

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

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

Software Requirements

- Red Hat Enterprise Linux v6.4.1 (included)
- Oracle Enterprise Edition 11.2.0.3EE (included)

Client Requirements

- Intel Dual Core CPU @ 2.4GHz or higher
- 2GB RAM or higher
- Windows XP, Vista, 7.0
- Microsoft Internet Explorer versions 9, 10, or 11
- Mozilla Firefox version 31 or later

About Sonus Networks

Sonus enables and secures real-time communications so the world's leading service providers and enterprises can embrace the next generation of SIP and 4G/LTE solutions including, VoIP, video, instant messaging, and online collaboration. With customers in more than 50 countries and nearly two decades of experience, Sonus offers a complete portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), policy/routing servers, and media and signaling gateways. For more information, visit www.sonus.net or call 1-855-GO-SONUS. Sonus is a registered trademark of Sonus Networks, Inc. All other company and product names may be trademarks of the respective companies with which they are associated.

Sonus Networks North American Headquarters

4 Technology Park Drive
Westford, MA 01886
U.S.A.
Tel: +1-855-GO-SONUS

Sonus Networks APAC Headquarters

1 Fullerton Road #02-01
One Fullerton
Singapore 049213
Singapore
Tel: +65-68325589

Sonus Networks EMEA Headquarters

Edison House
Edison Road
Dorcan, Swindon
Wiltshire
SN3 5JX
Tel: +44-14-0378-8114

Sonus Networks CALA Headquarters

Homero No. 1933-902
Col. Los Morales, C.P. 11510
Mexico City, Mexico
Distrito Federal
Mexico Tel: +52-55-1950-3036
Int'l Tel: +1-978-614-8741

To learn more, call Sonus at 855-GO-SONUS
or visit us online at www.sonus.net

Microsoft Partner
Gold Communications

Voice
Unified Communications
Business Productivity Solutions
Midmarket Solution Provider

The content in this document is for informational purposes only and is subject to change by Sonus Networks without notice. While reasonable efforts have been made in the preparation of this publication to assure its accuracy, Sonus Networks assumes no liability resulting from technical or editorial errors or omissions, or for any damages resulting from the use of this information. Unless specifically included in a written agreement with Sonus Networks, Sonus Networks has no obligation to develop or deliver any future release or upgrade, or any feature, enhancement, or function.

Copyright © 2017 Sonus Networks, Inc. All rights reserved. Sonus is a registered trademark of Sonus Networks, Inc. All other trademarks, service marks, registered trademarks, or registered service marks may be the property of their respective owners.