



## Configuring Cisco BTS 10200 Components

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### Configuring a Cisco BTS 10200 EMS Server

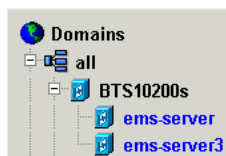
Use this procedure after you have added a new Cisco BTS 10200 EMS server to the Cisco EPOM inventory. (See the [“Adding a Cisco BTS 10200 EMS Server”](#) section on page 3-9.)

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

- Click **all**.
- 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:

Details component: BTS10200

Reports Config Edit Delete Cancel

✓ Hostname ems-server2  
 ✓ Type BTS10200  
 Site Id rtpvte2

103899

- 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 4-7.

EPOM Extensible Provisioning and Operations Manager

Help Logout

Default Administrator / (Administrator)

BTS10200 : ems-server2

Reports Config Edit Delete

ems-server2

- AIN
- Centrex
- Feature/Services
- H323
- ISDN
- MGW & Terminations
- MultiLine Hunt Group
- Office Tables
- Packet Cable
- POTS
- SIP
- SS7
- Routing
- Subscriber
- Tandem
- Trunk Groups
- Billing
- SNMP
- Scheduler
- Security
- Provisioning Flow
- Template Manager

Status component: element\_manager

OK Control Cancel

[Clear Form](#)

✓ id EM01

**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!

# About Cisco EPOM Templates

Cisco EPOM templates allow you to create and save templates that can be used later for creating Cisco BTS 10200 Softswitch objects (that represent Cisco BTS 10200 Softswitch components). With a template you can add several similar objects to the Cisco BTS 10200 EMS server without having to repeatedly select configuration items for each individual device.

- Templates are stored on the Cisco EPOM server by Cisco BTS 10200 Softswitch noun and template name.
- Templates can be created, viewed, and applied by all levels of Cisco EPOM users. (See the [“Creating a Template from an Existing Template” section on page 4-4.](#))
- Administrators can edit and delete all existing templates, whereas other users can edit and delete only the templates that they created. (See the [“Editing a Cisco EPOM Template” section on page 4-5](#) and the [“Deleting a Cisco EPOM Template” section on page 4-7.](#))
- You can identify one template for each component type as the default template. When you add a device, the default template for this type of device is loaded automatically, however, you can also select a different template for this device. (See the [“Designating a Default Cisco EPOM Template” section on page 4-6.](#))
- Templates are applied only when creating an object (during an “add” operation). (See the [“Applying a Cisco EPOM Template” section on page 4-9.](#))

## Creating a New Cisco EPOM Template

**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 BTS 10200 EMS.

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** 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** > **call\_agent**.  
The Cisco BTS 10200 Component window opens showing a list of call agents.
- Step 4** Select a call agent and click **Details**.

Details component: dial\_plan

Cancel

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

Template:

Save

new template name

	<input checked="" type="checkbox"/>
id	zdpp01
del_digits	
dest_id	zdst01
digit_string	223456
max_digits	10
min_digits	10
noa	NATIONAL
pfx_digits	
reqd_digits	10
split_npa	NONE



**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 5**

Enter a name for the template and click **Save**.

The template that you created contains field information from the Details Component window.

## Creating a Template from an Existing Template



**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 BTS 10200 EMS server.

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**

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**

From the Configuration tree, choose **Template Manager** > **Templates**.

A list of templates appears.

**Step 4**

Select a template and click **Details**.

Template Details[noun, templateName]: [call\_agent, call-ag-temp2]
Cancel

Template:
Save
new template name

cli	
ems_primary_tsap	
ems_secondary_tsap	
id	CA123
mgw_monitoring_enabled	Y
tsap_addr_sidea	4.3.2.1

- Step 5** Enter a new template name and click **Save**.  
The new template is stored under the specified name.

## Editing a Cisco EPOM Template

- 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 **Template Manager** > **Templates**.  
A list of templates appears.

Templates				Cancel
<a href="#">Check All</a> <a href="#">Clear All</a> <a href="#">Delete Selected</a>				
Noun	Template Name	Default	Commands	
<input type="checkbox"/> call_agent	call_ag_temp1	Yes	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	103913
<input type="checkbox"/> call_agent	call-ag-temp2	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp2	Yes	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp3	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp_a	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	

- Step 4** Select a Noun and Template Name and click **Edit**.  
The Edit Template window appears.

