liferay, still signed in as admin.

8. Assign permission of the same DMB theme to the newly created concessionaire user.

9. Repeat steps 3 & 4. You can see that this time the new concessionaire user does not have access to the DMB themes assigned to him in step 8.

In tomcat logs you will see a similar error to the following:

```
[Feb 27 17:25:55 -0800 2014] DEBUG admin com.cisco.service.MenuService -
ownerAddOrDelete:XML from iapps: {<?xml version="1.0" encoding="UTF-8"
standalone="yes"?><response><success>false</success><message>No row with the given
identifier exists: [com.cisco.x.orm.User#46]</message></response>}
```

The deletion of user on Cisco StadiumVision Director side is not propagated to the liferay database thus making all the themes that user was associated with unassignable to any other users in the future.

Workaround Workaround is to duplicate the theme and assign permission to the duplicated theme.

CSCun34635—DMP no longer display info on screen when upgrading firmware.

Symptom For all 5.4+ firmware, the DMP no longer displays a progress bar on the screen during an upgrade. The screen is blank, making it difficult to tell if the upgrade is in process or there are possibly other DMP issues.

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

1. Using either the Management Dashboard or the DMP web UI select a different firmware than the one currently in use by the DMP.

2. Start the firmware upgrade process.

Workaround There is no workaround.

CSCun34199—DMP-4310 can be crashed by rapidly cycling through sequential states.

Symptom DMP-4310 can be crashed by rapidly cycling through states during an event. This is due to rapid-fire UI state changes, and this is not to be confused with CSCum25342 (DMP memory exhaustion in Flash template, after X number of state changes.)

The EDO will usually complain that a DMP rebooted, restarted flash, or showed a "black screen" and if this bug is responsible for it, the logs will reveal that customers experiencing this issue have been firing off a half dozen or more state changes against the same script ID anywhere from 1-15 seconds apart.

(It is OK to rapidly fire off a batch of state changes for multiple script IDs.)

This defect must not be presumed to be responsible for any support cases matching those symptoms unless there is 100% positive diagnosis from the Cisco StadiumVision Director logs as shown below.

```
/var/log/svd-control/sv_dev_debug.log will show multiple ChangeScriptStates occurring
within 15 seconds of each other, and the scriptID (80 in this example) must match for this
CDETS to apply.

2014-02-23 17:02:22,032 [OutboundTriggerManager-ThreadPool] ccfd34db alexckho INFO
com.cisco.sv.triggers.OutboundTriggerManager  - Received event:
triggerType=ChangeScriptState, scriptId=80, scriptName=WahHoi_poster_L_PartB,
oldRunState=Running, newRunState=Running, oldScriptState=F123, newScriptState=FR2

2014-02-23 17:02:26,608 [OutboundTriggerManager-ThreadPool] 568c1b14 alexckho INFO
com.cisco.sv.triggers.OutboundTriggerManager  - Received event:
triggerType=ChangeScriptState, scriptId=80, scriptName=WahHoi_poster_L_PartB,
oldRunState=Running, newRunState=Running, oldScriptState=FR2, newScriptState=FR1

2014-02-23 17:02:28,915 [OutboundTriggerManager-ThreadPool] 2b2bfda8 alexckho INFO
com.cisco.sv.triggers.OutboundTriggerManager  - Received event:
triggerType=ChangeScriptState, scriptId=80, scriptName=WahHoi_poster_L_PartB,
oldRunState=Running, newRunState=Running, oldScriptState=FR1, newScriptState=R&D
```

Workaround Do not perform state changes in rapid succession. There should be a minimum of 60 seconds between state changes.

CSCun24272—Cisco StadiumVision username throws NPE if created with liferay service down.

Symptom Cisco StadiumVision Director username(s) created with liferay service down (or defunct) will not be able to log into the liferay service or DMB. An NPE (Null Pointer Exception) error occurs upon login because the user is created in Cisco StadiumVision Director but not in Liferay. The following error might be seen:

```
20:47:01,784 ERROR [UserImpl:109] com.liferay.portal.NoSuchContactException: No Contact
exists with the primary key 10836
com.liferay.portal.NoSuchContactException: No Contact exists with the primary key 10836
```

Attempts to recreate or reuse the username after encountering this are unsuccessful. For example, if you create a user named "myuser" and then delete the user named "myuser" in the Cisco StadiumVision Director Control Panel. The account (myuser) seems to remain in Liferay and you can find it in Control Panel > Roles > (ROLE_NAME) > Assign Members. If you recreate "myuser" in Cisco StadiumVision Director it will still be subject to NPE errors upon login to the DMB.

