

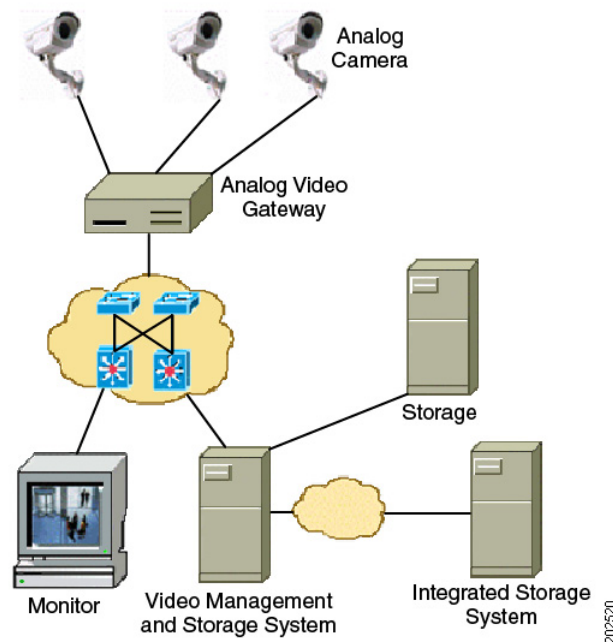


Cisco Video Management and Storage System Overview

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The Cisco Video Management and Storage System application runs on the Cisco Service Module-Service Ready Engine (Cisco SM-SRE) module, which is the service module hardware component of the Cisco Video Management and Storage System. The Cisco SM-SRE module can reside either in Cisco 2900 Series or 3900 Series Integrated Service Routers Generation 2 (ISR G2). The application uses IP network infrastructure to manage live video, archived video, and video sample retrieval. It also monitors inputs for event triggering and serves as the focal point for live monitoring of video data streams (see [Figure 1](#)).

Figure 1 Cisco Video Management and Storage System System Overview



The Cisco SM-SRE-700 and SM-SRE-900 modules are designed to fit into the modular slots of the next generation Cisco 2900 Series or 3900 Series Integrated Services Routers, which is optimized for the secure, wire-speed delivery of concurrent data, voice, video, and wireless services.

The capabilities of the Cisco Video Management and Storage System application include:

- Management of all of your video sources through a single converged interface
 - Support for Cisco IP Video Surveillance Integrated Analog Video Gateway
 - Support for most major third-party IP cameras and encoders and decoders
- Viewing of live and archived video through the same Internet Explorer “thin client” interface
- Storage of archival video on local hard drives, external Network File System (NFS):
 - Cisco SM-SRE-900—Up to 1 TB of local hard disk drive storage on the Cisco SM-SRE module and the ability to expand storage capacity to an external NFS storage for long-term archival
 - Cisco SM-SRE-700—Up to 500 GB of local hard disk drive storage on the Cisco SM-SRE located in the same Integrated Services Router (ISR).
- Intelligent management of your video store through event-based up-speeding of video stream recording
- Notification sent to relevant security personnel through the use of e-mail messages, pages, and Short Message Service (SMS)
- Control over system access with highly configurable user privileges

This guide supports features for version 6.2.1 and later versions of the Cisco Video Management and Storage System. To view the product feature history, see [Release Notes for the Cisco Video Management and Storage System](#), which lists feature support history for Cisco Video Management and Storage System software versions.

The Cisco Video Management and Storage System can be used in conjunction with the Cisco Analog Video Gateway, which converts analog camera signals into IP-accessible endpoints. For more information about configuring the Cisco Analog Video Gateway, see the [Cisco Analog Video Gateway CLI Administrator Guide](#).

The Cisco Video Management and Storage System is one of four components that make up the overarching Cisco IP Video Surveillance solution. Other components are:

- Cisco 2900 Series or 3900 Series ISR
- Cisco IP Video Surveillance 16-Port Analog Video Gateway Network Module
- Cisco Video Surveillance Manager product line, consisting of the Cisco Video Surveillance Operations Manager Software and the Cisco Video Surveillance Media Server Software

Security operations personnel can access live video and review archived surveillance video recorded at remote sites from terminals in their local facility.

You use the command-line interface (CLI) to configure the Cisco Video Management and Storage System software. This guide describes how to use the CLI to configure the software options of the Cisco Video Management and Storage System.

System Application

The Cisco Video Management and Storage System application runs on a Linux-based operating system (see [Open Source License Notice](#)) that resides on a Cisco SM-SRE, which fits into a host Cisco ISR that runs Cisco IOS software. The Cisco Video Management and Storage System is a network video management and storage engine with its own startup and run-time configurations and its own CLI, all of which are independent of the Cisco IOS configuration on the ISR. The Linux-based software of the module does not have its own console on the front panel but uses internal virtual console sessions accessed from the host router.

After the Cisco Video Management and Storage System is configured using the CLI, the module runs a GUI-based video distribution and management system application, called the Cisco Video Surveillance Operations Manager, based on next-generation video encoding standards.

This arrangement—host router plus Cisco SM-SREs—provide a router-integrated application platform for accelerating data-intensive applications.

Applications typically involve:

- Video management and storage
- Application-oriented networking
- Contact centers and interactive-voice-response applications
- Content caching and delivery
- Network analysis
- Voice-mail and auto-attendant applications
- Application Extension Platform (AXP)

