



Installing and Upgrading the Cisco Video Surveillance Operations Manager (VSOM) Release 4.2.1

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Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

System Requirements

This section describes the requirements of the server and client systems on which you install VSOM.

The server must meet the following minimum requirements:

- Hardware
 - Intel Celeron or Pentium, 1.7 GHz
 - 1 GB DRAM
 - 10 GB hard disk
- Operating System (one of the following):
 - Red Hat Enterprise 4 Update 2 (RHEL4)
 - SuSE Enterprise 9 Service Pack 3 (SLES9-SP3)
 - SuSE Enterprise 10 Service Pack 1 (SLES10-SP1)
 - SuSE Enterprise 10 Service Pack 1 64-bit (SLES10-SP1-64)

A client PC must meet the following minimum requirements:

- Hardware
 - 1.7 GHz Pentium III if running 1 video window
 - 1.7 GHz Pentium 4 if running 2 video windows
 - 3.2 GHz Pentium 4 with hyperthreading enabled if running 4 video windows
 - 1 GB DRAM
 - ATI or Nvidia DirectX 9 compatible graphics interface. The graphics interface and Drivers must support DirectX Acceleration, Direct3D Acceleration, and AGP texture acceleration and have at least 128 MB of video memory.
- Operating system:
 - Microsoft Windows XP SP2 (32-bit)
- Software:
 - Microsoft Internet Explorer 6.0
 - Microsoft DirectX 9.0c

Installation Notes

- Licenses are no longer required for VSOM, Cisco Video Surveillance Media Server (VSMS), and Cisco Video Surveillance Virtual Matrix (VSVM).
- On the Cisco Video Surveillance Management Console (VSMC) you can set the default server home page to VSMC or VSOM.
- The Pegasus MJPEG video decoder is installed automatically with the VSOM client.
- 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.

Obtaining VSOM Software

The VSOM software is available from

<http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=281550158>

You must log in to the Cisco website to access the software. Select the Cisco Video Surveillance Operations Manager software version for the appropriate for your Linux version.

Before You Install

Before you install VSOM, you must install all software pre-requisites.

Software Prerequisites

In addition to the default SUSE or Red Hat installation, the following software packages are required. Unless otherwise indicated, all packages are provided by the operating system, refer to the media from the operating system vendor to locate the necessary files.

- All platforms
 - MySQL server 5.0.x
 - MySQL client 5.0.x
 - MySQL shared libraries 5.0.x
- SLES10-SP1-64
 - MySQL shared libraries 5.0.x (32-bit version)

Installing VSOM

Copy the downloaded .zip file containing the VSOM software to the server and then follow these steps:

Procedure

- Step 1** Extract the contents of the downloaded .zip file. Cisco recommends that you create a directory for the extracted contents.

```
shell> mkdir vsom-4.2.1
shell> unzip Cisco_VSOM-4.2.1-xx-xxxxx.zip -d vsom-4.2.1
```

- Step 2** Verify that all files are present:

```
shell> cd vsom-4.2.1
shell> ls -l
Cisco_VSBase-6.2.1-xx-xxxx-i586.rpm
Cisco_VSOM-4.2.1-xx.i586.rpm
Cisco_VSTools-6.2.1-noarch.rpm
```

Step 3 Install the VSOM .rpm files:

```
shell> rpm -ivh Cisco_VSBase-6.2.1-xx-xxxxx-i586.rpm
shell> rpm -ivh Cisco_VSOM-4.2.1-xx-xxxxx-i586.rpm
shell> rpm -ivh Cisco_VSTools-6.2.1-noarch.rpm
```

Step 4 Create the VSOM database in MySQL:

```
shell> mysql -u root -p < /usr/BWhttpd/vsom/db/mysql-create-<version>.sql
```

Step 5 Enter the MySQL password when prompted. 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 '@'localhost' = PASSWORD("new_password");
```

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

Configuring VSOM

After you install VSOM, perform the following steps to use the Management Console (VSMC). The VSMC authentication information is as follows:

- Userid: root
- password: secur4u

Procedure

Step 1 Create the VSOM database in MySQL:

