



Installing and Upgrading Cisco Video Surveillance Manager Release 6.3.1

Overview

This document provides information about installing Cisco Video Surveillance Manager (VSM), which includes Cisco Video Surveillance Operations Manager (VSOM), Cisco Video Surveillance Media Server (VSMS), Cisco Video Surveillance Encoding Server (VSES), and Cisco Video Surveillance Virtual Matrix (VSVM).



Note

The software build or version numbers that are included in the code samples in this document may differ slightly from the versions that you have on your system.

This document includes these topics:

- [System Requirements and Recommended Baseline Configuration, page 2](#)
- [Installation Notes, page 5](#)
- [Preparing Your System to Install VSM, page 6](#)
- [Installing VSM, page 9](#)
- [Configuring VSM, page 12](#)



- [Upgrading VSM, page 13](#)
- [Backing Up and Restoring VSOM and VSMS, page 18](#)

System Requirements and Recommended Baseline Configuration

The following sections describe the requirements for the server on which you install VSM, and describe the requirements and recommended baseline configuration for the client PC that you use to access video on VSM.

- [Server, page 2](#)
- [Client PC, page 3](#)

Server

The server must meet the following requirements:

- Operating system (one of the following):
 - Red Hat Enterprise Linux (RHEL) 4.2
 - SuSE Enterprise 9 Service Pack 3 (SLES9-SP3)
 - SuSE Enterprise 10 Service Pack 1 (SLES10-SP1)
Recommended; preinstalled on the Cisco Physical Security Multiservices Platform
 - SuSE Enterprise 10 Service Pack 1 64-bit (SLES10-SP1-64)
- Hardware—Cisco Physical Security Multiservices series devices are recommended. For additional information about these devices, go to this URL:
http://www.cisco.com/en/US/products/ps10823/tsd_products_support_series_home.html

Client PC

This section provides information about the configuration of a dedicated client PC. It includes baseline recommendations, which are designed to ensure that a client PC provides the desired quality of the monitoring experience.

The performance of a client PC on which you display multiple windows of surveillance video depends on many variables, including, CPU, memory, bus speeds, graphics card capabilities, and other applications that are installed on the client PC. The quality of the monitoring experience also can vary depending on the type of system used, the number of video streams being rendered, and the characteristics of those streams.

This section also describes the minimum requirements for any client PC. A client PC must meet these requirements so that it can install and run the Cisco Video Surveillance Client and display a single video stream.

**Note**

When you first access a new or upgraded version of VSOM from a client PC, you may be prompted to install the Cisco Video Surveillance Client. If you are using a client PC that is running Microsoft Windows 7, Cisco recommends that you perform this installation as a user with a Windows administrator account. Otherwise, you are prompted for a Windows administrator password when you perform the installation and each time you run VSVM.

For related information, see *Video Surveillance Monitoring Workstation Recommended Baseline Specification*, which is available here:

http://www.cisco.com/en/US/products/ps9153/prod_technical_reference_list.html

Minimum System Requirements

- Operating system—Microsoft Windows XP SP3 32-bit with DirectX 9.0 or later; Microsoft Windows 7 64-bit
- Browser:
 - For Microsoft Windows XP SP3 32-bit with DirectX 9.0 or later: Microsoft Internet Explorer 7.0 or 8.0
 - For Microsoft Windows 7 64-bit: Internet Explorer 8.0 32-bit
- Network connection—Gigabit Ethernet (GigE)

- Video Mixing Rendering (VMR)—A graphics card that supports VMR is needed for the following features and functions:
 - High definition video
 - Motion configuration with motion configuration rectangles
 - Digital PTZ
 - Hue, saturation, luminosity, contrast controls
 - Alpha blending of the VMR toolbar
 - CVA clip playback
 - Multiple monitors (Microsoft Windows 7)

