



# Configuring Cisco BTS 10200 Components

---

This chapter contains the following topics:

- [Configuring a Cisco BTS 10200 EMS Server, page 4-1](#)
- [Adding a Component to the Cisco BTS 10200 Configuration, page 4-9](#)
- [Editing a Component in the Cisco BTS 10200 Configuration, page 4-14](#)
- [Deleting a Component from the Cisco BTS 10200 Configuration, page 4-15](#)
- [Bulk Command Provisioning, page 4-16](#)
- [Checking the Status and Controlling Components, page 4-19](#)

## Configuring a Cisco BTS 10200 EMS Server

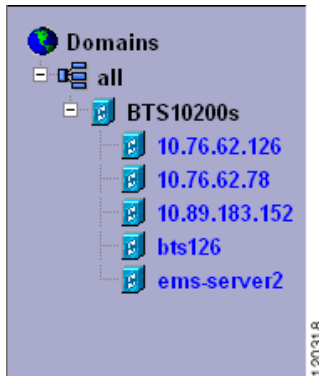
Use this procedure after you have added a new Cisco BTS 10200 EMS server to the Cisco EPOM inventory. (See the [“Adding a Cisco BTS 10200 EMS Server” section on page 3-13.](#))

---

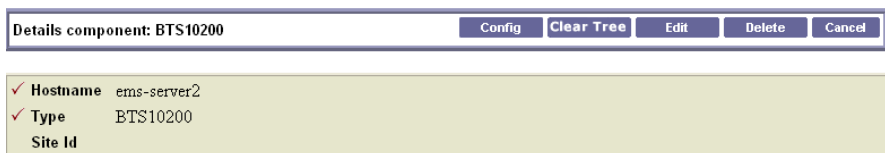
**Step 1** In the navigation pane, expand the domain tree:

- a. Click **all**.
- b. Click **BTS 10200s**.

You see the Cisco BTS 10200 EMS servers currently in the inventory. In this example, there are two servers: **ems server** and **ems server 3**.



- Step 2** Click the Cisco BTS 10200 EMS server that you want to configure. The Details window opens, as shown in this example:



- Step 3** Click **Config**. The Component Status window opens (see Step 4).  
The navigation pane shows the Configuration tree, and the content area shows the status of the selected Cisco BTS 10200 EMS server.



**Note** The first access of the Cisco BTS 10200 EMS server component status may take a few seconds.

- Step 4** To show or change the Cisco BTS 10200 EMS server configuration, click objects in the Configuration tree. See the [“Adding a Component to the Cisco BTS 10200 Configuration”](#) section on page 4-9.

EPOM Extensible Provisioning and Operations Manager

Default Administrator / (Administrator)

BTS10200 10.89.183.152

Reports Config Edit

10.89.183.152

AIN Centrex Feature/Services H323 ISDN MGW & Terminations MultiLine Hunt Group Office Tables POTS Routing Subscriber Tandem Trunk Groups Billing SNMP Scheduler Security Provisioning Flow

Status component: element\_manager OK Control Cancel

Clear Form

id 1

Results

APPLICATION INSTANCE -> Element Manager [EM1]  
 PRIMARY STATUS -> ACTIVE\_NORMAL  
 SECONDARY STATUS -> FAULTY

EMS MySQL Status is ... -> Daemon is running!  
 ORACLE Status is... -> Daemon is running!

120320

## About Cisco EPOM Templates

Cisco EPOM templates allow you to compose and save templates that can be used later for creating Cisco

BTS 10200 Softswitch objects. With a template you can add several similar objects to the Cisco EPOM

inventory without having to repeatedly select configuration items for each individual device.

Templates are stored on the Cisco EPOM server by Cisco BTS noun and template name.

Templates can be created, viewed, and applied by all levels of Cisco EPOM users. (See “[Creating a Template from an Existing Template](#)” section on page 4-5)

Administrators can edit and delete all existing templates, whereas Users can edit and delete only the

templates that they created. (See the “Editing a Cisco EPOM Template” section on page 4-6 and the “Deleting a Cisco EPOM Template” section on page 4-8.)