Workaround There is no workaround. You must create a new username.

CSCun24246—Cisco StadiumVision user with underscore in username cannot access liferay DMB.

Symptom Liferay prompts you to log in, but you cannot access anything in Liferay, you cannot log in with your Cisco StadiumVision Director username/password, and you are not prompted to agree to terms and conditions or set a security question.

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

1. Log into Cisco StadiumVision Director as an administrator.

2. Create a new user named "something_dmb" and assign the concessionaire role.

3. Log out, clear cache, and attempt to use DMB.

Note This defect also applies to admin users with underscores in the username and appears in Release 3.1.0-797 (SP2).

Workaround Do not define usernames with underscores "_" with a Dynamic Menu Board or for admin users.

CSCum70918—Accessing Cisco StadiumVision Director using a DNS name triggers double authentication.

Symptom The Cisco StadiumVision Director login page at /var/www/cgi-bin/login.cgi automatically redirects to http://$host (derived from $host = Sys::HostIP->ip;) upon login, which is a problem if the customer wants to use an internal DNS name to access Cisco StadiumVision Director.

The user is prompted to double authenticate. Once when arriving at http://, and then a second time when the login.cgi page performs a meta refresh to http://$host (IP address) after successfully logging in. In SR 628894557, the customer has requested for this redirect to be aware of the actual URL requested in the session.

Additionally this second login prompt can be circumvented by repasting http:// into the browser, and if this occurs, that instance of login.cgi and a child process " (curl -fb JSESSIONID=$JSESSIONID http://127.0.0.1:8080/StadiumVision/springmvc/getApplConfiguration.do 2> /dev/null | grep userRole | xargs echo) " never closes. If you bypass login.cgi several times in this fashion the Cisco StadiumVision Director login page will become unresponsive.

Workaround There is no workaround.

CSCud12361—SV: Multiple DMP's lock up (reboot needed) after packet loss.

Symptom Cisco DMP 4310s seem not to recover after DCM failover has been performed (sometimes 2-3 failovers are needed, causing some packet loss). The DMP keeps showing video issues (blocking/freezing) after the packet loss/bursty traffic, and it does not recover from it.

Workaround Go to **Management Dashboard** > **SV Director Configuration** > **System Configuration** > **Global DMP Settings** > **4310 v5.x.x Settings**. Change the init.PacketLossContinuty property value from 0 to 1.

Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489

Table 19 lists the defects that are resolved in Cisco StadiumVision Director Release 3.2.0-489.

Table 19 *Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489*

Resolved Defect Number	Description of Original Defect
CSCuo17921	Cisco StadiumVision Director Remote monitoring increases SVD thread count indefinitely.
CSCuo17269	If first # of template region are same then content may not load.
CSCuo12941	MySQL max_packet_size needs to be increased from current limit of 16MB.
CSCuo05820	Restarting mule can trigger control server shutdown.
CSCun97982	DmpSyslogs do not provide Script , state, content name, and so on.
CSCun92658	Add a TUI option to undeploy all flows if mule is dead.
CSCun87207	Zero-byte CMS content, fix purging of deleted contents.
CSCun79892	Widgets not rendering post-upgrade unless you delete/recreate an element.
CSCun79829	3.2 Unicode does not render correctly in XML field mapping (under input).
CSCun95976	Attempting to delete zone of locked up script causes error.
CSCun79675	Proxy DMPs not working with Cisco StadiumVision Director Remote.
CSCun70827	If content can't be found, log error indicating the content in question.
CSCun70823	Script validation to report missing content (or 0-byte content).
CSCun66258	DMPs under Cisco StadiumVision Director Remote management does not work when the R is made into proxy DMP.
CSCun63875	Data integration cannot select multiple field maps to import or delete.
CSCun60551	Handle playlist import auto-connect exist. contents with name > 24 chars.
CSCun49055	XML tags ID/format improperly when seq state names are duplicated in UI.
CSCun45974	In Manage Widget dialog, deleting a Widget should have a confirmation dialog.
CSCun40561	Content replacement fails when customer performs many of them at once.
CSCun40504	Two scripts with same endpoints can be started if no action is assigned.
CSCun26684	Cisco StadiumVision Director UI only partially blocks a customer from duplicating seq state names.
CSCun21930	There are not any logs for Cisco StadiumVision Director Remote after 4:00am each day.
CSCum98515	In Control Panel new password does not enable Save button.
CSCum98372	In Dashboard the DMP Summary date/time does not update.
CSCum96678	UI fails to refresh and display correct information of a display spec.
CSCum96572	Channel Icon upload pop-up does not display selected filenames.
CSCum96567	Unable to upload channel icons.
CSCum94338	Slideshow widget fails to load on DMPs (randomly within DMP group).