```
# mysql -u root -p < /usr/BWhttpd/vsom/db/mysql-create-<version>.sql
```

Enter the MySQL password when prompted. The default password is blank; press enter if there is no password.

Step 2 Open a web browser from a Windows PC and enter `http://<server name/IP address>/vsmc.html`.

Step 3 Click the Operations Manager link to access the VSOM configuration. You are prompted to authenticate.

Step 4 Click **Update**.

Step 5 Click **Restart Server, Restart Now, and Verify**.

Backing up VSOM

After configuring VSOM, you can back up the VSOM configuration.

Procedure

-
- Step 1** In a web browser, open `http://<Server HostName>/vsmc.html` and navigate to the Encoding Server Backup on the Console page.
- Step 2** Click **Download**.
- Step 3** When prompted, save the .tar file to a secure directory.
- The VSOM backup file is named `VSOM_<ServerName>_backup_timestamp`. For example, `VSOM_PST_backup_20070327153851.tar`.
-

Restoring VSOM

To restore the VSOM configuration, follow these steps:



Note

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

Procedure

-
- Step 1** Enter the following command to stop the server:
- ```
shell> /etc/init.d/cisco stop
```
- Step 2** Uninstall the VSOM packages.
- Step 3** Reinstall the VSOM 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.
- d. Locate the VSOM backup file that was created by using the VSOM console Backup command.
  - e. Use SSH to access the new VSOM server as the root user.
  - f. Copy the VSOM backup file from its current location to the VSOM server.
  - g. From the SSH command line, enter:
 

```
shell> tar -Pxf <filename>.tar
```

For example:

```
shell> tar -Pxf VSOM_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.
-

Upgrading VSOM

To upgrade VSOM, follow these steps:

Procedure

- Step 1** Extract the contents of the downloaded .zip file. Cisco recommends that you create a directory for the extracted contents.

```
shell> mkdir vsom-6.2.1
shell> unzip Cisco_VSOM-6.2.1-xx-xxxxx.zip -d vsom-6.2.1
```

- Step 2** Verify that all files are present:

```
shell> cd vsom-4.2.1
shell> ls -l
Cisco_VSBase-6.2.1-xx-xxxx-i586.rpm
Cisco_VSOM-4.2.1-xx.i586.rpm
Cisco_VSTools-6.2.1-noarch.rpm
```

- Step 3** Stop the VSOM service:

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

- Step 4** VSDrivers must be removed prior to uninstalling Cisco_VSOM. Uninstall all previous MS modules including some (but not all) of the following based on the previously installed version:

```
shell> rpm -e Cisco_VSTools
shell> rpm -e Cisco_VSOM
shell> rpm -e Cisco_VSBase
```

If the Cisco Video Surveillance Operations Manager (VSOM) is installed you may get an error message when uninstalling the Cisco_VSBase package; to uninstall the Cisco_VSBase package run

```
shell> rpm -e Cisco_VSBase --nodeps
```

This leaves the VSOM module installed.

- Step 5** Run the following commands in the following order to install VSOM 6.2.1:

```
shell> rpm -ivh Cisco_VSBase-6.2.1-xx-xxxxx-i586.rpm
shell> rpm -ivh Cisco_VSOM-4.2.1-xx-xxxxx-i586.rpm
shell> rpm -ivh Cisco_VSTools-6.2.1-noarch.rpm
```

- Step 6** Upgrade the VSOM database in MySQL. Enter the MySQL password when prompted. The default password is blank; press enter if there is no password.

- If you are upgrading from Release 4.1.1 to Release 4.2.1, run the following commands in sequence to upgrade the VSOM database:

```
shell> mysql -u root -p < /usr/BWhttpd/vsom/db/mysql-update-4.1.1-6_to_4.2.0.sql
shell> mysql -u root -p < /usr/BWhttpd/vsom/db/mysql-update-4.2.0-16_to_4.2.1.sql
```

- If you are upgrading from Release 4.0.0 to Release 4.2.1, run the following commands in sequence to upgrade the VSOM database:

```
shell> mysql -u root -p < /usr/BWhttpd/bas/db/mysql-update-4.0.0-23_to_4.1.0.sql
shell> mysql -u root -p < /usr/BWhttpd/bas/db/mysql-update-4.1.0-15_to_4.1.1.sql
shell> mysql -u root -p < /usr/BWhttpd/bas/db/mysql-update-4.1.1-6_to_4.2.0.sql
shell> mysql -u root -p < /usr/BWhttpd/bas/db/mysql-update-4.2.0-16_to_4.2.1.sql
```

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