Native Phone Migration using IVR and Phone Services

Native Phone Migration using IVR and Phone Services Overview

The Phone Migration feature is an easy and intuitive Cisco IP Phone migration solution native to Unified Communications Manager. It minimizes the cost and complexity of replacing deprecated or faulty phones. Using the solution, an end user or an administrator can easily migrate all the settings from an old phone to a new phone with a simple user interface. Solution supports following methods for migrating the phones:

- **Using Self-provisioning IVR Service**

- **Using Phone Migration Service**

- **Using Cisco Unified CM Administration Interface**

Following table provides a quick comparison of the various phone migration options:

Table 1: Different Phone Migration Options and Considerations

	Using Self-provisioning IVR Service	Using Phone Migration Service	Using Unified CM Administration Interface
End user or administrator driven phone migration	End user (Self-service)	End user (Self-service)	Administrator
Auto-registration required	Yes	No	No

	Using Self-provisioning IVR Service	**Using Phone Migration Service**	**Using Unified CM Administration Interface**
Migration steps	• Auto register a new phone • Dial self-provisioning IVR number • Follow the voice prompts	• Plug-in new phone to the network • Key in primary extension and PIN (optional)	• Sign in to Cisco Unified CM Administration interface • Choose "Migrate Phone" option in the Phone Configuration page of the old phone • Enter phone type (model & protocol) and MAC address of the new phone
Administrator involvement	Medium	Low	High

Note While phone migration using Self-provisioning IVR Service and Phone Migration Service facilitates the migration of the phone by an end user as a self-service; administrators, can use these methods to migrate the phone on-behalf of an end-user or common phones (for example, a lobby phone).

Note During phone migration, if the end user does not remember the PIN, administrators should advise the end user to log in to the Self Care Portal to change the PIN, if required.

Enterprise Parameters for Phone Migration

Migration depends on the following two parameters in the Enterprise Parameters Configuration page:

• **When Provisioning a Replacement Phone for an End User**—You can choose either **Retain Existing Phone(s)** (default option) or **Delete the Existing Phone for that End User**. If the **Retain Existing Phone(s)** option is selected, then during migration the old phone is marked as migrated and can be filtered in the Find and List Phones page to generate migration report.

> **Note** If the administrator decides to choose the **Retain Existing Phone(s)** option for phone migration, a total of two licenses will be consumed, that is, one license each for the existing phone and the new phone picked up for migration.

• **Security Profile for Migrated Phone**—This option determines the type of security profile that is applied for a migrated phone (old phone was in secure mode) during phone migration. Choosing the **Non-secure** profile brings up your device in the non-secure mode.

To facilitate secure phone migration, the following Standard Universal Phone Security Profiles templates have been added. Based on the old phone security profile, the new phone chooses one of these new profiles.

• Universal Device Template - Security Profile - Non-Secure

• Universal Device Template - Security Profile – Authenticated

• Universal Device Template - Security Profile – Encrypted

• Universal Device Template - Security Profile - Encrypted - Device_TFTP

• Universal Device Template - Security Profile - Encrypted EC preferred

The following table lists the new devices security profile mappings after phone migration:

Table 2: Phone Security Profile Migration Data

Old Security Profile Settings				New Mapped Profile Name
Device Security Mode	**TFTP Encrypted Configuration**	**Transport Type**	**Key Order**	
Non-Secure	No	TCP	RSA	Universal Device Template - Security Profile - Non-Secure
Authenticated	No	TLS	RSA	Universal Device Template - Security Profile – Authenticated
Encrypted	No	TLS	RSA	Universal Device Template - Security Profile – Encrypted
Encrypted	Yes	TLS	RSA	Universal Device Template - Security Profile - Encrypted - Device_TFTP
Encrypted	Yes	TLS	EC preferred, RSA backup	Universal Device Template - Security Profile - Encrypted - Device_TFTP
Encrypted	No	TLS	EC preferred, RSA backup	Universal Device Template - Security Profile - Encrypted EC preferred

Phone Migration Prerequisites

Using Self-provisioning IVR

Before your end users can use self-provisioning for migration, the following should be configured:

- Enable Auto-registration.