Table 19 Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489 (continued)

Resolved Defect Number	Description of Original Defect
CSCul38599	Vendor Installation cannot be added to the service alerts list in the Dashboard.
CSCum89834	UI gives error while adding creating field mapping on a running flow.
CSCum89425	Text on link to System State Report is wrong.
CSCum86964	System State Report page header is wrong.
CSCum51505	In Data integration tab Enabled column should be renamed to Deployed.
CSCum29141	Fl. templ. seems have difficulties digesting mult. addconfig uni msgs.
CSCum25342	DMP memory exhaustion in Flash template, after X number of state changes.
CSCum16214	Content Replacement on DMP does not work if only single item in playlist.
CSCum13498	SVD "Switch import" only works for DMP with mac address starting w/ 000f
CSCum11054	Latency in synchronization between multiple DMP playing the same content.
CSCul98206	Upgrading from 3.1 SP1 to SP2 resets backup retention policy to default
CSCul97943	Replacing existing content can cause CMS out of heap memory issue.
CSCuj36373	(PNG metadata issue) Some of the currency formats do not do anything for Dynamic Menu Boards.
CSCul81158	Content Replacement Issues (thumbnail update)
CSCul23556	If combined size of logs is bigger that 4GB SSR fails to generate report.
CSCul80866	Non-Admin roles unable to use Control Panel to change account info.
CSCuj07468	"Content Manager" role unable to upload content using Chrome and IE.
CSCul03900	When script state is changed the Z-order of elements changes temporarily.
CSCui94228	Cisco StadiumVision Director Data Integration Empty Blank Values appears as "undefined" on screen.
CSCul39054	Reconfigure RH audit package in Cisco StadiumVision installation to track additional activities.
CSCui53946	Cisco StadiumVision Director should try to handle missing XML tags for KORE import feature.
CSCui36192	Sending next/previous cmds rapidly causes SSC to stop answering cmds
CSCul35714	Sending next/previous cmds rapidly will make SSC album outta sync.
CSCul33484	Full SSR needs to contain httpd access and error logs.
CSCui28387	System State Report "All logs for a date" has logs from different days
CSCui27866	Play icon linger at the screen foreground while SSC video plays
CSCuj72871	Using BAT, creating a DMP device type requires dev spec info.
CSCui30984	Sometimes httpd fails to start during upgrade.
CSCui30984	Staging tries to stage to locations and hangs there until it times out.
CSCui18611	SSR (System StateReport) only reveals symbolic links to log directories.
CSCui21041	Old 3.0 flows need to be removed from svd zip.
CSCuj30718	UI issue for content upload (video uploads are timing out).
CSCuj98386	If there is a deployed flow with wrong IP address External Content Integration service stops working.
CSCuj92745	Cancelled scripts in proof of play stuck in running status; can't delete or generate POP.
CSCuj94909	For Loc-DMP mapping in BAT, if some locations are not in Cisco StadiumVision Director it gives an exception.
CSCuj84522	Widget with piezscreen component leaks memory when rotated in playlist.
CSCuh82102	/var/sv/ partition is too small in the new partition scheme.
CSCuj81622	DMP memory utilization in the dashboard is wrong.
CSCuh67905	Once widget has been running a while it takes long time to restart Flash.
CSCuj78341	Input selection on IP Phone grayed if DMPs removed from suite leaving 1.
CSCuh61780	When widget in playlist rotation flash template restarts w/ memory msg.
CSCuj72871	Using zip file to replace content create new version of content.
CSCuh58919	Sometimes httpd fails to start during upgrade.
CSCuj72502	Uploaded contents in zip file fails to add to tag(s).
CSCuh56130	UID mismatch cannot be correlated with the IP address of the DMP in logs.
CSCuj36588	Styling for content image preview popup window makes font unreadable.
	Content replacement sometimes pushes new contents to undesired DMPs.
CSCuh50572	Batch delete warning not issued if content is being used.

CSCun49055	XML tags ID/format improperly when seq state names are duplicated in UI.
CSCun45974	In Manage Widget dialog, deleting a Widget should have a confirmation dialog.
CSCun40561	Content replacement fails when customer performs many of them at once.
CSCun40504	Two scripts with same endpoints can be started if no action is assigned.
CSCun26684	Cisco StadiumVision Director UI only partially blocks a customer from duplicating seq state names.
CSCun21930	There are not any logs for Cisco StadiumVision Director Remote after 4:00am each day.
CSCum98515	In Control Panel new password does not enable Save button.
CSCum98372	In Dashboard the DMP Summary date/time does not update.
CSCum96678	UI fails to refresh and display correct information of a display spec.
CSCum96572	Channel Icon upload pop-up does not display selected filenames.
CSCum96567	Unable to upload channel icons.
CSCum94338	Slideshow widget fails to load on DMPs (randomly within DMP group).

