

## Cisco Video Surveillance Stream Manager Software Version 5.0

### Camera Sequencing

**Q. What is camera sequencing?**

**A.** Camera sequencing is a feature of Cisco® Video Surveillance Stream Manager Software Version 5.0. It enables a pre-programmed sequence of camera operations on one or more cameras to be displayed on one or more monitors.

**Q. What are the benefits of camera sequencing?**

**A.** With camera sequencing, the Cisco Video Surveillance system can regularly and accurately scan important areas without manual intervention or operator errors. This feature enables consistent video recording among different operators at all times.

**Q. What type of camera operations can be done?**

**A.** Typical camera operations such as pan-tilt-zoom (PTZ), dwell time, and selection of output monitor can be done.

**Q. Can a sequence contain more than one camera or monitor?**

**A.** Yes. Multiple cameras can be controlled or monitors displayed during a sequence.

**Q. What is a step?**

**A.** A step is a single stage of the sequence with the camera, monitor, and operation selections. Table 1 is an example with three steps.

**Table 1.** Example with Three Steps

Step	Camera	Monitor	Operation
1	1	1	Dwell 10 seconds
2	2	1	Dwell 10 seconds
3	2	1	Pan 30 degrees right

**Q. Is there a limit to the number of steps that can be included in a sequence?**

**A.** Yes. Up to 1024 steps may be included in a sequence.

**Q. Is there a limit to the number of sequences in the system?**

**A.** No. There is no hard limit.

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains camera sequencing?**

**A.** Camera sequencing is configured in the Stream Manager Configuration Module. It can be run from the Stream Manager Client Viewing Module.

## Alarm Handling Presets

**Q. What are alarm handling presets?**

**A.** Alarm handling presets allow a pre-programmed sequence of camera operations to occur based upon an alarm event.

**Q. How do alarm handling presets work?**

**A.** When an alarm occurs, the camera can perform operations such as pan, tilt, zoom, and can monitor selection to ensure capture of the desired video.

**Q. What are the benefits of alarm handling presets?**

**A.** This feature helps ensure consistent scene recording without operator intervention.

**Q. Can a preset contain more than one camera or monitor?**

**A.** Yes. Up to four cameras can respond to a single alarm input.

**Q. Can a camera have a preset for multiple alarms?**

**A.** No. A camera can only have one alarm preset.

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains alarm handling presets?**

**A.** Alarm handling presets are configured in the Stream Manager Configuration Module.

## Dynamic Encoding Changes

**Q. What are dynamic encoding changes?**

**A.** Dynamic encoding changes allow Cisco Video Surveillance IP Gateway encoders to automatically change the video output based upon certain conditions, such as alarms.

**Q. How do dynamic encoding changes work?**

**A.** Upon receiving an alarm (from a contact closure, for example), the encoder can increase the resolution from 1 CIF to 4 CIF or frame rate of the video from 1 frame per second (fps) to 30 fps in order to make sure that a high quality image is sent.

**Q. What are variable bit rate (VBR) and constant bit rate (CBR)?**

**A.** The video stream bit rate can be either variable or constant. The amount of activity in the video determines the amount of data. The bandwidth of a VBR stream will fluctuate based on the activity. Setting CBR will attempt to keep the bandwidth at a steady rate despite changes in the video, but will waste bandwidth when there is little activity.

**Q. What are the benefits of dynamic encoding changes?**

**A.** This feature helps ensure that the proper resolution of video is selected without requiring an operator to manually recognize an incident and change the parameters. In addition, it saves bandwidth and storage capacity by using high-resolution video only when needed.

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains dynamic encoding changes?**

**A.** Dynamic encoding changes are configured in the Stream Manager Configuration Module.

### Frame-by-Frame Rewind

**Q. What is frame-by-frame rewind?**

**A.** Frame-by-frame rewind adds the ability to rewind and display the video using all 30 frames per second in NTSC or 25 frames in PAL.

**Q. What is the benefit of frame-by-frame rewind?**

**A.** Previously, rewind displayed only one frame per second. This feature substantially enhances rewind display resolution for improved analysis.