One template for each device type can be identified as the default template. When you add a device,

the default template for this type of device is loaded automatically. If necessary, you can still select

a different template for this device. (See the “Designating a Default Cisco EPOM Template” section on page 4-7.)

Templates are applied only when creating an object (during an add operation). (See the

“Applying a Cisco EPOM Template” section on page 4-11.)

## Creating a New Cisco EPOM Template

The ID field is unique to each device and cannot be repeated among devices. Assign a unique ID for the device before adding it to the Cisco EPOM inventory. You can either specify a value in the ID field to be used as a prefix, or leave a blank field that forces the user to specify a valid, unique ID.

- 
- Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**
  - Step 2** Click **Config**. The Cisco BTS 10200 Component Status view opens.
  - Step 3** In the Configuration tree, select **Office Tables > call\_agent**. The Cisco BTS 10200 Component view opens showing a list of call agents.
  - Step 4** Select a call agent and click **Details**.

Details component: cust\_grp
Cancel

[Check All](#)
[Clear All](#)
[Details](#)
[Edit](#)
[Delete](#)

 Template: new template name
Save

	<input checked="" type="checkbox"/>
<b>id</b>	cust-1212
<b>ani_wb_list</b>	NONE
<b>collect_pin</b>	Y
<b>dnis_pattern</b>	
<b>ii_restrict_list</b>	WHITE
<b>num_pin_digits</b>	
<b>overflow_carrier</b>	
<b>overflow_pots</b>	
<b>route_guide_id</b>	<a href="#">rt_gd</a>

120328

- Step 5** Enter or change information in the fields.
- Step 6** Enter a name for the template and click **Save**.  
The created template contains field information from the Details Component screen

## Creating a Template from an Existing Template

The ID field is unique to each device and cannot be repeated among devices. Assign a unique ID for the device before adding it to the Cisco EPOM inventory. You can either specify a value in the ID field to be used as a prefix, or leave a blank field that forces the user to specify a valid, unique ID.

- 
- Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**.
- Step 2** Click **Config**. The Cisco BTS 10200 Component Status view opens.
- Step 3** In the Configuration tree, select **Template Manager > Templates**. A list of templates is displayed.
- Step 4** Select a template and click **Details**.

Template Details[noun, templateName]: [cust\_grp, NewT] Cancel

Template: Save new template name

ani_wb_list	NONE
collect_pin	Y
id	cust-1212
ii_restrict_list	WHITE
route_guide_id	rt_gd

120329

- Step 5** Enter or change information in the fields
- Step 6** Enter a new template name and click **Save**.  
The new template is stored under the specified name

## Editing a Cisco EPOM Template

- Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**.
- Step 2** Click **Config**. The Cisco BTS 10200 Component Status view opens.
- Step 3** In the Configuration tree, select **Template Manager > Templates**.  
A list of templates is displayed.

Templates Cancel

[Check All](#) [Clear All](#) [Delete Selected](#)

	Noun	Template Name	Default	Commands
<input type="checkbox"/>	cust_grp	NewT	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	cust_grp	call_agent	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>

120330

- Step 4** Select a noun and template and click **Edit**.  
The Edit Template screen is displayed

120331

- Step 5** If necessary, make changes to the information in the fields.
- Step 6** Click **OK** to save changes.

## Designating a Default Cisco EPOM Template

- Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**.
- Step 2** Click **Config**. The Cisco BTS 10200 Component Status view opens.
- Step 3** In the Configuration tree, select **Template Manager > Templates**. A list of templates is displayed (see the “Editing a Cisco EPOM Template” section on page 4-6).
- Step 4** Select a noun and template and click **Edit**. The Edit Template screen is displayed

Edit Template[noun, templateName]: [cust\_grp, call\_agent] OK Cancel

[Clear Form](#)  Default template

id: cust-1212  
 ani\_wb\_list: NONE  
 collect\_pin: Y  
 dnis\_pattern:  
 ii\_restrict\_list: WHITE  
 num\_pin\_digits:  
 overflow\_carrier:  
 overflow\_pots:  
 route\_guide\_id: rt\_gd

120331

- Step 5** Select the Default template checkbox.
- Step 6** Click **OK** to save changes.

