

## Cisco Video Surveillance Manager Release 4.1/6.1

PB 521659

Cisco offers network-centric video surveillance software and hardware that supports video transmission, monitoring, recording, and management. Cisco video surveillance solutions work in unison with the advanced features and functions of the IP network infrastructure—switches, routers, and other network security devices—to enable secure, policy-based access to live or recorded video. With support for many surveillance cameras, encoders, and applications, Cisco video surveillance solutions allow customers to build best-in-class video surveillance systems that optimize cost, performance, and capability.

The Cisco® Video Surveillance Manager consists of the following products:

- **Cisco Video Surveillance Media Server:** The core component of the Cisco Video Surveillance Software Suite, the Media Server enables the collection and routing of video from a wide range of cameras; event-tagging, record-on-motion, and recording of video for review and archive; secure local, remote, and redundant video archive capabilities; and bandwidth management for both live distribution and historical recording.
- **Cisco Video Surveillance Operations Manager:** Allows organizations to quickly and effectively configure and manage video throughout the enterprise. The Operations Manager provides a secure web portal to configure, manage, display, and control video throughout an IP network, and provides the ability to manage a large number of security assets and users, including Media Server instances, cameras, encoders, DVRs, and event sources, as well as digital monitors powered by the Virtual Matrix.
- **Cisco Video Surveillance Virtual Matrix:** Brings complete flexibility to the delivery of live and recorded video to demanding command centers, providing high-availability access to network video for continuous monitoring applications. The Virtual Matrix provides capabilities that analog switches cannot deliver, such as aggregation and display of video from the Media Server platform on almost any number of digital monitors distributed across the IP network. Authorized users and integrated applications control the video that is displayed on any number of digital monitors.
- **Cisco Video Surveillance Encoding Server:** An all-in-one appliance that encodes, distributes, manages, and archives digital video feeds. Each server encodes up to 64 channels and provides up to 24 TB of storage. The Encoding Server offers the power and flexibility to meet a diverse range of video surveillance requirements and is cost-effective and simple to install. It lets you combine multiple video codecs in a single Encoding Server, manage bandwidth over each part of an IT network to complement capacity and protect other applications, and create redundant archives of events or loops and automatically store them in a secure location. When combined with the Operations Manager, the Encoding Server also provides administrators and operators with a secure Web portal to configure, manage, display, and control video.

## New Features

New features in Cisco Video Surveillance Media Server include the following:

- Dual streaming support for MPEG-4 and H.264: Dual MPEG-4 and H.264 streams are now supported from a single encoder port. Separate proxies are created for each feed.
- Cisco Video Surveillance Encoder features: Variable bit rate and video loss are now supported features for the Cisco Video Surveillance Encoder (source type is exacq). SNMP traps are sent when the encoder detects loss of analog video input.
- Ability to restrict API access: It is now possible to restrict administration API access to a single administrative IP address.
- Support for Stream Manager H.264 events and serial pass-through: The Stream Manager encoder now supports all H.264 resolutions, and serial-pass-through of PTZ and camera control commands. The encoder also can receive and process events. Support is included for the new x-code value h264.ciscosm\_x.
- Improved motion configuration: The AXClient supports the detection of motion from different segments (windows) of a single feed. During motion configuration setup, an Operations Manager user provides specific names for each of these segments/windows, although the segment/window name is not displayed in the Motion Configuration panel.
- Multiple stream export and support in ReView Player: The Operations Manager now supports multistream exports from the Operator page. When you choose this option, the system prompts for the export start and end time (default values are the earliest start time and the latest end time). The Operations Manager then creates the export CVA file. The resulting video clip contains a multipane window player with all playable video clips, and can be viewed in the ReView player.
- Sony PAL for Generation 3 cameras: Support is now provided for the Sony PAL Generation 3 camera models CS50, DF50, DF80, RZ50, RX530, RX550, and RX570.
- Clipping from Pelco DVRs: It is now possible to create server-side and client-side clips from the Pelco Endura DVR by using the standard Media Server interfaces.
- AXClient installer enhancement: A more efficient installer is now provided for the AXClient.

New features in Cisco Video Surveillance Operations Manager include the following:

- Dual streaming support for MPEG-4 and H.264: Dual MPEG-4 and H.264 streams are now supported from a single encoder port. Separate proxies are created for each feed.
- Improved motion configuration: The AxClient supports the detection of motion from different segments (windows) of a single feed. During motion configuration setup, an Operations Manager user provides specific names for each of these segments/windows, although the segment/window name is not displayed in the Motion Configuration panel.
- Multiple stream export and support in ReView Player: The Operations Manager now supports multistream exports from the Operator page. When you choose this option, the system prompts for the export start and end time (default values are the earliest start time and the latest end time). The Operations Manager then creates the export CVA file. The resulting video clip will contain a multipane window player with all playable video clips, and can be viewed in the ReView player.

