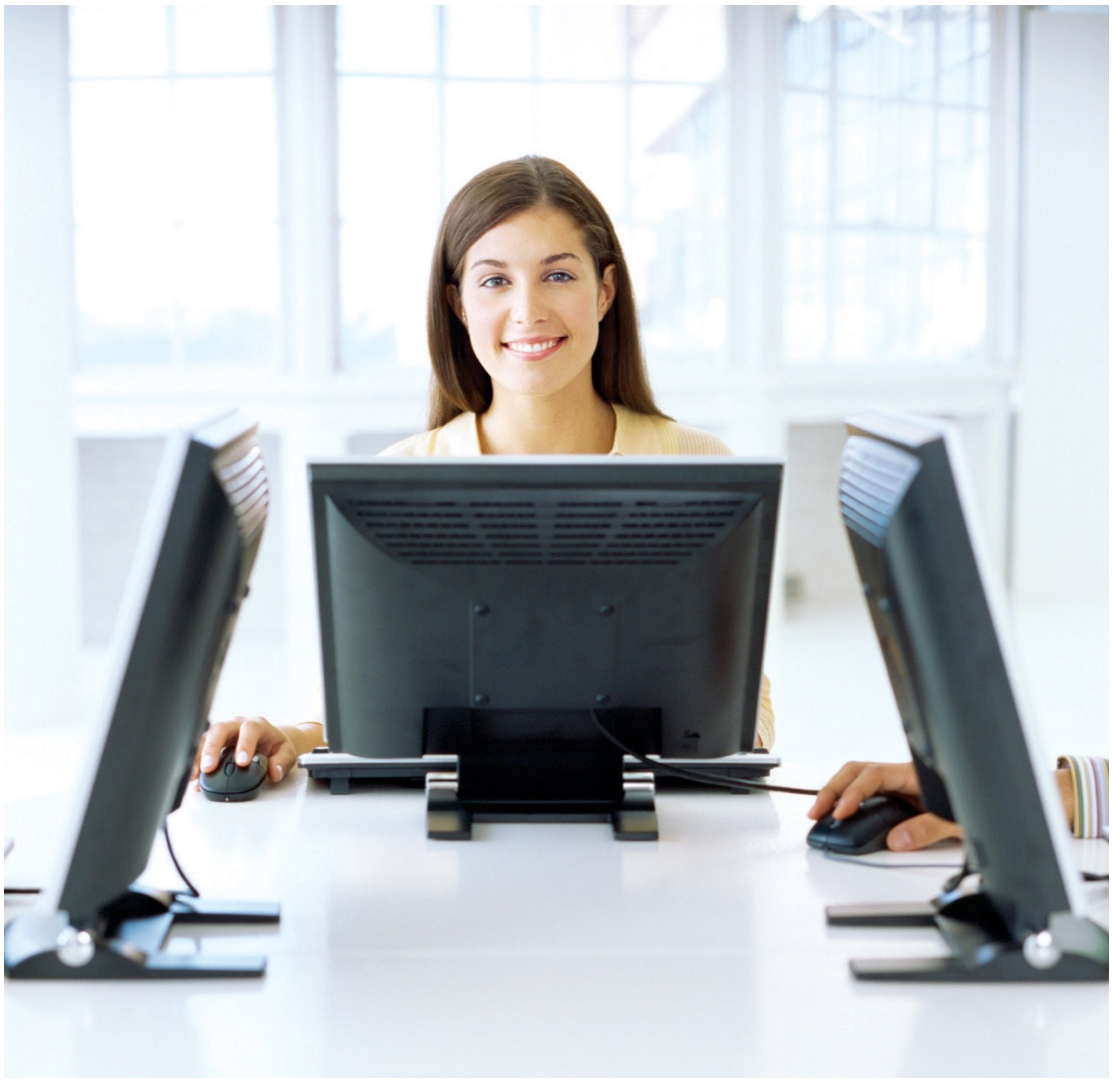
MigrationFX
Administration Guide



VERSION: 2.0

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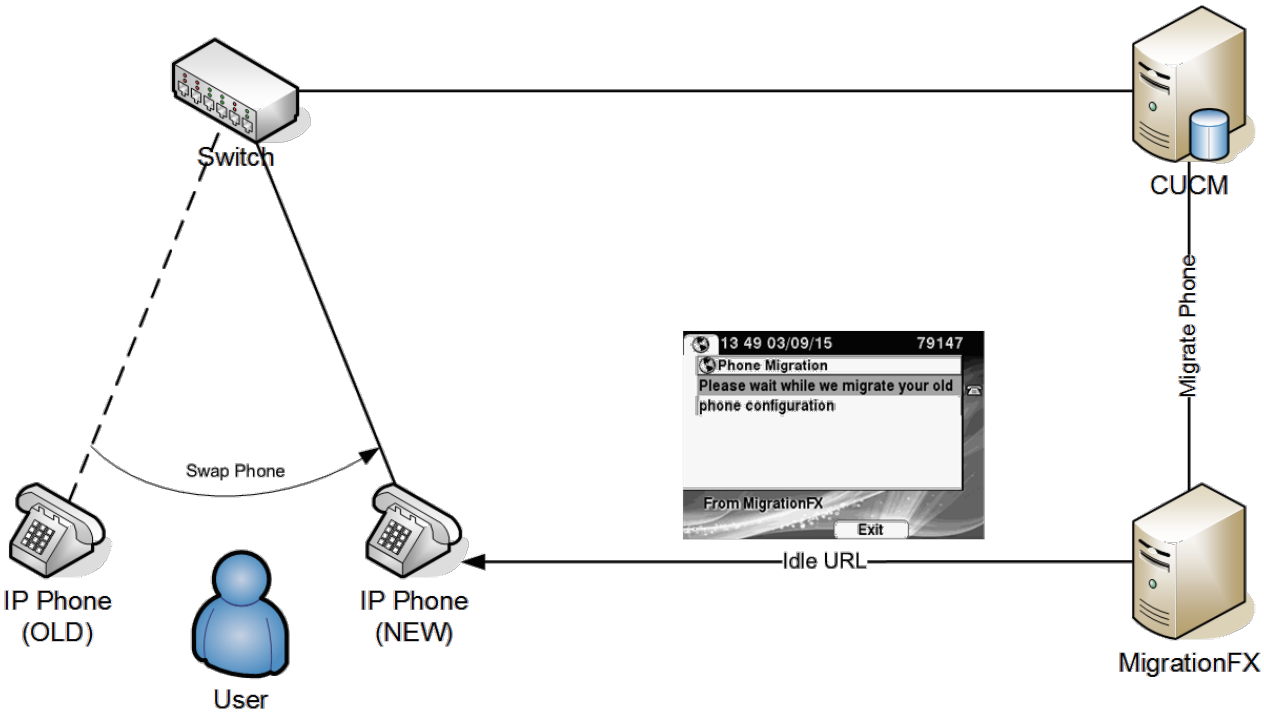
Overview

MigrationFX makes the migration of Cisco IP Phones as simple as swapping the physical IP Phone by eliminating the need to manually re-configure devices within Cisco Unified Communications Manager.

MigrationFX is built using AutomationFX hence most of this document makes reference to AutomationFX as technically that is the application that is being installed. MigrationFX is the functionality enabled within the AutomationFX platform for migrating Cisco IP Phones. AutomationFX (hence MigrationFX) leverages existing technology from PhoneView, PhoneView is the premier Cisco Endpoint Management product from UnifiedFX and has been used by over 10,000 Cisco UC Engineers worldwide.

MigrationFX is in effect an XML Phone Service that is deployed to new IP Phones in order to allow the end user to migrate their old phone configuration to the new Cisco Endpoint eliminating hours of manual configuration typically required as part of the process. Instead an end user can 'upgrade' or 'swap' their Cisco IP Phone as easy as plugging in the new device and navigating one or more XML Pages on the new phone. MigrationFX takes care of all the reconfiguration automatically and seamlessly ensuring that the new device configuration mirrors the old configuration as close as technically possible.

The following diagram is a high level overview of how MigrationFX works:



Requirements

Application

- Windows 7 (or Above) / Windows Server 2008 (or Above)
- Microsoft .Net Framework 4.5
- Dual Core CPU 2+ GHz / 2Gb Ram (or above)
- 250 Mb free Hard Drive space
- VMWare Supported
- Modern web browser i.e. Chrome, Firefox, Safari, IE 10+
- Free TCP Port (8181 by default)

Note: If installing on Windows 7 or Windows Server 2008 then Windows Management Framework 3.0 is also required: https://www.microsoft.com/en-us/download/details.aspx?id=34595

Unified Communications Manager

- CUCM Version 8.0 (or above)
- Appropriate CUCM License capacity for new phones (if required)
- Phone Web Server Enabled (for gathering topology information)

