Cisco StadiumVision Director Remote Installation and Upgrade Guide

Release 3.1

January 14, 2014

C O N T E N T S

Preface

This document describes the requirements and tasks to install and upgrade the software for Cisco StadiumVision Director Remote Release 3.1. It also includes documentation for hardware installation and configuration on the Cisco UCS C22 server, if using that hardware for your Cisco StadiumVision Director Remote server platform.

The content is intended for Cisco StadiumVision system administrators and technical field engineers who are responsible for designing and deploying Cisco StadiumVision solutions. It is expected that readers of this document are familiar with basic IP networking, Linux, and VMware virtualization.

Document Revision History

Table 1 lists the technical changes made to this document since it was first published.

Table 1   Document Revision History

Date	Change Summary
January 14, 2014	Corrected references to the tested versions of VMware vSphere ESXi with Cisco StadiumVision Director Remote from 4.1 and 5.0 to 4.1 and 5.1.
April 4, 2013	The following changes were made: • Added information about contacting Cisco Technical Support to obtain the Cisco StadiumVision Director Remote OVA file in the "Installing Cisco StadiumVision Director Remote Software on a Server for the First Time" on page 5. • Revised the cable to be used in the Cisco UCS C22 server single-CPU configuration to the UCSC-CABLE-A5 in the "Appendix A: Cisco UCS C22 Hardware Installation Guidelines" on page 21.
March 19, 2013	First release of this document for Cisco StadiumVision Director Remote Release 3.1.0-205.

Document Organization

Chapter	Description
"Getting Started Installing or Upgrading a Cisco StadiumVision Director Remote Server"	Provides information that you should read before you perform an initial installation or upgrade of the Cisco StadiumVision Director Remote Release 3.1 software.
"Installing Cisco StadiumVision Director Remote Software on a Server for the First Time"	Describes how to install the Cisco StadiumVision Director Remote Release 3.1 software from Cisco.com. The process applies to a brand new server that has never been installed with any version of Cisco StadiumVision Director Remote software.
"Upgrading Cisco StadiumVision Director Remote Software"	Describes how to upgrade an existing server already running Cisco StadiumVision Director Remote software. This procedure is also referred to generally as an *ISO upgrade* and is similar to the ISO upgrade on Cisco StadiumVision Director using the Text Utility Interface (TUI).
"Appendix A: Cisco UCS C22 Hardware Installation Guidelines"	Provides the prerequisites and installation guidelines when installing the Cisco UCS C22 Server as your platform for the Cisco StadiumVision Director Remote software.

Related Documentation

See the *Cisco StadiumVision Director Server Administration Guide, Release 3.1* for information about setting up and managing your Cisco StadiumVision Director servers.

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

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

Getting Started Installing or Upgrading a Cisco StadiumVision Director Remote Server

Read this module before you perform an initial installation or upgrade of the Cisco StadiumVision Director Remote Release 3.1 software. It includes the following topics:

Before You Begin

Be sure that you understand and have met the following prerequisites before you begin to install or upgrade the Cisco StadiumVision Director Remote software:

- Refer to the *Release Notes for Cisco StadiumVision Director Release 3.1* for the latest information about hardware and software requirements, changes, important notes, and caveats for your software release.

- Be sure that your server hardware is installed and meets the minimum hardware requirements for a Cisco StadiumVision Director Remote server running VMware. See the "Hardware Prerequisites" section on page 2.

  For more information about installing your Cisco UCS C22 hardware, see the "Appendix A: Cisco UCS C22 Hardware Installation Guidelines" module on page 21.

- If you are using a server other than the Cisco UCS C22 server:

  - Be sure that the server meets the minimum system requirements described in the "Getting Started Installing or Upgrading a Cisco StadiumVision Director Remote Server" module on page 1.

  - The server is configured with VMWare ESXi host version 4.1 or 5.1.

- Verify that the Cisco StadiumVision Director Remote server has power and is connected to the network using the Ethernet port eth0 on the rear panel.

- A monitor and keyboard are connected to the server.

- Be sure to have the network information required to configure the Ethernet connection on the Cisco StadiumVision Director Remote server, such as:
    - IP address (IPv4 only) and network mask
    - Default gateway address
    - DNS server address
    - Hostname
- You have internet access from a computer running Microsoft Windows to download the following software:
    - Cisco StadiumVision Director Remote software from Cisco.com.
    - VMware vSphere ESXi software (as required)
    - VMware vSphere client software (requires Microsoft Windows) (as required).

Hardware Prerequisites

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 miminum system requirements in Table 1 and supports a VMware ESXi virtualized environment.

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 of the *Release Notes for Cisco StadiumVision Director Release 3.1*.

Table 1   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

Note To get started with installing and configuring a Cisco UCS C22 server, see the "Appendix A: Cisco UCS C22 Hardware Installation Guidelines" module on page 21.