- End users must have a primary extension. Ensure that the primary DN is always Line 1 on the phone or device.

- End users must be associated to a user profile or feature group template that includes a universal line template, universal device template and which has Self-Provisioning enabled.

- Ensure that the right "CTI Route Point" and "Application User" configurations are selected.

- Enable Self-Provisioning IVR service.

Using Phone Migration Service

Before your end users can use Phone Migration Service for migration, the following should be configured:

- Disable Auto-registration.

- End users must have a primary extension. Ensure that the primary DN is always Line 1 on the phone or device.

- Supported Phone Models: 88XX, 78XX, 8832, and 7832.

- Minimum supported phone version is Release 12.8.1 and above.

Phone Migration Task Flow Using Self-Provisioning IVR

Use the following task flow to guide you through the phone migration procedures.

After you complete this workflow, you can configure Self-Provisioning IVR service, migrate old or faulty Cisco IP Phones, and track the migrated phones list.

Procedure

	Command or Action	Purpose
Step 1	Activate Services for Self-Provisioning, on page 5	Activate the **Self-Provisioning IVR** and **CTI Manager** services in Cisco Unified Serviceability.
Step 2	Enable Autoregistration for Self-Provisioning, on page 5	Enable autoregistration parameter for self-provisioning.
Step 3	Configure CTI Route Point, on page 6	Configure a CTI route point to handle the self-provisioning IVR service.

	Command or Action	Purpose
Step 4	Assign a Directory Number to the CTI Route Point, on page 6	Configure the extension that users dial in order to access the self-provisioning IVR and associate that extension to the CTI route point.
Step 5	Configure Application User for Self-Provisioning, on page 7	Configure an application user for the self-provisioning IVR. Associate the CTI route point to the application user.
Step 6	Configure the System for Self-Provisioning, on page 7	Configure Self-Provisioning system settings.
Step 7	Enable Self-Provisioning in a User Profile, on page 8	Enables the users to Self-Provision phones in the user profile to which they are assigned.
Step 8	Migrate phones using any of these procedures: • Migrate Phones Using Self-Provisioning IVR (Administrator), on page 9 • Migrate Phones Using Self-Provisioning IVR (Phone Users), on page 9	Choose the migration procedure that applies for you. The Self-Provisioning IVR can be used by either administrators or phone users to migrate phones.
Step 9	View Phone Migration Report, on page 13	Following the migration, view a report that shows Cisco IP Phones that are migrated.

Activate Services for Self-Provisioning

Use this procedure to activate the services that support the Self-Provisioning feature. Ensure that both the Self-Provisioning IVR and Cisco CTI Manager services are running.

Procedure

Step 1   From Cisco Unified Serviceability, choose **Tools** > **Service Activation**.

Step 2   From the **Server** drop-down list, select the publisher node and click **Go**.

Step 3   Under **CM Services**, check **Cisco CTI Manager**.

Step 4   Under **CTI Services**, check **Self Provisioning IVR**.

Step 5   Click **Save**.

Enable Autoregistration for Self-Provisioning

Use this procedure for self-provisioning, you must configure the auto-registration parameters on the publisher.

Procedure

Step 1   In Cisco Unified CM Administration, choose **System** > **Cisco Unified CM**.

Step 2	Click on the publisher node.
Step 3	Select the **Universal Device Template** that you want to be applied to provisioned phones.
Step 4	Select the **Universal Line Template** that you want to be applied to the phone lines for provisioned phones.
Step 5	Use the **Starting Directory Number** and **Ending Directory Number** fields to enter a range of directory numbers to apply to provisioned phones.
Step 6	Uncheck the **Auto-registration Disabled on the Cisco Unified Communications Manager** check box.
Step 7	Confirm the ports that will be used for SIP registrations. In most cases, there is no need to change the ports from their default settings.
Step 8	Click **Save**.

Configure CTI Route Point

Us this procedure to configure a CTI Route Point for the Self-Provisioning IVR.

