Phone Template

Cisco Unified CallManager Bulk Administration (BAT) gives the administrator a fast and efficient way to add, update, or delete large numbers of phones in batches, rather than performing individual updates through Cisco Unified CallManager Administration. You can use BAT to work with the following types of phones:

- Cisco Unified IP Phones (all models)
- CTI ports
- H.323 clients

The following topics provide information about using BAT to work with phone templates and other IP telephony devices:

- Adding Phones, page 3-1
- Using BAT Phone Templates, page 3-2

Adding Phones

When you use BAT to add phones and other IP telephony devices to the Cisco Unified CallManager database, you can add multiple lines, services, and speed dials for each phone. You can also add CTI ports and H.323 clients.

You have two options for creating a CSV data file for phones:

- Use the BAT spreadsheet (BAT.xlt) and export the data to the CSV format.
- Use a text editor to create a text file in CSV format (for experienced users).

Use the following steps to add phones and IP telephony devices in bulk.

Step 1 Choose **Bulk Administration > Phones > Phone Template**.

The Find and List Phone Templates window displays. See the "Using BAT Phone Templates" section on page 3-2 for information about configuring phone templates.

Step 2 To create a CSV data file for inserting phone templates using the BAT spreadsheet, see "Using the BAT Spreadsheet to Create a CSV Data File for Phones" section on page 3-30

Text Editor to Create the CSV Data File

a. Choose **Bulk Administration > Phones > Phone File Format > Create File Format**.

The Find and List Phone File Formats window displays. See "Finding a Phone File Format" section on page 4-2 for information about configuring file formats for CSV data file.

b. Use a text editor and create the CSV data file for phones that follows the file format that you want to use. For more information about creating a text-based CSV file, see the "Creating a Text-Based CSV File for Phones" section on page A-1.

c. Choose **Bulk Administration > Phones > Phone File Format > Add File Format.**

The Add File to Format window displays. See the "Associating the File Format with the CSV Data File" section on page 4-5 for information about associating file formats.

Step 3 Choose **Bulk Administration > Phones > Validate Phones**.

The Validate Phones window displays. See Chapter 5, "Validating Phone Records," for information about validating phone records.

Step 4 Choose **Bulk Administration > Phones > Insert Phones**.

The Insert Phones window displays. See the "Inserting Phones into Cisco Unified CallManager" section on page 6-1 for information about inserting phone records into the Cisco Unified CallManager database.

Additional Topics

See the "Related Topics" section on page 3-43.

Using BAT Phone Templates

Use BAT phone templates to define the common phone attributes to add a group of new phones. Prior to creating the template, make sure phone settings such as device pool, location, calling search space, button template and softkey templates have already been configured in Cisco Unified CallManager Administration. You cannot create new settings in BAT.

Use these topics to work with BAT Phone Templates:

- Finding a BAT Phone Template, page 3-2
- Creating a New BAT Phone Template, page 3-4
- Adding or Updating Lines in a BAT Template, page 3-4
- Copying a BAT Phone Template, page 3-8
- Deleting Templates, page 3-9
- Field Descriptions for a BAT Phone Template, page 3-9

Finding a BAT Phone Template

Because you might have several phone templates, Cisco Unified CallManager lets you locate specific phone template on the basis of specific criteria. Use the following procedure to locate templates.

Note During your work in a browser session, your find/list search preferences are stored in the cookies on the client machine. If you navigate to other menu items and return to this menu item, or if you close the browser and then reopen a new browser window, your Cisco Unified CallManager search preferences are retained until you modify your search.

Procedure

Step 1 Choose **Bulk Administration > Phones > Phone Template**.

The Find and List Phone Templates window displays. Use the two drop-down list boxes to search for a template.

Step 2 From the first Find Phone Templates where drop-down list box, choose one of the following criteria:

- Device Name
- Description
- Directory Number
- Calling Search Space
- Device Pool
- Device Type
- Call Pickup Group
- LSC Status
- Authentication String
- Device Protocol
- Security Profile

From the second Find Phone Template where drop-down list box, choose one of the following criteria:

- begins with
- contains
- is exactly
- ends with
- is empty
- is not empty

Step 3 Specify the appropriate search text, if applicable, and click **Find**.

Tip To find all Phone Templates that are registered in the database, click **Find** without entering any search text.

A list of discovered templates displays.

Step 4 From the list of records, click the device name that matches your search criteria.

The window displays the phone template that you choose.

Additional Information

See the "Related Topics" section on page 3-43.

Creating a New BAT Phone Template

Use this procedure to create the phone template. After you create a phone template, you can add lines, services, and speed dials. Use the following procedure to create a phone template.

Procedure

Step 1 Choose **Bulk Administration > Phones > Phone Template**.

The Find and List Phone Templates window displays.

Step 2 Click **Add New**. The Add a New Phone Template window displays.

Step 3 From the Phone Type drop-down list box choose the phone model, for which you are creating the template. Click **Next**.

Step 4 Choose the device protocol from the Select the Device Protocol drop-down list box. Click **Next**.

The Phone Template Configuration window displays with fields and default entries for the chosen device type.

Step 5 In the Phone Template Name field, enter a name for the template. The name can contain up to 50 alphanumeric characters. Example: Sales_7960.

Step 6 In the Device Information area, enter the phone settings that this batch has in common. See Table 3-1 for field descriptions. Some phone models and device types do not have all the attributes that the table lists.

Step 7 After you have entered all the settings for this BAT phone template, click **Save**.

Step 8 When the status indicates that the transaction has completed, you can add line attributes.

Additional Information

See the "Related Topics" section on page 3-43.

Adding or Updating Lines in a BAT Template

To add one or more lines to the BAT template or to update existing lines, follow this procedure. The button template in use for this BAT template determines the number of lines that you can add or update. You can create a master phone template that has multiple lines. Then, you can use the master template to add phones with a single line or up to the number of lines in the master template. See the "Master Phone Templates" section on page 1-4 for more information.

Procedure

Step 1 Find the Phone Template you want to add line to, using the procedure in "Finding a BAT Phone Template" section on page 3-2

Step 2 In the Phone Template Configuration window, click **Line [1] Add a new DN**, in the Associated Information area.

The Line Template Configuration window displays.

Note The maximum number of lines that display for a BAT template depends on model and button template that you chose when you created the BAT phone template.

Step 3 Enter or choose the appropriate values for the line settings that are described in Table 3-2. Keep in mind that all phones or user device profiles in this batch will use the settings that you choose for this line. Treat all fields as optional.

Step 4 Click **Save**.

BAT adds the line to the phone template configuration.

Step 5 Repeat Step 2 through Step 4 to add settings for any additional lines.

Note If you choose **Back to Find/List** from the Related Links drop-down list box in the upper, right, corner of the Line Template Configuration window, the Find and List Line Template window displays. To find existing line template, enter the appropriate search criteria and click **Find**. To add a new line template click **Add New** on Find and List Line Template window.

It is recommended that you use alpha-numeric characters for Line Template. This is so that , if numbers are given there is a chance of this conflicting with an actual directory number. This would also avoid conflicts with features such as Call Pickup group number, Call Park number, etc.

Note For some Cisco Unified IP Phone models, you can add Cisco Unified IP Phone services and speed dials to the template. For more information, see Adding or Updating IP Services in a BAT Template, page 3-5 and Adding or Updating Speed Dials in a BAT Template, page 3-6.

Additional Information

See the "Related Topics" section on page 3-43.

Adding or Updating IP Services in a BAT Template

You can subscribe Cisco Unified IP Phone services to the Cisco Unified IP Phone models that include this feature.

Note You can bulk subscribe users or phones to IP services with common service parameters but not to IP services with unique service parameters.
This is valid only for services that are subscribed through a phone template. For services with unique parameters, values can be specified through CSV file.

Procedure

Step 1 Find the Phone Template you want add an IP Service to, using the procedure in "Finding a BAT Phone Template" section on page 3-2.

Step 2 In the Phone Template Configuration window, click **Add a new SURL** in the Associated Information area.

A popup window displays. In this window, you can subscribe to Cisco Unified IP Phone services that are available.

Step 3 In the Select a Service drop-down list box, choose a service to which you want all phones to be subscribed. The Service Description box displays details about the service that you choose.

Step 4 Click **Next**.

Step 5 In the Service Name field, modify the name of the service if required.

Step 6 To associate these phone services to the phone template, click **Subscribe** .

Step 7 To add more services, repeat Step 3 through Step 6.

Step 8 To add all the services to the template, click **Update**.

Step 9 Close the popup window.

Step 10 You can add speed dials to the template by continuing to the "Adding or Updating Speed Dials in a BAT Template" section on page 3-6.

Additional Information

See the "Related Topics" section on page 3-43.

Adding or Updating Speed Dials in a BAT Template

You can add and update speed dials in the BAT template.

You can designate speed dials for phones and Cisco VGC phones if the Phone Button Template provides speed-dial buttons.

