Cisco Video Surveillance Stream Manager Software

Product Overview

The Cisco® Video Surveillance Stream Manager application is a collection of discrete software modules that provide advanced and flexible configuration, management, and operation of video surveillance networks and solutions. With intuitive GUIs and comprehensive features, Cisco Video Surveillance Stream Manager software modules function as an integrated platform for security systems and enable true convergence of closed circuit television (CCTV) and the enterprise LAN. Stream Manager applications provide digital video, audio, and serial data management across any IP network.

Cisco Video Surveillance Stream Manager Features

Specific features for Cisco Video Surveillance Stream Manager 5.X software releases can be found at http://www.cisco.com/en/US/products/ps6940/prod_bulletins_list.html.

Cisco Video Surveillance Stream Manager Modules

Cisco Video Surveillance Stream Manager software modules combine the capabilities of many standalone hardware and software systems into one product, including features provided by digital video recorders, matrix switching systems, video multiplexers, and transmission systems. These system functions are available wherever and whenever there is network connectivity. Whether used in an enterprise network or a small or medium-sized business, Stream Manager provides a managed distributed digital video system.

- Stream Manager Configuration Module—Used to identify and program Cisco Video Surveillance IP Gateway encoders, decoders, and storage devices.

- Stream Manager Administration and Monitoring Module—Enables monitoring of network, server use, and dynamic system health, and provides status reporting.

- Stream Manager Administration and Monitoring with Failover Module—Provides all the features of the Administration and Monitoring Module, with the addition of failover management.

- Stream Manager Client Viewing Module—Provides access to all system operations, including camera control, stored video review, and alarm notifications. This is the primary PC application for viewing live or stored video from the network.

- Stream Manager Upgrade Module (included in the Configuration Module)—Upgrades firmware in video surveillance hardware.

Configuration Module

The Cisco Video Surveillance Configuration Module is used for all hardware device programming. It discovers devices automatically, and enables configuration of numerous parameters, including:

- Device settings—Device name, video output (number of streams)

- Network settings—IP address, subnet mask, default gateway, Dynamic Host Control Protocol (DHCP), Domain Name System (DNS), Simple Network Management Protocol

version 2 (SNMPv2), and quality of service (QoS) in the form of differentiated services code point (DSCP) marking

- Serial settings—Protocols, peripheral type, models, baud rates
- Media settings—Video standard (NTSC or PAL)
- Stream settings—Stream description, camera ID, encoding, video resolution, frame rate, bit rate model (constant or variable), bit rate, audio channels
- Alarm management—Mapping of video activity or relay contact events to text message or e-mail notification actions
- Matrix switch settings—Video switch (type), playback timeout (seconds), instant replay (seconds)
- Port activity detection settings—Detection area, pre-alarm recording (seconds), post-alarm settings (seconds), sensitivity setting on the Cisco Video Surveillance Services Platform
- Port grooming settings—Retention (days) on the Cisco Video Surveillance Services Platform
- User access rights—Cameras, pan-tilt-zoom (PTZ) controls, monitors, recorders
- Camera sequencing—Camera, monitor, operation, steps
- Alarm handling presets—Pre-programmable camera, monitor, operations

Administration and Monitoring Modules (With and Without Failover)

The Administration and Monitoring Modules provide system health information and central alarm management capabilities. Features include:

- Real-time status, including server use and bandwidth use, of all Cisco Video Surveillance devices in the network.
- On-demand status reports that include information about video loss, recording status, raid alarm, and hard disk drive failures.

In addition, the Administration and Monitoring with Failover Module provides failover capabilities to minimize the loss of video recording if a device experiences a failure. The Administration and Monitoring with Failover Module can communicate with a third-party matrix switch to transfer video streams from a failed Cisco Video Surveillance Recorder to a standby recorder. If only one video channel fails to record, the system switches only that video stream to a backup recorder.

