



Cisco Video Surveillance Stream Manager Configuration Software Quick Start, Installation and Operations Guide

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Section

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INTRODUCTION

ABOUT THIS GUIDE

Thank you for purchasing a Cisco Systems software product. This guide is designed to provide you with the necessary information to install and use the software.

Note: This document will be updated in the near future.

FEATURES

Complete configuration tool – enables complete configuration control of all Cisco Systems IP Video Surveillance products, including Integrated Services Platforms, IP Gateway Encoders, IP Gateway Decoders, and related equipment.

Instant polling of connected devices – a single mouse-click allows administrators to poll all connected devices to gain immediate access to configuration setting.

Intuitive data presentation – devices can be sorted and displayed by Name, IP address, Device type or Firmware revision, enabling a quick overview or detailed analysis of the system.

Real-time feedback – Changes to brightness, contrast, color and hue are shown in Stream Manager Configuration display window, improving the accuracy of image adjustments.

Import and export functionality – the key data elements (Camera name, Camera Number, IP Address, etc) may be exported for backup and/or edit. Revised data can be imported into the system to for large installations.

Automatic IP address assignment – Initial boot-up of newly connected devices will be assigned an IP Address by Stream Manager Configuration, enabling instant network configuration.

Time Synchronization – All connected equipment can be time sync'd with third party equipment.

MINIMUM SYSTEM REQUIREMENTS

Computer	1.5 Ghz (2.3 Ghz recommended)
Operating System	Windows XP Pro
RAM MB	512 MB (1024 MB recommended)
Hard Drive (free space)	20 MB
Other Drive	CD ROM for initial installation
Network Card	10/100T operation
Other	Mouse or other pointing device

NETWORK CONFIGURATION

Data sent across a network is limited by bus speed, network traffic, network topology and packet size. Minimum 100BaseT is recommended. Use the following guidelines when configuring your network:

Use the proper cables and connectors: CAT 5 for 100Base-TX (100Mbps) operation.

Configure the network for the TCP/IP Protocol.

If the network supporting the Cisco Systems Video Surveillance System does not have a DHCP server, you must manually assign an IP address to the PC running Stream Manager Configuration. Consult your network administrator for assistance.

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SOFTWARE INSTALLATION

1. Close any running programs.
2. Insert the Stream Manager Configuration CD in the CD-ROM drive. The installation program should autorun. If it does not, **Explore** the CD and double-click the **Stream Manager Configuration Setup** icon.
3. When the **Stream Manager Configuration Setup** screen appears, click **Next** to display the copyright notice.
4. Select **Next** to display the **Choose Destination Location** screen. This screen shows the recommended directory for the software.
5. Click **Next** to confirm your intention to install the Stream Manager Configuration software.
6. Select **Close** when installation completes



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USING STREAM MANAGER CONFIGURATION

INITIAL STARTUP

To start the Stream Manager Configuration software, do one of the following:

Double-click the **Stream Manager Configuration** icon on your desktop;

Or

Click the **Start** button, then click **Programs**, then click the **Stream Manager Configuration** icon.

When the Stream Manager Configuration application starts, the software searches for all connected Cisco Systems devices for display on the Startup Screen.

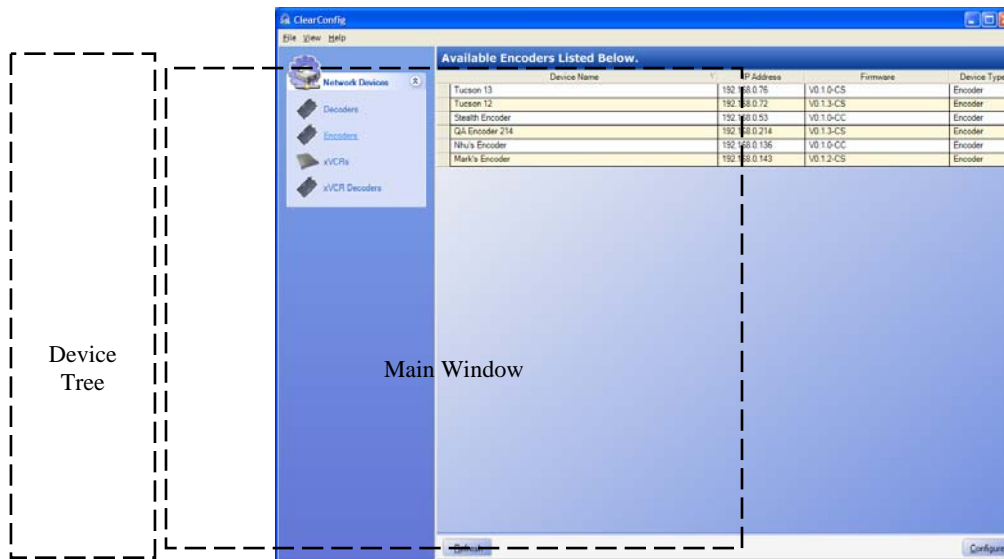


FIGURE 1
Startup Screen

KEY ELEMENTS OF STARTUP SCREEN (Figure 1)

The Startup Screen polls all connected devices and provides an overview of the entire system.