Procedure

Step 1 Find the Phone Template you want to add speed dials to, using the procedure in "Finding a BAT Phone Template" section on page 3-2

Step 2 In the Phone Template Configuration window, click **Add a new SD** in the Associated Information area, or choose **Add/Update Speed Dials** from the Related Links drop-down list box in the upper, right-hand corner of the window.

A popup window displays. In this window, you can designate speed-dial buttons for Cisco Unified IP Phones and expansion modules. The phone button template in use for this BAT template determines the number of available speed-dial buttons.

Step 3 In the Speed Dial Settings area, enter the phone number, including any access or long-distance codes, in the Number field.

Step 4 In the Label field, enter a label that corresponds to the speed-dial number.

Step 5 In the ASCII Label field, enter the corresponding ASCII label for the speed-dial number.

Step 6 In the Abbreviated Dial Settings area, you can set abbreviated speed dials for applicable IP phone models by repeating Step 3 and Step 5.

Step 7 Click **Save**.

BAT inserts the speed-dial settings in the template, and the popup window closes.

Additional Topics

See the "Related Topics" section on page 3-43.

Adding or Updating Busy Lamp Field in a BAT Template

You can add and update busy lamp filed speed dials in the BAT template.

You can designate busy lamp field speed dials for phones and Cisco VGC phones if the Phone Button Template provides speed-dial buttons.

Procedure

Step 1 Find the Phone Template you want to add speed dials to, using the procedure in "Finding a BAT Phone Template" section on page 3-2

Step 2 In the Phone Template Configuration window, click **Add a new BLF SD** in the Associated Information area, or choose **Add/Update Busy Lamp Field Speed Dials** from the Related Links drop-down list box in the upper, right-hand corner of the window.

A popup window displays. In this window, you can designate busy lamp field speed-dial (BLF SD) buttons for Cisco Unified IP Phones and expansion modules. The phone button template in use for this BAT template determines the number of available BLF SD buttons.

Step 3 In the Speed Dial Settings area, enter the destination, including any access or long-distance codes, in the Destination field.

Step 4 Choose the directory number from the drop-down list box. You can click **Find** to search for directory numbers.

Step 5 In the Label field, enter a label that corresponds to the BLF SD number.

Step 6 In the ASCII Label field, enter the corresponding ASCII label for the BLF SD number.

Step 7 Click **Save**.

BAT inserts the BLF SD settings in the template, and the popup window closes.

Additional Topics

See the "Related Topics" section on page 3-43.

Modifying BAT Phone Templates

Use this procedure to view or modify an existing phone or user device profile template. You can add or update lines, services, and speed dials.

Procedure

Step 1 Find the Phone Template you want to modify, using the procedure in "Finding a BAT Phone Template" section on page 3-2

Step 2 In the Phone Template Configuration window, add, change, or remove settings in the template. See "Field Descriptions for a Phone Template" section on page 3-9 for more information.

Step 3 After you have modified the settings to update the template, click **Save**.

Step 4 If you want to update other attributes, choose one of the following procedures:

- Adding or Updating Lines in a BAT Template, page 3-4
- Adding or Updating IP Services in a BAT Template, page 3-5
- Adding or Updating Speed Dials in a BAT Template, page 3-6

Additional Information

See the "Related Topics" section on page 3-43.

Copying a BAT Phone Template

You can copy the properties of a phone template into a new phone template when you want to change only a few fields.

Note The new template that you create must be the same device type as the original template, such as Cisco IP Phone model 7960.

Use the following procedure to copy an existing BAT phone template.

Procedure

Step 1 Find the Phone Template you want to copy, using the procedure in "Finding a BAT Phone Template" section on page 3-2

Step 2 In the Phone Template Configuration window, verify that this is the template that you want to copy and click **Copy**.

Note You can also copy the phone template from the Find and List Phone Templates window. Click the icon in the Copy or Copy with Lines column corresponding the phone template you wish to copy.

The template reproduces and creates a copy. The copy duplicates all the values that were specified in the original template. If you click the icon in the Copy with Lines column in the Find and List Phone Templates window, then all the lines associated with the template are also copied.

Step 3 In the Phone Template Name field, enter a name for the template. The name can contain up to 50 alphanumeric characters. Example: Sales_7960.

Step 4 Update the fields as needed for the new template. See "Field Descriptions for a Phone Template" section on page 3-9 for information.

Step 5 Click **Save**. The template that is added to BAT displays in the Phone Templates column on the left.

Step 6 For more information on adding lines to the phone template, see the "Adding or Updating Lines in a BAT Template" section on page 3-4. You can also define services and speed-dial buttons.

Additional Topics

See the "Related Topics" section on page 3-43.

Deleting Templates

You can delete BAT templates when you no longer require them. Use this procedure to delete a template.

Procedure

Step 1 Find the Phone Template you want to delete, using the procedure in "Finding a BAT Phone Template" section on page 3-2.

Step 2 In the Phone Template Configuration window, verify that this is the template that you want to delete and click **Delete**.

Note You can also delete the phone template from the Find and List Phone Templates window.check the check box next to the template you want to delete and click **Delete Selected**

A message displays that asks you to confirm the delete operation.

Step 3 To delete the template, click **OK**. The template name disappears from the list of phone templates list on the Find and List Phone Templates window.

Caution If you submit a job that uses a particulate phone template and if you delete the phone template then the job also gets deleted.

Additional Topics

See the "Related Topics" section on page 3-43.

Field Descriptions for a BAT Phone Template

Table 3-1 provides descriptions of all possible fields that display when you are adding a BAT phone template for all IP telephony devices. Some device types do not require all the phone settings.

Some fields display the values that were configured in Cisco Unified CallManager Administration.

In the BAT user interface, field names that have an asterisk require an entry. Treat fields that do not have an asterisk as optional.

For related procedures, see the "Related Topics" section on page 3-43.