Overview of the Installation and Upgrade Process

There are different tasks required to install or upgrade your Cisco StadiumVision Director Remote server for software Release 3.1 depending on your current server environment:

- Installing Cisco StadiumVision Director Remote on a Cisco UCS C22 Server for the First Time, page 3
- Installing Cisco StadiumVision Director Remote on Your Own Server Hardware, page 3
- Upgrading an Existing Cisco StadiumVision Director Remote Server, page 4

Installing Cisco StadiumVision Director Remote on a Cisco UCS C22 Server for the First Time

The installation process for a new Cisco UCS C22 server running Cisco StadiumVision Director Remote Release 3.1 for the first time involves the following tasks:

- Installation of the Cisco UCS C22 hardware.
- Installation of VMware ESXi host software on the Cisco UCS C22 server.
- Installation of VMware vSphere client software on a laptop computer used to access the ESXi host on the Cisco UCS C22 server.
- Deployment of the Cisco StadiumVision Director Remote Open Virtual Appliance (OVA) template.

For detailed information, see the "Installing Cisco StadiumVision Director Remote Software on a Server for the First Time" module on page 5.

Installing Cisco StadiumVision Director Remote on Your Own Server Hardware

You can use your own server hardware that meets the minimum system requirements to install Cisco StadiumVision Director Remote. The installation process for a new server running Cisco StadiumVision Director Remote Release 3.1 involves the following tasks:

> **Note** If the server hardware already has the required VMware ESXi host version installed and you also have the VMware vSphere Client software installed, then you only need to deploy the Cisco StadiumVision Directore Remote OVA template.

- Installation of VMware ESXi host software on the server (as needed).
- Installation of VMware vSphere client software on a laptop computer used to access the ESXi host on the server (as needed).
- Deployment of the Cisco StadiumVision Director Remote OVA template.

For detailed information, see the "Installing Cisco StadiumVision Director Remote Software on a Server for the First Time" module on page 5.

Upgrading an Existing Cisco StadiumVision Director Remote Server

The software upgrade process for an existing Cisco StadiumVision Director Remote server is performed as an ISO upgrade using the Text Utility Interface (TUI) similar to the process for Cisco StadiumVision Director.

The upgrade process for Cisco StadiumVision Director Release 3.1 involves the following tasks:

- Downloading the ISO upgrade file from Cisco.com.
- Uploading the ISO upgrade file to the Cisco StadiumVision Director Remote server.
- Installing the ISO upgrade image on the Cisco StadiumVision Director Remote server.

For detailed information, see the "Upgrading Cisco StadiumVision Director Remote Software" module on page 13.

Installing Cisco StadiumVision Director Remote Software on a Server for the First Time

First Published: March 19, 2013
Revised: January 14, 2014

This module describes how to install the Cisco StadiumVision Director Remote Release 3.1 software from an Open Virtual Appliance (OVA) template that is downloaded from Cisco.com. The process applies to a brand new server that has *never* been installed with any version of Cisco StadiumVision Director Remote software.

This module includes the following topics:

Prerequisites

Be sure that the following requirements are met before you install the Cisco StadiumVision Director Remote software:

- Be sure that your system meets the requirements documented in the "Getting Started Installing or Upgrading a Cisco StadiumVision Director Remote Server" module on page 1.
- If you are installing on the Cisco UCS C22 server, you have a copy of or access to the *Cisco UCS C-Series Servers VMware Installation Guide* on Cisco.com.
- You have purchased the appropriate licensing and have contacted Cisco Technical Support for access to download the Cisco StadiumVision Director Remote OVA file.

Installation Tasks

To install the Cisco StadiumVision Director Remote software, complete the following tasks:

- Downloading the Software, page 6 (required)
- Installing the VMware ESXi Software, page 7 (required)

- Deploying the Cisco StadiumVision Director Remote OVA Template on the VMware ESXi Host, page 10 (required)
- Deploying the Cisco StadiumVision Director Remote OVA Template on the VMware ESXi Host, page 10 (required)

Downloading the Software

Be sure to download the files to a location, such as a laptop computer, where you can access them for installation onto the Cisco StadiumVision Director Remote server:

- Downloading the Cisco StadiumVision Director Remote OVA File, page 6 (required)
- Downloading the VMware vSphere ESXi Software, page 6 (required)
- Downloading the VMware vSphere Client, page 7 (required)

Downloading the Cisco StadiumVision Director Remote OVA File

You are eligible to obtain information about how to access the Cisco StadiumVision Director Remote OVA file after you have purchased the proper licensing. Contact Cisco Technical Support for information about how to download the OVA file (Table 1).

Table 1   OVA Template Filename Conventions

OVA Filename
SV-REMOTE_FULL_TEMPLATE_3.1.0-*nnn-y*.x86_64.ova[1]
SV-REMOTE_FULL_TEMPLATE_3.1.0-*nnn-y*.x86_64.ova.md5sum

1. "*nnn*" represents the build number and "*y*" is the version of the OVA for that build.

Downloading the VMware vSphere ESXi Software

Note   Cisco StadiumVision Director Remote supports VMware vSphere ESXi version 4.1 and 5.1. If your server already has this VMware vSphere ESXi software version installed, you can skip this task.

To download the VMware vSphere ESXi software, complete the following steps:

Step 1   Go to the VMware software download site at:

http://www.vmware.com/download/

Step 2   Locate the VMware vSphere ESXi software link and follow the instructions on the VMware site.