Table 19　　*Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489 (continued)*

Resolved Defect Number	Description of Original Defect
CSCul38859	
CSCuj36373	Some of the currency formats do not do anything for Dynamic Menu Boards.
CSCuj23556	If combined size of logs is bigger that 4GB SSR fails to generate report.
CSCuj07468	"Content Manager" role unable to upload content using Chrome and IE.
CSCui94228	Cisco StadiumVision Director Data Integration Empty Blank Values appears as "undefined" on screen.
CSCui53946	Cisco StadiumVision Director should try to handle missing XML tags for KORE import feature.
CSCui36192	Sending next/previous cmds rapidly causes SSC to stop answering cmds
CSCuj35714	Full SSR needs to contain httpd access and error logs.
CSCui28484	Sending next/previous cmds rapidly will make SSC album outta sync.
CSCui28387	System State Report "All logs for a date" has logs from different days
CSCuj27866	Play icon linger at the screen foreground while SSC video plays
CSCuj72871	Using BAT, creating a DMP device type requires dev spec info.
CSCui30984	Sometimes httpd fails to start during upgrade.
CSCuj36691	Staging tries to stage to locations and hangs there until it times out.
CSCui18613	SSR (System StateReport) only reveals symbolic links to log directories.
CSCuj21041	Old 3.0 flows need to be removed from svd.zip.
CSCuj30718	UI issue for content upload (video uploads are timing out).
CSCuj98386	If there is a deployed flow with wrong IP address External Content or Integration service stops working.
CSCuj92745	Canceled scripts in proof of play stuck in running status; cant delete or generate POPF.
CSCuj94909	For Loc-DMP mapping in BAT, if some locations are not in Cisco StadiumVision Director it gives an exception.
CSCuj84522	Widget with pie2screen component leaks memory when rotated in playlist.
CSCuh82102	/var/sv/ partition is too small in the new partition scheme.
CSCuj81622	DMP memory utilization in the dashboard is wrong.
CSCuh67905	Once widget has been running a while it takes long time to restart Flash.
CSCuj78341	Input selection on IP Phone grayed if DMPs removed from suite leaving 1.
CSCuh61780	When widget in playlist rotation flash template restarts w/ memory msg.
CSCuj72871	Using zip file to replace content create new version of content.
CSCuh58919	Sometimes httpd fails to start during upgrade.
CSCuj72502	Uploaded contents in zip file fails to add to tag(s).
CSCuh56130	UID mismatch cannot be correlated with the IP address of the DMP in logs.
CSCuj36588	Styling for content image preview popup window makes font unreadable.
CSCuh50572	Content replacement sometimes pushes new contents to undesired DMPs.
	Batch delete warning not issued if content is being used.

Table 19   *Resolved Defects in Cisco StadiumVision Director Release 3.2.0-489 (continued)*

Resolved Defect Number	Description of Original Defect
CSCuh42597	Clicking Logout button in landing page will create a new page.
CSCuh36266	When copying Displayspecs, RS-232 commands are not copied.
CSCuh34158	TUI upgrade ISO select does not work forintegers that end with 3,9 digits.
CSCuh30644	Widget Graphic component should be able to bind to Content Lookup field.
CSCuh29150	Force button don't do anything for mvng locations that R prt of a suite.
CSCuh25903	Dble clicking tmplts,playlists makes them editable whilecreating scripts.
CSCuh20641	In SVD-R TUI "Setup Staging..." invalid value like "7f" can be entered.
CSCug82857	Channel URL data not generated on API call.
CSCug72127	In Control Panel deletion of serial command doesn't enable save button.
CSCug55172	Duplicated on user list under venue management.
CSCug54921	Unable to cancel new user creation when venue selection.
CSCug54835	User list gets duplicates when hitting refresh on specific venues.
CSCuf51989	5.4 firmware limits SSC albums to 24 content pieces.
CSCuf39159	Widget does not prompt save when File > Close after made changes.
CSCuf39135	DMP Flash crashes when graphics component resizes png of certain size.

Related Documentation

For more information about Cisco StadiumVision hardware and software installation, configuration, and operation, see the Cisco StadiumVision documentation available on Cisco.com at:
http://www.cisco.com/en/US/products/ps11274/tsd_products_support_series_home.html

Obtaining Documentation and Submitting a Service Request

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

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

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