Table 3-1 Field Descriptions for a Phone Template

Field	Description
Device Name	Enter the device name.
Description	Enter a description for the phone template you want to create.
Device Pool	Choose the device pool for this group of phones/ports. For devices, a device pool defines sets of common characteristics, such as region, date/time group, Cisco Unified CallManager group, and calling search space for auto-registration.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Common Phone Profile	From the drop-down list box, choose a common phone profile from the list of available common phone profiles.
Calling Search Space	Choose the calling search space for this group of phones/ports. A calling search space specifies the collection of Route Partitions that are searched to determine how a dialed number should be routed.
AAR Calling Search Space	Choose the appropriate calling search space for the device to use when it performs automated alternate routing (AAR). The AAR calling search space specifies the collection of route partitions that are searched to determine how to route a collected (originating) number that is otherwise blocked due to insufficient bandwidth.
Media Resource Group List	Choose the media resource group list (MRGL) for this group of phones/ports. An MRGL specifies a list of prioritized media resource groups. An application can choose required media resources from the available ones according to the order that is defined in the MRGL.
User Hold Audio Source	Choose the user hold audio source for this group of phones/ports. The user hold audio source identifies the audio source from which music is played when a user places a call on hold.
Network Hold Audio Source	Choose the network hold audio source for this group of IP phones or ports. The network hold audio source identifies the audio source from which music is played when the system places a call on hold, such as when the user transfers or parks a call.
Location	Choose the appropriate location for this group of IP phones or ports. The location specifies the total bandwidth that is available for calls to and from this location. A location setting of *None* means that the locations feature does not keep track of the bandwidth that this Cisco IP Phone consumes.
User Locale	Choose the country and language set that you want to associate with this group of IP phones. This choice determines which cultural-dependent attributes exist for this user and which language displays for the user in the Cisco Unified CallManager user windows and phones.
Network Locale	Choose the network locale that you want to associate with this group of phones. The Network Locale comprises a set of tones and cadences that Cisco gateways and phones use when communicating with the PSTN and other networks in a specific geographical area.
Owner User ID	Enter a user ID for the primary phone user.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Phone Load Name	Enter the custom phone load, if applicable. **Note** Any value that is entered in this field overrides the default value for the chosen model. For more information about Cisco IP Phone software and configuration, refer to the *Cisco IP Phone Administration Guide for Cisco Unified CallManager 5.0*, which is specific to the phone model.
Device Security Mode	From the drop-down list box, choose the mode that you want to set for the device: Use System Default—The phone uses the value that you specified for the enterprise parameter, Device Security Mode. Non-secure—No security features exist for the phone. A TCP connection opens to Cisco Unified CallManager. Authenticated—Cisco Unified CallManager provides integrity and authentication for the phone. A TLS connection using NULL/SHA opens. Encrypted—Cisco Unified CallManager provides integrity, authentication, and encryption for the phone. A TLS connection using AES128/SHA opens This field displays only if the phone model supports authentication or encryption.
Built In Bridge	Enable or disable the built-in conference bridge for the barge feature by using the Built In Bridge drop-down list box (choose *On, Off,* or *Default*). For more configuration information, refer to the Barge and Privacy Features in the *Cisco Unified CallManager Features and Services Guide*.
Privacy	For each phone that wants Privacy, choose *On* in the Privacy drop-down list box. For more configuration information, refer to Barge and Privacy Features in the *Cisco Unified CallManager Features and Services Guide*.
Retry Video Call as Audio	This check box applies only to video endpoints that receive a call. If this phone receives a call that does not connect as video, the call tries to connect as an audio call. By default, the system checks this check box to specify that this device should immediately retry a video call as an audio call (if it cannot connect as a video call) prior to sending the call to call control for rerouting. If you uncheck this check box, a video call that fails to connect as video does not try to establish as an audio call. The call then fails to call control, and call control routes the call via Automatic Alternate Routing (AAR) and/or route/hunt list.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Ignore Presentation Indicators (Internal Calls Only)	Check this check box to configure call display restrictions on a call-by-call basis. When this check box is checked, Cisco Unified CallManager ignores any presentation restriction that is received for internal calls.
Allow Control of Device from CTI	Check this check box to allow control of all CTI controllable devices from CTI. This check box can be enabled or disabled based on CTI Controllable Device Type and Device Protocol. For example, a 7960 with SIP protocol is not supported by CTI, therefore, the check box should be disabled. A 7960 with SCCP protocol is supported by CTI, hence check box should be enabled.
Protocol Specific Information	
Packet Capture Mode	From the drop-down list box, choose the mode that you want to set for signal packet capture: • None—Choose None if you do not want to specify a mode. • Real-Time Mode—Use this mode for real-time signal packet capture. • Batch Processing Mode—Use this mode for batch processing signal packet capture mode.
Packet Capture Duration	Enter the time for packet capture in minutes. You can enter a maximum duration of 300 minutes. The default duration specifies 60 minutes.
Presence Group	Used with the Presence feature, the SIP or SCCP phone serves as a watcher because it requests status about the presence entity, for example, directory number, that is configured as a BLF speed dial button on the phone. If you want the phone to receive the status of the presence entity, choose a Presence group that is allowed to view the status of the Presence group that is applied to the directory number, as indicated in the Presence Group Configuration window. **Tip** For more information on the Presence feature, refer to the *Cisco Unified CallManager Features and Services Guide*.
SIP Dial Rules	If required, choose the appropriate SIP dial rule. SIP dial rules provide local dial plans for Cisco SIP IP Phones model 7905, 7912, 7940, and 7960, so that users do not have to press a key or wait for a timer before the call gets processed. Leave the SIP Dial Rules field set to <None> if you do not want dial rules applied to the SIP IP Phone. This means the user will have to use the Dial softkey or wait for the timer to expire before the call gets processed.
Device Security Profile	For SCCP or SIP phones, choose the security profile that you want to apply to the device. All phones require that you apply a security profile. If the phone does not support security, choose a nonsecure profile.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
MTP Preferred Originating Codec	From the drop-down list box, choose the codec to use if a media termination point is required for SIP calls.
Rerouting Calling Search Space	From the drop-down list box, choose a calling search space to use for rerouting. The rerouting calling search space of the referrer gets used to find the route to the refer-to target. When the Refer fails due to the rerouting calling search space, the Refer Primitive rejects the request with the "405 Method Not Allowed" message. The redirection (3xx) primitive and transfer feature also uses the rerouting calling search space to find the redirect-to or transfer-to target.
Out-of-Dialog Refer Calling Search Space	From the drop-down list box, choose an out-of-dialog refer calling search space. Cisco Unified CallManager uses the out-of-dialog (OOD) Refer Authorization calling search space (CSS) to authorize the SIP out-of-dialog Refer. The administrator can restrict the use of out-of-dialog Refer by configuring the OOD CSS of the Referrer. Refer Primitive rejects the OOD Refer request with a "403 Forbidden" message.
SUBSCRIBE Calling Search Space	Used with the Presence feature, the SUBSCRIBE Calling Search Space determines how Cisco Unified CallManager routes the subscription requests that come from the phone. From the drop-down list box, choose the calling search space that you want to use for this purpose. **Tip** For more information on the Presence feature, refer to the *Cisco Unified CallManager Features and Services Guide*.
SIP Profile	Choose the default SIP profile or a specific profile that was previously created. SIP profiles provide specific SIP information for the phone such as default telephony event payload type, registration and keep alive timers, media ports, Iris, and dynamic DNS server addresses.
Digest User	Used with digest authentication (SIP security), choose an end user that you want to associate with the phone. Ensure that you configured digest credentials for the user that you choose, as specified in the End User Configuration window. After you save the phone configuration and reset the phone, the digest credentials for the user get added to the phone configuration file. For more information on digest authentication, refer to the *Cisco Unified CallManager Security Guide*.
Unattended Port	Check this check box to indicate an unattended port on this device.
Require DTMF Reception	For SIP and SCCP phones, check this check box to require DTMF reception for this phone.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
RFC2833 Disabled	For SCCP phones, check this check box to disable RFC2833 support.
Phone Button Template and Expansion Module Template Information	
Phone Button Template	Choose the button template for all phones in this group. Button templates determine the button identity (line, speed dial) and the button location on the phone. Button templates include the expansion modules.
Softkey Template Information	
Softkey Template	Choose the softkey template to be used for all phones in this group.
Expansion Module Information	
Module 1	Choose the expansion module if installed in the phone.
Module 2	Choose the expansion module if installed in the phone.
Firmware Load Information	
Module 1 Load Name	Enter the firmware load for the first Cisco Unified IP Phone Expansion Module, if applicable. Leave this field blank to use the default load.
Module 2 Load Name	Enter the firmware load for the second Cisco Unified IP Phone Expansion Module, if applicable. Leave this field blank to use the default load.
Certification Authority Proxy Function (CAPF) Information (These parameters display only for devices with the capability to support authentication or encryption.)	
Certificate Operation	From the drop-down list box, choose the Certification Operation that you want to perform from the following options: • No Pending Operation—No pending Certification Operation lists for this device. Choosing this option disables the remaining CAPF fields. • Install/Upgrade—Install or upgrade a Certification Operation. • Delete—Delete a Certification Operation. • Troubleshoot—Troubleshoot a Certification Operation.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Authentication Mode	From the drop-down list box, choose the Authentication Mode by which you want the phone to authenticate with CAPF during the certificate operation from the following options: • By Null String—Install/upgrade, delete, or troubleshoot a locally significant certificate without user intervention. • <None> **Note** This option prompts you to specify a value for the Authentication Mode. • By Authentication String—Installs/upgrades, deletes, or troubleshoots a locally significant certificate only when the user enters the CAPF authentication string on the phone. • By Existing Certificate (precedence to LSC)—Installs/upgrades, deletes, or troubleshoots a locally significant certificate if a manufacture-installed certificate (MIC) or locally significant certificate (LSC) exists in the phone. **Note** Before you choose this option, verify that a certificate exists in the phone. If you choose this option and no certificate exists in the phone, the operation fails. • By Existing Certificate (precedence to MIC)—Installs/upgrades, deletes, or troubleshoots a locally significant certificate if a LSC or MIC exists in the phone. **Note** Before you choose this option, verify that a certificate exists in the phone. If you choose this option and no certificate exists in the phone, the operation fails.
Authentication String	If you chose the By Authentication String option from the Authentication Mode drop-down list box in the security profile, this setting applies. Manually enter a numeric string that contains 4 to 10 digits. To install, upgrade, or troubleshoot a locally significant certificate, the phone user or administrator must enter the authentication string on the phone.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Key Size (Bits)	From the drop-down list box, choose the Key Size that you want for the certificate from the following options: • 1024—This is the default option. • <None> **Note** This option prompts you to specify a value for the Key Size for the certificate. • 2048 • 512 **Note** If you choose a higher key size than the default setting, the phones take longer to generate the entropy that is required to generate the keys. Key generation, which is set at low priority, allows the phone to function while the action occurs. Depending on the phone model, you may notice that key generation takes up to 30 or more minutes to complete.
Operation Completes By	This field, which supports the Install/Upgrade, Delete, and Troubleshoot Certificate Operation options, specifies the date and time in which you must complete the operation.
Certificate Operation Status	This field displays the progress of the certificate operation; for example, <operation type> pending, failed, or successful, where operating type equals the Install/Upgrade, Delete, or Troubleshoot Certificate Operation options. You cannot change the information that displays in this field.
Cisco Unified IP Phone - External Data Locations	
Information	Enter the help text URL for the information button for Cisco IP Phones.
Directory	Enter the URL of the directory server for Cisco IP Phones.
Messages	Enter the voice-messaging access pilot number for Cisco IP Phones.
Services	Enter the URL for the services menu for Cisco IP Phones.
Authentication Server	Enter the URL that the phone uses to validate requests that are made to the phones web server. If you do not provide an authentication URL, the advanced features on the Cisco Unified IP Phone models that require authentication will not function. Leave this field blank to accept the default setting. By default, this URL accesses a Cisco Unified IP Phone User Options window that was configured during installation.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Proxy Server	Enter the host and port (for example, proxy.cisco.com:80) that are used to proxy HTTP requests for access to non-local host addresses from the phones HTTP client. If the phone receives a URL such as www.cisco.com in a service and the phone is not configured in the cisco.com domain, the phone uses the proxy server to access the URL. If the phone is configured in the cisco.com domain, the phone accesses the URL without using the proxy because it is in the same domain as the URL. Leave this field blank to accept the default setting.
Idle	Enter the URL of the XML service that will appear as the idle display on the Cisco Unified IP Phone LCD screen when the phone has not been used for the time that is specified in the Idle Time field. For example, you can display a logo on the LCD screen when the phone has not been used for 5 minutes. Leave this field blank to use the default value.
Idle Timer	Enter the seconds that you want to elapse before the phone displays the URL that is specified in the Idle field. Leave this field blank to use the default value.
Extension Mobility (Device Profile) Information	
Enable Extension Mobility Feature	Check this check box to enable the extension mobility feature. Extension mobility allows a user to log in and out of a Cisco IP Phone. Refer to the *Cisco Unified CallManager Features and Services Guide* for more information about extension mobility.
Log Out Profile	Choose the profile that a phone should load when an extension mobility user logs out. You must configure logout profiles in Cisco Unified CallManager Administration. Use Current Device Setting—This choice creates an autogenerated device profile as the default device profile. Select a User Device Profile—This choice assigns a user device profile, which has already been defined, that becomes the default device profile for this device. The chosen user device profile gets loaded onto the device when no user is logged in.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
MultiLevel Precedence and Preemption (MLPP) Information	
MLPP Indication	If available, this setting specifies whether a device capable of playing precedence tones will use the capability when it places an MLPP precedence call. From the drop-down list box, choose a setting to assign to this device from the following options: • **Default**—This device inherits its MLPP indication setting from its device pool. • **Off**—This device does not send indication of an MLPP precedence call. • **On**—This device does send indication of an MLPP precedence call. **Note** Do not configure a device with the following combination of settings: MLPP Indication is set to *Off* while MLPP Preemption is set to *Forceful*.
MLPP Preemption	If available, this setting specifies whether a device that is capable of preempting calls in progress will use the capability when it places an MLPP precedence call. From the drop-down list box, choose a setting to assign to this device from the following options: • **Default**—This device inherits its MLPP preemption setting from its device pool. • **Disabled**—This device does not preempt calls in progress when it places an MLPP precedence call. • **Forceful**—This device preempts calls in progress when it places an MLPP precedence call. **Note** Do not configure a device with the following combination of settings: MLPP Indication is set to *Off* while MLPP Preemption is set to *Forceful*.
MLPP Domain (e.g., "0000FF")	Enter a hexadecimal value for the MLPP domain associated with this device. Must be blank or a value between 0 and FFFFFF.
H.323 Device Information	
Signaling Port	The value designates the H.225 signaling port that this device uses. The default value specifies 1720. Valid values include 1 through 65535.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Retry Video Call as Audio	This check box applies only to video endpoints that receive a call. If this phone receives a call that does not connect as video, the call tries to connect as an audio call. By default, the system checks this check box to specify that the sending device should immediately retry a video call that does not connect as an audio call prior to sending the call to call control for rerouting. If you uncheck this check box, a video call that fails to connect as video fails to call control. At this point, call control reroutes the call within the route list. If Automatic Alternate Routing (AAR) is configured and enabled, call control also reroutes the call between route lists.
Wait for Far End H.245 Terminal Capability Set	By default, the system keeps this check box checked to specify that Cisco Unified CallManager should initiate capabilities exchange. This check box specifies that the Cisco Unified CallManager needs to receive the far-end H.245 Terminal Capability Set before it sends its H.245 Terminal Capability Set.
H.323 Protocol Specific Information	
SRTP Allowed	When this check box is checked, IPSec needs to be configured in the network to provide end to end security. Failure to do so will expose keys and other information.
MTP Preferred Originating Codec	From the drop-down list box, choose the codec to use if a media termination point is required for SIP calls.
Media Termination Point Required	Use this field to indicate whether a media termination point (MTP) is used to implement features that H.323 does not support (such as hold and transfer). Check the Media Termination Point Required check box if you want to use a media termination point to implement features. Uncheck the Media Termination Point Required check box if you do not want to use a media termination point to implement features. Use this check box only for H.323 clients and those H.323 devices that do not support the H.245 empty capabilities set or if you want media streaming to terminate through a single source. If you check this check box to require an MTP and this device becomes the endpoint of a video call, the call works as audio only.
H.323 Information	
Outgoing Caller ID Pattern	For incoming calls to the phone, enter the pattern, from 0 to 24 digits, that you want to use for caller ID.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Calling Party Selection	Choose one of the following options to specify which directory number is sent: • Originator—Send the directory number of the calling device. • First Redirect Number-—Send the directory number of the redirecting device. • Last Redirect Number—Send the directory number of the last device to redirect the call. • First Redirect Number(external)—Send the directory number of the redirecting device. • Last Redirect Number(external)—Send the directory number of the last device to redirect the call.
Calling Party Presentation	Choose whether the central office transmits or blocks caller ID: • Choose Allowed if you want the central office to send caller ID. • Choose Restricted if you do not want the central office to send caller ID. • Default displays the caller ID unless the caller ID was restricted in a previous level in the call stream.
Display IE Delivery	Check the check box to deliver the display information element (IE) in SETUP and CONNECT messages for the calling and called party name delivery service.
Redirecting Number IE Delivery—Outbound	Check this check box to include the Redirecting Number IE in the outgoing SETUP message from the Cisco Unified CallManager to indicate the first redirecting number and the redirecting reason of the call when the call is forwarded. Uncheck the check box to exclude the first redirecting number and the redirecting reason from the outgoing SETUP message. Use Redirecting Number IE for voice-messaging integration only. If your configured voice-messaging system supports Redirecting Number IE, check the check box.
Redirecting Number IE delivery—Inbound	Use Redirecting Number IE when you are integrating a voice-messaging system that supports Redirecting Number IE. Check this check box to accept the Redirecting Number IE in the incoming SETUP message to the Cisco Unified CallManager. Uncheck the check box to exclude the Redirecting Number IE in the incoming SETUP message to the Cisco Unified CallManager.
Gatekeeper Information	