Downloading the VMware vSphere Client

Note The VMware vSphere Client software requires the Microsoft Windows operating system. If the computer that you will use to deploy the Cisco StadiumVison Director Remote OVA already has VMware vSphere Client software installed, skip this task.

The VMware vSphere Client software is required to install the Cisco StadiumVision Director OVA file.

To download the VMware vSphere client, complete the following steps:

Step 1 Go to the VMware software download site at:

http://www.vmware.com/download/

Step 2 Locate the VMware vSphere client software link and follow the instructions on the VMware site to download and install the software on the computer that you will use to access the VMware ESXi host.

Tip Alternatively, you can download the VMware vSphere Client software when you access the VMware ESXi host. For more information, see the "Deploying the Cisco StadiumVision Director Remote OVA Template on the VMware ESXi Host" section on page 10.

Installing the VMware ESXi Software

Note If VMware ESXi version 4.1 or 5.1 is already installed and configured on your server, skip this task.

To install and configure the VMware ESXi software, complete one of the following steps:
- If installing on your own equipment, follow the VMware ESXi installation instructions for your hardware.
- If installing on the Cisco UCS C22 server, follow the instructions to install the VMware ESXi software using the "VMware vSphere ESXi Installation" module in the *Cisco UCS C-Series Servers VMware Installation Guide.*

Configuring the ESXi Host

After you have installed the VMware ESXi software, you need to configure the settings for your network environment. For more information about customizing the VMware ESXi configuration, see the *VMware vSphere Installation and Setup Guide* for your release under the Datacenter Product Documentation area of the VMware Documentation site at:

http://www.vmware.com/support/pubs/

Tip If you are configuring the ESXi host on a Cisco UCS C22 server, you also can access the ESXi host from the KVM console if a connection has been mapped to the ESXi management interface.

To configure the ESXi host, complete the following steps:

Step 1 To customize the VMware ESXi configuration, press **F2** at the ESXi initialization screen.

Figure 1 shows an example of an ESXi initialization screen.

Figure 1   *Sample VMware ESXi Initialization Screen*
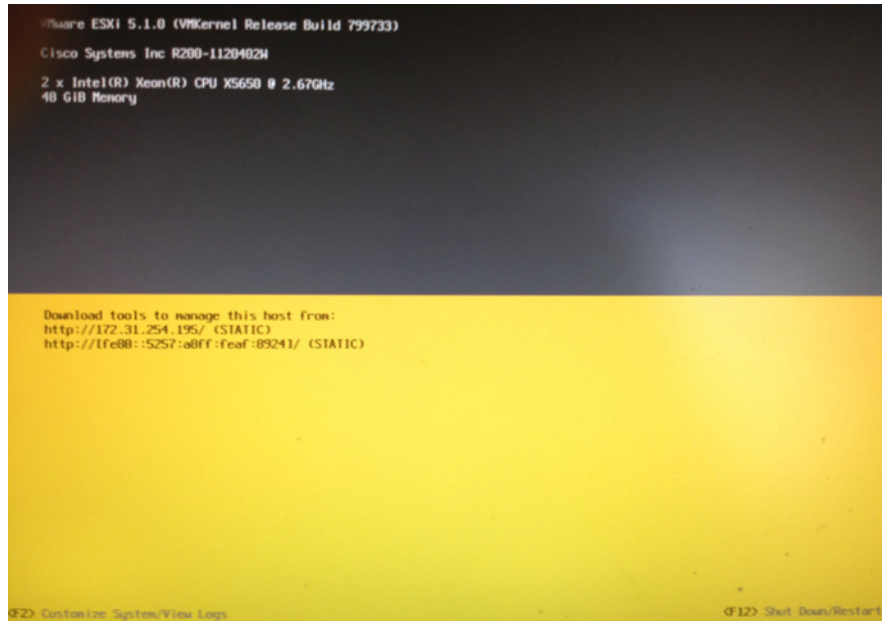
Step 2 At the System Customization screen, select the **Configure Password** option to specify a password for the administrator account.

The administrative user name for the ESXi host is **root**. By default, the administrative password is not set.

Step 3 Specify the new password and repeat the entry for confirmation and then press **Enter**.

Tip You will use the root account and password to log into the VMware ESXi host to install the Cisco StadiumVision Director Remote OVA template.

Step 4   From the System Customization screen, select the **Configure Management Network** option as shown in the example in Figure 2 and press **Enter**.

Figure 2   *Sample VMware System Customization Screen*

a.   Select the **IP Configuration** option and press **Enter**.

Figure 3 shows an example of the IP Configuration screen.

Figure 3   *Sample IP Configuration Screen*
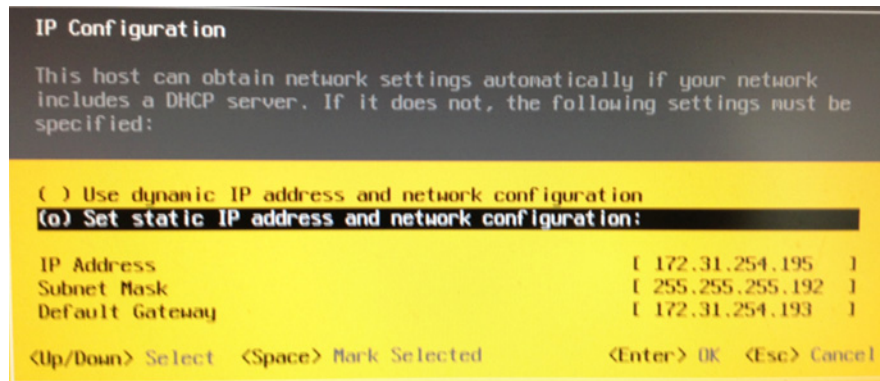
b.   Modify the IP address configuration according to your network environment and press **Enter**.