- Support for Stream Manager H.264 events and serial pass-through: The Stream Manager encoder now supports all H.264 resolutions, and serial-pass-through of PTZ and camera control commands. The encoder can also receive and process events. Support is also included for the new x-code value h264.ciscosm\_x.
- Clipping from Pelco DVRs: It is now possible to create server-side and client-side clips from the Pelco Endura DVR using the standard Media Server interfaces.
- Batch administration: Users can add cameras and change multiple camera parameters at one time from a single page.
- Database backups: Support is provided to back up the Operations Manager database.
- Custom fields: Users can create custom field labels in Operations Manager to add additional information on users or cameras.
- System Overview: The System Overview panel in the Administration pages displays information disk space usage for the media servers managed by Operations Manager and user login sessions.
- Event pagination: Pagination controls are provided for the Events Inbox in the Operator page.
- New features in Cisco Video Surveillance Virtual Matrix include a variety of client performance enhancements and internal upgrades to make it compatible with the Media Server Client:
- Installer enhancement: A new and more efficient installer is now provided for Virtual Matrix.
- Configuration utility enhancement: The new configuration utility allows for multiple configurations in a single Virtual Matrix installation. This simplifies the use of multiple installations of Virtual Matrix.

## Upgrade Paths

Typically, you can upgrade from previous releases of Cisco Video Surveillance Manager products without loss of video data or configurations. Some releases may require special steps. For example, upgrading from Cisco Video Surveillance Manager 3.x/5.x to Cisco Video Surveillance Manager 4.0/6.0 may require you to clear repositories for new archive formats. In addition, be aware of the following guidelines:

- To upgrade from Cisco Video Surveillance Operations Manager 3.1.1, first upgrade to Video Surveillance Operations Manager 4.0, then upgrade from 4.0 to 4.1.
- You can upgrade directly from Cisco Video Surveillance Media Server 5.1.1 to 6.1.

If you require assistance, visit [www.cisco.com/support](http://www.cisco.com/support) and open a case.

To upgrade the following legacy products, follow the upgrade instructions that you can download with the product:

- BroadWare Media Server (BMS) to Cisco Video Surveillance Media Server
- BroadWare Application Server (BAS) to Cisco Video Surveillance Operations Manager
- BroadWare Command Server (BCS) to Cisco Video Surveillance Virtual Matrix

## Availability

Cisco Video Surveillance Manager products are available for order beginning on February 2, 2009.

## Ordering Information

To place an order, visit the Cisco Ordering Home Page. To download software, visit the Cisco Software Center. Table 1 provides ordering information for Video Surveillance Manager software. Table 2 provides ordering information for Video Surveillance Manager hardware.

Be aware of the following guidelines:

- When ordering the Media Server software, you must order the base software (CIVS-MS-SW6.1) and one channel license for each camera that the software will control (CIVS-MS-1SCFL).
- When ordering the Virtual Matrix software, you must order the base software (CIVS-VM-SW6.1) and one channel license for each client monitor that the software will control (CIVS-VM-1DFL).
- When ordering hardware, at least one of the software items must also be ordered.

**Table 1.** Software Ordering Information

Product Description	Part Number
Cisco Video Surveillance Media Server	CIVS-MS-SW6.1
Cisco Video Surveillance Media Server Channel License	CIVS-MS-1SCFL
Cisco Video Surveillance Operations Manager	CIVS-OM-SW4.1
Cisco Video Surveillance Virtual Matrix	CIVS-VM-SW6.1
Cisco Video Surveillance Virtual Matrix Channel License	CIVS-VM-1DFL

**Table 2.** Hardware Ordering Information

Hardware information is available in the Cisco Physical Security Multiservices Platform data sheet.

## Services and Support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Physical Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

- Reduce deployment costs by identifying the features that will best meet your business requirements
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design
- Support smooth implementation through effective planning and expert installation, configuration, and integration
- Increase operational efficiency and extend the value of your investment with award-winning technical support

For more information about Cisco services, visit <http://www.cisco.com/go/services>.

## For More Information

For more information about the Cisco Video Surveillance Manager, visit <http://www.cisco.com/go/physicalsecurity> or contact your account representative.



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