## Deleting a Cisco EPOM Template

- Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**.
- Step 2** Click **Config**.  
The Cisco BTS 10200 Component Status view opens.
- Step 3** In the Configuration tree, select **Template Manager > Templates**. A list of templates is displayed.

Templates Cancel

[Check All](#) [Clear All](#) [Delete Selected](#)

Noun	Template Name	Default	Commands
<input type="checkbox"/>	cust_grp	NewT	No <a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input checked="" type="checkbox"/>	cust_grp	call_agent	No <a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>

120332

- Step 4** Select a noun and template and click **Delete**. After a verification message, the template is deleted.

# Adding a Component to the Cisco BTS 10200 Configuration

**Tip**

---

Make sure that you have the configuration information for the component that you want to add to the Cisco EPOM inventory.

---

Add components to the Cisco EPOM inventory to build a managed network. The device information includes static and dynamic selections to other parts of the configuration. Follow this example to add a dial plan.

- 
- Step 1** From the Domain window, select the *domain* > **BTS10200s** > the *Cisco BTS 10200 EMS server*.
- Step 2** Click **Config**.  
The Cisco BTS 10200 Component Status window opens.
- Step 3** In the Configuration tree, choose **Office Tables** > **dial\_plan**.

## Adding a Component to the Cisco BTS 10200 Configuration

Success: Entries 1-101 of 2071 returned.

Component: dial\_plan Add Search

[Check All](#) [Clear All](#) [Details](#) [Edit](#) [Delete](#)

<input type="checkbox"/>	id ▲	dest_id	digit_string	Rows: 1 - 100 of 2071 ➔
<input type="checkbox"/>	<a href="#">Dial1</a>	<a href="#">dst1</a>	222	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271201	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271202	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271203	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271204	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271205	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271206	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">RLGHNCDS1</a>	306291	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306301	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306362	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306391	<a href="#">Details</a> <a href="#">Edit</a> <a href="#">Delete</a>

The Cisco BTS 10200 Component window opens showing a list of dial plans. If this is the first dial plan (or device of this type) that you are adding, the list is empty.

**Step 4** Click **Add**.

The Cisco BTS 10200 Component Add window opens.

**Step 5** Define the device. Required fields are identified with a red checkmark.

**Step 6** Click **OK** or **Apply**.

- When you click **OK**, the component is added and the list of components in the Component:*name* window appears.
- When you click **Apply**, the component is added, but you remain in the Add component window for further tasks.

You return to the Cisco BTS 10200 Component window. The new dial plan is added to the list.

To edit a single component, see the [“Editing a Component in the Cisco BTS 10200 Configuration”](#) section on page 4-14; to delete a single component, see the [“Deleting a Component from the Cisco BTS 10200 Configuration”](#) section on page 4-15.

To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning”](#) section on page 4-16.

## Applying a Cisco EPOM Template

**Step 1** In a Domain view, select the **desired domain > BTS10200s > the desired Cisco BTS EMS server**.

**Step 2** Click **Config**. The Cisco BTS 10200 Component Status view opens

## Applying a Cisco EPOM Template

- Step 3** In the Configuration tree, select **Office Tables > dial\_plan**. The Cisco BTS 10200 Component view opens showing a list of dial plans. If this is the first dial plan (or device of this type) that you are adding, the list is empty

Success: Entries 1-101 of 2071 returned.