Tip   You will use this IP address to access the VMware ESXi host from your computer's web browser.

c.   (Optional) To change the ESXi hostname and domain, choose the DNS configuration option and press **Enter**. The default hostname is localhost. When your updates are complete, press **Enter**.

Step 5   Restart the management network.

Verify that the IP address information on this screen correctly shows the changes that you made.

Deploying the Cisco StadiumVision Director Remote OVA Template on the VMware ESXi Host

Prerequisites

Before you install the Cisco StadiumVision Director Remote OVA template, be sure that the following requirements are met:

- The VMware vSphere Client is required to install the Cisco StadiumVision Director Remote OVA template.

  If you have not already downloaded and installed the VMware vSphere Client on the computer that you will use to access the VMware ESXi host, then a link to download and install the software is provided when you log into the VMware ESXi host.

You can access a link to download the VMware vSphere Client after you have installed the ESXi host by completing the following steps:

Step 1 From a web browser, type the IP address of the VMware ESXi host.

The VMWare ESXi Welcome Screen is displayed as shown in the example in Figure 4.

Figure 4   ***Sample VMware Welcome Screen***
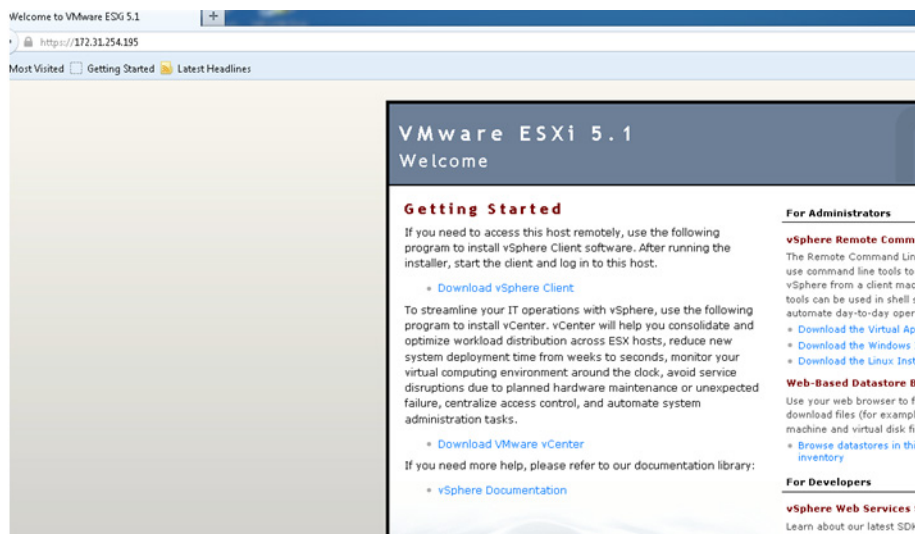
Step 2 Click the **Download vSphere Client** link as shown on the Welcome screen (Figure 4).

Follow the VMware instructions to download and install the software.

- The computer from which you will run the VMware vSphere Client has access to the network where the ESXi host is installed.
- You have a copy of or access to the *vSphere Virtual Machine Administration Guide* from the VMware Documentation site for information about how to deploy the OVA template.

Procedure

To install the Cisco StadiumVision Director Remote OVA template on the VMware ESXi host, complete the following steps:

Step 1 Start the VMware vSphere Client.

Step 2 In the VMware vSphere Client window, type the following information:

- IP address / Name: IP address of the ESXi host (or name of host if using DNS)
- User name for the administrator account: **root**
- Password for the administrator account.

Tip This information is configured in the ESXi host. For more information, see the "Installing the VMware ESXi Software" section on page 7.