Note: On some occasions a CUCM update or device pack may be required to support new phone models

Network Connectivity

The following tables details the TCP Port connectivity requirements of AutomationFX (and therefore MigrationFX)

TCP Ports between AutomationFX and CUCM

From	To	Port	Purpose
AutomationFX	CUCM	80/TCP	HTTP API Interface
AutomationFX	CUCM	8080/TCP	HTTP API Interface
AutomationFX	CUCM	443/TCP	HTTPS API Interface
AutomationFX	CUCM	8443/TCP	HTTPS API Interface
AutomationFX	CUCM	6970/TCP	HTTP API Interface

TCP Ports between AutomationFX and IP Phones

From	To	Port	Purpose
AutomationFX	IP Phone	80/TCP	HTTP API Interface
AutomationFX	IP Phone	443/TCP	HTTPS API Interface
IP Phone	AutomationFX	8181/TCP (Editable)	HTTP API Interface

Accounts & Permissions

Admin User Account

AutomationFX requires a CUCM ‘Application User’ account in order to access the relevant CUCM API’s and perform the required functionality. This ‘Admin User’ account requires the following permissions:

- Standard Tab Sync User
- Standard CCM Server Monitoring
- Standard CCMADMIN Administration
- Standard CCM Phone Administration
- Super Copy & Phone Migration Resource Access (Recommend adding to customer Role/Group)

Note: An ‘Admin User’ account will be required for each CUCM cluster, detailed steps are provided below.

AutomationFX Web Interface Login

The web interface for AutomationFX requires authentication once the first CUCM cluster has been added. AutomationFX uses the existing Application and End User accounts on CUCM to provide authenticated access to the AutomationFX web interface, hence the requirement for at least one CUCM cluster to be added before CUCM authentication is possible.
The CUCM Application or End User account requires one of the following permissions:

- Standard CCM Admin
- Standard Phone Administration

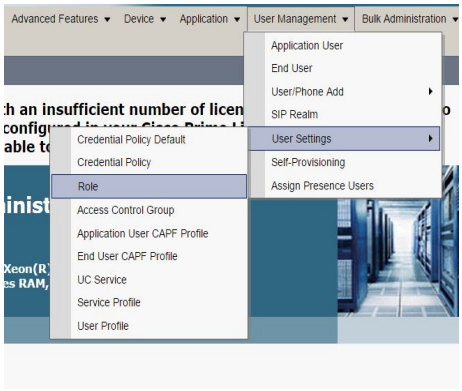
Note: Before the first CUCM cluster has been added the AutomationFX admin interface can be accessed in ‘guest mode’ automatically if accessed from the local machine (i.e. http://127.0.0.1:8181). However if it is necessary to access the AutomationFX web interface remotely before the first CUCM cluster has been added the following hard-coded guest account can be used:

- Username: guest
- Password: ufx12345

Important: The guest login is disabled when one or more CUCM clusters have been configured, from that point onward only a valid CUCM login can be used to login.

Create a User for AutomationFX in CUCM

- Login to CUCM Admin Interface
- Browse to the Role Page as shown in the image.**(User Management >> User Settings >> Role)**
- Once directed to the Role page Click **'Add New'** button to create a new role.
- The following page requires selecting an Application for the Role.
- Select **Cisco Call Manager Administration** and click '**Next**'.



(1.1)

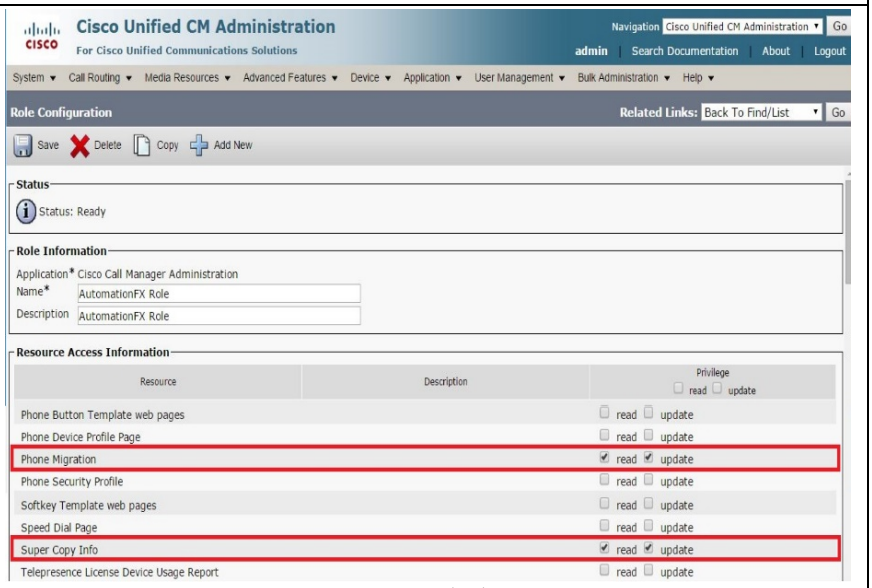
(1.2)

