



Preface

Revised: April 22, 2009, OL-8720-10

Introduction

This document provides detailed routing, translation, and dial plan information for the Cisco BTS 10200 Softswitch. It provides detailed digit manipulation, translation, and dial plan information for various routing scenarios. Additionally, this document provides dial plan configuration information.

Objective

The system administrator of a BTS 10200 can use this document to better understand how to configure the BTS 10200 dial plan.

Audience

This document is designed for engineers, technicians, and system administrators who setup and configure the BTS 10200 dial plan. This document is used while provisioning the BTS 10200 dial plan.

Organization

This Cisco BTS 10200 Dial Plan Guide contains the following chapters:

- [Digit Translations](#)—The BTS 10200 digit manipulation function enables manipulating either the digit string, or the nature of address (NOA), or both.
- [Routing](#)—Provides a basic understanding of the BTS 10200 routing types and an explanation of all routing types and explanation of how they function.
- [Local Exchange Routing Guide](#)—Provides a basic understanding of the BTS 10200 local exchange routing guide (LERG).
- [Electronic Number Mapping and Routing](#)—Describes electronic number mapping (ENUM) and the ENUM routing capability.
- [Dial Plans and Routing](#)—Provides detailed dial plan and routing information for the BTS 10200.
- [Command Line Interface Routing](#)—Provides a basic understanding of how the BTS 10200 Command Line Interface (CLI) functions with of the routing types and call types.
- [Preparing for Dial Plan Provisioning](#)—Describes the prerequisite tasks that need to be performed before provisioning a dial plan.
- [Provisioning Dial Plans](#)—Provides detailed instructions for configuring BTS 10200 configuration dial plans using the Command Line Interface (CLI) and the Cisco Extensible Provisioning and Operations Manager (EPOM).

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 5.0

This document has been updated for Release 5.0. The current version of this document is OL-8720-02.

The document updates from version OL-8720-02 to version OL-8720-03 include incorporatating operator placed call information.

The document updates from version OL-8720-03 to version OL-8720-04 include incorporating carrier table information.

The document updates from version OL-8720-04 to version OL-8720-05 include incorporating changes to the lerg2CLI script name. Changed from lergToCli to Access2LergCli.

The document updates from version OL-8720-05 to version OL-8720-06 include adding a policy_call_type note.

The document updates from version OL-8720-06 to version OL-8720-07 include adding cross references between [Chapter 2, “Routing”](#) and [Chapter 3, “Local Exchange Routing Guide”](#).

The document updates from OL-8720-07 to version OL-8720-08 include adding [Chapter 4, “Electronic Number Mapping and Routing.”](#)

The document update from OL-8720-08 to OL8720-09 included adding the [“International WZ1 \(INTL_WZ1\) Preferred Carrier Routing”](#) section on page 2-97.

The document update from OL-8720-09 to OL-8720-10 included updating the AUTO_P_A_ID token description in the [“Softswitch Trunk Group Profile”](#) section on page 2-43.

Obtaining Documentation

Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation on the World Wide Web at this uniform resource locator (URL):

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

International Cisco websites can be accessed from this URL:

http://www.cisco.com/public/countries_languages.shtml

Documentation Compact Disk-Read Only Memory

Cisco documentation and additional literature are available in a Cisco Documentation compact disk-read only memory (CD-ROM) package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html

All users can order annual or quarterly subscriptions through the online Subscription Store:

<http://www.cisco.com/go/subscription>

Ordering Documentation

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products MarketPlace:

<http://www.cisco.com/en/US/partner/ordering/index.shtml>

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

You can submit comments electronically on Cisco.com. On the Cisco Documentation home page, click **Feedback** at the top of the page.

You can send your comments in e-mail to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance.

Cisco Technical Assistance Website

The Cisco TAC website (<http://www.cisco.com/tac>) provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year.

Accessing all the tools on the Cisco TAC website requires a Cisco.com user identification (ID) and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Opening a Technical Assistance Center Case

The online TAC Case Open Tool (<http://www.cisco.com/tac/caseopen>) is the fastest way to open severity 3 (S3) and severity 4 (S4) cases. (Your network is minimally impaired or you require product information). After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using these recommendations, your case will be assigned to a Cisco TAC engineer.

For severity 1 (S1) or severity 2 (S2) cases (your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to S1 and S2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

Technical Assistance Center Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Severity 1 (S1)—Your network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- *The Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the *Cisco Product Catalog* at this URL:
http://www.cisco.com/en/US/products/products_catalog_links_launch.html
- Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: Internetworking Terms and Acronyms Dictionary, Internetworking Technology Handbook, Internetworking Troubleshooting Guide, and the Internetworking Design Guide. For current Cisco Press titles and other information, go to Cisco Press online at this URL:
<http://www.ciscopress.com>
- Packet magazine is the Cisco quarterly publication that provides the latest networking trends, technology breakthroughs, and Cisco products and solutions to help industry professionals get the most from their networking investment. Included are networking deployment and troubleshooting tips, configuration examples, customer case studies, tutorials and training, certification information, and links to numerous in-depth online resources. You can access Packet magazine at this URL:
<http://www.cisco.com/go/packet>
- iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
http://www.cisco.com/en/US/about/ac123/ac147/about_cisco_the_internet_protocol_journal.html
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:
<http://www.cisco.com/en/US/learning/index.html>