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Gatekeeper Name	Choose the gatekeeper for the gatekeeper-controlled H.323 device from the drop-down list box. **Note** If you do not choose the device, the system disables the E.164, Technology Prefix, and Zone fields. **Note** You cannot change the device to a gatekeeper-controlled phone if more than one directory number is configured for the device.
E.164	Choose the E.164 address that is registered with the gatekeeper. **Note** Ensure the H.323 client is configured as a gatekeeper-controlled device. **Note** You must enter a value in this field for a gatekeeper-controlled H.323 client. You can enter only numbers (0-9) and special characters # and * in this field.
Technology Prefix	Enter the technology prefix to eliminate the need for entering the IP address for every Cisco Unified CallManager system when configuring the **gw-type-prefix** command. For example, you can enter 1#* in this field if you can use the following gw-type-prefix command on the gatekeeper: **gw-type-prefix 1#* default-technology**. **Note** You must enter a value in this field for a gatekeeper-controlled H.323 client. You can enter only numbers (0-9) and special characters # and * in this field.
Zone	On the Gatekeeper, enter the specific zone with which Cisco Unified CallManager will register. The zone specifies the total bandwidth that is available for calls between this zone and another zone. **Note** You must enter a value in this field for a gatekeeper-controlled phone. You can enter only letters, numbers, spaces, dashes, dots, and underscores in this field.
Gatekeeper Controlled H.323 Client	Check this check box to configure the H.323 client gatekeeper as a controlled gatekeeper.
Secure Shell Information	
Secure Shell User	Enter a user ID for the secure shell user. If the phone you are configuring does not support secure shell access, this field does not display. Cisco Technical Assistance Center (TAC) uses secure shell for troubleshooting. Contact TAC for further assistance.
Secure Shell Password	Enter the password for a secure shell user. If the phone you are configuring does not support secure shell access, this field does not display. Contact TAC for further assistance.

Table 3-1 Field Descriptions for a Phone Template (continued)

Field	Description
Product-Specific Configuration	
Model-specific configuration fields defined by the device manufacturers	The device manufacturer specifies the model-specific fields under product-specific configuration. Because they are dynamically configured, they can change without notice. To view field descriptions and help for product-specific configuration items, click the "**?**" information icon to the right of the Product Specific Configuration heading to display help in a popup dialog box. If you need more information, refer to the documentation for the specific device that you are configuring or contact the manufacturer.

Note To continue configuring the BAT phone template, go to the "Creating a New BAT Phone Template" section on page 3-4

Field Descriptions for Adding a Line to a BAT Template

Table 3-2 provides descriptions of all possible fields that display when you are adding a line in a BAT phone, gateway, or UDP template. Some device types do not require all the phone settings.

Some fields display the values that were configured in Cisco Unified CallManager Administration.