Procedure

Step 1	From Cisco Unified CM Administration, choose, **Device** > **CTI Route Points**.
Step 2	Complete either of the following steps: a) Click **Find** and select an existing CTI route point. b) Click **Add New** to create a new CTI route point.
Step 3	In the **Device Name** field, enter a unique name to identify the route point.
Step 4	From the **Device Pool** drop-down list, select the device pool that specifies the properties for this device.
Step 5	From the **Location** drop-down list, select the appropriate location for this CTI route point.
Step 6	From the **Use Trusted Relay Point** drop-down list, enable or disable whether Unified Communications Manager inserts a trusted relay point (TRP) device with this media endpoint. The default setting is to use the Common Device Configuration setting that is associated to this device.
Step 7	Complete the remaining fields in the **CTI Route Point Configuration** window. For more information on the fields and their settings, see the online help.
Step 8	Click **Save**.

Assign a Directory Number to the CTI Route Point

Use this procedure to set up the extension that users will dial in to access the self-provisioning IVR. You must associate this extension to the CTI route point that you want to use for self-provisioning.

Procedure

Step 1	From Cisco Unified CM Administration, choose **Device** > **CTI Route Point**.
Step 2	Click **Find** and select the CTI route point that you set up for self-provisioning.
Step 3	Under **Association** click **Line [1] - Add a new DN**.

The **Directory Number Configuration** window displays.

Step 4   In the **Directory Number** field, enter the extension that you want users to dial to access the Self-Provisioning IVR service.

Step 5   Click **Save**.

Step 6   Complete the remaining fields in the **Directory Number Configuration** window. For more information with the fields and their settings, see the online help.

Step 7   Click **Save**.

Configure Application User for Self-Provisioning

You must set up an application user for the self-provisioning IVR and associate the CTI route point that you created to the application user.

Procedure

Step 1   From Cisco Unified CM Administration, choose **User** > **Application User**.

Step 2   Perform either of the following steps:

a)   To select an existing application user, click **Find** and select the application user.

b)   To create a new application user, click **Add New**.

Step 3   In the **User ID** text box, enter a unique ID for the application user.

Step 4   Select a **BLF Presence Group** for the application user.

Step 5   Associate the CTI route point that you created to the application user by performing the following steps:

a)   If the CTI route point that you created does not appear in the **Available Devices** list box, click **Find More Route Points**.
The CTI route point that you created displays as an available device.

b)   In the **Available Devices** list, select the CTI route point that you created for self-provisioning and click the down arrow.
The CTI route point displays in the **Controlled Devices** list.

Step 6   Complete the remaining fields in the **Application User Configuration** window. For help with the fields and their settings, see the online help.

Step 7   Click **Save**.

Configure the System for Self-Provisioning

Use this procedure to configure your system for self-provisioning. Self-provisioning provides users in your network with the ability to add their own desk phone through an IVR system, without contacting an administrator.

Note   In order to use the self-provisioning feature, your end users must also have the feature enabled in their user profiles.

Procedure

Step 1	From Cisco Unified CM Administration, choose **User Management** > **Self-Provisioning**.
Step 2	Configure whether you want the self-provisioning IVR to authenticate end users by clicking one of the following radio buttons:

- **Require Authentication**—In order to use the self-provisioning IVR, end users must enter their password, PIN, or a system authentication code.
- **No Authentication Required**—End users can access the self-provisioning IVR without authenticating.

Step 3	If the self-provisioning IVR is configured to require authentication, click one of the following radio buttons to configure the method whereby the IVR authenticates end users:

- **Allow authentication for end users only**—End users must enter their password or PIN.
- **Allow authentication for users (via Password/PIN) and Administrators (via Authentication Code)**—End Users must enter an authentication code. If you choose this option, configure the authentication code by entering an integer between 0 and 20 digits in the **Authentication Code** text box.

Step 4	In the **IVR Settings** list boxes, use the arrows to select the Language that you prefer to use for IVR prompts. The list of available languages depends on the language packs that you have installed on your system. Refer to the Downloads section of cisco.com if you want to download additional language packs.
Step 5	From the **CTI Route Points** drop-down list, choose the CTI route point that you have configured for your self-provisioning IVR.
Step 6	From the **Application User** drop-down list, choose the application user that you have configured for self-provisioning.
Step 7	Click **Save**.