Figure 5   Sample VMware vSphere Client
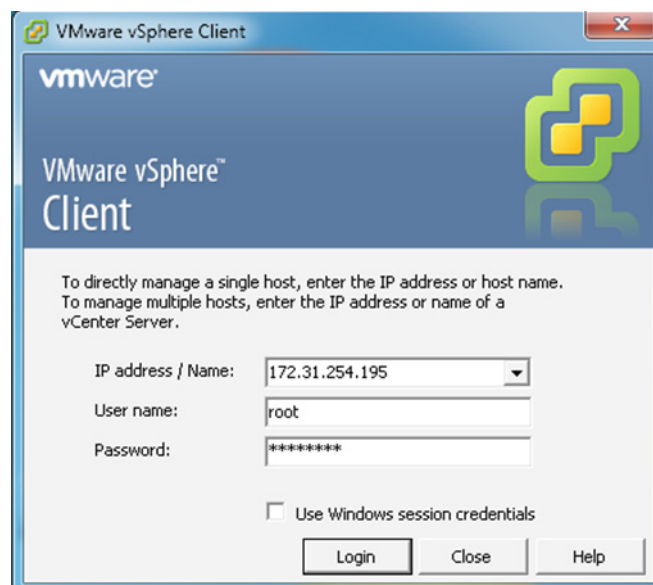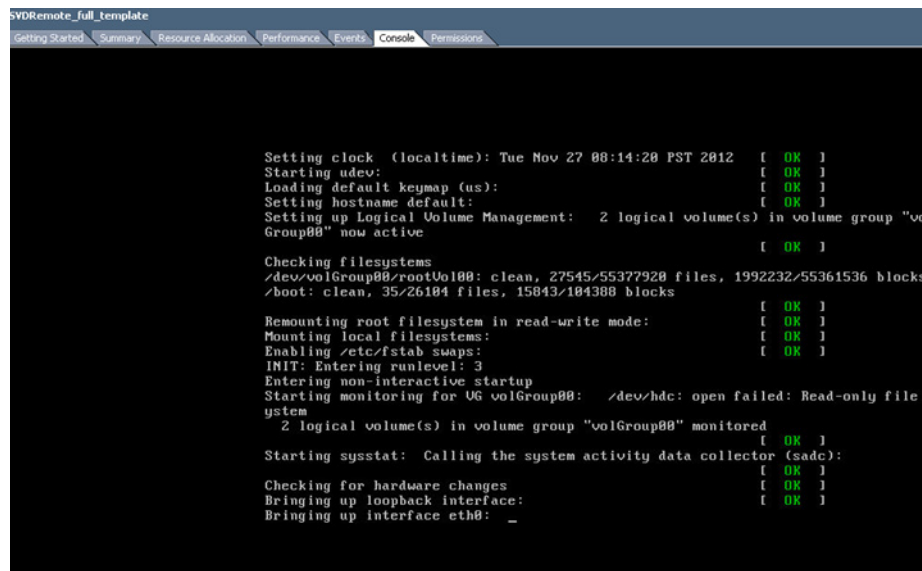
Step 3 From the File menu, click **Deploy OVF Template**.

Step 4 To select the source location for the template, click **Browse** and locate the OVA template for the Cisco StadiumVision Director Remote software that you downloaded to your computer.

Step 5 Click **Next** to step through the installation wizard screens to read and accept the license and set the installation options:

- Specify a Name and data store location.
- Select thin provisioning disk format.

Step 6 Review your configuration and click **Finish**.

Verifying the Installation

To verify the installation, power on the Cisco StadiumVision Director Remote server from VMware by completing the following steps:

Step 1 Start the VMware vSphere Client and log in as root user.

Step 2 From the inventory list, right-click on the name of the Cisco StadiumVision Director Remote server machine.

Step 3 Select **Power > Power On**.

Step 4 From the management console for Cisco StadiumVision Director Remote, click the **Console** tab as shown in Figure 6.

Figure 6   Sample Console Output During Cisco StadiumVision Director Remote Power On

Step 5 Observe the output on the console to confirm that the filesystems, drives, and interfaces successfully come up (indicated by "OK" beside the system area).

What To Do Next

After you have installed the Cisco StadiumVision Director Remote software, go to the "Configuring Cisco StadiumVision Director Remote Servers" module of the *Cisco StadiumVision Director Server Administration Guide, Release 3.1* to set up the remote server for network communication and connectivity to the Cisco StadiumVision Director server.

Be sure to note the IP address that you configured for the VMware ESXi host because it will be needed to complete the Cisco StadiumVision Director Remote configuration.

Upgrading Cisco StadiumVision Director Remote Software

This module describes how to upgrade an existing server already running Cisco StadiumVision Director Remote software. This procedure is also referred to generally as an *ISO upgrade* and is similar to the ISO upgrade on Cisco StadiumVision Director using the Text Utility Interface (TUI).

This module includes the following topics:

Best Practices

Before you begin upgrading an existing Cisco StadiumVision Director Remote server, consider the following best practices:

- Choose an appropriate down time to perform the upgrade on the Cisco StadiumVision Director Remote server when there is adequate time to complete and verify the upgrade before any scheduled events and to allow time to resolve any unexpected issues that might occur.

- Refer to the *Release Notes for Cisco StadiumVision Director Release 3.1* for the latest information about hardware and software requirements, changes, important notes, and caveats for your software release.

- Pay particular attention to the required hardware and software versions for other devices supporting your Cisco StadiumVision solution and be sure that you upgrade those devices as needed. For example, generally only certain firmware versions are supported for the DMP hardware, or a new firmware version is needed to provide additional functionality supported by the Cisco StadiumVision Director software.

- Shut down the Cisco StadiumVision Director Remote server and take a snapshot of the VMware system. Restart the Cisco StadiumVision Director Remote server to prepare for upgrade.

Prerequisites

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

- Your server is running a minimum of Cisco StadiumVision Director Remote Release 3.1.0-193 or higher.

- You have the IP address for the Cisco StadiumVision Director Remote server where you want to upload the ISO upgrade image. You will need to use this information as part of the URL to access the ISO upload utility.

- You have an installer account on the Cisco StadiumVision Director server.