Recommended Baseline Specification

- Hardware
 - CPU—Intel 950 i7 Core, 3.07 GHz
 - Memory—6 GB DDR3
 - Graphics card—NVIDIA GeForce GTX260 896 MB PCI Express
- Display configuration—Single graphics card with a single monitor or dual monitor. Dual monitors must be configured as a Horizontal Span (NVIDIA graphics cards) or a Stretch Desktop (ATI graphics cards)

Microsoft Windows 7 Configuration Requirements

Make the following configuration settings for each Windows user account that will access VSM from a client PC that runs Microsoft Windows 7:

- Enable automatic detection of the intranet network in Internet Explorer:

From Internet Explorer, choose **Internet Options > Security tab > Local Intranet** and check the **Automatically detect intranet network** check box.
- Disable protected mode in Internet Explorer so that you can save video clips to the PC:

From Internet Explorer, choose **Internet Options > Security tab > Local Intranet > Sites** and uncheck the **Enable Protected Mode** check box.

- If you will use multiple monitors with VSM, ensure that Use VMR is enabled for the operator views. To do so, go the VSOM Administrator pages, click **Settings** in the panel on the left, then check the **Use VMR** check box in the Operator View Settings are in the Settings tab. To save the configuration, click the **Submit** button at the bottom of the page on your screen.

Installation Notes

- For all installations, the host name must be modified. Before you install VSM, edit the `/etc/hosts` file and change

```
127.0.0.1          VSM-RHEL4U2 localhost
```

to

```
127.0.0.1          localhost
```

- Cisco strongly recommends that you use an uninterruptible power supply (UPS) with the servers in your VSM deployment and ensure that each UPS operates correctly.
- On the Cisco Video Surveillance Management Console (VSMC), you can set the default server home page to VSMC or VSOM.
- Cisco recommends that you use NTP source to maintain the correct time on the server. Configuring NTP should be done before video recording is configured. The hardware clock should be set to use UTC time and the appropriate time zone for the server. If you are using SUSE, you can use YaST to configure the server time.
- The performance of client devices can vary depending on client configuration and applications.
- The permissions for each media repository used by VSM (both for archives and server-side clips) should be set to 755 using the command **chmod 755 directory**. The user and group ownership for the repository directory should be set to **nobody** using the command **chown nobody.nobody directory**.

Preparing Your System to Install VSM

Before you install VSM, you must install MySQL and the appropriate dependencies for VSMS, as described in the following sections:

- [Installing MySQL, page 6](#)
- [Installing Dependencies for VSMS, page 7](#)
- [Configuring Hostname Resolution on VSM Servers, page 8](#)

Installing MySQL

VSOM requires MySQL 5.0.x, which is included with SLES10 SP1. For other Linux distributions, go to the MySQL website to obtain the software. The MySQL server, client, and shared libraries are required. There are also additional package dependencies, as listed in the following procedure.

**Note**

You must install the 32-bit version of the MySQL shared libraries, even if you are running a 64-bit operating system (such as SLES 10, SP1, 64 bit). You do not need to install the 32-bit versions of MySQL server or client packages.

To install MySQL, follow these steps:

Procedure

Step 1 Install the following RPMs:

- MySQL-server 5.0.x
- MySQL-client 5.0.x
- MySQL-shared 5.0.x

Step 2 Install the following additional dependencies, depending upon your operating system:

RHEL 4 Update 2 (4.2):

- perl-DBI

SLES10 SP1:

- perl-DBI
- perl-DBD

SLES10 SP1 (64-bit):

- MySQL-shared (32-bit)
- perl-DBI
- perl-DBD

Step 3 Start the MySQL database by running the following command:

```
shell> service mysql start
```

Step 4 Set the MySQL database to start on boot by running the following command:

```
shell> chkconfig mysql on
```

Installing Dependencies for VSMS

Before installing VSMS, you must install the following RPMs. For information about installing the RPMs, see your Linux documentation.