Device Tree

The left side of the screen shows a listing of all device types. Select a device type to query and display a listing of all such devices in the Main Window.

Main Window

The Main Window shows a complete listing of device type selected above. The display may be sorted by clicking any of the column headers.

To ensure all devices are shown in the **Main Window**, refresh the screen by selecting **Refresh**.

Select a device for configuration by double-clicking on the device, or highlight and select **Configure** at the bottom. The system will display a Device Configuration Window for the equipment selected.

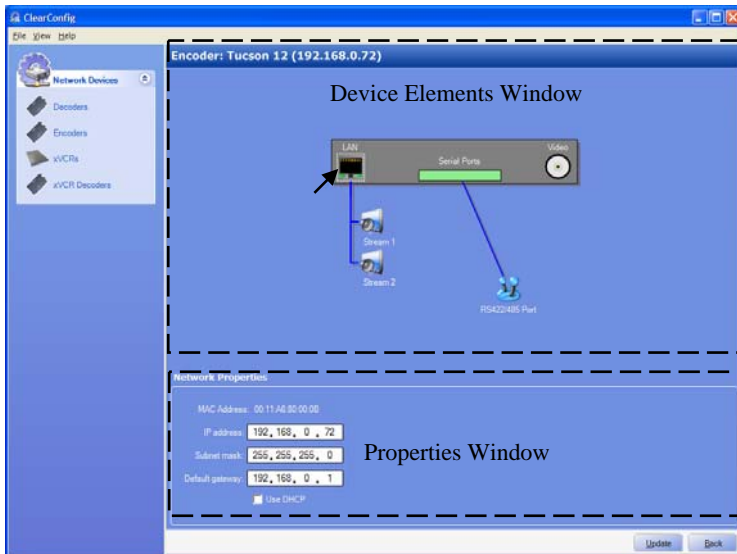


Figure 2
Device Configuration Window

KEY ELEMENTS OF DEVICE CONFIGURATION SCREEN

Figure 2 shows the Device Configuration SCREEN. This interactive screen is updated based on the device and element selected.

Device Elements Window

A graphical display of the device selected is shown on the top of the screen. Although each device may have a variety of elements, several common elements are listed below:

- LAN
- Video (input/output)
- Video stream
- Serial Ports
- Peripheral equipment

Simply click on an Element to display the related properties.

Properties Window

For the Element selected above, properties are displayed in the Properties Window. This interactive window will be updated as new Elements are selected.

Given the vast range of variables which can be configured with Stream Manager Configuration, a listing of Devices, Elements and available Parameters is included in the Appendix of this manual.

KEY ADMINISTRATOR ACTIVITIES

The following topics describe how to use Stream Manager Configuration to perform common setup and maintenance activities.

Setup network connections for new device

- Enter Device Configuration Window by double-clicking on selected device.
- Click on LAN icon
- Adjust IP address, Subnet mask and default gateway
- Select **Update**

Adjust parameters of elements

- Enter Device Configuration Window by double-clicking on selected device.
- Select Element to be adjusted by Clicking on Element
- Adjust parameters in the Properties window
- Select **Update**

Import/Export Configuration Files

For large installations, it is often more efficient to import Device Names, Camera Numbers and other configuration data from existing databases maintained by the System Administrator. Often this information is contained in Comma Separated Value (“CSV”) file format.

Stream Manager Configuration allows system integrators to use configuration data contained in CSV file format to be imported into Stream Manager Configuration. The specific data transfer procedures for each customer’s system will differ, but the process will be as follows:

1. Connect all Cisco Systems edge devices (XVCR/encoders/decoders) to network and assign IP Addresses using either DHCP or Stream Manager Configuration utility.
2. Select **File/Export Configuration** to download an inventory of all the Edge devices. This listing will be an MS Excel file (.xls) with the following field format:
 - Camera Number
 - Camera Name
 - Integrated Services Platform (aka XVCR) Number
 - Integrated Services Platform (aka XVCR) Port
 - Frame Rate
 - Bit rate
 - Bit rate model
 - Compression Quality
 - IP Address
 - MAC Address

The export function will download any information currently stored in the equipment. Empty or outdated fields can be updated from information contained in the CSV file using cut and past commands in the Excel application.

The updated file should be imported back into Stream Manager Configuration and the related devices updated by selecting **Update** in the Device Configuration Screen.

Establishing a Failover recorder

To enable failover recording, one INTEGRATED SERVICES PLATFORM (AKA X-VCR) unit must be configured to serve as a Failover Recorder as follows:

Connect selected Matrix Switch outputs to the Failover Recorder Inputs.

