



Cisco BTS 10200 Softswitch Provisioning Prerequisites for Cisco SPA

Before installing and operating Cisco SPA, preprovision the Cisco BTS 10200 Softswitch with subscribers and have the phones working. You do not need to create all the components described in this chapter for each Cisco SPA addition; some components may have already been created by service providers.



Note

You must complete Cisco BTS Softswitch provisioning before creating accounts and assigning phones that will be managed by Cisco SPA.

This section contains the following topics:

- [About Cisco BTS 10200 Softswitch Provisioning for Cisco SPA, page 2-1](#)
- [Creating an Account on Cisco SPA, page 2-2](#)
- [Managing Phones on Cisco SPA, page 2-3](#)
- [Managing End User Phones in Cisco SPA, page 2-3](#)



Note

This chapter is not a comprehensive guide to provisioning the Cisco BTS 10200 Softswitch. Tasks that are listed here are fully described in the *Cisco BTS 10200 Softswitch Release 4.1 Provisioning Guide*.

About Cisco BTS 10200 Softswitch Provisioning for Cisco SPA



Note

The term *subscriber* in this section represents all user levels (account administrator, group administrator, and end user) that are below the service provider administrator.

Provision these components that directly or indirectly affect Cisco SPA operation:

- Add media gateway profiles—Required when new types of Customer Provided Equipment (CPE) are deployed.
- Add quality of service (QoS)—Required if new codec negotiation control is needed (not a typical operation).
- Add digit maps—Required if the subscriber is the first customer in a new geographical location.

- Add link-state advertisements (LSAs)—Required if the subscriber is the first customer in a new geographical location.
 - Add points of presence (POPs)—Required if the subscriber is the first customer in a new geographical location.
 - Add office codes—Required if the subscriber is allocated phone numbers that are beyond the current range assigned.
 - Add local access and transport areas (LATA)—Required if the subscriber is the first customer in a new geographical location.
 - Add LATA maps—Required if the subscriber is the first customer in a new geographical location.
 - Add features—Required for new installations or upgrades of the Cisco BTS 10200 Softswitch or when new features are offered to subscribers (not a typical operation).
 - Add services—Required if a new common package of features is to be offered to the subscriber.
 - Add policies—Required if the subscriber has specific and unique routing needs.
 - Add dial plans—Required if the subscriber is the first customer in a new geographical location.
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- Add subscriber profiles—May be required if a new type of subscriber is created.
 - Add Centrex groups—Required when a new Centrex group is requested.
 - Add custom dial plan profiles—Required for a new subscriber.
 - Add custom dial plans—Required for a new subscriber.
 - Add Call Park subscriber groups—Required for a new Centrex group.
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- Add media gateways—Required when new customer premises equipment (CPE) is deployed.
 - Add terminations—Required when new CPE is deployed.
 - Add subscribers—Required when new phone numbers are assigned.
 - Add subscriber service profiles—Required when new phone numbers are allocated.
 - Add multiline hunt (MLH) groups—Required when a new MLH group is requested.

**Note**

In order for Cisco SPA to make calls, all media gateways, terminations, and subscribers added to the Cisco BTS EMS server must be in service and operational.

Creating an Account on Cisco SPA

This section lists the steps that the service provider must perform to add an account to Cisco SPA. For details on how to complete each step, see the *Cisco BTS 10200 Softswitch Release 4.1 Provisioning Guide*.

**Tip**

When you create Centrex or multiline hunt (MLH) groups on the Cisco BTS 10200 Softswitch, make sure that you enter a value in the MainSubscriberId field. This field is optional for operating the Cisco BTS 10200 Softswitch, but is mandatory when operating Cisco SPA.

Step 1 Create the required subscribers on the Cisco BTS 10200 Softswitch.

- Step 2** Activate the media gateways, terminations, and subscribers on the Cisco BTS 10200 Softswitch.
- Step 3** Add subscriber service profiles to the Cisco BTS 10200 Softswitch for each requested subscriber. This establishes a default setting for new subscribers.
- Step 4** From the Add New Account window in Cisco SPA, add an account. This establishes that the account belongs to Cisco SPA.
- Step 5** Add Centrex or MLH groups to the Cisco BTS 10200 Softswitch (if required).
- Step 6** Supply the account administrator with the following:
- Account administrator ID
 - Password

**Note**

When the account is first created, all the phones are assigned to the account administrator who can then assign phones to one or more group administrators or end users.

Managing Phones on Cisco SPA

This section lists the steps that the account administrator performs to manage phones on Cisco SPA. For details on how to complete each step, see the *Cisco BTS 10200 Softswitch Release 4.1 Provisioning Guide*.

- Step 1** From the Add Capability Set in Cisco SPA, add a new capability set for phones on Cisco SPA.

**Note**

Capability sets are optional; they restrict the features (for a specific phone) that can be viewed or edited.

- Step 2** Assign the capability set to phones on Cisco SPA.
- Step 3** (Optional) Create class of service (CoS) restrictions to apply to phones on the Cisco BTS 10200 Softswitch.
- Step 4** Assign CoS restrictions to the phone on the Cisco BTS 10200 Softswitch.
- Step 5** Activate or deactivate applicable Cisco BTS 10200 Softswitch features for the phone.
- Step 6** Add a new user by navigating Cisco SPA windows.
- Step 7** Inform the user that web-based account management is now available.

Managing End User Phones in Cisco SPA

This section lists the action that the end user performs to manage phones in Cisco SPA.

- Change applicable Cisco BTS 10200 Softswitch feature settings for your phone.

