



Provisioning Dial Plans

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Introduction

This chapter provides detailed instructions for configuring Cisco BTS 10200 Softswitch configuration dial plans using the Command Line Interface (CLI) and the Cisco Extensible Provisioning and Operations Manager (EPOM). The following subjects are discussed:

- Provisioning a Dial Plan with the Command Line Interface
- Provisioning a Dial Plan with the Extensible Provisioning and Operations Manager

Provisioning a Dial Plan with the Command Line Interface

This section provides the detailed instructions for managing dial plans in the Cisco BTS 10200 Softswitch configuration using the CLI. The CLI also allows you to perform show, add, change, and delete dial plans. The following subjects are discussed:

- Dial Plan
- Dial Plan Profile
- International Dial Plan
- International Dial Plan Profile
- Custom Dial Plan
- Custom Dial Plan Profile

Dial Plan

Dial plans analyze, screen, and route calls 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. For additional Dial Plan table information, refer to the "Dial Plan" section on page 1-45.

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. For additional Dial Plan Profile information, refer to the "Dial Plan Profile" section on page 1-37.

International Dial Plan

The International Dial Plan (intl-dial-plan) table holds international dial plan information for calls to regions outside the North American Numbering Plan (NANP). It contains the country code, minimum and maximum digits, the country name, and the route-grp-id. For additional International Dial Plan table information, refer to the "International Dial Plan" section on page 1-50.

International Dial Plan Profile

The International Dial Plan Profile (intl-dial-plan-profile) table is used to create unique IDs for international dial plans. This ID must be created before provisioning the International Dial Plan table. For additional International Dial Plan Profile table information, refer to the "International Dial Plan Profile" section on page 1-42.

Custom Dial Plan

The Custom Dial Plan (custom-dial-plan) table translates Centrex calls. If the result of a custom dial plan (CDP) is a POTS access code, call processing uses the POTS Dial Plan table to translate the digits dialed after the POTS access code. Speed call codes are provisioned in this table as nod=speed-call and fname=SC1D (or SC2D). Screening does not apply to speed dialing.

Table Name: CUSTOM_DIAL_PLAN

Table Containment Area: EMS, FSPTC



Usage Guidelines	Primary Key Token(s): ID, DIGIT_STRING			
	Foreign Key Token(s):	id, fname		
Related Commands	AUTO_REFRESH	Description: Specifies whether to display cached data on the screen. Valid only for the show command.		
		CHAR(1): Y/N (Default = Y).		
		YQueries the database for the most current data.		
		NQueries the database for the most current data only if the cached data is unavailable.		
		Valid for Command: show		
		Default Value: Y		
		Possible Value: Y, N		
		Parser: BooleanParser		
	CAT_STRING	Valid for Command: add, change, audit, sync, show		
		Possible Value: [1_16]		
		Parser: TextParser		
	DIGIT_STRING	Description: Primary key. NDC-EC-XXXX to be assigned to a region. VARCHAR(14): 1-14 numeric characters.		
		Valid for Command: add, change, show, delete, audit, sync		
		Mandatory: add, change, delete		
		Possible Value: [1_7]		
		Parser: TextParser		
	DISPLAY	Description: Specifies what token information to display on the screen. Valid only for the show command.		
		VARCHAR(1024): 1-1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.		
		Valid for Command: show		
		Possible Value: [1_1024]		
		Parser: TextParser		

FNAME	Description: Primary key. Foreign key: Feature table. Type of screening feature.		
	VARCHAR(16): 1-16 ASCII characters. Permitted values are:		
	SCRSelective call rejection		
	SCFSelective call forwarding		
	SCASelective call acceptance		
	DRCWDistinctive ringing		
	NSANo Solicitation		
	Valid for Command: add, change, audit, sync, show		
	Possible Value: [1_16]		
	Parser: TextNoCaseParser		
ID	Description: Network ID of a specific CA or FS. Valid for the download to Standby CA or FS command. VARCHAR(8):1-8 ASCII characters consisting of any valid, provisioned CA, FSPTC, or FSAIN ID.		
	Valid for Command: add, change, show, delete, audit, sync		
	Mandatory: add, change, delete		
	Possible Value: [1_16]		
	Parser: TextParser		
LIMIT	Description: Specifies the number of rows to display on the screen. Valid only for the show command.		
	INTEGER: 1-100000000 (Default = 100000000).		
	Valid for Command: show		
	Default Value: 100000000		
	Possible Value: [1_100000000]		
	Parser: DecimalParser		
MASTER	Valid for Command: sync		
	Mandatory: sync		
	Possible Value: [1_10]		
	Parser: TextParser		
NOD	Description: Primary key. Foreign key: Nature of Dial table. Nature of dial. VARCHAR(16): 1-16 ASCII characters.		
	Valid for Command: add, change, audit, sync, show		
	Mandatory: add		
	Possible Value: VSC, ATTENDANT_ACCESS, POTS_ACCESS, EXTENSION, SPEED_CALL		
	Parser: TextParser		