- SLES9 SP3:
 - libelf-0.8.5-47.2.i586.rpm
 - db1-1.85-101.2.i586.rpm
 - sysstat-6.0.2-16.19.i586.rpm
- SLES10 SP1 (32-bit and 64-bit):
 - libelf-0.8.5-47.2.i586.rpm
 - db1-1.85-101.2.i586.rpm
 - sysstat-6.0.2-16.19.i586.rpm

- RHEL4 Update 2:
 - compat-db
 - perl-Net-SNMP
 - perl-Socket6
 - perl-Crypt-DES

Configuring Hostname Resolution on VSM Servers

The servers on which VSOM and VSMS run communicate with each other by using their hostnames or IP addresses. Cisco recommends that you configure hostname resolution so that you do not need to reconfigure a VSM system if IP addresses change in your deployment.

You can configure hostname resolution for a server in either of these ways:

- By configuring a DNS server that resolves the hostname of each VSM server.
- By configuring the IP address of each other VSM server to map to its corresponding hostname. To do so, take either of these actions:
 - Use a text edit the `/etc/hosts` file and add the IP address and host name pair of each other VSM server. Enter the IP address and host name of each other server once. It is not necessary include the IP address and host name of the server that you are configuring.

The following example shows the IP address of one VSOM host and two VSMS hosts, with the fully qualified host name and the short host name of each server:

```
192.168.1.10      VSOM.cisco.com VSOM
192.168.1.11      VSMS-1.cisco.com VSMS-1
192.168.1.12      VSMS-2.cisco.com VSMS-2
```

- If you are using SUSE, you can add the IP address of the other VSM servers by choosing **Network Services >DNS** in the YaST module.

Installing VSM

This section describes how to install VSM.



Note For information about upgrading VSM, see the “[Upgrading VSM](#)” section on [page 13](#).

Procedure

- Step 1** Take these actions to obtain the VSM software:
- Go to the following URL:
<http://tools.cisco.com/support/downloads/go/Redirect.x?mdfid=281522804>
 - Choose **Physical Security > Network-Centric Video Surveillance**.
 - Download the .zip file for each VSM product that you want to install.
- Step 2** Extract the contents of the downloaded .zip files into a directory that you create. The following example shows the commands if you are installing all VSM products.
- ```
shell> mkdir vsm-6.3.1
shell> unzip Cisco_VSOM-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSMS-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSES-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSVM-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_CIVS-ENC-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
```
- Step 3** Verify that all required files are present for the products that you want to install (see [Table 1](#); “Yes” indicates that a file is required).

**Table 1** RPM Files Required for VSM Products

| Product                             | VSOM | VSMS | VSES | VSVM | 16 x D1 and 8 x D1 Video Encoder Cards |
|-------------------------------------|------|------|------|------|----------------------------------------|
| Cisco_VSBase-6.3.1-xx-xxxxx.rpm     | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSRecorder-6.3.1-xx-xxxxx.rpm | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSMS-6.3.1-xx-xxxxx.rpm       | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSES-6.3.1-xx-xxxxx.rpm       | —    | —    | Yes  | —    | Yes                                    |

**Table 1 RPM Files Required for VSM Products (continued)**

| Product                            | VSOM | VSMS | VSES | VSVM | 16 x D1 and 8 x D1 Video Encoder Cards |
|------------------------------------|------|------|------|------|----------------------------------------|
| Cisco_VSDrivers-6.3.1-xx-xxxxx.rpm | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_BWT-6.3.1-xx-xxxxx.rpm       | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSDocs-6.3.1-xx-xxxxx.rpm    | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSVM-6.3.0-xx-xxxxx.rpm      | —    | —    | —    | Yes  | —                                      |
| Cisco_VSOM-6.3.1-xx-xxxxx.rpm      | Yes  | —    | —    | —    | —                                      |
| Cisco_Tomcat-6.0.18-x.rpm          | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSOM_BE-6.3.1-xx-xxxxx.rpm   | Yes  | —    | —    | —    | —                                      |
| Cisco_VSTools-6.3.1-xx-xxxxx.rpm   | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| jre-6u17-linux-i586.rpm            | Yes  | Yes  | Yes  | —    | Yes                                    |

**Step 4** For VSOM, VSMS, and VSES, Install the JRE RPM by running the following command from the folder to which you extracted the jre-6u17-linux-i586.rpm file:

```
shell> rpm -ivh jre-6u17-linux-i586.rpm
```

The JRE is installed under the /usr/java directory (for example, /usr/java/jre1.6.0\_17).