Client Viewing Module

The Client Viewing Module is a customizable security and surveillance administration package that allows you to run a network-based CCTV system using attached PCs that are connected to the network. It is the primary PC application for viewing live or stored video from the network, and it includes these features:

- Support for thousands of cameras and monitors
- Virtual matrix switch capabilities through integration with Stream Manager switching modules that are embedded in Cisco Video Surveillance IP Gateways
- Several options for the layout of displays
- Drag-and-drop operation to place a video stream onto the PC viewing window or to an analog CCTV monitor (attached through a Cisco Video Surveillance IP Gateway decoder)
- PTZ functions through simple mouse operations

- Simultaneous viewing of live and recorded video
- Frame-by-frame rewind

The Client Viewing Module includes an integrated video export function and video player, which provides the following features:

- Ability to export video from any Cisco Video Surveillance storage device to a local hard disk or to other storage media
- Event search by time, date, camera, or activity
- Intuitive playback interface, including functions such as fast forward, rewind, pause, advance frame by frame, create still images, and authenticate video (to ensure integrity)
- Multiclip video exporting to display up to four video sources as a quad-pane stream

Figure 1 shows a screen shot of the Cisco Video Surveillance Stream Manager Client Viewing Module.

Figure 1. Stream Manager Client Viewing Module Window

Upgrade Module
The Upgrade Module upgrades firmware on Cisco Video Surveillance Services Platforms, Integrated Services Platforms, and IP Gateway encoders and decoders.

Cisco Video Surveillance Stream Manager Software Features

Cisco Video Surveillance Stream Manager Software provides powerful features for the operation and management of a video surveillance solution. Features and benefits include:

- All-in-one video management solution
- User-friendly setup and operation
- IP virtual matrix switch functions
- Complete and secure video storage management

- Sophisticated playback features, including trick replay functions
- Activity detection and search
- Export video with authentication capabilities
- Advanced network visibility
- Distributed processing on Cisco Video Surveillance devices, eliminating the need for a centralized server

System Requirements

Table 1 lists the requirements for PCs running Cisco Video Surveillance Stream Manager Software.

Table 1.   Requirements for Stream Manager Software

	Client Viewing Module	All Other Modules
CPU	Pentium dual-core, 2.8 GHz	Pentium IV, 2.8 GHz
RAM	1 GB	512 MB
Hard Drive	40 GB	40 GB
CD or DVD Drive	Recordable, if video is to be exported	Read-only
Audio Card	Optional, for listening to audio provided by an encoder	Optional, for listening to system alerts
Video Card	• ATI X1600XT 512MB PCI-e or • NVIDIA E-GEFORCE 7600GT CO 256MB DDR PCI-e	Standard PC video card
Network Card	10BASE-T, 100BASE-T, 1000BASE-T	10BASE-T, 100BASE-T, 1000BASE-T
Operating System	• Microsoft Windows XP Pro with Service Pack 2 or • Microsoft Windows Vista Business with Service Pack 1 (supported in Stream Manager 5.3	• Microsoft Windows XP Pro with Service Pack 2 or • Microsoft Windows Vista Business with Service Pack 1 (supported in Stream Manager 5.3
Web Services	Microsoft Net 2.0	Microsoft Net 2.0

Ordering Information

Table 2 provides ordering information for Cisco Video Surveillance Stream Manager Software. To place an order, visit the Cisco Ordering Home Page Cisco homepage.

Table 2.   Ordering Information

Product Name	Part Number
Cisco Video Surveillance Stream Manager Configuration Module	CIVS-SM-CFG50=
Cisco Video Surveillance Stream Manager Client Viewing Module	CIVS-SM-CL50=
Cisco Video Surveillance Stream Manager Administration and Monitoring Module	CIVS-SM-AS50=
Cisco Video Surveillance Stream Manager Administration and Monitoring with Failover Module	CIVS-SM-ASF50=

Service 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 Cisco Video Surveillance Stream Manager Software, visit http://www.cisco.com/go/videosurveillance.html, contact your local account representative, or send e-mail to pss_physec@cisco.com.

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