- You have a laptop computer connected to the same network as the Cisco StadiumVision Director Remote server with an SSH client (such as PuTTY) to upgrade an existing server.

> **Note**   You also can use a monitor and keyboard that are directly connected to the Cisco StadiumVision Director Remote UCS C22 server to log into the TUI.

Information About Using the TUI Upgrade Utility to Update an Existing Cisco StadiumVision Director Remote Server

The ISO upgrade procedure for Cisco StadiumVision Director Remote includes the following tasks:

1. Downloading an ISO upgrade file from the software download site on Cisco.com.

2. Uploading the ISO file from your laptop to the Cisco StadiumVision Director Remote server using the upload utility through your browser.

3. Installing the ISO image using the upgrade utility in the Text Utility Interface (TUI).

ISO Upgrade Files

You can store multiple ISO upgrade files on a Cisco StadiumVision Director Remote server. The files will be displayed with a sequence number and the ISO filename in the TUI upgrade utility for you to select which file to install.

Disk Maintenance

There is no automatic aging of ISO upgrade files, but Cisco StadiumVision Director Release 3.1 introduces a utility to delete ISO upgrade files in the TUI.

You can see disk utilization for remote servers from the Management Dashboard on the centralized Cisco StadiumVision Director server, or you can use the TUI to get file system usage.

Figure 1 shows an example of disk utilization reporting available for a Cisco StadiumVision Director Remote server from the Management Dashboard.

Figure 1 *Disk Utilization for Remote Server in Cisco StadiumVision Director Management Dashboard*
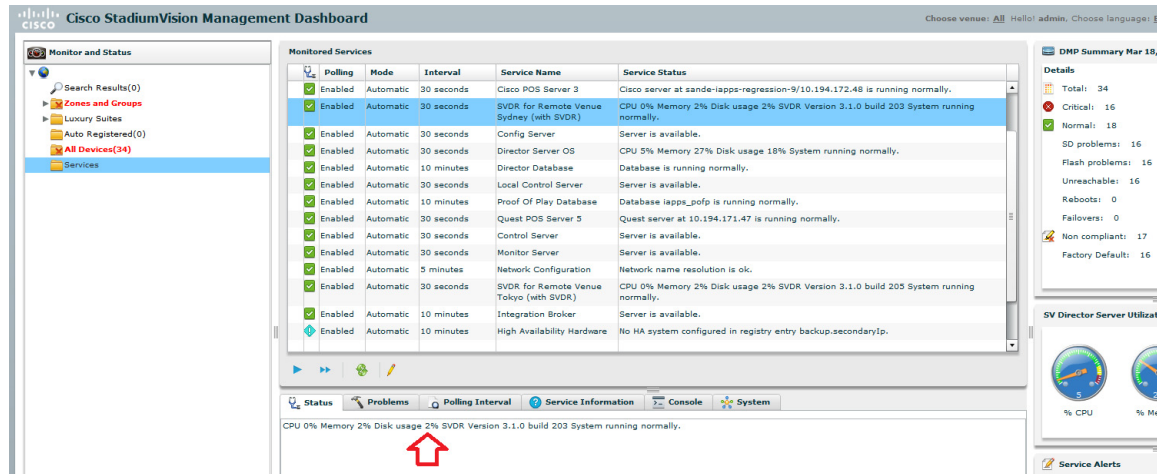
Upgrade Tasks

To upgrade your Cisco StadiumVision Director server, complete the following tasks:

- Downloading ISO Upgrade Files from Cisco.com, page 15 (required)
- Uploading an ISO Upgrade File to the Cisco StadiumVision Director Remote Server, page 16 (required)
- Installing the ISO Upgrade Image on the Cisco StadiumVision Director Remote Server, page 17 (required)

Downloading ISO Upgrade Files from Cisco.com

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

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

Step 1 Go to the Cisco StadiumVision Director software download site at:

http://software.cisco.com/download/release.html?mdfid=283489263&flowid=31962&softwareid=283866237&release=3.1.0&relind=AVAILABLE&rellifecycle=&reltype=latest

Note   This site page is also available from the Cisco StadiumVision Director product support page by clicking **Download Software** > **Cisco StadiumVision Director**.

Step 2 Select the ISO upgrade, and optionally the companion MD5 checksum file, and download them.

Table 1 shows the filename conventions used for ISO upgrades.

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

Table 1   ISO Filename Conventions for Cisco StadiumVision Director Remote

OVA Filename
SVD-REMOTE_UPGRADE_3.1.0-*nnn*.x86_64.iso[1]
SVD-REMOTE_UPGRADE_3.1.0-*nnn*.x86_64.iso.md5sum

1. "*nnn*" represents the build number.

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

- Download both files at one time—Select each file and click **Add to Cart**. Then at the top of the download page, click the "Download Cart (2 items)" link.

- Download each file independently—Click the **Download Now** button in the file selection box for each file.

Step 3 (Optional) To verify the integrity of your upgrade file from the download, you can use a command-line or GUI utility on your laptop to calculate the checksum on the .iso file. Open the .md5sum file to compare the value that you calculated with the expected value provided in the .md5sum file.