**Step 5** Run the following commands to verify that JRE is installed correctly:

```
shell> cd /usr/java
shell> ls -l java
```

The output should be a symbolic link that includes the following at the end:

```
java -> /usr/java/jre1.6.0_17
```

If a symbolic link does not include this text or does not appear at all, use these commands to resolve this issue:

```
shell> rm -rf java
shell> ln -s jre1.6.0_17 java
```

- Step 6** Install the Cisco .rpm files from the directory using the **rpm -ivh** command. Run the command for each .rpm file that is included with your product. The appropriate zip files are provided based on the [Table 1](#).

```
shell> rpm -ivh Cisco_*.rpm
```

For example:

```
shell> rpm -ivh Cisco_VSMS-6.3.1-xx-xxxxx.rpm
```

- Step 7** If you are installing VSOM, create the VSOM database in MySQL, and enter the MySQL password when prompted.

```
shell> bash /usr/BWhttpd/vsom_be/db/database_create.sh
```

It is a best practice to set a MySQL user root password. If you need to set this password, perform the following steps:

- a. Log in to the server console as the user “root.”
- b. Enter the following command:

```
shell> mysql -u root
```

The command prompt changes to mysql.

- c. Enter the following commands, replacing *new\_password* with the password you want to set:

```
mysql> SET PASSWORD FOR 'root'@'localhost' =
PASSWORD("new_password");
```

```
mysql> SET PASSWORD FOR 'root'@'%' = PASSWORD("new_password");
```

- Step 8** Click **Restart Server, Restart Now**, and then **Verify**.



**Note**

You can set the default home page from the Management Console. For instructions, see the “Using the VSM Management Console” chapter in *Cisco Video Surveillance Manager User Guide*.

# Configuring VSM

To configure each installed VSM product using the Video Surveillance Management Console (VSMC), follow these steps.

## Procedure

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**Step 1** Open a web browser from a Windows PC and enter the following:

**`http://server/vsmc.html`**

where *server* is the IP address or host name of the VSM host.



**Note** The system prompts you to log in the first time you access a page to modify the configuration. The default user name is **root** and the default password is **secur4u**.

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**Step 2** For VSOM:

- a. Click the **Operations Manager** link to access the VSOM configuration.
- b. Choose **Change the default home page to VSOM**.
- c. Click **Update**.

**Step 3** For VSMS:

- a. Click the **Media Server** link to access the VSMS configuration.
- b. Check the **Local Archives Repositories** check box for recording archives.
- c. Choose a local BWM/X clip repository for storing BWM and BWX clips.
- d. Choose one or more backup repositories.
- e. Click **Update**.

**Step 4** Click **Restart Server**, **Restart Now**, and then **Verify**.

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# Upgrading VSM

This section describes how to upgrade VSM. Upgrading includes these general steps:

1. Upgrade the VSM software
2. Upgrade IP camera firmware

The following sections describe these steps in more detail:

- [Upgrading the VSM Software, page 13](#)
- [Upgrading IP Camera Firmware, page 17](#)

## Upgrading the VSM Software

To upgrade VSM, perform the following steps.

**Note**

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You can upgrade VSMS 6.3.0 to VSMS 6.3.1 by using the server upgrade procedure from the VSM Management Console. For more information, see the “Server Upgrade Page” section in *Cisco Video Surveillance Manager User Guide, Release 6.3.1*.