ORDER	Description: Specifies whether to display data on the screen in a sorted order. Valid only for the show command.	
	VARCHAR(51200): 1-51200 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.	
	Valid for Command: show	
	Possible Value: [1_1024]	
	Parser: TextParser	
PLATFORM_STATE	Description: State of an active or standby system shared memory database; use to audit an active or standby system shared memory database. Valid for the audit database and audit table name commands.	
	VARCHAR(7): 1-7 ASCII characters. Permitted values are:	
	ACTIVE (Default)System is active (currently running).	
	STANDBYSystem is in standby mode.	
	EMSAudits the active EMS to the standby EMS.	
	Valid for Command: sync, audit	
	Default Value: ACTIVE	
	Possible Value: ACTIVE, STANDBY	
	Parser: TextParser	
START_ROW	Description: Specifies to begin displaying data on the screen at a specific row. Valid only for the show command.	
	INTEGER: 1-100000000 (Default = 1).	
	Valid for Command: show	
	Default Value: 1	
	Possible Value: [1_10000000]	
	Parser: DecimalParser	
TARGET	Description: Specifies the network element to receive the request.	
	VARCHAR(5): 1-5 ASCII characters. Permitted values are:	
	CANetwork identifier of a Call Agent.	
	FSPTC (POTS/Tandem/Centrex Feature Server)Network identifier of a specific Feature Server.	
	FSAIN (AIN Feature Server)Network identifier of AIN Feature Servers.	
	Valid for Command: sync	
	Mandatory: sync	
	Possible Value: [1_10]	
	Parser: TextParser	

Custom Dial Plan Profile

	The Custom Dial Plan Profile (custom-dial-plan-profile) table defines custom dial plan IDs (CDP IDs) assigned to Centrex groups. Table Name: CUSTOM_DIAL_PLAN_PROFILE				
	Table Containment Area: EMS				
Command Types	add, change, delete, he	slp, show			
Examples	- show custom-dial-plan-profile id=cisco plan; add custom-dial-plan-profile id=cisco plan; change custom-dial-plan-profile id=cisco plan; description=main dialing plan for cisco; delete custom-dial-plan-profile id=cisco plan;				
Usage Guidelines	Primary Key Token(s): ID				
	Delete Rules: ID does not exist in any custom-dial-plan::id				
Syntax Description	AUTO_REFRESH	Description: Specifies whether to display cached data on the screen. Valid only for the show command.			
		CHAR(1): Y/N (Default = Y).			
		YQueries the database for the most current data.			
		NQueries the database for the most current data only if the cached data is unavailable.			
		Valid for Command: show			
		Default Value: Y			
		Possible Value: Y, N			
		Parser: BooleanParser			
	DESCRIPTION	Description: Described by the service provider.			
		VARCHAR(64): 1-64 ASCII characters.			
		Valid for Command: add, change, audit, sync, show			
		Possible Value: [1_64]			
		Parser: TextParser			

DISPLAY	Description: Specifies what token information to display on the screen. Valid only for the show command.
	VARCHAR(1024): 1-1024 (Default = all tokens are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
	Valid for Command: show
	Possible Value: [1_1024]
	Parser: TextParser
ID	Description: Network ID of a specific CA or FS. Valid for the download to Standby CA or FS command. VARCHAR(8):1-8 ASCII characters consisting of any valid, provisioned CA, FSPTC, or FSAIN ID.
	Valid for Command: add, change, show, delete, audit, sync
	Mandatory: add, change, delete
	Possible Value: [1_16]
	Parser: TextParser
LIMIT	Description: Specifies the number of rows to display on the screen. Valid only for the show command.
	INTEGER: 1-100000000 (Default = 100000000).
	Valid for Command: show
	Default Value: 100000000
	Possible Value: [1_10000000]
	Parser: DecimalParser
MASTER	Valid for Command: sync
	Mandatory: sync
	Possible Value: [1_10]
	Parser: TextParser
ORDER	Description: Specifies whether to display data on the screen in a sorted order. Valid only for the show command.
	VARCHAR(51200): 1-51200 (Default = all rows are displayed). Permitted values are any valid token that can be shown for this command. Multiple tokens can be entered by separating with a comma.
	Valid for Command: show
	Possible Value: [1_1024]
	Parser: TextParser