In the BAT user interface, field names that have an asterisk require an entry. Treat fields that do not have asterisk as optional.

For related procedures, see the "Related Topics" section on page 3-43.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template

Field	Description
Directory Number Information	
Line Template Name	Enter a unique name for the line template.
Route Partition	Choose a route partition to which the directory number belongs. **Note** The directory number can appear in more than one partition.
Description	Enter description for the line template
Alerting Name	This name represents the name that displays during an alert to a shared directory number. For non-shared directory numbers, during alerts, the system uses the name that is entered in the Display field.
Alerting Name ASCII	This field provides the same information as the Alerting Name field, but you must limit input to ASCII characters. Devices that do not support Unicode (internationalized) characters display the content of the Alerting Name ASCII field.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Active	To view this check box on the Directory Number Configuration window, access an unassigned directory number from the Route Plan Report window. Checking this check box allows calls to this DN to be forwarded (if forwarding is configured). If check box is not checked, Cisco Unified CallManager ignores the DN.
Directory Number Settings	
Voice Mail Profile	Choose this parameter to make the pilot number the same as the directory number for this line. This action proves useful if you do not have a voice-messaging server that is configured for this phone.
Calling Search Space	Choose partitions that are searched for numbers that are called from this directory number. **Note** Changes cause an update of Pickup Group Names that are listed in the Call Pickup Group field. The setting applies to all devices that are using this directory number.
Presence Group	Used with the Presence feature, the directory number serves as the presence entity; that is, watchers request the status of the directory number, so the real-time status of the directory number displays on the device. If you want the phone to receive the status of the presence entity, make sure that the Presence group of the watcher is allowed to view the status of the Presence group that is applied to the directory number, as indicated in the Presence Group Configuration window. For information on the Presence feature, refer to the *Cisco Unified CallManager Features and Services Guide*.
AAR Group	Choose the automated alternate routing (AAR) group for this device. The AAR group provides the prefix digits that are used to route calls that are otherwise blocked due to insufficient bandwidth. Set AAR Group to <None> to prevent rerouting blocked calls.
User Hold Audio Source	Choose the music on hold audio source to be played when the user presses HOLD to place a call on hold.
Network Hold Audio Source	Choose the music on hold audio source to be played when the system places a call on hold while the user transfers a call or initiates a conference or call park.
Call Forward and Pickup Settings	
Forward All Voice Mail	Check this check box if you want calls to forward to the number that you chose in the voice-mail profile. Checking this check box makes the Forward All Destination field and Forward All Calling Search Space check box not relevant.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Forward All Destination	Enter the directory number to which all calls are forwarded. **Note** The setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward All Calling Search Space	Choose the calling search space to use when calls are forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Secondary Calling Search Space for Forward All	Choose the secondary calling search space (CSS) from the drop-down list box. Because Call Forwarding is a line-based feature, in cases where the device calling search space is unknown, only the line calling search space is used to forward the call. If the line calling search space is restrictive and not routable, the forward attempt fails. Addition of a secondary calling search space for Call Forward All provides a solution to enable forwarding. The primary calling search space for Call Forward All and secondary calling search space for Call Forward All get concatenated (Primary CFA CSS + Secondary CFA CSS) when processing Call Forward All. Cisco Unified CallManager uses this combination to validate the CFA destination and to forward the call.
Forward Busy Internal Voice Mail	Check this check box if you want calls from an internal number forwarded to a number that you chose in the voice-mail profile. Checking this check box makes the Forward Busy Internal Destination field and Calling Search Space check box not relevant.
Forward Busy Internal Destination	Enter the directory number to which an internal call is forwarded when the line is in use. **Note** This setting applies to any internal dialable phone number and to all devices that are using this directory number.
Forward Busy Internal Calling Search Space	Choose the calling search space to use when internal calls are forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Forward Busy External Voice Mail	Check this check box if you want calls from an external number forwarded to a number that you chose in the voice-mail profile. Checking this check box makes the Forward Busy External Destination field and Calling Search Space check box not relevant.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Forward Busy External Destination	Enter the directory number to which an external call is forwarded when the line is in use. **Note** This setting applies to any dialable external phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward Busy External Calling Search Space	Choose the calling search space to use when external calls are forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Forward No Answer Internal Voice Mail	Check this check box if you want calls from an internal number forwarded to the number that you chose in the voice-mail profile. Checking this check box makes the Forward No Answer Internal Destination field and Calling Search Space check box not relevant.
Forward No Answer Internal Destination	Enter a directory number to which an internal call is forwarded when the phone is not answered. **Note** This setting applies to any internal dialable phone number and to all devices that are using this directory number.
Forward No Answer Internal Calling Search Space	Choose the calling search space to use when internal calls are forwarding to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward No Answer External Voice Mail	Check this check box if you want calls to forward to an external number that you chose in the voice-mail profile. Checking this check box makes the Forward No Answer Externally Destination field and External Calling Search Space check box are not relevant.
Forward No Answer External Destination	Enter a directory number to which an external call is forwarded when the phone is not answered. **Note** This setting applies to any external dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward No Answer External Calling Search Space	Choose the calling search space to use when external calls are forwarding to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Forward No Coverage Internal Voice Mail	Check this check box if you want calls from an internal number forwarded to the number that you chose in the voice-mail profile. Checking this check box makes the Forward No Answer Destination field and Calling Search Space check box not relevant.
Forward No Coverage Internal Destination	Enter an directory number to which an internal call is forwarded when the phone has no coverage. **Note** This setting applies to any internal dialable phone number and to all devices that are using this directory number.
Forward No Coverage Internal Calling Search Space	Choose the calling search space to use when internal calls are forwarding to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward No Coverage External Voice Mail	Check this check box if you want calls from external number forwarded to the number that you chose in the voice-mail profile. Checking this check box makes the Forward No Answer Destination field and Calling Search Space check box not relevant.
Forward No Coverage External Destination	Enter a directory number to which an external call is forwarded when the phone has no coverage. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward No Coverage External Calling Search Space	Choose the calling search space to use when external calls are forwarding to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Forward on CTI Failure Voice Mail	The Forward on CTI Failure field applies only to CTI route points and CTI ports. The settings in this row specify the forwarding treatment for external calls to this CTI route point or CTI port if the CTI route point or CTI port fails. Check this check box to use settings in the Voice Mail Profile Configuration window. When this check box is checked, Cisco Unified CallManager ignores the settings in the Destination box and Calling Search Space. When this check box is checked for internal calls, the system automatically checks the Voice Mail check box for external calls. If you do not want external calls to forward to the voice-messaging system, you must uncheck the Voice Mail check box for external calls.
Forward on CTI Failure Destination	This setting specifies the directory number to which an internal nonconnected call is forwarded when an application that controls that directory number fails. Use any dialable phone number, including an outside destination. When you enter a destination value for internal calls, the system automatically copies this value to the Destination field for external calls. If you want external calls to forward to a different destination, you must enter a different value in the Destination field for external calls.
Forward on CTI Failure Calling Search Space	This setting applies to all devices that are using this directory number. When you choose a Calling Search Space for internal calls, the system automatically copies this setting to the Calling Search Space setting for external calls. If you want external calls to forward to a different calling search space, choose a different setting in the Calling Search Space for external calls.
No Answer Ring Duration	Enter the number of seconds to allow the call to ring before forwarding the call to the Forward No Answer Destination.
Call Pickup Group	Choose a Pickup Group Name to specify the call pickup group, which can answer incoming calls to this directory number by dialing the appropriate pickup group number.
Multilevel Precedence and Preemption Alternate Party Settings	
Target (Destination)	Enter the number to which MLPP precedence calls should be directed if this directory number receives a precedence call and neither this number nor its call forward destination answers the precedence call. Values can include numeric characters, pound (#), and asterisk (*).
MLPP Calling Search Space	From the drop-down list box, choose the calling search space to associate with the alternate party target (destination) number.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
MLPP No Answer Ring Duration (Seconds)	Enter the number of seconds (between 4 and 30) after which an MLPP precedence call will be directed to the alternate party of this directory number if this directory number and its call forwarding destination have not answered the precedence call. Leave this setting blank to use the value that is set in the Cisco Unified CallManager enterprise parameter, Precedence Alternate Party Timeout.
Line Settings for This Phone	
Display (Internal Caller ID)	Use this field only if you do not want the directory number to show on the line appearance. Enter text that identifies this directory number for a line/phone combination. Suggested entries include boss's name, department's name, or other appropriate information to identify multiple directory numbers to secretary/assistant who monitors multiple directory numbers.
Line Text Label	Enter text that identifies this directory number for a line/phone combination. **Note** The default language specifies English
External Phone Number Mask	Enter the phone number (or mask) that is sent for Caller ID information when a call is placed from this line. You can enter a maximum of 24 numbers and "X" characters. The Xs represent the directory number and must appear at the end of the pattern. For example, if you specify a mask of 972813XXXX, an external call from extension 1234 displays a caller ID number of 9728131234.
Message Waiting Lamp Policy	Use this field to configure the handset lamp illumination policy. Choose one of the following options: • Use System Policy (The directory number refers to the service parameter "Message Waiting Lamp Policy" setting.) • Light and Prompt • Prompt Only • Light Only • None Setting applies only to the current device unless you check the check box at right (called Update Shared Device Settings) and click the **Propagate selected** button. (The check box at right displays only if other devices share this directory number.)