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**Procedure****Step 1**

Take one of the following actions to back up the VSOM database and the VSMS configuration:

- If you are upgrading software on a server that includes VSOM but not VSMS, back up the VSOM database
- If you are upgrading software on a server that includes VSMS but not VSOM, back up the VSMS configuration
- If you are upgrading software on a server that includes VSOM and VSMS, back up the VSOM database and the VSMS configuration

For information about performing a backup, see the “[Backing Up and Restoring VSOM and VSMS](#)” section on page 18

**Step 2** Stop the Cisco service:

```
shell> /etc/init.d/cisco stop
```

**Step 3** If you are upgrading from VSM 4.2.1/6.2.1, take these actions to uninstall all existing versions of Java:

a. Check for existing Java RPMs by using the following commands:

```
shell> rpm -qa | grep j2sdk
shell> rpm -qa | grep jdk
shell> rpm -qa | grep java
shell> rpm -qa | grep jre
```

b. If there are any RPMs, remove them by using the following command, where *java\_rpm* refers to each RPM that was returned in the previous step:

```
shell> rpm -e java_rpm
```

c. Use the following commands to verify that there are no versions of Java RPMs remaining on the system:

```
shell> rpm -qa | grep j2sdk
shell> rpm -qa | grep jdk
shell> rpm -qa | grep java
shell> rpm -qa | grep jre
```

**Step 4** Use the following command to obtain a list of older Cisco .rpm files to uninstall:

```
shell> rpm -qa | grep Cisco
```

**Step 5** Uninstall each RPM by using the following command, where *rpmname* is the name of the package:

```
shell> rpm -e rpmname
```

**Step 6** Take these actions to obtain the VSM software:

a. Go to the following URL:

<http://tools.cisco.com/support/downloads/go/Redirect.x?mdfid=281522804>

b. Choose **Physical Security > Network-Centric Video Surveillance**.

c. Download the .zip file for each VSM product that you want to install.

**Step 7** Extract the contents of the downloaded .zip files into a directory that you create. The following example shows the commands if you are installing all VSM products.

```

shell> mkdir vsm-6.3.1
shell> unzip Cisco_VSOM-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSMS-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSES-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_VSVM-6.3.1-xx-xxxxx.zip -d vsm-6.3.1
shell> unzip Cisco_CIVS-ENC-6.3.1-xx-xxxxx.zip -d vsm-6.3.1

```

- Step 8** Verify that all required files are present for the products that you want to install (see [Table 2](#); “Yes” indicates that a file is required).

**Table 2** RPM Files Required for VSM Products

| Product                             | VSOM | VSMS | VSES | VSVM | 16 x D1 and 8 x D1 Video Encoder Cards |
|-------------------------------------|------|------|------|------|----------------------------------------|
| Cisco_VSBase-6.3.1-xx-xxxxx.rpm     | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSRecorder-6.3.1-xx-xxxxx.rpm | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSMS-6.3.1-xx-xxxxx.rpm       | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSES-6.3.1-xx-xxxxx.rpm       | —    | —    | Yes  | —    | Yes                                    |
| Cisco_VSDrivers-6.3.1-xx-xxxxx.rpm  | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_BWT-6.3.1-xx-xxxxx.rpm        | —    | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSDocs-6.3.1-xx-xxxxx.rpm     | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSVM-6.3.0-xx-xxxxx.rpm       | —    | —    | —    | Yes  | —                                      |
| Cisco_VSOM-6.3.1-xx-xxxxx.rpm       | Yes  | —    | —    | —    | —                                      |
| Cisco_Tomcat-6.0.18-x.rpm           | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| Cisco_VSOM_BE-6.3.1-xx-xxxxx.rpm    | Yes  | —    | —    | —    | —                                      |
| Cisco_VSTools-6.3.1-xx-xxxxx.rpm    | Yes  | Yes  | Yes  | Yes  | Yes                                    |
| jre-6u17-linux-i586.rpm             | Yes  | Yes  | Yes  | —    | Yes                                    |

- Step 9** For VSOM, VSMS, VSES, and 16 x D1 and 8 x D1 video encoder cards, install the JRE RPM by running the following command from the folder to which you extracted the jre-6u17-linux-i586.rpm file:

```
shell> rpm -ivh jre-6u17-linux-i586.rpm
```

The JRE is installed under the /usr/java directory (for example, /usr/java/jre1.6.0\_17).

