



Cisco Video Surveillance Manager Recovery Guide, Release 7.0.1 and 7.2

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This document describes how to create a recovery flash drive for Cisco Video Surveillance Manager (Cisco VSM) Release 7.0.1 and 7.2, running on the Cisco VSM servers. This bootable USB drive contains a recovery image that you can use to restore the operating system on a server, or restore the server to the factory state, if needed.

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Supported Servers

Cisco VSM Release 7.0.1

The Cisco VSM 7.0.1 recovery image is supported by the Cisco Multi-Services Platform (Cisco MSP) servers that included pre-installed Cisco VSM 7 server software:

- CPS-MSP-1RU-K9
- CPS-MSP-2RU-K9



Note

Other server models and servers shipped with earlier versions of the Cisco VSM software are not compatible with the recovery process described in this document.



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Cisco VSM Release 7.2

The Cisco VSM Release 7.2 recovery image is supported by the Cisco Connected Safety and Security UCS Platform Series servers, including the following:

- Cisco Connected Safety and Security UCS C220: CPS-UCS-1RU-K9
- Cisco Connected Safety and Security UCS C240: CPS-UCS-2RU-K9

**Note**

Other server models and servers shipped with earlier versions of the Cisco VSM software are not compatible with the recovery process described in this document.

Creating a Recovery Flash Drive

This section describes how to create a recovery flash drive by obtaining the recovery image and placing it on a USB flash drive.

Requirements

The USB flash drive that you use must:

- Have a capacity of at least 8 GB
- Contain no files other than the recovery image files
- We recommend using USB memory sticks made by Kingston or SanDisk.

Procedure

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- Step 1** Insert a USB drive into a PC port (see the “Requirements” section on page 2).
- Step 2** Download the recovery image on the Windows PC.
- Go to <http://software.cisco.com/download/release.html?mdfid=282976740&softwareid=281933881&release=7.2.1&relind=AVAILABLE&rellifecycle=&reltype=latest>
 - Select the release number for your deployment.
 - Click **Download** for the recovery image and follow the on-screen instructions to download the recovery file. For example: `vsm7.2.0-cd17-rhel5.8.img`
- Step 3** Download and install a utility used to raw write a binary image to a USB disk.
For example: see the [Win32 Disk Imager](http://sourceforge.net/projects/win32diskimager/files/latest/download) download at: <http://sourceforge.net/projects/win32diskimager/files/latest/download>
- Step 4** Write the recovery image to the disk:
- Launch the disk image utility and select the binary recovery file.
 - Select the destination USB drive.
 - Follow the utility instructions to create the recovery disk.
- Step 5** Remove the USB stick from the Windows PC.
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Recovering the Operating System from a Flash Drive

This section describes how to use a recovery flash drive to restore the operating system on a server.

Requirements

- Prepare a flash drive as described in the “[Creating a Recovery Flash Drive](#)” section on page 2.
- Disconnect any USB or external storage devices (including SAN storage) from the server.
- Installation is supported only if the RAID disks are in a non-bad, non-failed state.

Procedure

To restore the operating system from a recovery flash drive, follow these steps:

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- Step 1** Power off the server on which you need to restore the operating system.
- Step 2** Disconnect (unplug) any USB storage devices and any external storage (such as SAN storage connected through a fibre channel) that are connected to the server.
- This ensures that only the recovery flash drive is attached to the server and prevents other storage devices from accidentally being cleared by the recovery process.
- Step 3** Put the recovery flash drive in a USB port on the server and power on the server.
- CPS-MSP servers—use the bottom USB port.
- Step 4** When the Cisco logo appears, select the boot device:
- UCS servers—press the **F6** key
 - CPS-MSP servers—press the **F11** key
- Step 5** Select the USB recovery flash drive and press **Enter**.
- Step 6** At the “boot>” prompt, type one of the following options and press **Enter**:

Table 1 **Recovery Options**

Option	Description
recovery	Reinstalls the operating system. <ul style="list-style-type: none"> • Recorded video and configurations are preserved. • RAID configurations are preserved (only the OS partitions are formatted).
factory	Restores the server to the factory default settings: <p>Note You must disconnect any external storage before using this option</p> <ul style="list-style-type: none"> • Reinstalls the operating system. • Clears and reconfigures the RAID. <p> Caution This action deletes all data and video files.</p>

Table 1 *Recovery Options*

Option	Description
factory_raid5	<p>Restores a Cisco Connected Safety and Security UCS C240 server to the factory default settings, including:</p> <p>Note Valid only on the Cisco Connected Safety and Security UCS C240 with 6 or 12 internal drives.</p> <p>Note You must disconnect any external storage before using this option.</p> <ul style="list-style-type: none"> • Reinstalls the operating system. • Clears and reconfigures the RAID. <p> Caution This action deletes all data and video files.</p>
rescue	<p>Boot to prompt from USB media. Use this option to recover a password or for other administrative tasks</p>



Tip To skip software re-installation remove the USB flash drive and reboot the server by pressing CTRL+ALT+DEL keys.

- Step 7** If prompted for an installation method:
- Select **Hard Drive** and press **Enter** (Figure 1).

Figure 1 *Installation Method*



- b. Press Enter again when prompted for a directory for the installation source (Figure 2).

Figure 2 Partition and Directory Prompt



- Step 8** When the installation is complete, you will be prompted to reboot. Remove the USB flash drive and reboot the server.
- Step 9** On the server, configure system, network, and related settings as appropriate for your deployment. For instructions, see the “System Setup” chapter in *Cisco Video Surveillance Management Console Administration Guide, Release 7.2*.

Related Documentation

Installation and Administration

Cisco Physical Security UCS Platform Series User Guide.

http://www.cisco.com/en/US/products/ps10823/products_user_guide_list.html

Additional Server Hardware and Software Documentation

Cisco UCS C-Series Server Documentation (Roadmap)

<http://www.cisco.com/go/unifiedcomputing/c-series-doc>

Cisco Video Surveillance 7 Documentation Roadmap

Descriptions and links to Cisco Video Surveillance documentation, server and storage platform documentation, and other related documentation.

<http://www.cisco.com/go/physicalsecurity/vsm/roadmap>

Cisco Physical Security Product Information:

www.cisco.com/go/physicalsecurity/

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