- Once directed to the Role Configuration page enter the following settings.

Name : AutomationFX Role
Description : AutomationFX Role

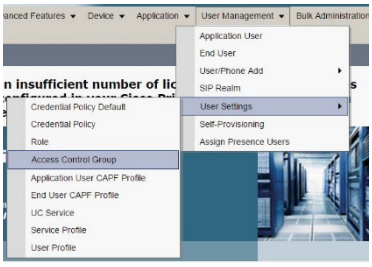
Phone Migration ☑ read ☑ update
Super Copy Info ☑ read ☑ update

- Once the settings are assigned click '**Save'**.



(1.3)

- Creating a Group and assigning the above created Role.
- Browse to the Access Control Group Page as shown in image (2.1) **(User Management >> User Settings >>Access Control Group)**
- Click **'Add New'** to Create a New Access Control Group.
- Name it as **AutomationFX Group.**
- Click '**Save'**.



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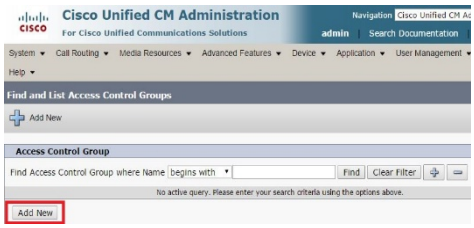

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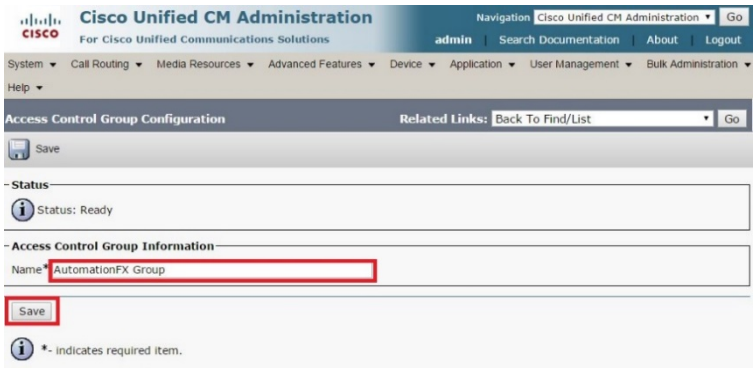
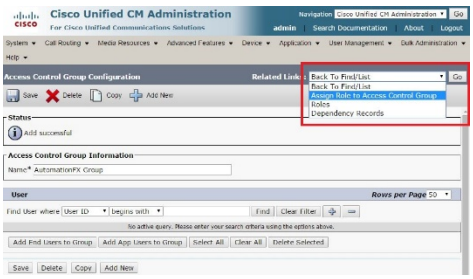


(2.3)

- Select **Assign Role to Access Control Group** from the drop down menu and Click **'Go'.**
- User will be directed to Access Control Group Configuration Page.
- Click '**Assign Role to Group'.**
- User will be redirected to Find and List Roles
- Tick (select) **AutomationFX** Role from the list and click **'Add Selected'**.
- Will be directed to the Access Control Group Configuration.
- Click **'Save'.**



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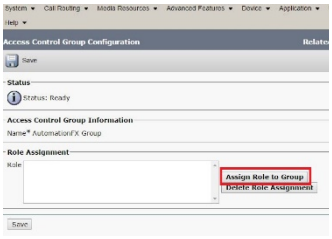

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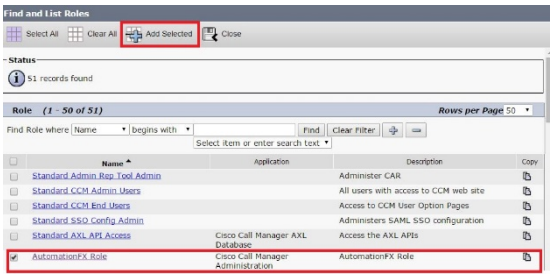
(2.7)