- Step 10** For VSOM, VSMS, VSES, and 16 x D1 and 8 x D1 video encoder cards, run the following commands to verify that JRE is installed correctly:

```
shell> cd /usr/java
shell> ls -l java
```

The output should be a symbolic link that includes the following at the end:

```
java -> /usr/java/jre1.6.0_17
```

If a symbolic link does not include this text or does not appear at all, use these commands to resolve this issue:

```
shell> rm -rf java
shell> ln -s jre1.6.0_17 java
```

- Step 11** Install the Cisco .rpm files from the directory using the **rpm -ivh** command. Run the command for each .rpm file that is included with your product. The appropriate zip files are provided based on the [Table 2](#).

```
shell> rpm -ivh Cisco_*.rpm
```

For example:

```
shell> rpm -ivh Cisco_VSMS-6.3.1-xx-xxxxx.rpm
```

- Step 12** If you are upgrading VSOM, update the VSOM database in MySQL, entering the MySQL password when prompted.

```
shell> bash /usr/BWhttpd/vsom_be/db/database_update.sh
```

- Step 13** Open a browser and log in to the Management Console at **<http://server/vsmc.html>**, where server is the IP address or host name of the VSM host.

- a. Click the **Restart Server** link under Monitoring at the left side of the console window.
- b. Click **Restart Now**.



## Upgrading IP Camera Firmware

After you perform the VSM upgrade, upgrade the firmware on your Cisco IP cameras, if needed. Cisco recommends that you upgrade the firmware in each camera in your VSM deployment to the latest version.

VSM 6.3.1 is compatible with the following IP camera versions:

- Standard definition IP cameras—Firmware release 2.1.5 or later
- High definition IP cameras:
  - If you will not use the Cisco video analytics feature—Firmware release 1.2.1 or later
  - If you will use the Cisco video analytics feature—Firmware release 1.9.1.6 or later

To update IP camera firmware, follow these guidelines:

- Upgrading firmware on a standard definition camera from release 1.x to release 2.x requires the Video Surveillance IP Camera Utility. You can download this utility by going to [Cisco.com](https://www.cisco.com) and choosing **Support > Download Software > Physical Security and Building Systems > Physical Security -> Video Surveillance IP Cameras > Cisco Video Surveillance 2500 Series IP Cameras > Cisco Video Surveillance 2500 IP Camera > Video Surveillance IP Camera Utility**. For related information, see your IP camera documentation.
- Upgrading firmware on a standard definition camera from release 2.x to release 2.x can be performed by using the Camera Firmware Upgrade feature in the VSM Management Console. For instructions, see the “Using the VSM Management Console” chapter in *Cisco Video Surveillance Manager User Guide*.
- Upgrading firmware on a high definition camera HD can be performed by using the Camera Firmware Upgrade feature in the VSM Management Console. For instructions, see the “Using the VSM Management Console” chapter in *Cisco Video Surveillance Manager User Guide*.

# Backing Up and Restoring VSOM and VSMS

After configuring VSM, you can back up the VSOM database and configuration and the VSMS configuration. Make sure to back up the configuration before upgrading. For related information, see *Cisco Video Surveillance Manager User Guide*.

The following sections describe how to back up and restore VSOM and VSMS:

- [Backing up VSOM, page 18](#)
- [Backing up VSMS, page 19](#)
- [Restoring VSOM, page 20](#)
- [Restoring VSMS, page 21](#)

## Backing up VSOM

To back up VSOM, follow these steps:

### Procedure

**Step 1** Open a web browser from a Windows PC and enter the following:

**`http://server/vsmc.html`**

where *server* is the IP address or host name of the VSM host.



**Note** The system prompts you to log in the first time you access a page to modify the configuration. The default user name is **root** and the default password is **secur4u**.