Component: dial\_plan Add Search

[Check All](#) [Clear All](#) [Details](#) [Edit](#) [Delete](#)

<input type="checkbox"/>	id ▲	dest_id	digit_string	Rows: 1 - 100 of 2071 ➔
<input type="checkbox"/>	<a href="#">Dial1</a>	<a href="#">dst1</a>	222	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271201	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271202	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271203	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271204	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271205	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	271206	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">RLGHNCDS1</a>	306291	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306301	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306362	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">Incoming</a>	<a href="#">local-sub</a>	306391	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>

- Step 4** Click **Add**. The Cisco BTS 10200 Component Add view opens.

**Step 5** Select a template from the list.

**Step 6** Click **Load**.

Click **OK** or **Apply**.

When you click **OK**, the component is added and the list of components in the Component name window is displayed.

When you click **Apply**, the component is added, but you remain in the Add component window for further operations. You return to the Cisco BTS 10200 Component view. The new dial plan is added to the list.



**Note**

The ID field is unique to each device and cannot be repeated among devices. Assign a unique ID for the device before adding it to the Cisco EPOM inventory. You can either specify a value in the ID field to be used as a prefix, or leave a blank field that forces the user to specify a valid, unique ID.

To create a new template from this screen, make changes to the existing component details and save the resulting dial plan as a template by entering a template name and clicking **Save**.

# Editing a Component in the Cisco BTS 10200 Configuration

- Step 1** From the Domain window, choose the *domain* > **BTS10200s** > the *Cisco BTS 10200 EMS server*.
- Step 2** Click **Config**.  
The Cisco BTS 10200 Component Status window opens.
- Step 3** In the Configuration tree, choose **Office Tables** > **dial\_plan**.  
The Cisco BTS 10200 Component window shows a list of currently configured dial plans.
- Step 4** Select the dial plan that you wish to edit.
- Step 5** Click **Edit** in the row of the dial plan that you wish to edit.  
The Change component window appears.

Change component: dial_plan		OK	Cancel
<a href="#">Clear Form</a>			
	<input checked="" type="checkbox"/>		
✓ id	Dial1		
✓ digit_string	222		
✓ noa	NATIONAL		
del_digits	0		
dest_id	dst1		
max_digits	10		
min_digits	10		
px_digits			
split_npa	NONE		

120323



**Note** The first (blank) row with the checked box indicates that the component identified in the window title was selected for displaying details, editing, or deletion.

- Step 6** Make the required changes to the attribute fields.

**Step 7** Click **OK**.

You return to the Cisco BTS 10200 Component window. The edited dial plan appears in the list.

To add a single component, see the [“Adding a Component to the Cisco BTS 10200 Configuration” section on page 4-9](#); to delete a single component, see the [“Deleting a Component from the Cisco BTS 10200 Configuration” section on page 4-15](#).

To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning” section on page 4-16](#).

---

## Deleting a Component from the Cisco BTS 10200 Configuration

**Step 1** from the Domain window, choose the *domain > BTS10200s > the Cisco BTS 10200 EMS server*.

**Step 2** Click **Config**.

The Cisco BTS 10200 Component Status window opens.

**Step 3** In the Configuration tree, choose **Office Tables > dial\_plan**.

The Cisco BTS 10200 Component window shows a list of currently configured dial plans.

**Step 4** In the Component:*name* window, select one or more dial plans to delete.

**Step 5** Click **Delete**.

The Delete component window with the requested deletion appears.

Delete component: dial_plan	
<a href="#">Clear Form</a>	
<input checked="" type="checkbox"/>	
✓ id	Dial1
✓ digit_string	222
✓ noa	NATIONAL



#### Note

The first (blank) row with the checked box indicates that the component identified in the banner title was selected for displaying details, editing, or deletion.

#### Step 6 Click OK.

To add a single component, see the [“Adding a Component to the Cisco BTS 10200 Configuration”](#) section on page 4-9; to edit a single component, see the [“Editing a Component in the Cisco BTS 10200 Configuration”](#) section on page 4-14.

To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning”](#) section on page 4-16.