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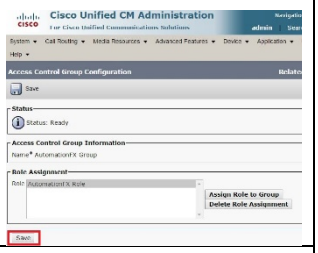
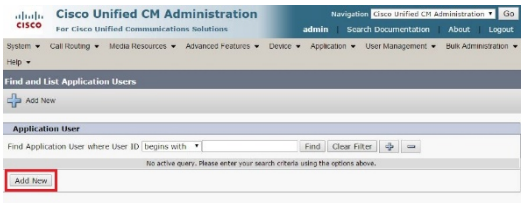


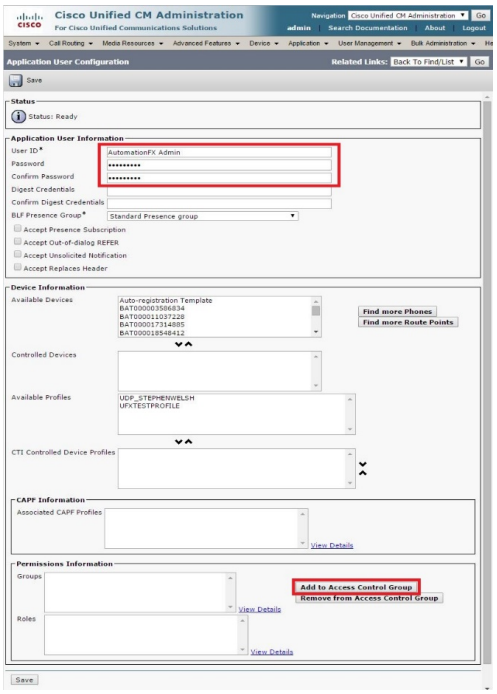
- Create an Application User and assign the required Access Control Groups.
- Browse to Application User Page. (**User Management >> Application User**).
- Click **'Add New'** to create a New Application User.
- Once directed to the Application User Configuration page.
- Enter the following settings.

User ID : AutomationFX Admin
Password : **************

- Assign a password of your choice
- Click **'Add to Access Control Group'.**



(3.1)

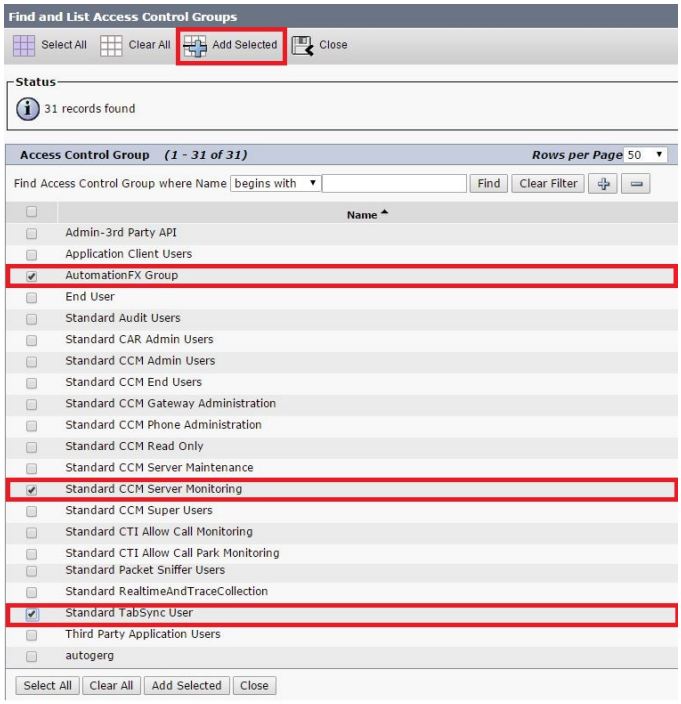


(3.2)