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Ring Setting (Phone Idle)	Choose the ring setting for the line appearance when an incoming call is received and no other active calls exist on that device. Choose one of the following options: • Use system default • Disable • Flash only • Ring once • Ring
Ring Setting (Phone Active)	Choose the ring setting that is used when this phone has another active call on a different line. Choose one of the following options: • Use system default • Disable • Flash only • Ring once • Ring • Beep only
Multiple Call/Call Waiting Settings	
Maximum Number of Calls	You can configure up to 184 calls for a line on a device in a cluster, with the limiting factor being the device. As you configure the number of calls for one line, the calls available for another line decrease. The default specifies 4. If the phone does not allow multiple calls for each line, the default specifies 2. For CTI route points, you can configure up to 10,000 calls for each port. The default specifies 5000 calls. Use this field in conjunction with the Busy Trigger field.
Busy Trigger	This setting, which works in conjunction with Maximum Number of Calls and Call Forward Busy, determines the maximum number of calls to be presented at the line. If maximum number of calls is set for 50 and the busy trigger is set to 40, then incoming call 41 gets rejected with a busy cause (and will get forwarded if Call Forward Busy is set). If this line is shared, all the lines must be busy before incoming calls get rejected. Use this field in conjunction with Maximum Number of Calls for CTI route points. The default specifies 4500 calls.
Forwarded Call Information Display for this Device	
Caller Name	Check this check box to include the caller's name in the display when a forwarded call is received. Default leaves this check box checked.

Table 3-2 Field Descriptions for Adding a Line to a BAT Template (continued)

Field	Description
Caller Number	Check this check box to include the caller's number in the display when receiving a forwarded call.
Redirected Number	Check this check box to include the redirected number in the display when receiving a forwarded call.
Dialed Number	Check this check box to include the dialed number in the display when a forwarded call is received. The default setting leaves this check box checked.

Note To complete the procedure for phones and UDPs, go to the "Adding or Updating Lines in a BAT Template" section on page 3-4. To complete the updates for gateways, see Chapter 43, "Gateway Template."

Note You can edit the device or line by choosing device name in the Associated Devices list box and clicking **Edit Device** or **Edit Line Appearance**.

Using the BAT Spreadsheet to Create a CSV Data File for Phones

When you are adding new phones or IP telephony devices to the system, you can use the Microsoft Excel spreadsheet that was designed to use with BAT. The spreadsheet has macros that automatically adjust the options for the selected devices. You can define the file format within the spreadsheet, and the BAT spreadsheet uses the data file formats to display the fields for the CSV data file.

Use the following procedure to create the CSV data file by using the BAT spreadsheet for adding new phones and other IP telephony devices.

For information about installing and using the BAT spreadsheet, see the "Using the BAT Spreadsheet for Gathering Data" section on page 1-8.

Procedure

Step 1 To open the BAT spreadsheet, locate and double-click the **BAT.xlt** file

Step 2 When prompted, click **Enable Macros** to use the spreadsheet capabilities.

Step 3 To display the phones options, click the **Phones** tab at the bottom of the spreadsheet.

Step 4 Choose a radio button for one of the following device types:

- Phones
- CTI Port
- H.323 Client
- VGC Phones
- VGC Virtual Phones

The spreadsheet displays options that are available for the chosen device. For example, when you choose Phones, fields for the number of phone lines and the number of speed dials display.

Note The device type that you select determines the validation criteria for data in the BAT spreadsheet.

Step 5 To choose the device and line fields that you can define for each phone, click **Create File Format**. The Field Selection popup window displays.

Step 6 To choose the device fields, click a device field name in the Device Field box, and then click the arrow to move the field to the Selected Device Fields box.

A CSV data file must include MAC Address/Device Name, and Description; therefore, these fields always remain selected.

Tip You can select a range of items in the list by holding down the Shift key. To select random field names, hold down the Ctrl key and click field names.

Step 7 Click a line field name in the Line Field box and click the arrow to move the field to the Selected Line Fields box.

Tip You can change the order of the items in the Selected Line and Device boxes. Choose an item and use the up arrow to move the field closer to the beginning of the list, or the down arrow to move the item to the end of the list.

Step 8 Click **Create** to modify the CSV data file format. A message asks whether you want to overwrite the existing CSV format.

Step 9 Click **OK**. New columns for the selected fields display in the BAT spreadsheet in the order that you specified.

Step 10 Scroll to the right to locate the Number of Phone Lines box. The number of lines that you specify here must not exceed the number of lines that are configured in the BAT template.

Note When you insert a CSV data file, the number of lines on phones must not exceed the number of lines in the BAT phone template, or you receive an error.

Step 11 For phones, you must enter the number of speed-dial buttons in the Number of Speed Dials box. After you enter the number, columns display for each speed-dial number.

Note When you insert the data records, do not exceed the number of speed dials that are configured in the BAT template, or an error will result when the CSV data file and BAT phone template are inserted.

Step 12 Enter data for an individual phone on each line in the spreadsheet. Complete all mandatory fields and any relevant optional fields. Each column heading specifies the length of the field and whether it is required or optional. Table 3-3 describes all the phone fields in the BAT spreadsheet.

Step 13 If you did not enter the MAC address for each phone, check the **Create Dummy MAC Address** check box.

When you choose the dummy MAC address option, you can update the phones later with the correct MAC address by manually entering this information into Cisco Unified CallManager Administration or by using the Unified CM Auto-Register Phone Tool tool. See the "Introducing Cisco Unified CM Auto-Register Phone Tool" section on page 52-2 for more information about Unified CM Auto-Register Phone Tool.

Note If you are adding CTI ports, the dummy MAC address option gives a unique device name to each CTI port in the form of the dummy MAC addresses.
Do not use the dummy MAC address option for H.323 clients, VGC phones, or VGC virtual phones.

Step 14 To transfer the data from the BAT Excel spreadsheet into a CSV formatted data file, click **Export to BAT Format**.

The system saves the file to your choice of a folder on your local workstation under the following filename:

<tabname>-<timestamp>.txt

where <tabname> represents the type of input file that you created, such as phones, and <timestamp> represents the precise date and time that the file was created.

Note If you enter a comma in one of the fields, BAT.xlt encloses that field entry in double quotes when you export to BAT format.
If you enter a blank row in the spreadsheet, the system treats the empty row as the end of the file. The system does not convert data that is entered after a blank line to the BAT format.

Note A CSV filename with a comma (for example, abcd,e.txt) cannot be uploaded to the Cisco Unified CallManager server.

You must upload the CSV data file to the Cisco Unified CallManager first node database server, so BAT can access the CSV data file. For more information on uploading and downloading files, see Chapter 2, "Uploading and Downloading Files."

Note For information on how to read the exported CSV data file, click the link to **View Sample File** in the Insert Phones window in BAT.

Additional Topics

See the "Related Topics" section on page 3-43.

Field Descriptions for Phones in the BAT Spreadsheet

Table 3-3 provides descriptions of the phone fields that are available for adding device and line details in a CSV data file. For related procedures, see the "Related Topics" section on page 3-43.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet

