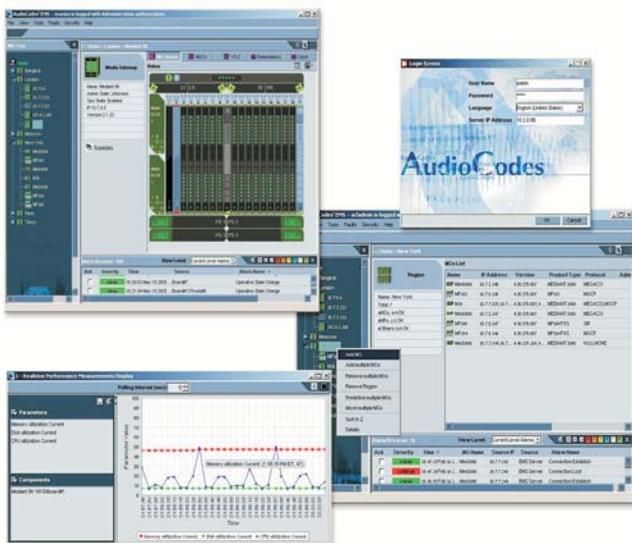


AudioCodes EMS

Element Management System



- Displays the status of multiple media gateways accessed from a central or several remote locations
- Supports real-time configuration 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 minimizes 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™ and MediaPack™ Media Gateways as well as the IPmedia™ Media Servers, covering all the areas vital to the efficient operation, administration, management, and provisioning (OAM&P) of these VoIP network products. AudioCodes' EMS enables Service Providers, Enterprises and Network Equipment Providers to cost-effectively manage their VoIP networks.

DEPLOY A FULL AND COMPREHENSIVE EMS

The standards-compliant EMS for AudioCodes' media gateways and media 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 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 customers 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 media gateways and media servers in the operator's VoIP network.

AudioCodes' EMS supports AudioCodes' Mediant™ and MediaPack™ gateways as well as IPmedia™ servers for VoIP 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

SELECTED SPECIFICATIONS

Element Management

TMN Standards	<ul style="list-style-type: none"> ITU-T recommendation M.3010 series; FCAPS functionality support
Fault Management	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Provisioning based on hierarchy of management objects concept Parameters search, online help with detailed description of parameters Supports multiple actions on set of small Media Gateways: 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	<ul style="list-style-type: none"> Real-time and historical data monitoring Counters, periodical reports, data collection and threshold setting Statistics and graphical presentation
Security Management & Network Security	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Complete set of operations to perform fault, performance, provisioning and administration functions
Internationalization	<ul style="list-style-type: none"> Multi-language support ready

External Interfaces

Northbound	<ul style="list-style-type: none"> Fall- through NMS into EMS application SNMP traps from media gateways and servers: send to NMS - either directly or aggregated, via the EMS
Southbound	<ul style="list-style-type: none"> Mediant 5000/8000: SNMPv2c, Telnet, FTP Mediant 600/1000/2000 /3000 and MediaPack: SNMPv2c, HTTP

Operation & Maintenance

Media Gateway Auto Detection	<ul style="list-style-type: none"> 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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Minimal Platform Requirements

Resource	EMS Server	EMS Client
Hardware	HP DL360 with G6 processor	PC
Operating System	Linux (CentOS)	Windows™ 2000/XP
Memory	2x1 GB RAM	512 MB RAM
Disk space	164 GB	300 MB
CD/DVD-ROM	SATA DVD	

SUPPORTED PRODUCTS

- Mediant 600/1000/2000/3000/5000/8000
- IPmedia 2000/3000/5000/8000 Media Server
- MediaPack 10x; MediaPack 11x; MediaPack 124

ABOUT AUDIOCODES

AudioCodes Ltd. (NasdaqGS: AUDC) designs, develops and sells advanced Voice over IP (VoIP) and converged VoIP and Data networking products and applications to Service Providers and Enterprises. AudioCodes is a VoIP technology leader focused on VoIP communications, applications and networking elements, and its products are deployed globally in Broadband, Mobile, Cable, and Enterprise networks. The company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Gateways, Residential Gateways, IP Phones, Media Servers, Session Border Controllers (SBC), Security Gateways and Value Added Applications. AudioCodes underlying technology, VolPerfectHD™, relies primarily on AudioCodes leadership in DSP, voice coding and voice processing technologies. AudioCodes High Definition (HD) VoIP technologies and products provide enhanced intelligibility, and a better end user communication experience in emerging Voice networks.

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