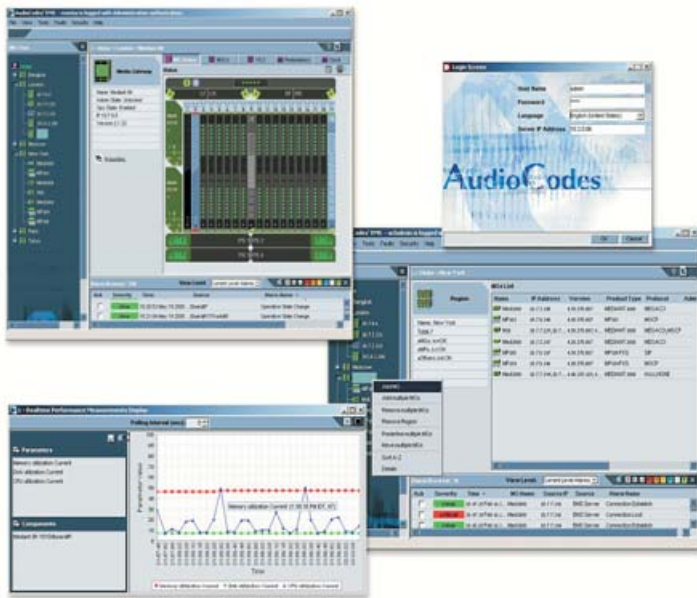


AudioCodes EMS

Element Management System



- Displays the status of multiple media gateways—accessed from a central or several remote locations
- Supports real-time definition of media gateway systems
- Lowers operational costs by supporting automated deployment utilities, bulk operations
- Reduces troubleshooting time using “status at a glance”
- Increases productivity and minimize the learning curve with a user-friendly graphical user interface (GUI)
- Ensures smooth integration with higher layer network management systems

The **AudioCodes' Element Management System (EMS)** is an advanced solution for standards-based management of the Mediant™, MediaPack™ VoIP Gateways and IPmedia™ servers, covering all the areas vital to the efficient operation, administration, management, and provisioning (OAM&P) of these VoP networks elements. AudioCodes' EMS enables Network Equipment Providers (NEPs) and System Integrators (SIs) the ability to offer end-users rapid time-to-market and inclusive, cost-effective management of next-generation networks.

DEPLOY A FULL AND COMPREHENSIVE EMS

The standards-compliant EMS for AudioCodes' media gateways and servers uses distributed SNMP-based management software, optimized to support day-to-day Network Operation Center (NOC) activities, while offering a feature-rich management framework. It supports full fault and alarm management, configuration, performance monitoring and security. AudioCodes' EMS simultaneously manages multiple network based digital Media Gateway systems and their modules, as well as CPE based analog and digital VoIP gateways.

EASY NETWORK INTEGRATION

AudioCodes' EMS includes standard open interfaces to facilitate integration with higher layer management systems and enable interworking with legacy operational support systems. The Application Programming Interfaces (API) provide an extensible framework, which allow AudioCodes' EMS to be tightly integrated into virtually any operational environment. AudioCodes' EMS is designed to operate in conjunction with existing Network Management Systems (NMS), to provide operators with an end-to-end view of their entire network.

EASY ACCESS TO THE OPERATOR

The system solution includes an attractive Graphical User Interface (GUI) with user-friendly tools to increase operator productivity during configuration and provisioning tasks. AudioCodes' EMS gives intuitive access to status information, as well as rapid navigation to physical and logical objects.

BENEFIT FROM EXTENSIVE GATEWAY EXPERIENCE

AudioCodes, a world leader in providing packet-enabled new voice infrastructure network technologies, provides a flexible, intelligent and comprehensive Element Management System, taking advantage of the first-rate capabilities of the gateways and servers in the operator's VoP network.

AudioCodes' EMS fully supports AudioCodes' Mediant™ and MediaPack™ gateways as well as IPMedia™ servers for VoP networks.