Field	Description
Device Fields	
MAC Address/Device Name	Enter the MAC address for phones, VGC virtual phones, and VGC phones. Enter a unique identifier (Device Name) for the CTI port or H.323 client. You can check the **Create Dummy MAC Addresses** check box to automatically generate unique device identifiers.
Description	Enter a description such as “Conference Room A” or “John Smith” that identifies the phone or device.
Media Resource Group List	Enter the media resource group list (MRGL) for this group of phones/ports. An MRGL specifies a list of prioritized media resource groups. An application can choose required media resources from the available ones according to the order that is defined in the MRGL.
User Hold Audio Source	Enter the user hold audio source that this group of IP phones or CTI ports should use. The user hold audio source identifies the audio source from which music is played when a user places a call on hold.
Network Hold Audio Source	Enter the network hold audio source that this group of IP phones or CTI ports should use. The network hold audio source identifies the audio source from which music is played when the system places a call on hold, such as when the user transfers or parks a call.
User Locale	Enter the country and language set that you want to associate with this group of IP phones. This choice determines which cultural-dependent attributes exist for this user and which language displays for the user in the Cisco Unified CallManager user windows and phones.
Network Locale	Enter the network locale that you want to associate with this group of phones. The Network Locale comprises a set of tones and cadences that Cisco gateways and phones use when communicating with the PSTN and other networks in a specific geographical area.
Softkey Template	Enter the softkey template to be used for all phones in this group.
Common Phone Profile	From the drop-down list box, choose a common phone profile from the list of available common phone profiles.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Presence Group	Used with the Presence feature, the SIP or SCCP phone serves as a watcher because it requests status about the presence entity, for example, directory number, that is configured as a BLF speed dial button on the phone. If you want the phone to receive the status of the presence entity, choose a Presence group that is allowed to view the status of the Presence group that is applied to the directory number, as indicated in the Presence Group Configuration window. **Tip** For more information on the Presence feature, refer to the *Cisco Unified CallManager Features and Services Guide*.
Phone Load Name	Enter the custom phone load, if applicable. **Note** Any value that is entered in this field overrides the default value for the chosen model. Value does not apply for CTI ports.
Security Profile	Enter the security profile that you want to apply to the device. If the phone does not support the profile that you choose, Cisco Unified CallManager does not allow you to apply the configuration. All phones require that you apply a security profile. If the phone does not support security, choose a nonsecure profile.
SUBSCRIBE Calling Search Space	Used with the Presence feature, the SUBSCRIBE Calling Search Space determines how Cisco Unified CallManager routes the subscription requests that come from the phone. From the drop-down list box, choose the calling search space that you want to use for this purpose. **Tip** For more information on the Presence feature, refer to the *Cisco Unified CallManager Features and Services Guide*.
E.164	Choose the E.164 address that is registered with the gatekeeper. **Note** Ensure the H.323 client is configured as a gatekeeper-controlled device. **Note** You must enter a value in this field for a gatekeeper-controlled H.323 client. You can enter only numbers (0-9) and special characters # and * in this field.
User ID	Enter the user ID for the phone user.
Media Resource Group List	This list provides a prioritized grouping of media resource groups. An application chooses the required media resource, such as a Music On Hold server, from among the available media resources according to the priority order that is defined in a Media Resource List.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
AAR Calling Search Space	Enter the appropriate calling search space for the device to use when it performs automated alternate routing (AAR). The AAR calling search space specifies the collection of route partitions that are searched to determine how to route a collected (originating) number that is otherwise blocked due to insufficient bandwidth.
MLPP Domain	Enter a hexadecimal value for the MLPP domain associated with this device. Must be blank or a value between 0 and FFFFFF
MLPP Indication	If available, this setting specifies whether a device capable of playing precedence tones will use the capability when it places an MLPP precedence call. • **Default**—This device inherits its MLPP indication setting from its device pool. • **Off**—This device does not handle nor process indication of an MLPP precedence call. • **On**—This device does handle and process indication of an MLPP precedence call.
MLPP Preemption	If available, this setting specifies whether a device that is capable of preempting calls in progress will use the capability when it places an MLPP precedence call. • **Default**—This device inherits its MLPP indication setting from its device pool. • **Off**—This device does not handle nor process indication of an MLPP precedence call. • **On**—This device does handle and process indication of an MLPP precedence call.
Packet Capture Mode	Enter the mode that you want to set for signal packet capture: • None—Choose None if you do not want to specify a mode. • Real-Time Mode—Use this mode for real-time signal packet capture. • Batch Processing Mode—Use this mode for batch processing signal packet capture mode.
Packet Capture Duration	Enter the time for packet capture in minutes. You can enter a maximum duration of 300 minutes.
Authentication String	Enter a numeric string that contains 4 to 10 digits. To install, upgrade, or troubleshoot a locally significant certificate, the phone user or administrator must enter the authentication string on the phone.
Ignore Presentation Indicator	Enter **Yes** or **No** to configure call display restrictions on a call-by-call basis. When this check box is checked, Cisco Unified CallManager ignores any presentation restriction that is received for internal calls.
SIP Profile	Enter the default SIP profile or a specific profile that was previously created. SIP profiles provide specific SIP information for the phone such as default telephony event payload type, registration and keep alive timers, media ports, Iris, and dynamic DNS server addresses.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Digest User	Used with digest authentication (SIP security), choose an end user that you want to associate with the phone. Ensure that you configured digest credentials for the user that you choose, as specified in the End User Configuration window. After you save the phone configuration and reset the phone, the digest credentials for the user get added to the phone configuration file. For more information on digest authentication, refer to the Cisco Unified CallManager Security Guide.
Log Out Profile	Enter the profile that a phone should load when an extension mobility user logs out. You must configure logout profiles in Cisco Unified CallManager Administration. Use Current Device Setting—This choice creates an autogenerated device profile as the default device profile. Select a User Device Profile—This choice assigns a user device profile, which has already been defined, that becomes the default device profile for this device. The chosen user device profile gets loaded onto the device when no user is logged in.
SIPCodec_MTPPreferredOrigCodec	Enter the codec to use if a media termination point is required for SIP calls.
Dial Rules	If required, enter the appropriate SIP dial rule. SIP dial rules provide local dial plans for Cisco SIP IP Phones model 7905, 7912, 7940, and 7960, so that users do not have to press a key or wait for a timer before the call gets processed. Leave the SIP Dial Rules field set to <None> if you do not want dial rules applied to the SIP IP Phone. This means the user will have to use the Dial softkey or wait for the timer to expire before the call gets processed.
Calling Search Space Reroute	Enter a calling search space to use for rerouting. The rerouting calling search space of the referrer gets used to find the route to the refer-to target. When the Refer fails due to the rerouting calling search space, the Refer Primitive rejects the request with the "405 Method Not Allowed" message. The redirection (3xx) primitive and transfer feature also uses the rerouting calling search space to find the redirect-to or transfer-to target.
Calling Search Space Refer	Enter an out-of-dialog refer calling search space. Cisco Unified CallManager uses the out-of-dialog (OOD) Refer Authorization calling search space (CSS) to authorize the SIP out-of-dialog Refer. The administrator can restrict the use of out-of-dialog Refer by configuring the OOD CSS of the Referrer. Refer Primitive rejects the OOD Refer request with a "403 Forbidden" message.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Certificate Operation	Enter the Certification Operation that you want to perform from the following options: • No Pending Operation—No pending Certification Operation lists for this device. Choosing this option disables the remaining CAPF fields. • Install/Upgrade—Install or upgrade a Certification Operation. • Delete—Delete a Certification Operation • Troubleshoot—Troubleshoot a Certification Operation.
Certificate Operation Completion Time	This field, which supports the Install/Upgrade, Delete, and Troubleshoot Certificate Operation options, specifies the date and time in which you must complete the operation.
Secure Shell User	Enter a user ID for the secure shell user. If the phone you are configuring does not support secure shell access, this field does not display. Cisco Technical Assistance Center (TAC) uses secure shell for troubleshooting. Contact TAC for further assistance.
Secure Shell Password	Enter the password for a secure shell user. If the phone you are configuring does not support secure shell access, this field does not display. Contact TAC for further assistance.
Device Pool	Enter the appropriate device pool. The device pool specifies a collection of properties for this device including CallManager Group, Date/Time Group, Region, and Calling Search Space for auto registration of devices.
Built-in Bridge	Enter On, Off, or Default to enable or disable the built-in conference bridge for the barge feature. For more configuration information, refer to the Barge and Privacy Features in the *Cisco Unified CallManager Features and Services Guide*.
Calling Search Space	Enter the appropriate calling search space. A calling search space comprises a collection of partitions that are searched for numbers that are called from this phone number. The value that you choose applies to all devices that are using this phone number. For configuration information about calling search space refer to *Cisco Unified CallManager Administration Guide*.
Location	Choose the appropriate location for this phone. A location setting of Hub_None means that the locations feature does not keep track of the bandwidth that this phone consumes.
Module 1	Enter the appropriate expansion module or none.
Module 1 Load Name	Enter the custom software for the appropriate expansion module, if applicable. The value that you enter overrides the default value for the current model. Ensure the firmware load matches the module load.
Module 2	Enter the appropriate expansion module or none.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Module 2 Load Name	Module 2 Load Name Enter the custom software for the second expansion module, if applicable. The value that you enter overrides the default value for the current model. Ensure the firmware load matches the module load.
Phone Template	Enter the phone template name that you created for this type of bulk transaction.
Authentication Server	Enter the URL that the phone uses to validate requests that are made to the phones web server. If you do not provide an authentication URL, the advanced features on the Cisco Unified IP Phone models that require authentication will not function. Leave this field blank to accept the default setting. By default, this URL accesses a Cisco Unified IP Phone User Options window that was configured during installation.
Proxy Server	Enter the host and port (for example, proxy.cisco.com:80) that are used to proxy HTTP requests for access to non-local host addresses from the phones HTTP client. If the phone receives a URL such as www.cisco.com in a service and the phone is not configured in the cisco.com domain, the phone uses the proxy server to access the URL. If the phone is configured in the cisco.com domain, the phone accesses the URL without using the proxy because it is in the same domain as the URL.
Idle	Enter the URL of the XML service that will appear as the idle display on the Cisco Unified IP Phone LCD screen when the phone has not been used for the time that is specified in the Idle Time field. For example, you can display a logo on the LCD screen when the phone has not been used for 5 minutes.
Idle Timer	Enter the seconds that you want to elapse before the phone displays the URL that is specified in the Idle field.
Owner User ID	Enter a user ID for the primary phone user.
Line Fields (Optional)	
Directory Number	Enter the directory number, up to 24 digits and special characters, for the phone.
Route Partition	Enter a route partition to which the directory number belongs. **Note** The directory number can appear in more than one partition.
Display	Enter the text that you want to display on the called party's phone display, such as the user name (John Smith) or phone location (Conference Room 1). **Note** If this filed is left blank the system uses the value that is entered in the Directory Number field. **Note** The default language specifies English.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Line Text Label	Enter text that identifies this directory number for a line/phone combination. **Note** The default language specifies English
Voice Mail Profile	Enter this parameter to make the pilot number the same as the directory number for this line. This action proves useful if you do not have a voice-messaging server that is configured for this phone.
Line Calling Search Space	Enter partitions that are searched for numbers that are called from this directory number. **Note** Changes cause an update of Pickup Group Names that are listed in the Call Pickup Group field. The setting applies to all devices that use this directory number.
AAR Group	Enter the automated alternate routing (AAR) group for this device. The AAR group provides the prefix digits that are used to route calls that are otherwise blocked due to insufficient bandwidth. Set AAR Group to <None> to prevent rerouting blocked calls.
Line User Hold Audio Source	Enter the music on hold audio source to be played when the user presses Hold and places a call on hold.
Line Network Hold Audio Source	Enter the music on hold audio source to be played when the system places a call on hold while the user transfers a call or initiates a conference or call park.
Forward All CSS	Choose the calling search space to use when a call is forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Secondary Calling Search Space for Forward All	Enter the secondary calling search space (CSS) from the drop-down list box. Because Call Forwarding is a line-based feature, in cases where the device calling search space is unknown, only the line calling search space is used to forward the call. If the line calling search space is restrictive and not routable, the forward attempt fails. Addition of a secondary calling search space for Call Forward All provides a solution to enable forwarding. The primary calling search space for Call Forward All and secondary calling search space for Call Forward All get concatenated (Primary CFA CSS + Secondary CFA CSS) when processing Call Forward All. Cisco Unified CallManager uses this combination to validate the CFA destination and to forward the call.
Forward All Destination	Enter the directory number to which all calls are forwarded. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Forward Busy External CSS	Enter the calling search space to use when a call from an external number is forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Forward Busy Internal CSS	Enter the calling search space to use when a call from an internal number is forwarded to the specified destination. **Note** This setting applies to all devices that are using this directory number.
Forward Busy Destination External	Enter the directory number to which a call that is coming from an external number is forwarded when the line is in use. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward Busy Destination Internal	Enter the directory number to which a call that is coming from an internal number is forwarded when the line is in use. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Calling Search Space Forward No Answer External	Enter the calling search space to use when a call from an external number is forwarded to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward No Answer Internal CSS	Enter the calling search space to use a call from an internal number is forwarded to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward No Answer Destination External	Enter the directory number to which a call that is coming from an external number is forwarded when the phone is not answered. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward No Answer Destination Internal	Enter the directory number to which a call that is coming from an internal number is forwarded when the phone is not answered. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward No Coverage External CSS	Enter the calling search space to use when a call from an external number is forwarded to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Forward No Coverage Internal CSS	Enter the calling search space to use when a call from an internal number is forwarded to the specified destination. The setting displays only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward No Coverage Destination External	Enter the directory number to which a call that is coming from an external number is forwarded when the phone does not have coverage. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Forward No Coverage Destination Internal	Enter the directory number to which a call that is coming from an internal number is forwarded when the phone does not have coverage. **Note** This setting applies to any dialable phone number, including an outside destination unless restricted, and to all devices that are using this directory number.
Calling Search Space Forward on Failure External/Internal	(CTI ports only) Enter the calling search space to use when a call from an internal or external call is forwarded to the specified destination. The setting appears only if it is configured in the system. **Note** This setting applies to all devices that are using this directory number.
Forward on Failure Destination External/Internal	(CTI ports only) Enter the directory number to which a call coming from an internal or an external number should be forwarded when a phone or CTI application fails.
Forward on CTI Failure Destination	This setting specifies the directory number to which an internal nonconnected call is forwarded when an application that controls that directory number fails. Use any dialable phone number, including an outside destination. When you enter a destination value for internal calls, the system automatically copies this value to the Destination field for external calls. If you want external calls to forward to a different destination, you must enter a different value in the Destination field for external calls.
Forward on CTI Failure Calling Search Space	This setting applies to all devices that are using this directory number. When you choose a Calling Search Space for internal calls, the system automatically copies this setting to the Calling Search Space setting for external calls. If you want external calls to forward to a different calling search space, choose a different setting in the Calling Search Space for external calls.
Call Pickup Group	Choose a Pickup Group Name to specify the call pickup group, which can answer incoming calls to this directory number by dialing the appropriate pickup group number.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
External Phone Number Mask	Enter the phone number (or mask) that is sent for Caller ID information when a call is placed from this line. You can enter a maximum of 24 numbers and "X" characters. The Xs represent the directory number and must appear at the end of the pattern. For example, if you specify a mask of 972813XXXX, an external call from extension 1234 displays a caller ID number of 9728131234.
No Answer Ring Duration (CFNA)	Enter the number of seconds to allow the call to ring before forwarding the call to the Forward No Answer Destination.
Target Destination (MLPP)	Enter the number to which MLPP precedence calls should be directed if this directory number receives a precedence call and neither this number nor its call forward destination answers the precedence call. Values can include numeric characters, pound (#) ,and asterisk (*).
Calling Search Space (MLPP)	Enter the calling search space to associate with the alternate party target (destination) number.
No Answer Ring Duration (MLPP)	Enter the number of seconds (between 4 and 30) after which an MLPP precedence call will be directed to this directory number's alternate party if this directory number and its call forwarding destination have not answered the precedence call. Leave this setting blank to use the value that is set in the Cisco Unified CallManager enterprise parameter, Precedence Alternate Party Timeout.
Maximum Number of Calls	You can configure up to 200 calls for a line on a device in a cluster, with the limiting factor being the device. As you configure the number of calls for one line, the calls available for another line decrease. The default specifies 4. If the phone does not allow multiple calls for each line, the default specifies 2. For CTI route points, you can configure up to 10,000 calls for each port. The default specifies 5000 calls. Use this field in conjunction with the Busy Trigger field.
Busy Trigger	This setting, which works in conjunction with Maximum Number of Calls and Call Forward Busy, determines the maximum number of calls to be presented at the line. If maximum number of calls is set for 50 and the busy trigger is set to 40, then incoming call 41 gets rejected with a busy cause (and will get forwarded if Call Forward Busy is set). If this line is shared, all the lines must be busy before incoming calls get rejected. Use this field in conjunction with Maximum Number of Calls for CTI route points. The default specifies 4500 calls.
Alerting Name	This name represents the name that displays during an alert to a shared directory number. For non-shared directory numbers, during alerts, the system uses the name that is entered in the Display field.