Enable Self-Provisioning in a User Profile

In order for users to be able to Self-Provision phones, the feature must be enabled in the user profile to which they are assigned.

Note If you don't know which user profile your users are using, you can open a user's settings in the End User Configuration window and view the **User Profile** field to get the correct profile.

Procedure

Step 1	From Cisco Unified CM Administration, choose **User Management > User Settings > User Profile**.
Step 2	Click **Find and select the user profile** to which the user is assigned.
Step 3	Assign **Universal Line Templates** and **Universal Device Templates** to the user profile.
Step 4	Configure user settings for Self-Provisioning:

- Check the **Allow End User to Provision their own phones** check box.
- Enter a limit for the number of phones a user can provision. The default is 10.

Step 5   Click **Save**.

Phone Migration Tasks

After self-provisioning Authentication is setup, use any of the following procedures to migrate phones.

Migrate Phones Using Self-Provisioning IVR (Phone Users)

Phone users can use this procedure to migrate to a new Cisco IP Phone.

Before you begin

Make sure that the old phone is in the "Unregistered" state before you proceed with migration. You can plug the new phone into the network, wait until the phone registers and then perform the migration tasks. Once the migration is successful, the device will re-register with the users phone configuration data.

Procedure

Step 1   Dial the extension that is assigned to the Self-Provisioning IVR from a new Cisco IP Phone.

Step 2   Press **2** to replace an existing phone.

Step 3   Enter the primary extension number of your phone followed by the pound key (#).

Step 4   Enter your PIN followed by the pound key (#).

Migration starts after a successful authentication. After successful migration, the phone restarts with the configuration settings migrated from your old phone.

Note   If the phone is assigned to another user, a phone user can re-provision the phone provided an administrator has enabled the **Allow Provisioning of a phone already assigned to a different End User** option in the user's User Profile window. Talk to your administrator about this option.

Migrate Phones Using Self-Provisioning IVR (Administrator)

Administrators can use this procedure to migrate Cisco IP Phones on behalf of an end user, or to migrate common phones (for example, a lobby phone).

Before you begin

Make sure that the old phone is in the "Unregistered" state before you proceed with migration. You can plug the new phone into the network, wait until the phone registers and then perform the migration tasks. Once the migration is successful, the device will re-register with the users phone configuration data.

Procedure

Step 1   Dial the extension that is assigned to the Self-Provisioning IVR from a new phone.

Step 2   Press **2** to replace an existing phone.

Step 3   Enter the primary extension number of an end user phone or common phone followed by the pound key (#).

Step 4   Enter the **Authentication Code** followed by the pound key (#).

Migration starts after a successful authentication. Following the migration, the phone restarts with configuration settings migrated from end user's old phone.

Phone Migration Task Flow Using Phone Migration Service

Use the following task flow to guide you through the phone migration procedure using Phone Migration Service.

After you complete this workflow, you can migrate old or faulty Cisco IP Phones, and track the migrated phones list.

Procedure

	Command or Action	Purpose
Step 1	Disable Autoregistration, on page 10	Disable the autoregistration parameter before phone migration.
Step 2	Set Up Default Phone Load, on page 11	Configure the default phone load before the phone migration service.
Step 3	Configure Self-Provisioning Authentication, on page 11	Configure the required Self-Provisioning authentication settings.
Step 4	Migrate phones using any of these procedures: • Migrate Phones Using Phone Migration Service (Phone Users), on page 12 • Migrate Phones Using Phone Migration Service (Administrator), on page 12	Choose the migration procedure that applies for you. The Phone Migration Service can be used by either administrators or phone users to migrate phones.
Step 5	View Phone Migration Report, on page 13	Following the migration, view a report that shows Cisco IP Phones that are migrated.

Disable Autoregistration

To use the Phone Migration Service, autoregistration must be disabled.

Procedure

Step 1   In Cisco Unified CM Administration, choose **System > Cisco Unified CM**.

Step 2   Click on the publisher node.

