



Network Management System

4Manager

Managing Multi-Screen Video Headends

As video services over broadband and mobile networks begin to converge with traditional broadcast services, Envivio draws upon its IP video expertise to offer a comprehensive video headend management system to address service availability and system administration. Specifically designed to work within the IP transport environment, Envivio® 4Manager™ is ideally suited to manage next generation video headends for multi-screen IP and traditional broadcast distribution networks.

4Manager offers a simple and comprehensive interface to control and monitor headend components, including encoders / transcoders, IP and video routers and satellite reception equipment. 4Manager maximizes video headend availability and reliability by reporting system malfunctions and by offering advanced automatic 1+1 and N+M redundancy protection switching.

A robust management system with integrated redundant components and automatic headend configuration backup and restore tools, 4Manager can also automatically report the activities of both devices and individual operators. With such a comprehensive approach to monitoring and management, it enables broadcasters and network operators to reduce operational costs and ensures the highest quality of service (QOS) for their customers.

Features

- Web-based GUI with multi-views capability for real-time monitoring and control
- Add, configure and monitor your system devices in few clicks using wizard
- System views with the ability to create and customize new ones using visio files
- Automatic and manual 1+1 or N+M redundancy mechanisms for IP, analog or digital video head-ends
- Advanced switch-over mechanism based on alarm correlation and customizable alarm parameters
- Performance tracking: extensive and customizable set of reports to monitor performance at device, service, and system levels.
- Notification via emails of critical events. Scheduled sending of reports
- Define and schedule tasks to be automatically executed using 4Manager built-in scheduler
- Automatic backup of video headend configuration for fast restore capabilities in case of failure
- Northbound interface (NBI) support for seamless integration into heterogeneous system
- Clustering of 4Managers to manage larger system
- 1+1 4Manager backup support

Product Highlights

- Optimally designed for Envivio next generation 3-screens video head-ends ecosystems
- Support IP, SDI and Analog video head-end architectures
- Intuitive web based user interface, with wizard operations and customizable system layout using Visio files system topology, device panels and events
- Simultaneously monitor and control all devices, from small to large systems
- Advanced redundancy mechanisms for reliable 24/7 service availability
- Automatically tracks and reports system and operator activities
- Automate and execute tasks with scheduling capability
- Seamless integration into existing systems with Northbound Interface
- Security management with user rights and privileges
- Scalable and reliable system thanks to clustering and 1+1 backup support

Applications

- Multi-screen convergence headend
- Multi-format VOD production
- Network PVR transcoding
- IPTV
- Digital Cable
- DTH / Mobile Broadcast
- Over the top TV delivery / Internet TV / TV everywhere
- Mobile TV



System Management Capabilities

System and Device Monitoring

24/7 device monitoring with alarms history and filtering capability
Tracking of the performance with customizable reports allowing the operator to define its own KPI
Notification by emails of critical events or reporting data

System and Device Control

Device control and management by SNMP or SOAP
Advanced 1+1 or N+M device redundancy mechanisms based on alarm correlation, with graphical redundancy view
Automate and execute tasks using scheduling functionality (like for example configuration changes)
Automatic or manual backup of complete video head-end configuration
1+1 4Manager support with automatic database synchronization
Integration into large systems with North Bound Interface (NBI) support
Extend system scalability by clustering 4Managers for large systems' deployments

4Manager User Interface

Multi screens capability for ease of management and control
Customizable system layout with Visio files
User profiles and privileges for secure administration of the system
Interactive and graphical fault locator using Root Cause Analysis (RCA)

Integrated Devices

Envivio Video Devices:

- 4Caster C4, 4Caster C4², 4Caster C4 Gen III
 - 4Balancer
 - Halo, Network Media Processor
 - 4Caster M2
 - 4Caster B3
- Video routers, IP switches and 3rd party devices ⁽¹⁾

Communication Protocols Supported

Connections:

- Ethernet (10/100/1000 Base-T)

Communication protocols:

- UDP, TCP/IP
- HTTP
- SNMP
- SOAP
- Telnet
- XML

Hardware

System

1U rack IBM xSeries 3550 M2, Intel Xeon 2.26 GHz, 8MB cache
Memory – 2.048 GB, hard disk drives in RAID 1 configuration
Ethernet – 2 x 10/100/1000
Redundant power supply

Physical

Width: 440 mm (17.3")
Height: 43 mm (1.7")
Depth: 711 mm (28")
Weight: 12.7 kg (28 lb)

Power

100-240 VAC auto-ranging, 240 W maximum
Max Btu output: 819 Btu/hr
Noise level (horizontal position): 57 db (operating)

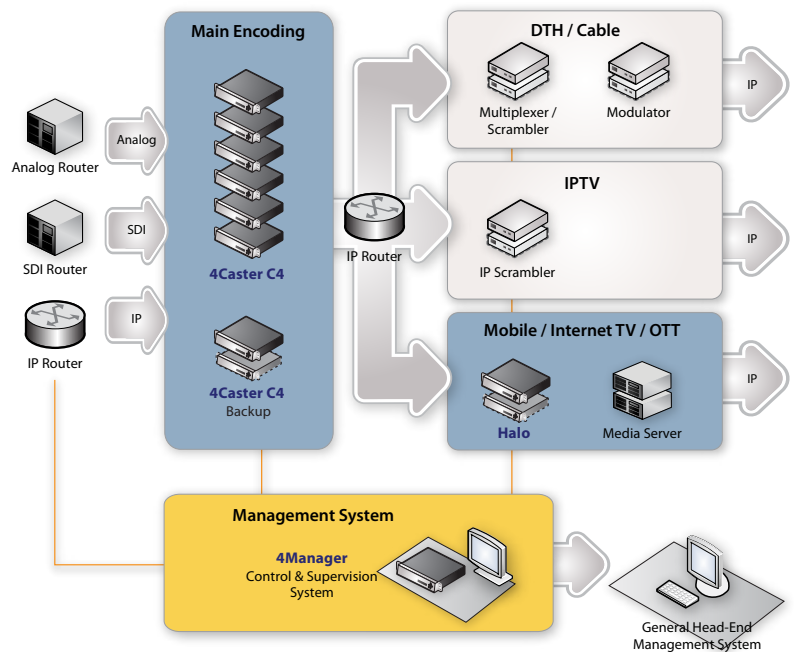
Environmental

Temperature: server on: 10.0° to 35.0°C (50° to 95°F)
Temperature: server off: Non operating: 95% at 30°C (86° F) non-condensing
-40° to 60°C (-104° to 140°F)

Agency Certifications

FCC Class A, CE, cTUVus, CB, VCCI, KCC
RoHS-compliant, WEEE-compliant

Video Headend Overview



- (1) Please contact Envivio for device brand and model supported
(2) Complete list available upon request

For more information or to contact Envivio visit:

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