

Sonus Insight Element Management System

The Sonus Insight Element Management System (Insight EMS) provides a centralized, cloud-optimized solution for the efficient management of every Sonus element in a customer's network. Insight EMS provides a complete FCAPS (Fault, Configuration, Accounting, Performance, and Security) solution with a robust portfolio of management and provisioning tools that, in conjunction with Sonus DataStream Integrator (DSI), allow service providers and enterprises to easily perform FCAPS management of their network. Insight EMS includes the Sonus Licensing Server (SLS) for Network Wide Licensing support. Insight EMS leverages OpenStack as an open-source software platform to offer an agile and scalable cloud network solution. Insight EMS also includes the Sonus Virtual Network Function Manager (VNFM) to provide Sonus' lifecycle management for all Sonus Virtual Network Functions (VNFs) and a fault tolerant Data Warehouse that collects Sonus VNF data and provides a cloud optimized data base store.



Deployed in the world's largest networks for more than a decade, Insight EMS offers a mature, feature-rich management system providing a simple-to-use, graphical user interface and accelerated provisioning and management for Sonus network elements.

Key Benefits

- Delivers efficient centralized management of the complete Sonus network, including cloud-based elements and VNFs
- Integrated data feed of VNF key performance indicators (KPIs) for analytics and service orchestration
- Intuitive and secure navigation via element grouping and role-based access control with audit trails
- Centralized fault and performance monitoring and diagnostics for rapid identification and resolution of network and service outages
- High-scale, flexible deployment options, including high availability (HA) and geo-redundant configurations
- Open standard interfaces enable integration with existing management processes and systems with full OpenStack integration for cloud deployments

System Capabilities

- Single EMS to provision, monitor, and manage all Sonus network elements with full network inventory
- Highly scalable and flexible client-server architecture supporting thousands of network elements
- Data agent function for tracking and forwarding of VNF KPIs for integrated analytics
- Customizable dashboards
- Cloud-optimized deployment using common orchestration to easily service chain session management and policy control
- Integrated ETSI compliant VNFM provides rules based scaling and lifecycle for onboarding, instantiation, scaling, updating and deleting of Sonus VNFs for OpenStack cloud deployments
- Granular user privilege levels with audit trails
- Seamless integration with device-specific management tools and support of flow-through provisioning
- Cloud-optimized data warehouse access for centralized storage of logs, CDRs, and analytics
- Sonus License Server (SLS) for Network Wide Licensing (NWL) support

Fault Management

- Utilizes IBM® Tivoli® Netcool®/OMNibus event management engine
- Reliable alarm retrieval
- Customizable real-time summary graphs and event lists
- Alarm rules and filtering; alarm forwarding
- Historical logs
- Call history and call trace for deep diagnostics

Configuration Management

- Intuitive navigation to all elements, with flexible grouping for ease of access
- Automated discovery and update of element configurations
- Search and filter functions for rapid access to elements
- Element and network configuration using graphical client or Application Program Interfaces (APIs)
- Online help included for Sonus' complete line of products
- Session Border Control (SBC) microservices and cluster management
- Integrated VNFM provides rules-based scaling and lifecycle for onboarding, instantiation, scaling, updating, and deleting of Sonus VNFs

Virtualization

- Deployable in any virtualized, cloud, or hardware platform using industry-standard server
- Standard-based, advanced features and functionality regardless of platform
- By using common management and code base, Sonus has provided a low-cost migration path for existing customers as they evolve their networks to virtualization and cloud architectures

Performance Management

- Reliable and scalable data collection from Sonus platforms
- Real-time and historical reporting
- Report export: HTML, CSV
- User-defined collection profiles
- User-defined threshold alarms
- Access to the Sonus cloud-based centralized data warehouse for logs and Call Detail Records (CDRs)

Security

- Client access control via onboard or RADIUS authentication
- User profiles provide flexible role-based access control
- Hierarchical groups enable flexible user segmentation
- System and user activity monitoring
- Secure EMS to client communication using HTTPS
- Secure EMS to device communication using HTTPS, SSL, and SSH

Open Interfaces

- Northbound SOAP interface
- VNF compliant to ETSI recommendations for OpenStack deployments
- SNMP trap forwarding for seamless integration with standard network fault management applications
- Performance data exportable to capacity planning and reporting applications
- SOAP/XML interface for provisioning integration
- Command line interface
- SOAP/XML interface to enable Lawful Intercept

Sonus Elements Supported

- Session Border Controller Software Edition (SBC SWe)
- Session Border Controller 5100 Series
- Series Session Border Controller 5200 Series
- Session Border Controller 7000
- Session Border Controller 1000
- Session Border Controller 2000
- Centralized Policy and Routing Server (PSX), including embedded PSX (ePSX)
- DataStream Integrator (DSI)
- SGX 4000 Universal Signaling Gateway
- GSX 9000 High Density Media Gateway
- Telephony Application Server (ASX)
- Access Directory Server (ADS)
- WebRTC Services Solution
- Diameter Signaling Controller Software Edition (DSC SWe)
- Diameter Signaling Controller 8000

System Requirements

Deployment Options

- Direct software download for rapid deployment
- Standalone system available
- High availability provides maximum system uptime
- Geo-redundant location of systems for site disaster recovery

Hardware Specifications

- EMS Standalone
 - vCPU - 6
 - vMemory - 32GB
 - vHDD - 4x450GB
 - vHBA - 4xGBE
- EMS High Availability
 - vCPU - 6
 - vMemory - 32GB
 - vHDD - 4x450GB
 - vHBA - 4xGBE
 - Fiber Channel

Note: Please contact your sales or channel contact to get the exact specifications.

External Storage System

- SAN with a shared LUN for HA configuration

Operating System

- Red Hat Enterprise Linux
- OpenStack Mitaka and Newton support

Client Requirements

- Intel Dual Core CPU @ 2.4GHz or higher
- 2GB RAM or higher
- Windows, Window XP, Vista
- Microsoft Internet Explorer
- Mozilla Firefox

About Sonus Networks

Sonus brings the next generation of Cloud-based SIP and 4G/VoLTE solutions to its customers by securing mission critical traffic for VoIP, video, IM and online collaboration. With Sonus, enterprises can secure and prioritize real-time communications, while service providers can deliver reliable, secure real-time services for mobile, UC and social applications. Sonus offers an award-winning portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), Policy/Routing servers and media/signaling gateways. Visit www.sonus.net or call 1-855-GO-SONUS. Follow Sonus on Twitter, Facebook, LinkedIn, YouTube and Instagram.

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