Step 3   Check the **Auto-registration Disabled on the Cisco Unified Communications Manager** check box.

Step 4   Confirm the ports that will be used for SIP registrations. In most cases, there is no need to change the ports from their default settings.

Step 5   Click **Save**.

Set Up Default Phone Load

Use this procedure to set up the default phone load before the phone migration service.

Procedure

Step 1   From Cisco Unified CM Administration, choose **Device > Device Settings > Device Defaults**.

Step 2   Select the required phone model for migration.

Step 3   Enter the phone load and click the **Swap Loads** button in the phone load to make it the default phone load.

Step 4   Click **Save**.

Configure Self-Provisioning Authentication

The Phone Migration Service uses Self-Provisioning system settings to authenticate users prior to phone migration.

Procedure

Step 1   From Cisco Unified CM Administration, choose **User Management** > **Self-Provisioning**.

Step 2   Configure whether you want the self-provisioning to authenticate end users by clicking one of the following radio buttons:

- **Require Authentication**—In order to use self-provisioning, end users must enter their password, PIN, or a system authentication code.
- **No Authentication Required**—End users can access the self-provisioning options without authenticating.

Step 3   If the self-provisioning functionality is configured to require authentication, click one of the following radio buttons to configure the method whereby the self-provisioning options authenticates end users:

- **Allow authentication for end users only**—End users must enter their password or PIN.
- **Allow authentication for users (via Password/PIN) and Administrators (via Authentication Code)**—End Users must enter an authentication code. If you choose this option, configure the authentication code by entering an integer between 0 and 20 digits in the **Authentication Code** text box.

Step 4   Click **Save**.

Phone Migration Tasks

After self-provisioning Authentication is setup, use any of the following procedures to migrate phones.

Migrate Phones Using Phone Migration Service (Phone Users)

Phone users can use this procedure to migrate to a new Cisco IP Phone using a non-IVR method. After you plug in the phones to the network, the phone will attempt to boot and configure itself. From the default phone load, users get options to select either the 'Provision a new phone' or 'Replace an existing phone'.

Before you begin

Make sure that the old phone is in the "Unregistered" state before you proceed with migration. You can plug the new phone into the network, wait until you get the phone migration or provisioning prompt and start the migration process. Once the migration is successful, the device re-registers with the users phone configuration data.

Procedure

Step 1   Connect the new Cisco IP Phone to the network.

Step 2   Select option **2** to replace an existing phone.

> **Note**   If Administrator has not configured Activation Code based device onboarding or phone migration is done on the 11.5(1)SU8 version of Unified Communications Manager which does not support activation code, the phone displays the screen to enter the primary extension.

Step 3   Enter the primary extension number of your phone.

Step 4   Enter your **PIN**.

Migration starts after a successful authentication. After successful migration, the phone restarts with configuration settings migrated from your old phone.

> **Note**   If there are more than one device for the user with the same primary extension, user will be prompted to choose the device to be migrated. For more information, see Phone Migration Service—User Assigned with Multiple Devices, on page 15.

Migrate Phones Using Phone Migration Service (Administrator)

Administrators can use this procedure to migrate Cisco IP Phones on behalf of an end user, or to migrate common phones (for example, a lobby phone).

Before you begin

Make sure that the old phone is in the "Unregistered" state before you proceed with migration. You can plug the new phone into the network, wait until you get the phone migration or provisioning prompt and start the migration process. Once the migration is successful, the device re-registers with the users phone configuration data.

Procedure

Step 1   Connect the new Cisco IP Phone to the network.

Step 2   Select option **2** to replace an existing phone.

> **Note**   If Administrator has not configured Activation Code based device onboarding or phone migration is done on the 11.5(1)SU8 version of Unified Communications Manager which does not support activation code, the phone displays the screen to enter the primary extension.

Step 3   Enter the primary extension number of your phone.

Step 4   Enter the **Authentication Code**.

Migration starts after a successful authentication. After successful migration, the phone restarts with configuration settings migrated from your old phone.

> **Note**   If there are more than one device for the user with the same primary extension, user will be prompted to choose the device to be migrated. For more information, see Phone Migration Service—User Assigned with Multiple Devices, on page 15.