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains frame-by-frame rewind?**

**A.** Frame-by-frame rewind is configured in the Stream Manager Client Viewing Module. It can also be operated directly from a keyboard.

### Multi-Clip Video Exporting

**Q. What is multi-clip video exporting?**

**A.** Multi-clip video exporting allows a single video export file to be created from multiple streams.

**Q. What are the benefits of multi-clip video exporting?**

**A.** This feature allows the video from multiple cameras to be combined into a single file, rather than multiple files, thereby improving analysis and increasing operator efficiency.

**Q. How many streams can be exported together?**

**A.** Multi-clip video exporting allows video from up to four cameras to be exported as a quad-pane stream. In addition, multiple streams can be combined sequentially in a single file,

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains multi-clip video exporting?**

**A.** Multi-clip video exporting is configured in the Stream Manager Client Viewing Module.

### User Accounts and Access Rights

**Q. What are user accounts and access rights?**

**A.** User accounts and access rights are the features that allow the Cisco Video Surveillance system administrator to permit or deny access or control of equipment to users.

**Q. How does the feature work?**

**A.** Users can be permitted or denied access to or control of the cameras, keyboards, and services platforms in the network. For example, a user may be denied access to control a PTZ camera, or only allowed to view certain monitors.

**Q. How are privileges defined?**

**A.** There is a list of privileges, such as camera access or PTZ control of a camera. The list is available to the system administrator who will define the rights for each user. In addition, groups of users can be defined to simplify the administration.

**Q. What are the benefits of user accounts and access rights?**

**A.** This feature increases the level of security within the network by prohibiting unauthorized use.

**Q. Which Cisco Video Surveillance Stream Manager Software Module contains user accounts and access rights?**

**A.** Accounts and access rights are configured in the Stream Manager Client Viewing Module.

## IP Networking

### **Q. Are there any IP networking enhancements in Cisco Video Surveillance Stream Manager Software Version 5.0?**

**A.** Yes. Stream Manager Software Version 5.0 offers enhanced IP network resiliency and interoperability with the following features:

- **Dynamic Host Control Protocol (DHCP)**—Allows devices to automatically retrieve an IP address from a server. This eliminates manual IP address configuration and simplifies installation. DHCP is supported on Cisco Video Surveillance IP Gateway encoders, decoders, and recorders.
- **Domain Name System (DNS)**—Automatically translates IP addresses to hostnames. This simplifies access to devices by using a descriptive name, such as Decoder\_Main, rather than IP addresses. DNS is supported on Cisco Video Surveillance IP Gateway encoders, decoders, and recorders.
- **Simple Network Management Protocol version 2 (SNMPv2)**—Allows compatibility of network management operations with updated standards for increased network security. The Cisco Entity Alarm MIB is implemented to send traps based on loss of video, RAID error, recording failure, or contact closure. SNMPv2 is supported on Cisco Video Surveillance IP Gateway encoders, decoders, and recorders.
- **Quality of service (QoS)**—Improves traffic management on the network. Video surveillance streams from encoders and services platforms can be prioritized over other types of traffic on the network. Differentiated Services Code Point (DSCP) marking can be configured on the Cisco Video Surveillance IP Gateway encoders or recorders to ensure that high-quality video will be maintained on the network at all times.



**Americas Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA [www.cisco.com](http://www.cisco.com)  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883

**Asia Pacific Headquarters**  
Cisco Systems, Inc.  
168 Robinson Road  
#28-01 Capital Tower  
Singapore 068912  
[www.cisco.com](http://www.cisco.com)  
Tel: +65 6317 7777  
Fax: +65 6317 7799

**Europe Headquarters**  
Cisco Systems International BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
[www-europe.cisco.com](http://www-europe.cisco.com)  
Tel: +31 0 800 020 0791  
Fax: +31 0 20 357 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

©2007 Cisco Systems, Inc. All rights reserved. CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, PIX, ProConnect, ScriptShare, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0708R)