## Bulk Command Provisioning

Cisco EPOM allows you to perform add, delete, and edit commands on multiple components with a single operation. You can only perform bulk provisioning commands on the same type of devices. For instance, if a group of subscribers use the same media gateway and subscriber profile, you can add or edit these subscribers by using a single command.

## Adding Multiple Components

#### Step 1 In the ems-server window left pane, click a component.

The Component:*name* window appears.

**Step 2** Click **Add**.


The Add component window appears.

**Step 3** Select the **Expand range expression** check box.

If you fail to select this check box, you get an error message when you enter a range expression.



**Tip**

For information on acceptable range expressions, move your cursor over the  symbol next to the Expand range expression field.

**Step 4** In the **id** field, enter a range expression in square brackets [ ].

For example, to add a group of 10 dial plans with the **id** prefix **dp001\_new**, enter **dp001\_new[01-10]**. Doing so adds dial plans **dp001\_new01**, **dp001\_new02**, through **dp001\_new10**.

**Step 5** Enter information in the remaining attribute fields.

**Step 6** Click **OK** or **Apply**.

- When you click **OK**, the component is added and the list of components in the **Component:name** window appears.
- When you click **Apply**, the component is added, but you remain in the Add component window for further operations.

You have now added multiple components to the Cisco BTS 10200 EMS network.

## Editing Multiple Components

- Step 1** In the `ems-server` window left pane, click a component.  
The Component:*name* window appears.
- Step 2** In the Component:*name* window, select one or more components that you want to edit.
- Step 3** Click **Edit**.  
The Change component window appears.

OK Cancel

Change component: dial\_plan

[Clear Form](#)

	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
✓ id	Dial1	Incoming	
✓ digit_string	222	271201	
✓ noa	NATIONAL	NATIONAL	
del_digits	0	0	
dest_id	dst1	local-sub	
max_digits	10	10	
min_digits	10	10	
pfx_digits			
split_npa	NONE	NONE	

120326



**Note** The first (blank) row with the checked box indicates that the component in the window title was selected for displaying details, editing, or deletion.

- Step 4** Make the required changes to the attribute fields.
- Step 5** Click **OK**.  
You have now edited multiple components in the Cisco BTS 10200 EMS network.

## Deleting Multiple Components

- Step 1** In the `ems-server` window left pane, click a component.  
The Component:*name* window appears.
- Step 2** In the Component:*name* window, select one or more components that you want to delete.
- Step 3** Click **Delete**.  
The Delete component window appears with the requested deletions.

Delete component: dial\_plan OK Cancel

[Clear Form](#)

	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
✓ id	Dial1 <input type="text"/>	Incoming <input type="text"/>	Incoming <input type="text"/>
✓ digit_string	222 <input type="text"/>	271201 <input type="text"/>	271202 <input type="text"/>
✓ noa	NATIONAL <input type="text"/>	NATIONAL <input type="text"/>	NATIONAL <input type="text"/>

120327



**Note** The first (blank) row with the checked box indicates that this component was selected for displaying details, editing, or deletion.

- Step 4** Click **OK**.  
You have now deleted multiple components in the Cisco BTS 10200 EMS network.

## Checking the Status and Controlling Components

You can check the status of a component and you can control its status. For example, you can change status of a Cisco BTS 10200 EMS server from Normal to Forced Active Standby.



**Note** Exercise care in changing component status.

**Checking the Status and Controlling Components**

- 
- Step 1** From the Domain window, navigate to the desired Cisco BTS 10200 EMS server.
  - Step 2** Click **Config**. The Cisco BTS 10200 Component Status window opens. The Configuration tree appears in the left navigation pane.
  - Step 3** Navigate to the desired device and click to select it.
  - Step 4** In the Status window, click **Control**.
  - Step 5** From the Component Control window, verify that you have selected the correct component, then select a **target\_state**.
  - Step 6** Select the desired state. Options depend on the type of component that you selected.
  - Step 7** Click **OK**.
-