Phone Migration Service COP File

If you are running any version of the Unified Communications Manager starting from 11.5(1) until 11.5(1)SU7, install Phone Migration Service COP file to get the Native Phone Migration feature support.

As part of the COP file installation, 'Tftp restart' service is done automatically for Unified Communications Manager.

View Phone Migration Report

Use this procedure to view the list of all the Cisco IP Phones that are migrated.

Procedure

Step 1   In Cisco Unified CM Administration, select **Device> Phone**.

Step 2   From the Find and List Phones page, choose **Migrate (old phone)** from the **Find Phone** where drop-down list.

Step 3   Click **Find**.

You can view the list of all the old devices that got migrated. This list is populated only if the **Retain Existing Phone** option is configured in the Enterprise Parameters page.

Migrate Phones using Cisco Unified CM Administration Interface

Use this procedure to migrate phones using either the **Phone Template** or **Phone Type (and Protocol)** options in the Cisco Unified CM Administration interface.

Procedure

Step 1	In the Find and List Phones window (**Device > Phone**), find the Cisco IP Phone that you want to migrate.
Step 2	In the Phone Configuration window for the Cisco IP Phone that you want to migrate, choose **Migrate Phone** from the **Related Links** drop-down list.
Step 3	To migrate phones, you can use one of the following options:
	a) **Phone Template**—Choose the phone template for the phone model to which you want to migrate the phone configuration.
	b) **Phone Type (and Protocol)**—Choose the Cisco IP Phone model for which you want to migrate the phone configuration.
Step 4	Enter the **MAC address** for the new Cisco Unified IP Phone to which you are migrating the configuration.
Step 5	(**Optional**) Enter a description for the new phone. For more information on the migration considerations and configuration settings, see the *Cisco Unified CM Administration Online Help* pages.
Step 6	Click **Save**.
	If a warning message displays that the new phone may lose feature functionality, click **OK**. After migration, the new device will inherit setting of the old phone.

Migration Scenarios

Phones Using Shared Lines

Consider a scenario where an old phone has the primary DN shared line with multiple devices. These devices may be owned by the same user or among multiple users. When you try to migrate the old phone with a new Cisco IP Phone using Self-Provisioning IVR or Phone Migration Service methods using a shared line, migration is possible only for users who own the device with the DN as Line 1. Here, the shared lines feature settings are carried over after phone migration.

Phone Migration Service Running on Proxy TFTP

Native phone migration using Phone Migration Service support Cisco proxy TFTP server deployment models.

Phone Migration Service running on the proxy TFTP searches for the primary extension on all the remote clusters and redirect the phone to its home or local Phone Migration Service for completing phone migration.

In a proxy setup environment, Unified Communications Manager server looks for devices with same DN in a remote cluster. If there is more than one device in the registered or unregistered state with the same DN in any one of the off-cluster, those devices from that particular off-cluster is not considered for phone migration. This is a known limitation for Release 11.5(1)SU8.

Phone Migration Service—User Assigned with Multiple Devices

If there is more than one device for the user with the same primary extension for migration, user will be prompted to choose the device to be migrated.

The following table displays the various migration scenarios possible:

Table 3: Device Listing and Migration Scenarios

	Device Status Before Phone Migration	Phone Display During Migration
Scenario 1	Device 1—Registered Device 2—Unregistered	Phone Configuration settings of Device 2 will be migrated.
Scenario 2	Device 1—Registered Device 2—Registered Device 3—Unregistered	Phone Configuration settings of Device 3 will be migrated.
Scenario 3	Device 1—Registered Device 2—Unregistered Device 3—Unregistered	Displays the device list with the following: Description, Phone Model, and MAC Address. Users should choose the device from the list required for phone migration.
Scenario 4	Device 1—Unregistered Device 2—Unregistered Device 3—Unregistered	Displays the device list with the following: Description, Phone Model, and MAC Address. Users should choose the device from the list required for phone migration.
Scenario 5	Device 1—Registered Device 2—Registered Device 3—Registered	Displays the device list with the following: Description, Phone Model, and MAC Address. Users should choose the device from the list required for phone migration.
Scenario 6	More than 3 devices are in Registered or Unregistered states	Error screen: There is more than three device association for <ext.number> extension. Please contact the system administrator.