Table 3-3 Phone Field Descriptions for the BAT Spreadsheet (continued)

Field	Description
Route Filter	Enter a name in the Route Filter Name field. The name can contain up to 50 alphanumeric characters and can contain any combination of spaces, periods (.), hyphens (-), and underscore characters (_). Ensure each route filter name is unique to the route plan. **Note** Use concise and descriptive names for your route filters. The CompanynameLocationCalltype format usually provides a sufficient level of detail and is short enough to enable you to quickly and easily identify a route filter. For example, CiscoDallasMetro identifies a route filter for toll free, inter-local access and transport area (LATA) calls from the Cisco office in Dallas.
Dial Plan	Enter a dial plan; for example, North American Numbering Plan.
User Hold MOH Audio Source	Enter the audio source to use for music on hold (MOH) when a user initiates a hold action.
Line Network Hold MOH Audio Source	Enter the audio source to use for music on hold (MOH) when the network initiates a hold action.
E.164	Enter the E.164 address that is registered with the gatekeeper. **Note** Ensure the H.323 client is configured as a gatekeeper-controlled device. **Note** You must enter a value in this field for a gatekeeper-controlled H.323 client. You can enter only numbers (0-9) and special characters # and * in this field.

Note To complete the procedure, go to the "Using the BAT Spreadsheet to Create a CSV Data File for Phones" section on page 3-30.

Related Topics

- Adding Phones, page 3-1
- Using BAT Phone Templates, page 3-2
- Creating a New BAT Phone Template, page 3-4
- Adding or Updating Lines in a BAT Template, page 3-4
- Adding or Updating IP Services in a BAT Template, page 3-5
- Adding or Updating Speed Dials in a BAT Template, page 3-6
- Modifying BAT Phone Templates, page 3-7
- Copying a BAT Phone Template, page 3-8
- Deleting Templates, page 3-9
- Field Descriptions for a BAT Phone Template, page 3-9

- Using the BAT Spreadsheet to Create a CSV Data File for Phones, page 3-30
- Field Descriptions for Phones in the BAT Spreadsheet, page 3-32