Step 5 If necessary, make changes to the information in the fields.

Step 6 To save the changes, click **OK**.

## Designating a Default Cisco EPOM Template

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 **Template Manager** > **Templates**.

A list of templates appears (see the “[Editing a Cisco EPOM Template](#)” section on page 4-5).

Step 4 Select a Noun and Template Name and click **Edit**.

The Edit Template window appears.

Step 5 Select the Default template checkbox.

**Step 6** To save the changes, click **OK**.

## Deleting a Cisco EPOM Template

**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 **Template Manager** > **Templates**.

A list of templates appears.

Templates				Cancel
<a href="#">Check All</a> <a href="#">Clear All</a> <a href="#">Delete Selected</a>				
Noun	Template Name	Default	Commands	
<input type="checkbox"/> call_agent	call_ag_temp1	Yes	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	1039/13
<input type="checkbox"/> call_agent	call-ag-temp2	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp2	Yes	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp3	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	
<input type="checkbox"/> mgw_profile	mgw_prof_temp_a	No	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>	

**Step 4** Select a Noun and Template Name 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**.

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.

 Success: Entries 1-9 of 9 returned.

**Component: dial\_plan**

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

	id ▲	dest_id	digit_string	reqd_digits	Rows: 1 - 9 of 9
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">dest-tg6</a>	2022341111	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	214223	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">ss7dest2</a>	301234	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	408526	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	512378	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	703484	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	717484	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	919423	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	972213	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>

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**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 4-12](#); to delete a single component, see the [“Deleting a Component from the Cisco BTS 10200 Configuration” section on page 4-13](#).

To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning” section on page 4-13](#).

## Applying a Cisco EPOM Template


**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**.

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.

 Success: Entries 1-9 of 9 returned.

**Component: dial\_plan**

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

	id ▲	dest_id	digit_string	reqd_digits	Rows: 1 - 9 of 9
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">dest-tg6</a>	2022341111	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	214223	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">ss7dest2</a>	301234	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	408526	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	512378	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	703484	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	717484	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	919423	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>
<input type="checkbox"/>	<a href="#">dp1</a>	<a href="#">local_call</a>	972213	10	<a href="#">[Details]</a> <a href="#">[Edit]</a> <a href="#">[Delete]</a>

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

The Cisco BTS 10200 Component Add window opens.

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

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

**Step 7** 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.



**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 BTS 10200 EMS.

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.



**Note**

To create a new template from this window, 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

Clear Form

☐ Expand range expression ?

	<input checked="" type="checkbox"/>
✓ id	dp1 ?
✓ digit_string	214223 ?
✓ noa	NATIONAL ?
del_digits	?
dest_id	local_call ?
max_digits	10 ?
min_digits	1 ?
pfx_digits	?
reqd_digits	10 ?
split_npa	NONE ?

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**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 4-7](#); to delete a single component, see the [“Deleting a Component from the Cisco BTS 10200 Configuration” section on page 4-13](#).

To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning” section on page 4-13](#).

# 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.

<input checked="" type="checkbox"/>		
✓ id	dp1	?
✓ digit_string	214223	?
✓ 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 4-7](#); to edit a single component, see the [“Editing a Component in the Cisco BTS 10200 Configuration” section on page 4-12](#).  
To add, edit, or delete multiple components with a single operation, see the [“Bulk Command Provisioning” section on page 4-13](#).

## 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.

Change component: dial\_plan
OK
Cancel

[Clear Form](#)
☐ Expand range expression

	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
✓ id	dp1	dp1
✓ digit_string	2022341111	214223
✓ noa	NATIONAL	NATIONAL
del_digits		
dest_id	desttg6	local_call
max_digits	10	10
min_digits	1	1
pfx_digits		
reqd_digits	10	10
split_npa	NONE	NONE



**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](#)
☐ Expand range expression ?

	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
✓ <b>id</b>	dp1 ?	dp1 ?	dp1 ?
✓ <b>digit_string</b>	2022341111 ?	214223 ?	301234 ?
✓ <b>noa</b>	NATIONAL I ?	NATIONAL ?	NATIONAL ?



**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.

**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**.