



# Preface

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**Revised: April 17, 2008, OL-7312-11**

This document provides an overview of the components, functions and signaling protocols supported by the Cisco BTS 10200 Softswitch.

## Objective

The owner/operator of a Cisco BTS 10200 Softswitch can use this document to better understand how the system interfaces with the network, and how it provides network and subscriber features in conjunction with other network elements.



### Note

Some features involve the use of other network elements (NEs) deployed in the service provider network, for example, gateways, media servers, announcement servers, eMTAs, and SIP phones. See the [Component Interoperability](#) section of the *Release Notes* for a complete list of the specific peripheral platforms, functions, and software loads that have been used in system testing for interoperability with the Cisco BTS 10200 Softswitch Release 4.5.x software. Earlier or later releases of platform software might be interoperable with the Cisco BTS 10200 Softswitch and it might be possible to use other functions on these platforms. The list in the *Release Notes* certifies only that the required interoperation of these platforms, the functions listed, and the protocols listed have been successfully tested with the Cisco BTS 10200 Softswitch.

## Audience

This document is designed for engineers, technicians, and system administrators who install, configure, and operate the Cisco BTS 10200 Softswitch.

## Organization

This System Description contains the following chapters:

- [Chapter 1, “Cisco BTS 10200 Softswitch Technical Overview”](#)
- [Chapter 2, “Supported Signaling Protocols”](#)

This document also includes the [“Glossary”](#) and [“Index”](#).

# Site Preparation and Telephony Feature Descriptions

Beginning with Release 4.5.x, the former *System Description* document is divided into three separate documents:

- Preinstallation information has been moved to a new document, [Cisco BTS 10200 Softswitch Site Preparation and Network Communications Requirements](#).
- The information on network and subscriber features (telephony features) has been moved to a new document, [Cisco BTS 10200 Softswitch Network and Subscriber Feature Descriptions](#). It contains descriptions of network features, subscriber features, class of service (COS) functions, outgoing call barring (OCB), feature interactions, and interactive voice response (IVR) features.
- The *System Description* (this document) still contains the [“Cisco BTS 10200 Softswitch Technical Overview”](#) and [“Supported Signaling Protocols”](#), along with the [“Glossary”](#) and [“Index”](#).

## Conventions

This document uses the following conventions:



### Note

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



### Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

## Updates to this Document for Release 4.5.x

### OL-7312-11, April, 2008

A clarification was made regarding the usage of the IETF RFC standards in the [“SIP and SIP-T References”](#) section on page 2-15.

### OL-7312-10, April, 2007

Additional information was added to the descriptions of the CLI and MAINT shells in the [“EMS Communications”](#) section on page 1-15.

Links to additional information were updated in the [“HTTP-FS Functions \(Optional Component\)”](#) section on page 1-18.

Q.767 Colombia was added to the list of supported ISUPs in [“Support for ISUP Variants”](#) section on page 2-5. It is applicable to Release 4.5.1, Maintenance Release 2 and later.

Additional information on billing fields, cause code selection, and troubleshooting was added to the [“ISUP Transparency with the Cisco PGW 2200”](#) section on page 2-5.

**OL-7312-09, February, 2007**

Additional information was provided on the CLI and MAINT shells in Chapter 1.

**OL-7312-08, January, 2007**

Information was added in Chapter 1 to describe several new features for Release 4.5.1 Maintenance Release 1 (MR1).

Information was added in Chapter 1 regarding a new internal component, the Internal Secondary Authoritative DNS Server (ISADS).

**OL-7312-07, September 2006**

Editorial changes were incorporated in all chapters.

Editorial changes were incorporated in several drawings.

Additional acronyms were added in the Glossary.

Additional features were listed for Release 4.5.1 in Chapter 1, including ITU LNP, metered billing, automatic shared memory backup, and long call billing enhancement.

**OL-7312-06, May 2006**

Additional subscriber and network features were listed in Chapter 1.

Additional details were provided for the ISUP transparency feature in Chapter 2.

**OL-7312-05, February 2006**

A drawing ([Figure 1-6](#)) was added to further clarify the interaction of the HTTP-FS components and the SIP clients.

**OL-7312-04, January 2006**

Additional details were provided for the optional HTTP Feature Server (HTTP-FS) component, which is composed of the GUI Feature Server (GUI-FS) and the Mini-Browser Adapter (MBA). See [Chapter 1, “Cisco BTS 10200 Softswitch Technical Overview.”](#)

The total number of provisionable subscriber features was updated (increased to over 60) on page 1 of [Chapter 1, “Cisco BTS 10200 Softswitch Technical Overview.”](#)

**OL-7312-03, November 01, 2005 (First Complete Release of this Document for Release 4.5.x):**

This document includes all of the information that was contained in the previous issue (the Release 4.4 *System Description*), and has been updated for Release 4.5.x as described in this preface.

System updates for Release 4.5.x include the following features:

- Command autocompletion and context-sensitive help
- Synchronous provisioning
- External log server, also called log archive file (LAF)
- BTS-PGW ISUP transparency
- ITU LNP
- Additional network and subscriber features (telephony features)

These updates are contained in the following chapters of this document:

- [Chapter 1, “Cisco BTS 10200 Softswitch Technical Overview”](#)
  - Updated information on the database sizing option (set at time of software installation).
  - Updated the list of capabilities and features.
  - Updated the network configuration diagram ([Figure 1-9](#)) and the note applicable to static routes.
- [Chapter 2, “Supported Signaling Protocols”](#)
  - Updated references to specific Cisco BTS 10200 Softswitch protocol guides and the component interoperability information.
  - Added ISUP transparency with the Cisco PGW 2200.
  - Updated the list of supported ISUP variants.

**Note**

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H.323 applications are supported in Release 4.5.1 but not in Release 4.5.0.

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## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>