Using Stream Manager Configuration, Select **Failover** Mode in the INTEGRATED SERVICES PLATFORM (AKA X-VCR) General Properties (See Fig 3)

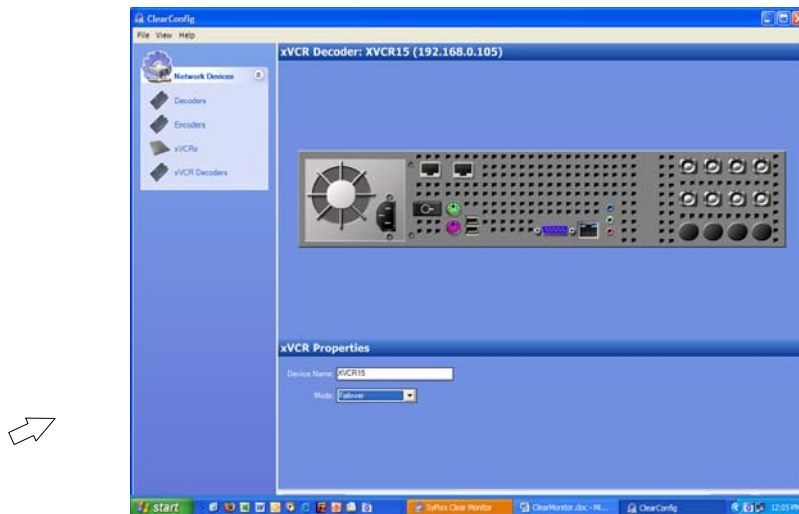


FIGURE 3
Stream Manager Configuration – Failover Mode

Assign Matrix Switch Outputs for Failover INTEGRATED SERVICES PLATFORM (AKA X-VCR) inputs by clicking on each video input and adjusting the settings, (See Figure 4)

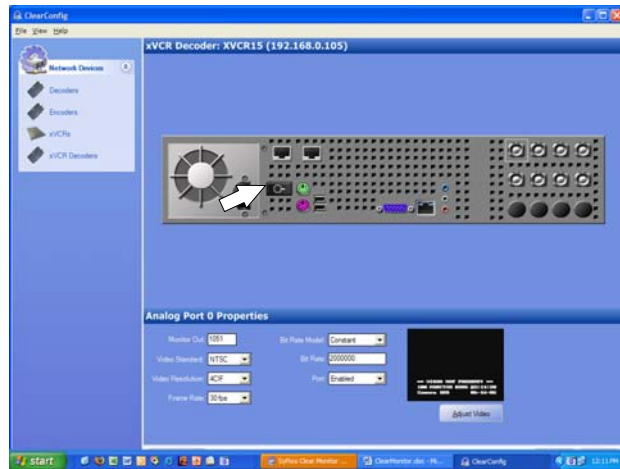


FIGURE 4

Stream Manager Configuration – Assign Monitor Outputs to Integrated Services Platform (aka XVCR) Input

Select update to save Failover INTEGRATED SERVICES PLATFORM (AKA X-VCR) settings.

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APPENDIX

The following Tables show the Element, Parameter and Data Values for each Cisco Systems product.

INTEGRATED SERVICES PLATFORM (AKA X-VCR) Parameters

Element	Parameters	Data Value
Entire Device	Device Name	User input
Video Port	Camera ID	Camera Number used by Matrix switch
	Video Standard	NTSC PAL
	Resolution	D1 4CIF 2CIF CIF
	Frame Rate	User input 1 to 30 images per second
	Bit Rate Model	Constant (256000 to 4000000) Variable (quality 50% to 80%)
	Quality	User input 0 to 100%
Entire Device	Image Adjustment	Click on button to adjust Brightness Contrast Hue Saturation
Serial Port	Video Matrix	Sensormatic/AD Pelco Phillips/Bosch None
	Playback Timeout	Number of seconds before the device switches back to live view. (Default – 300)
	Instant Replay	Number of seconds back from the current time the instant replay will start from. (Default – 10)
LAN Port	IP Address	User input based on LAN configuration
	Subnet Mask	
	Default Gateway	
	Use DHCP (check box)	Enables IP Setup from DHCP server

Encoder Parameters

Element	Parameters	Data Value
Entire Device	Device Name	User input
	Video Output	1 or 2 Media streams
LAN Port	IP Address	User input based on LAN configuration
	Subnet Mask	
	Default Gateway	
	Use DHCP (check box)	Enables IP Setup from DHCP server
Video Port	Video Standard	NTSC PAL
Media Stream	Description	User Input
	Camera ID	User Input
	Video Resolution	D1 4CIF 2CIF CIF
	Frame Rate	User input 1 to 30 images per second
	Bit Rate	User input 256000 to 4000000
	Audio Channels	None Both Left Right
	Audio Sample Rate	User input 0 to 64000
	Video Standard	NTSC PAL
Serial Port 232/422/485	Peripheral type	Camera Keyboard None
	Model	Drop down listing
	Baud Rate	Drop down listing
	Dome Address (Cameras only)	User input

Decoder Parameters

Element	Parameters	Data Value
Entire Device	Device Name	User input
	Monitor ID	User input
LAN Port	IP Address	User input based on LAN configuration
	Subnet Mask	
	Default Gateway	
	Use DHCP (check box)	Enables IP Setup from DHCP server
Serial Port 232/422/485	Peripheral type	Camera Keyboard None
	Model	Drop down listing
	Baud Rate	Drop down listing
Video Port	Video Standard	NTSC PAL

REVISION HISTORY:

Manual Number	Date	Comments	
Stream Manager Configuration Software rev-.inst		4/15/06	Initial Conversion to Cisco Doc Format