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# Sonus SBC 1000-2000 User's Guide

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The Sonus SBC 1000/2000 User's Guide is for System Administrators and Operators. It contains detailed task-based instructions for using all the features and functionality of the Sonus SBC 1000/2000 Series gateways.

## Getting to Know the Sonus SBC 1000-2000

- Sonus SBC 1000-2000 Status LEDs
- Sonus SBC 1000-2000 System Hardware
- Hostname Conventions
- Managing DSPs

## Troubleshooting Sonus SBC 1000-2000

- Rebooting Sonus SBC 1000-2000
- Resetting the Sonus SBC 1000-2000 to Factory Defaults
- Common Troubleshooting Issues
- Common Troubleshooting Issues with Certificates in Sonus SBC 1000-2000
- Alarms and Events Reference
- Working with the Debug Facility
- Testing a Call
- Testing Network Connections
- Viewing Mounted File Systems
- Viewing Active Processes
- Viewing The SIP Connections Table
- Viewing The Disk Partition Table

## Checking your System Information

- Viewing the Software Version and Hardware ID
- Viewing ASM System Details
- Viewing and Clearing Global Call Counters
- Checking Port Status
- Checking Cards and Modules Status
- Checking System Fan Status
- Checking Power Supply Status
- Viewing Installed Modules, Power Supplies, and Ports
- Viewing DSP Module Statistics
- Status Panel States and Actions

## Working with Licenses

- Decoding License Keys
- Installing Licenses
- Viewing Licenses

## Working with Certificates

- Managing Server Certificates
- Managing Trusted CA Certificates
- Requesting a Signed Certificate using a Standalone Windows CA
- Downloading a CA Certificate using a Standalone Windows CA

## Integrating with Active Directory

- Configuring the Sonus SBC 1000-2000 for Active Directory
- Configuring the Sonus SBC 1000-2000 for Active Directory User Domain Access
- Managing Domain Controllers
- Managing Active Directory Groups to Access Level Mapping

- Querying the Active Directory Cache

## **Integrating with RADIUS**

- Configuring the Sonus SBC 1000-2000 for RADIUS
- Managing RADIUS Servers
- Managing RADIUS User Class Access Level Mapping
- RADIUS User Authentication Tips Using FreeRADIUS

## **Working with Physical Ports**

- Managing Ethernet Ports
- Managing Telephony Ports

## **Working with SIP**

- Managing SIP Signaling Groups
- Managing SIP Profiles
- Managing TLS Profiles
- Managing SIP Server Tables
- Managing Local Registrars
- Managing Contact Registrant Tables
- Managing Remote Authorization Tables
- Managing Local Pass-through Authorization Tables
- Managing SIP Trunk Groups
- Miscellaneous SIP Information

## **Working with Telephony Routing**

- Managing Signaling Groups
- Managing Call Routing Tables
- Managing Transformation Tables
- Managing Action Configurations
- Managing Action Sets
- Routing Usage Examples

## **Working with Users and Groups**

- How User Authentication Works
- Permissions Overview
- Monitoring User Activity
- Changing The Current User's Password
- Managing Remote Authentication
- Managing Local Users
- Managing Global Security Options
- Recovering Admin Passwords

## **Working with Telephony Mapping Tables**

- Managing Cause Code Reroute Tables
- Managing Message Translations
- Managing Q.850 to SIP Override Tables
- Managing SIP to Q.850 Override Tables
- Q850 Cause Codes
- SIP Response Codes

## **Working with CAS**

- Managing CAS Signaling Groups
- Managing CAS Profiles

- Managing Supplementary Service Profiles

## **Working with System Settings**

- Working with Backup and Restore
- Backing Up Data
- Restoring Data
- Using the Custom Passphrase
- Configuring Host Information and DNS
- Configuring the System Clock Source
- Configuring an NTP Time Source
- Configuring the System Companding Law
- Configuring the System Date and Time
- Clearing DNS Cache
- Configuring Quality of Experience (QoE) Settings
- Partial Configuration Imports
- Importing and Exporting Transformation Tables

## **Working with Microsoft Unified Communications**

- OCS 2007 Setup
- Lync Setup

## **Working with the ASM and SBA**

- Managing the ASM
- Applying an SBA Security Template
- Managing the Lync SBA
- Managing the SBC Communication Service

## **Working with Media**

- Configuring the Media System
- Managing Media Profiles
- Managing Media Crypto Profiles
- Managing Media Lists

## **Working with Tones**

- Creating and Modifying Tone Tables

## **Working with SNMP and Alarms**

- Configuring Alarms and Events
- Managing SNMP Management Addresses
- Configuring Sonus SBC 1000-2000 for SNMP Management
- SNMP MIBs Reference

## **Working with Logging**

- Managing Remote Log Servers
- Managing Subsystems Logging
- Managing Local Logs
- Supported Logging Levels
- Working with Port Mirroring
- Accessing Log Exchange-LX

## **Working with Ethernet Interfaces and IP**

- Managing Logical Interfaces

- Managing Static IP Route Tables
- Managing Static ARP Tables
- Modifying the Sonus SBC 1000-2000 IP Address
- How the Sonus SBC 1000-2000 Routes IP Traffic to a NIC
- Managing the Hosts Table
- Managing VLANs

## **Working with System Software**

- One-Step Upgrade
- Managing Application Partitions
- Managing the Boot Partition

## **Working with Call Detail Records**

- Call Detail Records Primer
- Configuring the Sonus SBC 1000-2000 for CDR
- Retrieving Call Detail Records From a RADIUS Server
- Vendor Specific Attributes Reference
- Viewing Call Detail Record Statistics

## **Working with the Web Interface**

- Logging in to Sonus SBC 1000-2000
- Managing Login Messages
- Monitoring Real Time Status
- Viewing Alarms and Events

## **Working with ISDN**

- Managing ISDN Signaling Groups

## **Working with SCOM**

- SBC SCOM Object Model and Health Monitoring

## **Working with Enhanced 911 Devices**

- Configuring Emergency Services
- Managing Callback Number Pools
- Viewing Emergency Calls

## **Working with Dynamic Routing**

- Managing Router Instances

## **Working with Access Control Lists and Session Control**

- Managing Access Control Lists

## **Working with Network Services**

- Managing the DHCP Server
- Managing the DHCP Client

## **SIP Message Manipulation**

- Managing Condition Rule Tables
- Managing Message Rule Tables
- Using the Condition Expression Builder

- Managing Call Admission Control Profile
- Export/Import SIP Message Rule
- Importing and Exporting SIP Message Rules

## **Miscellaneous Topics**

- Resequencing Tables
- The Multiselect Widget

## **Working with IPsec**

- Managing IPsec Tunnels
- Configuring a Site to Site IPsec between the SBC Gateways
- Viewing IPsec Statistics

## **Working with NAT and Port Forwarding**

- Managing NAT Interface Tables
- Managing Port Forwarding Tables

## **Working with Branch Survivability**

- Configuring 3G4G Failover
- Managing Link Monitor Configuration Tables
- Managing Lync CAC Profiles

## **Working with Historical Data and TCA Thresholds**

- Managing TCA Thresholds

## **Working with Multiple Spanning Trees**

- Managing MST Instances
- Modifying Region Settings

## **Working with RTP Proxies**

## **About Signaling Groups**

## **Working with Security**

## **About Authentication and Directory Services**