AUDIOCODES ELEMENT MANAGEMENT SYSTEM FEATURES

- Client /Server architecture
- Java-based architecture
- API-OEM ready
- Audit logging
- Multi-language support ready
- Open solutions environment
- Operator individual views and profiles
- Supports gradual network deployment

AudioCodes EMS for Mediant™, IPmedia™ and MediaPack™

AudioCodes EMS

SELECTED SPECIFICATIONS

Element Management

TMN Standards	• ITU-T recommendation M.3010 series; FCAPS functionality support
Fault Management	• Media Gateways status monitoring. Summary of element status in one screen with “drill down” hierarchy. Color scheme shows failure severity, redundant modules, switch-over state • Alarm & State management according to ITU X.731, X.733 • Context-sensitive current and history alarms with various filtering and search options
Configuration Management	• Provisioning based on hierarchy of management objects concept • Parameters search, online help with detailed description of parameters • Supports multiple actions on set of small MGs: configuration download, upload, master profile apply, reset, software upgrade and regional files download • For large media gateways, support all maintenance actions including online software upgrade via Wizard
Performance Management	• Real-time and historical data monitoring • Counters, periodical reports, data collection and threshold setting • Statistics and graphical presentation
Security Management & Network Security	• Security Management according to T1M1.5/2003-007R4 • EMS client-server communication: secured using Remote Method Invocation protocol over Secure Sockets Layer. • EMS Server - Mediant 5000 / 8000: All protocols (SNMPv2c, Telnet and FTP) run over IPsec provisioned with a IKE preshared key. • EMS Server - Mediant 1000 / 2000 / 3000 and MediaPack: SNMPv2c and HTTPS.

User Interfaces

Graphical User Interface (GUI)	• Complete set of operations to perform fault, performance, provisioning and administration functions
Internationalization	• Multi-language support ready

External Interfaces

Northbound	• Fall- through NMS into EMS application • SNMP traps from media gateways and servers: send to NMS - either directly or aggregated, via the EMS
Southbound	• Mediant 5000/8000: SNMPv2c, Telnet, FTP • Mediant 1000/2000 /3000 and MediaPack: SNMPv2c, HTTP

Operation & Maintenance

Media Gateway Auto Detection	• Automatic detection of Media Pack, Mediant 1000, 2000 and 3000 - upon connections to the network – and addition to the managed nodes hierarchical tree
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EMS Packages

EMS/Lite	• Manages up to 100 Media Pack media gateways and up to 15 digital Mediant 1000/2000/3000 media gateways and IPmedia 2000/3000 media servers. Runs on a PC, windows-based OS.
EMS/Basic	• Manages up to 500 analog Media Pack media gateways, up to 30 digital Mediant 1000/2000/3000 media gateways, IPmedia 2000/3000 media servers and up to 5 Mediant 5000/8000 media gateways.
EMS/Full	• Manages up to 3000 analog Media Pack media gateways and up to 100 digital Mediant 1000/2000/3000/5000/8000 media gateways, IPmedia 2000/3000 media servers and Mediant 5000/8000 broadband access gateways.

EMS Basic and Full versions run on a Sun/Solaris based platform.

SUPPORTED PRODUCTS

- Mediant 1000/2000/3000/5000/8000 (Wireline, Wireless and Broadband Access)
- IP Media 2000/3000/5000/8000 Media Server
- MediaPack MP-104/108/124 (VoIP), MP11x

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC) enables the new voice infrastructure by providing innovative, reliable and cost-effective Voice over Packet technology and Voice Network products to OEMs, network equipment providers and system integrators. AudioCodes provides its customers and partners with a diverse range of flexible, comprehensive media gateway and media processing technologies, based on VolPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture. The company is a market leader in voice compression technology and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, and enhanced voice services markets. AudioCodes enabling technology products include VoIP and CTI communication boards, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America.

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Minimal Platform Requirements

Resource	EMS Full Server	EMS Basic Server	EMS Lite Server	EMS Client
Hardware	Sun™ Fire™ V240	Sun™ Sparc™ Blade 150 or equivalent	PC	PC
Operating System	Solaris™ 64-bit, version 5.9	Solaris™ 64-bit, version 5.9	Windows™ 2000/XP	Windows™ 2000/XP
Memory	1 GB RAM	1 GB RAM	512 MB RAM	512 MB RAM
Disk space	40 GB	40 GB	10 GB	300 MB
Processor	1 GHz UltraSPARC IIIi	550 MHz UltraSPARC IIIi	600 MHz Pentium III or higher	600 MHz Pentium III
Swap space	2 GB	2 GB	1 GB	1 GB
CD ROM			Local	