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

Uploading an ISO Upgrade File to the Cisco StadiumVision Director Remote Server

After you have downloaded the ISO upgrade file from Cisco.com, you need to upload the file to the Cisco StadiumVision Director Remote server using a URL from a browser to access the ISO uploader utility. Once you have uploaded the software to the server, then you will use the TUI to install the upgrade image.

Prerequisites

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

To upload an ISO upgrade file to the Cisco StadiumVision Director Remote server, complete the following steps:

Step 1 Open your browser, and to go the following URL, where *x.x.x.x* is replaced by the IP address of the server where you want to upload the upgrade software (Figure 2):

http://*x.x.x.x***/cgi-bin/isoupload.cgi**

Figure 2   *ISO Updater Utility*
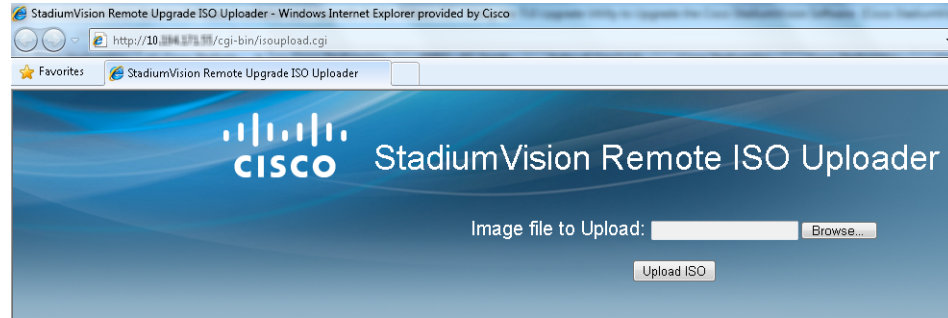
Step 2   Click **Browse** (Figure 2).

Step 3   From the File Upload dialog box, navigate to the location of the ISO upgrade file that you downloaded from Cisco.com. Select the file that you want to upload and click **Open**.

Step 4   Click **Upload ISO**. The file is sent to the server.

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

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

- When the image is validated and uploaded successfully, a message is displayed stating that the ISO image has been uploaded.

- The image upload failed for some reason and you will need to retry the upload again.

Installing the ISO Upgrade Image on the Cisco StadiumVision Director Remote Server

To install the ISO upgrade image on the Cisco StadiumVision Director server, complete the following steps:

Step 1   From a laptop computer that is connected to the Cisco StadiumVision Server Remote network, use an SSH client to run a secure login to the Cisco StadiumVision Director Remote server using the IP address for your server.

Step 2   When the login prompt appears, enter the **installer** userid followed by the installer password at the password prompt.

Step 3 From the TUI Main Menu, go to the StadiumVision Remote Server Administration menu. Select the Upgrade Server option (type **b** and press **Enter**) (Figure 3):

Figure 3   **TUI StadiumVision Remote Server Administration Menu Option for Server Upgrade**

```
Main Menu > StadiumVision Remote Server Administration

              Please choose one of the following menu options:

                    a) Display Software Version
                    b) Upgrade Server
                    c) Restart StadiumVision Remote software
                    d) Shutdown StadiumVision Remote software
                    e) Reboot
                    f) Power Off
              R or < or ,) Return to prior menu
```

Step 4 All of the ISO upgrade files that you have uploaded are displayed with a sequence number and the image name (Figure 4). Type the sequence number that corresponds to the image that you want to install, and press **Enter**.

Figure 4   **ISO Upgrade Image File List**

```
0. - [Cancel]
1. - SVD-REMOTE-UPGRADE-3.1.0-205.x86_64.iso
2. - SVD-REMOTE-UPGRADE-3.1.0-203.x86_64.iso

Please select a number from above and press enter: ▊
```

Step 5 When the upgrade configuration confirmation prompt appears, type **c** to continue (Figure 5):

Figure 5   **TUI Upgrade Configuration Confirmation**

```
              Are you sure you wish to upgrade? Push R to return to main menu
or C to continue.
C
```

The upgrade process begins (Figure 6).

Figure 6   **Start of Upgrade Process**

```
Beginning upgrade process...
umount: /var/sv/rpms/: not mounted
Loaded plugins: security
Cleaning up Everything
Loaded plugins: security
Cisco                                          |  951 B    00:00
Cisco/filelists                                |   18 kB   00:00
Cisco/other                                    | 8.2 kB    00:00
Cisco/primary                                  |   23 kB   00:00
svd-update                                     |  951 B    00:00
svd-update/filelists                           | 219 kB    00:00
svd-update/other                               | 1.4 MB    00:00
svd-update/primary                             | 141 kB    00:00
Cisco                                                      26/26
```

⚠
Caution Wait until the upgrade process completes, which should only take a few minutes. *Do not* close the terminal while the upgrade is in progress. You will get notification once the installation is complete.