PLATFORM_STATE	Description: State of an active or standby system shared memory database; use to audit an active or standby system shared memory database. Valid for the audit database and audit table name commands.
	VARCHAR(7): 1-7 ASCII characters. Permitted values are:
	ACTIVE (Default)System is active (currently running).
	STANDBYSystem is in standby mode.
	EMSAudits the active EMS to the standby EMS.
	Valid for Command: sync, audit
	Default Value: ACTIVE
	Possible Value: ACTIVE, STANDBY
	Parser: TextParser
START_ROW	Description: Specifies to begin displaying data on the screen at a specific row. Valid only for the show command.
	INTEGER: 1-100000000 (Default = 1).
	Valid for Command: show
	Default Value: 1
	Possible Value: [1_100000000]
	Parser: DecimalParser
TARGET	Description: Specifies the network element to receive the request.
	VARCHAR(5): 1-5 ASCII characters. Permitted values are:
	CANetwork identifier of a Call Agent.
	FSPTC (POTS/Tandem/Centrex Feature Server)Network identifier of a specific Feature Server.
	FSAIN (AIN Feature Server)Network identifier of AIN Feature Servers.
	Valid for Command: sync
	Mandatory: sync
	Possible Value: [1_10]
	Parser: TextParser

Provisioning a Dial Plan with the Extensible Provisioning and Operations Manager

This section provides the detailed instructions for adding a dial plan to the Cisco BTS 10200 Softswitch configuration using the Extensible Provisioning and Operations Manager (EPOM). Additionally, detailed instructions are provided for using EPOM to manage configured dial plans. The EPOM also allows you to perform add, delete, and edit commands on multiple dial plans with a single operation. The following subjects are discussed:

- Adding a Dial Plan to the Cisco BTS 10200 Softswitch Configuration
- Applying an EPOM Template to a Selected Dial Plan
- Editing a Dial Plan in the Cisco BTS 10200 Softswitch Configuration
- Deleting a Dial Plan from the Cisco BTS 10200 Softswitch Configuration
- Adding Multiple Dial Plans to a Cisco BTS 10200 Softswitch Configuration
- Editing Multiple Dial Plans in the Cisco BTS 10200 Softswitch Configuration
- Deleting Multiple Dial Plans in the Cisco BTS 10200 Softswitch Configuration

For additional details on using the EPOM, refer to the *Cisco Extensible Provisioning and Operations Manager Getting Started Guide*.

Adding a Dial Plan to the Cisco BTS 10200 Softswitch 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 Softswitch EMS server*.
- Step 2 Click Config.

The Cisco BTS 10200 Softswitch Component Status window opens.

Step 3 In the Configuration tree, choose **Office Tables > dial_plan**.

L

Comp	onent: dial_plan			Add Search
Che	c <u>k All</u> <u>Clear All</u>	Details <u>Edit</u> Delete		
	id 🔺	dest_id	digit_string	Rows: 1 - 100 of 2071 🖈
	<u>Dial1</u>	<u>dst1</u>	222	[Details] [Edit] [Delete
	Incoming	<u>local-sub</u>	271201	[Details] [Edit] [Delete
	Incoming	<u>local-sub</u>	271202	[Details] [Edit] [Delete
	Incoming	<u>local-sub</u>	271203	[Details] [Edit] [Delete
	Incoming	local-sub	271204	[Details] [Edit] [Delete
	Incoming	<u>local-sub</u>	271205	[Details] [Edit] [Delete
	Incoming	local-sub	271206	[Details] [Edit] [Delete
	Incoming	RLGHINCDS1	306291	[Details] [Edit] [Delete
	Incoming	local-sub	306301	[Details] [Edit] [Delete
	Incoming	local-sub	306362	[Details] [Edit] [Delete
	Incoming	local-sub	306391	[Details] [Edit] [Delete

The Cisco BTS 10200 Softswitch 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 Softswitch Component Add window opens.