**Step 2** Click the **Operations Manager Backup** link on the Console page.

**Step 3** Click **Download**.



**Note** If a MySQL password is defined, you must enter the password before you can click **Download**.

**Step 4** When prompted, save the .gz file to a secure directory.

The VSOM backup file is named `VSOM_Server_backup_Timestamp`. *Server* is the host name or IP address of the VSOM host from which you are running the backup. *Timestamp* is the date and time at which you initiated the backup. For example, `VSOM_PST_backup_20100227153851.tar.gz`.

---

## Backing up VSMS

To back up VSMS, follow these steps:

### Procedure

---

**Step 1** Open a web browser from a Windows PC and enter the following:

**`http://server/vsmc.html`**

where *server* is the IP address or host name of the VSM host.



**Note** The system prompts you to log in the first time you access a page to modify the configuration. The default user name is **root** and the default password is **secur4u**.

---

**Step 2** Click the **Media Server Backup** link on the Console page.

**Step 3** Click **Download**.

**Step 4** When prompted, save the .gz file to a secure directory.

The VSMS backup file is named `VSMS_Server_backup_timestamp`. *Server* is the host name or IP address of the VSOM host from which you are running the backup. *Timestamp* is the date and time at which you initiated the backup. For example, `VSMS_PST_backup_20100227153851.tar.gz`.

---

## Restoring VSOM

Restoration is needed only if a system failure occurs. To restore the VSOM configuration, perform the following steps.



### Note

This process is not intended for copying a configuration from VSOM server to another VSOM server. All of the feeds, archives, and events will work in VSOM only if these configurations are available in VSMS as well.

### Procedure

- Step 1** Enter the following command to stop the server:
- ```
shell> /etc/init.d/cisco stop
```
- Step 2** Uninstall the VSOM packages (see [Table 1 on page 9](#) for the list of packages).
- Step 3** Reinstall the VSOM packages (see [Table 1 on page 9](#) for the list of packages).
- Step 4** Perform the following steps to extract the backed up VSOM configuration data to the new server. This process extracts all necessary configuration files, including proxy, archive, and event data.
- Locate the VSOM backup file that was created by using the VSOM console Backup command.
 - Use SSH to access the new VSOM server as the root user.
 - Copy the VSOM backup file from its current location to the VSOM server.
 - From the SSH command line, enter the following command, where *filename* is the name of the backup file, and must include the .tar.gz extension:


```
shell> /usr/BWhttpd/bin/vsom_backup_restore -f filename
```

For example:

```
shell> /usr/BWhttpd/bin/vsom_backup_restore -f
VSOM_psbu-dev03_backup_20100128164352.tar.gz
```
- Step 5** Restart the server.
- ```
Shell> /etc/init.d/cisco restart
```

## Restoring VSMS

Restoration is needed only if a system failure occurs. To restore the VSMS configuration, perform the following steps.



### Note

This process is not intended for copying a configuration from VSMS server to another VSMS server.

### Procedure

- Step 1** Enter the following command to stop the server:
- ```
shell> /etc/init.d/cisco stop
```
- Step 2** Uninstall the VSMS packages (see [Table 1 on page 9](#) for the list of packages).
- Step 3** Reinstall the VSMS packages (see [Table 1 on page 9](#) for the list of packages).
- Step 4** Perform the following steps to extract the backed up VSMS configuration data to the new server. This process extracts all necessary configuration files, including proxy, archive, and event data.
- Locate the VSMS backup file that was created by using the Media Server Backup command.
 - Use SSH to access the new VSMS server as the root user.
 - Copy the VSMS backup file from its current location to the VSMS server.
 - Use the following command to extract the backup file, where *filename* is the name of the backup file, and must include the .tar.gz extension:


```
shell> gunzip filename.tar.gz
```
 - From the SSH command line, enter:


```
shell> tar -Ppxvf filename.tar
```

For example:

```
shell> tar -Ppxvf VSMS_PST_backup_20070327153851.tar
```
- Step 5** Restart the server:
- ```
shell> /etc/init.d/cisco restart
```

- Step 6** Open the Management Console and set the storage, PTZ, and other configuration information as needed.
- 

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