Step 6 When the "Upgrade complete" message appears, press any key. (Figure 7):

Figure 7   *End of ISO Upgrade Process*

```
Restarting SV-Remote services. Please wait...
Stopping StadiumVision Remote distribution
Using CATALINA_BASE:   /opt/sv/servers/distribution
Using CATALINA_HOME:   /opt/sv/servers/common
Using CATALINA_TMPDIR: /opt/sv/servers/distribution/temp
Using JRE_HOME:        /usr/java/latest
Using CLASSPATH:       /opt/sv/servers/common/bin/bootstrap.jar
Force stopping svd-distribution...
Stopping httpd:                                    [  OK  ]

Starting httpd
Starting httpd: [  OK  ]

Starting SV-Remote
Starting StadiumVision Remote distribution


Upgrade complete.
Press any key to return to the menu.
```

Verifying the Upgrade

To verify the upgrade, completing the following steps:

Step 1 Log into the TUI as installer on the Cisco StadiumVision Director Remote server.

Step 2 Go to **Services Control** > **StadiumVision Remote Services** > **All**.

Step 3 Select **Show Status** and confirm that the distribution service is reported as running normally (Figure 8):

Figure 8   *Verifying Distribution Service Status*

```
Calling sv-remote. Please wait for status below to ensure status.

*** StadiumVision Remote Overall Status ***
StadiumVision Remote distribution Running
Command completed sucessfully.
Press any key to return to the menu.
```

Step 4 Press any key to return to the All menu.

Step 5 Continue to return to the Main Menu and exit the TUI.

Appendix A: Cisco UCS C22 Hardware Installation Guidelines

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If you are using the Cisco UCS C22 Server for your Cisco StadiumVision Director Remote server platform, be sure to follow the hardware setup guidelines found in this module before installing the virtualization environment and Cisco StadiumVision Director Remote software.

This section includes the following topics:

Prerequisites

Be sure that the following requirements are met before you install the Cisco UCS C22 hardware:

- You have a monitor and keyboard that you can connect to the server.
- You have the following information for configuring the internal Cisco Integrated Management Controller (CIMC) interface:
  - If not using DHCP to provide addressing, you have an additional IP address for static configuration.

Tip You also will need an IP address when you configure the eth0 network interface during the Cisco StadiumVision Director Remote software installation.

  - You have the VLAN ID if the server will be installed on a network VLAN.
  - You are prepared to change the default CIMC login password.
- You have a copy of or access to the *Cisco UCS C22 Server Installation and Service Guide* on Cisco.com.

> **Note** Familiarize yourself with the safety guidelines and warnings, overview of the server, and the installation instructions provided in the *Cisco UCS C22 Server Installation and Service Guide*. Use the information in this appendix only as a guide to the tasks that you need to perform from that installation and service guide to set up the Cisco UCS C22 server for use as a Cisco StadiumVision Director Remote server in a virtualized environment.

Installation Guidelines

To support the Cisco StadiumVision Director Remote server virtualized environment, the Cisco UCS C22 hardware must be installed according to the following guidelines:

- The server is configured for a single-CPU architecture.
- PCIe slot 1 is used for the LSI MegaRAID 9220-4i PCIe card.

> **Caution** VMware ESX/ESXi or any other virtualized environments are not supported for use with the embedded MegaRAID controller. In addition, dual controllers or mixed controller types are not supported. Therefore, the embedded MegaRAID controller must not be connected or used.

- You will only use one UCSC-CABLE-A5 cable to connect the LSI add-on card.

> **Tip** You will not need the two UCSC-CABLE-AE mini-SAS cables that are shipped with the hardware (these cables have a 90-degree angle). These are intended for the embedded megaRAID controller which should not be used for this configuration.

Installation Summary

This section provides an overview of the basic tasks to be completed when installing the Cisco UCS C22 server hardware for the Cisco StadiumVision Director Remote server environment.

> **Caution** Refer to the instructions for performing these steps in the *Cisco UCS C22 Server Installation and Service Guide* on Cisco.com. To ensure the proper cable routing for a RAID controller in a single-CPU configuration, be sure to refer to the "RAID Controller Cabling" topic in the "RAID Controller Considerations" module of that guide.

After you unpack and inspect the server and prepare for installation, be sure to complete the following tasks:

	Description
Step 1	Install the hard drives.
	⚠️
	Caution Be sure that the drives are installed in the appropriate bays for control by the LSI MegaRAID 9220-4i card that will be installed in PCIe slot 1.
Step 2	Install the DIMMs.
Step 3	Install the LSI MegaRAID 9220-4i PCIe card.
Step 4	Connect the RAID controller card cable for a 1-CPU configuration.
	✎
	Note The LSI MegaRAID 9220-4i PCIe card uses one UCSC-CABLE-A5 mini-SAS cable for the 1-CPU configuration.
Step 5	Disable the embedded RAID controller in BIOS.
Step 6	Create one logical drive using the wizard in the LSI MegaRAID configuration utility.
	Tip To access the LSI MegaRAID configuration utility, press Ctrl-H when the RAID POST message appears after exiting the BIOS and rebooting in Step 7.
Step 7	Configure the CIMC interface with the following settings:
	• NIC mode—Dedicated
	• DHCP—Dependent on client network. If you disable DHCP, be prepared to configure a static IP address.
	• VLAN—Dependent on client network.
	• NIC Redundancy—None
	🔎
	Tip The instructions for configuring the CIMC interface are found in the "Initial Server Setup" topic of the "Installing the Server" module in the *Cisco UCS C22 Server Installation and Service Guide.*