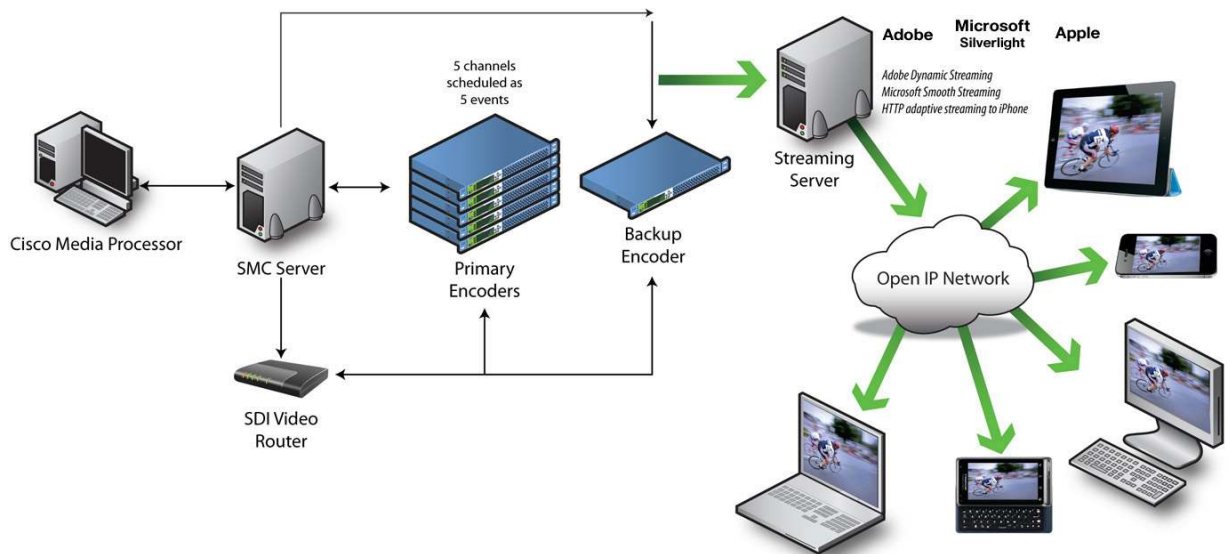


Cisco Media Processor Management Console

Building on the success of the Cisco[®] Media Processor Family of live encoding solutions, Cisco offers a comprehensive management solution for multi-encoder streaming operations: the Cisco Media Processor Management Console. This software manager helps simplify the management, configuration, and monitoring of all of your live encoders.

The Cisco Media Processor Management Console is a scalable solution that allows you to manage 2, 20, or even 50 encoders, all from a single management interface. The management console builds on the noted Cisco interface, automating standard tasks and making it easy to monitor multiple encoders at a glance. In addition, new features such as global scheduling, multiple levels of redundancy, and live monitoring of outgoing streams make the Cisco Media Management Console an indispensable ally for any multi-Videoscape solution installation.

Figure 1. Cisco Media Processor Management Console workflow example.



Adaptive Streaming

Adaptive streaming is a breakthrough advanced media-delivery method that switches transparently between multiple streams, depending on the available bandwidth and PC performance at any given moment. The best-possible-quality video stream is automatically delivered to the end user without stuttering, dropped frames, or buffering. Although the process itself is invisible to the end user, it results in a much improved user experience. In order to effectively implement this process, multiple encoders need to be able to output multiple, synchronized streams. The Cisco Media Processor Management Console offers full support for setting up and configuring adaptive streaming across multiple Cisco encoders.

Redundancy Options

The Cisco Media Processor Management Console offers multiple redundancy options:

- Power interruption detection and recovery: If power is interrupted, the management console reboots and automatically starts streaming with the most recent successful settings. (This feature is built into all Cisco encoders.)
- Media server failover (2-3 seconds): Primary and backup encoders have identical settings, and both are streaming to a media server. The media server detects when the first stream stops, and automatically plays the second stream (requires implementation on the media server).
- One-to-one backup: Primary and backup encoders have identical settings, but only the primary is streaming. If the management console loses communication with the primary encoder, it automatically starts the backup encoder.
- One-to-many backup: Multiple primary encoders are streaming with one backup encoder. When the management console loses communication with a primary encoder, it applies the preset to the backup encoder, and when the video source is moved, it starts the backup encoder (requires manual connection of the video source).

Configuration

The Cisco Media Processor Management Console implementation consists of three components:

- Cisco Media Processor Management Console: This Java-based application is the user interface, which can be installed on multiple systems. It communicates with the Cisco Media Processor Management Server to display information about all connected processors, and provides access to all of the features of the Cisco Media Processor Management Server.
- Cisco Media Processor Management Server: This application manages all of the communication to the Cisco Media Processors. It is normally installed on a dedicated server.
- Cisco Media Processor live streaming encoders (sold separately): These nodes are the encoding nodes responsible for receiving live video and audio sources and encoding them into the appropriate streaming format. They contain a messaging service that communicates with the Cisco Media Processor Management Server.

Cisco Media Processor Management Console Features

- Manage multiple encoders from a single, easy-to-use interface.
- Monitor live events for alarms or alerts.
- Global calendar scheduling optimizes resource allocation.
- Ability to monitor live outgoing streams.
- Robust redundancy and failover options are available.
- Schedule live events, software upgrades, and maintenance events.
- Create and edit presets, and apply them to individual encoders.
- The management console supports the Harris Panacea line of routers to provide automated failover from a serial digital interface (SDI) source.

Cisco Media Processor Management Console Server Specifications and Hardware Requirements

Table 1 lists the specifications and hardware requirements of the Cisco Media Processor Management Console and the Cisco Media Processor Management Server.

Table 1. Cisco Media Processor Management Console Server Specifications and Hardware Requirements

Cisco Media Processor Management Console Server Specifications	
Maximum number of encoders supported	50
Cisco Media Processor models supported	<ul style="list-style-type: none"> • Cisco AS8100 Series Media Processor • Cisco AS7100 Series Media Processor • Cisco AS6000 Series Media Processor • Cisco AS5100 Series Media Processor • Cisco AS3005 Series Media Processor • Cisco AS80 (future release) Series Media Processor <p>Note: All encoders connected to the management console must be running a current version of Cisco Media Processor Core Software.</p>
Cisco Media Processor Management Console Hardware Requirements	
Minimum	<ul style="list-style-type: none"> • Pentium 4 • 1-GB RAM • 100-MB hard drive space • Windows XP SP2 (32-bit only) • Gigabit Ethernet
Recommended	<ul style="list-style-type: none"> • 20-in. or larger monitor • 1440 x 900 graphics card, or better
Cisco Media Processor Server Hardware Requirements	
Minimum	<ul style="list-style-type: none"> • Dual-core Pentium 4 • 1-GB RAM • 100-GB hard drive space • Windows XP SP2 (32-bit only) • DirectX 9.0c • Windows Media Player 10 or higher • Gigabit Ethernet
Recommended	<ul style="list-style-type: none"> • Dual-core Xeon, Core 2, or better • Windows 2003 Server SP1 (32-bit only) • More than 2-GB RAM • Storage area network (SAN) for asset storage



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