Device Display Based on Unified CM Parameter Settings

The following table lists the behavior of the migration screen on the new phone based on the release version of Cisco Unified Communications Manager and related configuration settings:

Table 4: Device Display Based on Various Unified CM Parameter Settings

Phone or Device preconfigured by Administrator	Autoregistration Enabled at Enterprise Level	Onboarding Method at Device Defaults Level	Behavior without Phone Migration Service	Behavior with Phone Migration Service
No	Yes	—	Devices get auto registered to the network.	Devices get auto registered to the network.
No	No	—	Device retries to register to the network and keeps retrying based on the back-off timer set.	Phone replacement screen prompts to enter the Primary Extension and PIN.
Yes	N/A	—	Device registers with the preconfigured settings.	Device registers with the preconfigured settings.

Phones Using Extension Mobility

In scenarios where the old phone supports Extension Mobility login, after migration the new device will also support the Extension Mobility capability. If the old phone was logged-in before migration, then the logged-in Extension Mobility user is automatically logged-out during the phone migration. The user must perform fresh Extension Mobility login on the new phone.

> **Note** Native phone migration does not support end-users Extension Mobility Device profile migration.

CTI Controlled Devices

If an old device is CTI Controlled before phone migration, then the new device is also CTI controlled. This is because the device configuration settings are carried over after phone migration.

Phones with Key Expansion Module

If the Key Expansion Module (KEM) attached to your old phone is not compatible with your new phone model, you will lose the KEM 'Expansion Module Information' configuration settings on the new phone after phone migration.

The following table explains different scenarios:

Table 5: KEM Migration Scenarios

Scenarios	Old Phone (Model 79xx)	New Phone (Model 88xx)	Expected Behavior After Migration
• KEM 1 attached to the old phone is compatible with the new phone. • User removes the KEM 1 from the old phone and attaches it with the new phone.	KEM 1	KEM 1	KEM 1 configuration settings are carried over.
• KEM 1 attached to the old phone is incompatible with the new phone. • User attaches a compatible KEM 2 (brand new or used) to the new phone.	KEM 1	KEM 2	KEM 1 configuration settings are carried over to KEM 2.
• KEM 1 attached to the old phone is deprecated. • User attaches a new KEM 3 to the new phone.	KEM 1	KEM 3	KEM 1 configuration settings are carried over to KEM 3.

Product Specific Configuration Parameters

During phone migration, the product-specific parameters of the older phones are also migrated. The new phone considers only the parameters that the phone understands. The remaining parameters are set to their default value.

Also, during phone migration, the parameter 'Line Mode' is set as 'Session Line Mode' irrespective of the old device model or protocol selected.

Phone Button Templates

When a SCCP Phone model is migrated to a SIP Phone model, the SIP Phone considers only the parameters that it understands. Else, it takes the default configuration values from the SIP Phone model (for example, Standard SIP Profile).

If the old phone had a unique Custom Phone Button Template, then the new phone will retain the Custom Phone Button Template after phone migration. For the Standard Phone Button template, the new device uses the Standard Phone Button Template specific to the phone model.

Table 6: Phone Button Templates-Migration Scenarios

Old Device	Phone Button Template of the Old Device	New Device Selected for Phone Migration	Phone Button Template of the New Device After Phone Migration
Cisco Unified IP Phone 7965 SCCP	Standard 7965 SCCP	Cisco IP Phone 8861	Standard 8861 SIP
Cisco Unified IP Phone 7965 SCCP	Universal Device Template Button layout	Cisco IP Phone 8861	Universal Device Template Button layout
Cisco Unified IP Phone 7965 SCCP	Custom 7965 SCCP	Cisco IP Phone 8861	Custom 7965 SCCP
Cisco Unified IP Phone 8851 SIP	Standard 8851 SIP	Cisco IP Phone 8861	Standard 8861 SIP