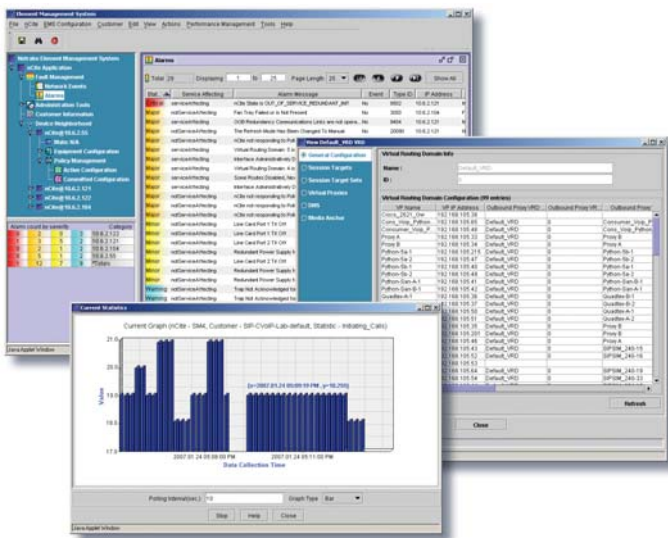# nCite™ EMS Elements Management System

- **Displays the status of multiple Session Border Controllers**
- **Reduces troubleshooting time by providing graphical display of alarm and event status**
- **Provides real-time monitoring of SIP and H.323 sessions, registrations, and event dialogs**
- **Provides a user-friendly graphical user interface (GUI) for policy configuration and activation**
- **Allows the generation of session detail records for billing solutions and SLA enforcement**

The nCite™ Element Management System (EMS) provides a comprehensive set of functionality for managing nCite™ Session Border Controller (SBC) real-time sessions, including defining and managing customer policies, automatic recognition of system alarms and events, and the monitoring of resource usage statistics for network and service planning purposes.

Using the nCite EMS, service providers can set up specific customer network policies that includes information related to the protocol used (SIP, H.323), the type of network required (Enterprise, Consumer, Carrier), Session Admission Control level (number of sessions, event dialogs), QoS marking, and any other pertinent information that provides the operator with the ability to customize the service of their VoIP customers.

SLAs, one of the most important issues with any telecommunication services, are now easily enforced with the nCite EMS. The nCite EMS provides the following information on a per call basis:

- Signaling Information (SIP/H.323)
  - Start time, stop time, duration, end state
  - Caller ID, callee ID, caller protocol, callee protocol
  - Protocol specific identifiers
  - Media binding information
- Media Information (RTP/RTCP) - average jitter, packet loss
- Reporting Medium
  - Network Detail Records - for sessions, registrations, and call failures
  - Real-time Session Display - for sessions, registrations, and event dialogs
  - Performance Statistics - generated at the chassis and customer network level

Ease of Management

The nCite EMS provides a Graphical User Interface (GUI) that allows several nCite SBCs to be managed from a single view. The GUI is accessed via a standard browser running a Java application. Standard APIs are also available for OSS integration. The nCite SBC comes equipped with industry standard Northbound interfaces for rapid integration into existing network management system interfaces include:

- SSH and SCP
- PSNMP v2c
- Standard MIB Support

nCite Element Management System Features

- Client/Server architecture
- Java-based architecture
- Audit Logging
- RTP Rogue Detection
- RADIUS User Authentication
- Downstream Failure Detection
- Hitless Software Upgrades
- Dynamic Configuration Changes
- Roll-Back Policy Management

AudioCodes

nCite™ EMS

SELECTED SPECIFICATIONS

Element Management

Fault Management	• Session Border Controller alarm status monitoring • Threshold definition for alarms • Alarm filter and search capabilities
Configuration Management	• Monitoring and provisioning of nCite hardware components • Monitoring and provisioning of Redundant nCite Configurations • Hardware diagnostics
Performance Management	• Statistics collection at the SBC and customer level • Real-time and historical data collection • Alarm generation when statistic thresholds are reached • Detail record search capabilities for sessions, registrations, and call failures • Statistic representation in textual or graphical format
Policy Management	• Customized processing based on customer network protocol and routing requirements • SIP/H.323 feature activation • Roll-back policy capability
Security Management	• Audit Logging • RADIUS Server configuration and user authentication • Monitoring and managing Rogue RTP calls

EMS Client Requirements

Software	Operating System: Windows 2000 Browser: Internet Explorer 5.0, 5.5 Java Runtime Environment Version: 1.4.2_10
Hardware	Processor Type: Pentium III or higher Processor Speed: 500 MHz Memory: 128 MB RAM or higher

EMS Server Requirements

Software	Operating System: Linux Red Hat 3.0 ES
Hardware	Processor Type: Pentium III or higher Processor Speed: 1 Ghz Disk Space Required: 28GB of storage (minimum)

SUPPORTED PRODUCTS
• nCite DE Session Border Controller
• nCite SE Session Border Controller

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology, Voice Network products, and applications to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VoIPerfect™– AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, 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. For further information on AudioCodes, visit www.audiocodes.com.

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