



# CHAPTER 7

## Preparing for Dial Plan Provisioning

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### Introduction

This chapter describes the prerequisite tasks you need to perform before you can begin provisioning a dial plan. It also describes the tools you will use, and provides detailed information on the dial plan parameters and syntax conventions that you will need to be familiar with as you create your dial plan. This chapter includes the following sections:

- [Provisioning Prerequisites](#)
- [Provisioning Tools](#)
- [Creating a Dial Plan](#)



#### Note

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The Cisco BTS 10200 Softswitch can use two servers, an active and a standby, for maximum reliability. The dial plans discussed in this chapter apply to both the active and standby server. You need only create one dial plan and deploy that dial plan on both the active and standby server.

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The following sections describe recommended practices to assist you in provisioning dial plans for the BTS 10200.

### Provisioning Prerequisites

This section describes the tasks that must be completed and the information that you need before you start dial plan provisioning.

## Prerequisite Tasks

The following steps describe the tasks you should perform prior to using this dial plan guide.

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- Step 1** Plan and diagram your network configuration in detail.
- A detailed network diagram is essential when creating a dial plan. *Refer to the respective solution overview and provisioning documentation for detailed information about a particular solution.*
- Step 2** Set up the BTS 10200 and install all required software.
- Before you start the dial planning process, you should prepare the BTS 10200 as described in the following manuals:
- *Site Preparation and Network Communications Requirements*
  - *Network Site Survey for Software Installation Cisco BTS 10200 Softswitch*
  - BTS 10200 Building Environment and Power Site Survey
  - BTS 10200 Cabling, VLAN, and IRDP Procedures
  - BTS 10200 CD Jumpstart Procedure for Solaris 10 Based Duplex Systems
  - BTS 10200 Application Installation
  - BTS 10200 Provisioning Guide
  - BTS 10200 Command Line Interface Reference Guide
- Step 3** Complete all provisioning worksheets and site surveys, including filling in the names and IP addresses of all devices, attributes, and all other necessary information.
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## Prerequisite Information

Before you can complete the dial plan provisioning, you must collect the BTS 10200 dial plan provisioning information. [Table 7-1](#) provides space for you to enter the following information:

- **id**—dial plan identification
- **dest\_id**—destination identification
- **digit\_string**—dial plan digit string
- **max\_digits**—maximum number of digits
- **min\_digits**—minimum number of digits
- **noa**—nature of address
- **split\_npa**—split number plan area
- **del\_digits**—deleted digits
- **px\_digits**—prefix digits



## Extensible Provisioning and Operations Manager

The EPOM visual interface can be used to provision and deploy dial plans for the BTS 10200.

- For detailed instructions on using the CLI, refer to *the Cisco Extensible Provisioning and Operations Manager Getting Started Guide*.
- For more information on provisioning a dial plan with the EPOM, refer to [“Provisioning a Dial Plan with the Extensible Provisioning and Operations Manager” section on page 8-9](#)

## Creating a Dial Plan

The remaining sections in this chapter describe how to plan for dial plan provisioning and provide sample dial plans for the BTS 10200.

### Add a Dial Plan Profile

The Dial Plan Profile (dial-plan-profile) table creates dial-plan-profile-ids before they are assigned to subscribers or trunk groups. The dial-plan-profile-id links digit-string entries in the Dial Plan table within a dial plan. Different dial-plan-profile-ids are assigned to subscribers and trunk groups. A dial-plan-id must be created in this table before entries can be added to the Dial Plan table.

Command	Purpose
<code>add dial-plan-profile id=dp1; description=dialing plan profile id;</code>	Adds a dial plan profile

### Add a Dial Plan

A dial plan analyzes, screens, and routes a call based on dialed digits. The Dial Plan (dial-plan) table holds dial plan information for a specific type of call. It defines valid dialing patterns and determines call routing. All records that share a common dial-plan-profile-id are considered a dial plan.

Command	Purpose
<code>add dial-plan id=sub; digit-string=469-255; noa=national; dest-id=local_call;</code>	Adds a dial plan

## BTS 10200 Provisioning Sequence

The order in which you provision dial plan tables is important. The following list identifies the recommended sequence for BTS 10200 provisioning:

1. Add a media gateway profile.
2. Add a media gateway.
3. Add a termination.
4. Add a destination.
5. Add a dial plan profile.
6. Add a dial plan.
7. Add a subscriber profile.
8. Add a subscriber.
9. Generate a DN2Subscriber.
10. Control a media gateway.
11. Equip a subscriber termination
12. Control a subscriber termination.

For additional BTS 10200 provisioning information, refer to the *Cisco BTS 10200 Softswitch Provisioning Guide*.