Add compone	nt: dial_plan	OK Apply Cancel
<u>Clear Form</u>		🗌 Expand range expression 🕄
🖌 id	UNSET 🔽 😰	
✓ dest_id	UNSET 🔽 💈	
🗸 digit_string		2
🗸 max_digits	10	2
✓ min_digits	10	2
🗸 noa	NATIONAL 🔽 🛛	
🗸 split_npa	NONE 🔽 🕄	
del_digits	0	(I)
pfx_digits		(1) (1)

Step 5 Define the device. Required fields are identified with a red check mark.

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 Softswitch Component window. The new dial plan is added to the list.

To edit a single component, see the ""Editing a Dial Plan in the Cisco BTS 10200 Softswitch Configuration" section on page 6-12; to delete a single component, see the ""Deleting a Dial Plan from the Cisco BTS 10200 Softswitch Configuration" section on page 6-14.

Applying an EPOM Template to a Selected Dial Plan

- Step 1 In a Domain view, select the desired domain > BTS10200s > the desired Cisco BTS 10200 Softswitch EMS server.
- Step 2 Click Config. The Cisco BTS 10200 Softswitch Component Status view opens.
- Step 3 In the Configuration tree, select Office Tables > dial_plan. The Cisco BTS 10200 Softswitch 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.

Comp	onent: dial_plan			Add Search
Che	ck All <u>Clear All</u>	<u>Details Edit Delete</u>		
	id 🔺	dest_id	digit_string	Rows: 1 - 100 of 2071 🖻
	<u>Dial1</u>	<u>dst1</u>	222	[Details] [Edit] [Delete
	Incoming	local-sub	271201	[Details] [Edit] [Delete
	Incoming	local-sub	271202	[Details] [Edit] [Delete
	Incoming	local-sub	271203	[Details] [Edit] [Delete
	Incoming	local-sub	271204	[Details] [Edit] [Delete
	Incoming	local-sub	271205	[Details] [Edit] [Delete
	Incoming	local-sub	271206	[Details] [Edit] [Delete
	Incoming	RLGHNCDS1	306291	[Details] [Edit] [Delete
	Incoming	local-sub	306301	[Details] [Edit] [Delet
	Incoming	local-sub	306362	[Details] [Edit] [Delete
	Incoming	local-sub	306391	[Details] [Edit] [Delete

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

Add compone	nt: dial_plan	OK Apply Cancel
<u>Clear Form</u>		Expand range expression 🕄
Template:		Save 📂 new template name
🖌 id	UNSET 🔽 🕄	
✓ dest_id	UNSET 🔽	
✓ digit_string		0
✓ max_digits	10	2
✓ min_digits	10	2
🗸 noa	NATIONAL 💙 🛛	
🗸 split_npa	NONE 🔽 🕄	
del_digits	0	0
pfx_digits		ାୟ ସ

- **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. The new dial plan is added to the list when you return to the Cisco BTS 10200 Softswitch Component view.

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 Dial Plan in the Cisco BTS 10200 Softswitch Configuration

Step 1	From the Domain window, choose the <i>domain</i> > BTS10200s > the <i>Cisco BTS 10200 Softswitch EMS server</i> .
Step 2	Click Config.
	The Cisco BTS 10200 Softswitch Component Status window opens.
Step 3	In the Configuration tree, choose Office Tables > dial_plan .
	The Cisco BTS 10200 Softswitch Component window shows a list of currently configured dial plans.
Step 4	Select the row that you wish to edit and click Edit.
	The Change component window appears.

Change compo	onent: dial_plan OK Cancel
<u>Clear Form</u>	
🗸 id	Dial1 🔽 🕄
🗸 digit_string	222 2
🗸 noa	NATIONAL 🕑 😰
del_digits	0 2
dest_id	dst1 🕑 🖸
max_digits	10
min_digits	10 2
pfx_digits	0
split_npa	NONE 🥥



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 Make the required changes to the attribute fields. To make changes follow the steps mentioned below.

a. Enter the new value in the text field or select a new value from the drop down box. This action displays a check box against the changed field. This check box is enabled by default.

<u>Clear Form</u>		
]
√ id	Dial1 👤 🕄	1
🗸 digit_string	222 🛛	
🗸 noa	NATIONAL 🔽 🛛	-
del_digits	0 0	-
dest_id	🔽 dest_id1 🔽 😰	
max_digits	10 🛛	
min_digits	v 10 Q	
pfx_digits	0	19
split_npa	REW_NPA I	130610

b. Click **OK** to save changes. EPOM will send only the checked elements along with the mandatory fields to Cisco BTS 10200 Softswitch, instead of sending whole edit page elements. This will update the Cisco BTS 10200 Softswitch Server with the new values along with the mandatory attributes.

