



Preface

Revised: May 17, 2007, OL-5352-13

The *Cisco BTS 10200 Softswitch SIP Protocol User Guide* details support for Session Initiation Protocol (SIP) devices and trunks in Release 4.5.x. This guide covers areas impacted by the feature and is an addition to the existing Cisco BTS 10200 Softswitch documentation.

Revision History for Release 4.5.x

This document includes all of the information that was contained in the previous issues (the Release 4.4 SIP Protocol User Guide), and has been updated as follows for Release 4.5.x.

Cisco BTS 10200 Softswitch Release	Changes
Release 4.5.x, continued	OL-5352-14: - A statement was added to the description of the Do Not Disturb (DND) feature to note that the reminder ring is not provided to SIP endpoints. See Appendix A “MGCP Features vs. SIP Features.” OL-5352-13: Information was added to clarify that the BTS 10200 validates the hostname of the ReqUri of every received request against the list of names provisioned in the Serving-Domain-Name table. See the “SIP User Authentication” section on page 2-8. OL-5352-12: (Release 4.5.1, Maintenance Release 2) Information was added regarding the contents of the Diversion headers and presentation values. See the “Diversion Indication” section on page 2-31 and “Diversion Indication” section on page 3-11. OL-5352-11: (Release 4.5.1, Maintenance Release 2) Information was added regarding the number of parameters in headers. See the “Limitations on Number of URLs, Parameters, and Headers (Release 4.5.1, Maintenance Release 2)” section on page 1-17. OL-5352-10: Clarification was added that provisioning changes to DSCP parameters in the ca-config table do not take effect until the CA platform restarts or switches over (Chapter 2, “SIP Protocol Subscriber Features” and Chapter 3, “SIP Protocol Trunk Features”). OL-5352-09: - Added a note regarding changed SDPs in the “SIP Timer Values” section on page 2-23 and the “Session Timers” section on page 3-14. - Corrected the information on SIP support for the Calling Number Delivery (CND) feature in Appendix A “MGCP Features vs. SIP Features.”

Cisco BTS 10200 Softswitch Release	Changes
Release 4.5.x, continued	OL-5352-08: • (Release 4.5.0 and 4.5.1) Added information about treatment of transient calls in Chapter 1, “SIP Devices Support Overview.” • (Release 4.5.0 and 4.5.1) Added information about user-level privacy in Chapter 2, “SIP Protocol Subscriber Features.” • (Release 4.5.0 and 4.5.1) Added information about 3XX call redirection in Chapter 3, “SIP Protocol Trunk Features.” • (Release 4.5.1, Maintenance Release 1) Added a section about source IP validation in Chapter 3, “SIP Protocol Trunk Features.” • (Release 4.5.0 and 4.5.1) Added the value of USER for the privacy parameter in the Subscriber table in Chapter 5, “Database Tables.”
Release 4.5.x	OL-5352-07—The following information was changed: • SIP Timer Values, page 2-23: Added drawings to illustrate the usage of several SIP timers. • TRUNK-GRP Table, page 3-22: Removed unused tokens. The following features were added or enhanced in Release 4.5.x: • Phone-Based Features, page 1-15 • SIP Devices, page 2-2 • Enhanced SIP Registration, page 2-4 • Session Timers, page 2-22, and SIP Timer Values, page 2-23 • T.38 Fax Relay Call Agent Controlled Mode Across SIP Trunk Interface, page 3-24 • SIP Dynamic Memory Audit, page 2-18 • Outbound Cisco BTS 10200 SIP Call, page 3-2 • SIP Trunk Features, page 3-2 • Chapter 4, “Voice-Mail Support” • Chapter 5, “Database Tables” For additional new or modified SIP features, refer to New or Enhanced SIP Subscriber Features for Release 4.5.x, page 1-8.

Audience

This guide is intended for use by service provider management and system administration personnel who are responsible for installing, provisioning, and maintaining networks that use the Cisco BTS 10200 Softswitch system.

Organization

This document is organized as follows:

- [Chapter 1, “SIP Devices Support Overview”](#)
- [Chapter 2, “SIP Protocol Subscriber Features”](#)
- [Chapter 3, “SIP Protocol Trunk Features”](#)
- [Chapter 4, “Voice-Mail Support”](#)
- [Chapter 5, “Database Tables”](#)
- [Chapter 6, “Measurements, Events, and Alarms”](#)
- [Appendix A, “MGCP Features vs. SIP Features”](#)

Conventions

This document includes the following conventions:

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Related Documents

Use this document in conjunction with the following Cisco BTS 10200 Softswitch documents:

- *Cisco BTS 10200 Softswitch Release Notes for Release 4.5.x*
- *Cisco BTS 10200 Softswitch SIP Protocol Provisioning Guide*
- *Cisco BTS 10200 Softswitch Physical and Network Site Surveys and Data Sheets*
- *Cisco BTS 10200 Softswitch Cabling Procedures*
- *Cisco BTS 10200 Softswitch System Description*
- *Cisco BTS 10200 Softswitch Application Installation Procedures*
- *Cisco BTS 10200 Softswitch Operations Manual*
- *Cisco BTS 10200 Softswitch Network and Subscriber Feature Descriptions*
- *Cisco BTS 10200 Softswitch Billing Interface Guide*
- *Cisco BTS 10200 Softswitch Command Line Interface Reference Guide*
- *Cisco BTS 10200 Softswitch CORBA Installation and Programmer's Guides*

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