Note

Mandatory attributes cannot be edited, hence no check box will be displayed against it when the user tries to change its value.

<u>//\</u> Caution

If the user decides to revert back and retain the old values then it has be to done before saving. It can be done by un checking the check box. This way the same old values are send to the database when the user clicks **OK** to save the changes.

Step 6 EPOM provides the option to edit multiple nouns in a single instance. Select the nouns which needs to be updated in template and click **Edit**. The browser displays multiple templates.

Clear Form			
	N	v	
√ id	dial_p_pro1 🔽 🕄	dial_p_pro1 💌 😰	
✓ digit_string	233233	233233	
🗸 noa	NATIONAL 🔽 🕄	UNKNOWN 🔽 😰	
del_digits	0 2	0 2	
dest_id	🔽 dest_id1 🔽 🕄	🔽 dest_id2 💌 😰	
max_digits	9 2	10 😰	
min_digits	9	9 2	
pfx_digits	2	Q	
split_npa	OLD_NPA I	NEW_NPA	

Note

EPOM provides option to edit multiple nouns in a single instance. Select the nouns which needs to be updated in template and click **Edit**. The browser displays multiple templates.

Step 7 Click OK.

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

To add a single component, see the "'Adding a Dial Plan to the Cisco BTS 10200 Softswitch Configuration" section on page 6-9; to delete a single component, see the "'Deleting a Dial Plan from the Cisco BTS 10200 Softswitch Configuration" section on page 6-14.

Deleting a Dial Plan from the Cisco BTS 10200 Softswitch Configuration

Step 1	Choose the <i>domain</i> > BTS10200s > the <i>Cisco BTS 10200 Softswitch EMS server</i> from the Domain window.
Step 2	Click Config .
	The Cisco BTS 10200 Softswitch Component Status window opens.
Step 3	In the Configuration tree, choose Office Tables > dial_plan .
	The Cisco BTS 10200 Softswitch 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 compor	Delete component: dial_plan OK Cancel		
		1	
<u>Clear Form</u>			
✓ id		-	
✓ digit_string			
✓ noa	NATIONAL 🕑 😨	120324	



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 Dial Plan to the Cisco BTS 10200 Softswitch Configuration" section on page 6-9; to edit a single component, see the "'Editing a Dial Plan in the Cisco BTS 10200 Softswitch Configuration" section on page 6-12.

Adding Multiple Dial Plans to a Cisco BTS 10200 Softswitch Configuration

Step 1	In the ems-server	window left	pane, click a	component.
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The Component: name window appears.

Step 2 Click Add.

The Add component window appears.

Add compone	nt: dial_plan	OK Apply Cancel
<u>Clear Form</u>		Expand range expression 🕄
✓ id	UNSET 🔽 😰	
🗸 dest_id	UNSET 🔽 💈	
🗸 digit_string		3
🗸 max_digits	10	3
🗸 min_digits	10	2
🗸 noa	NATIONAL 🔽 💈	
🗸 split_npa	NONE 🕑 🔇	
del_digits	0	2
pfx_digits		ୟ ସ

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.

Γ

• When you click **Apply**, the component is added, but you remain in the Add component window for further operations.

You have now added multiple dial plans to the Cisco BTS 10200 Softswitch EMS network.

Editing Multiple Dial Plans in the Cisco BTS 10200 Softswitch Configuration

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		
Class Error		
<u>Clear Form</u>		
🗸 id	Dial1 🛛 🔽	Incoming 🛛 🔽
🗸 digit_string	222 😰	271201
🗸 noa	NATIONAL 🔽 🛛	NATIONAL 🔽 🔇
del_digits	0 2	0 2
dest_id	dst1 🗸 😰	local-sub 💌 😰
max_digits	10	10
min_digits	10	10
pfx_digits	2	2
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 .
Step 6	You have now edited multiple components in the Cisco BTS 10200 Softswitch EMS network.

Deleting Multiple Dial Plans in the Cisco BTS 10200 Softswitch Configuration

Step 1	Step 1 In the ems-server window left pane, click a component.		
	The Component: name window appears.		
Step 2	In the Component: <i>name</i> 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 compon	ent: dial_plan		OK Cancel
<u>Clear Form</u>			
🗸 id	Dial1	Incoming	Incoming
🗸 digit_string	222 2	271201	271202
🗸 noa	NATIONAL 🕑 🛛	NATIONAL 🕑 🛛	NATIONAL V

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 dial plans in the Cisco BTS 10200 Softswitch EMS network.