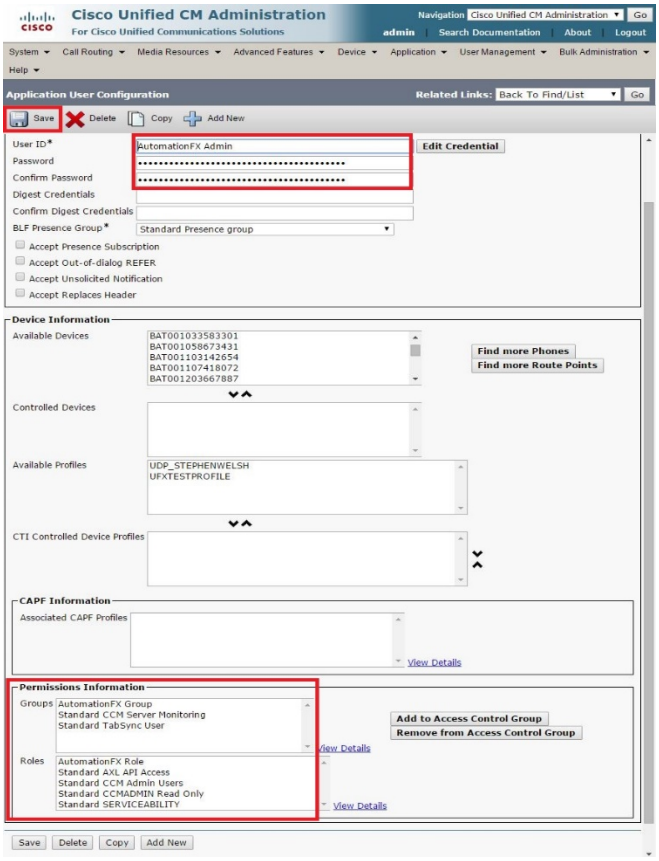
- Tick (select) the following Access Control Groups as shown in image 3.3

☑ AutomationFX Group
☑ Standard CCM Server Monitoring
☑ Standard CCM Phone Administration
☑ Standard TabSync User

- Once the above Access Control Groups are selected Click **'Add Selected'**
- Confirm the Permission Information match as image 3.4.
- Click **'Save'**



(3.3)

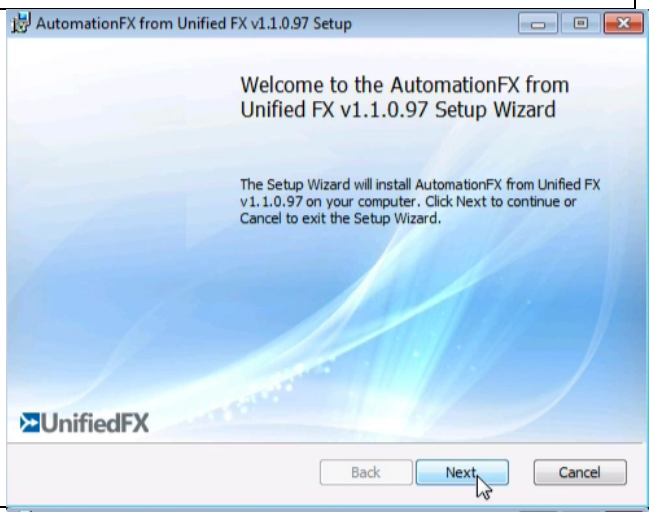


(3.4)

NOTE: The following Instruction are based on CUCM 10.5.1, instruction may differ according to CUCM version

AutomationFX Installation

Open the MSI Installer file and click 'Next' on the welcome page



Review and accept the End-User License Agreement then click 'Next'

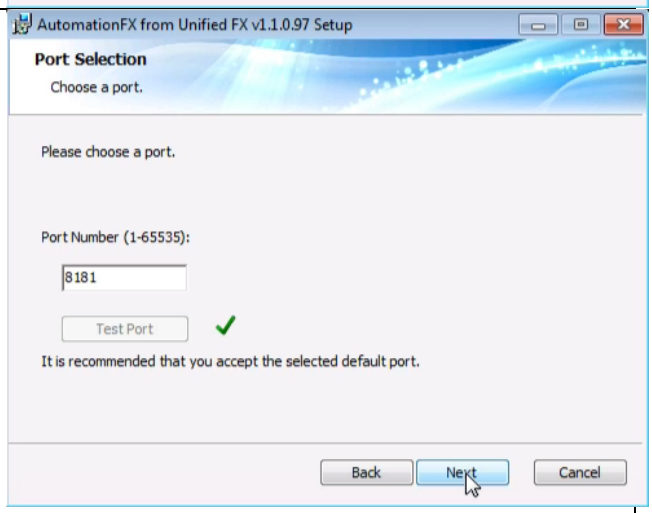
Choose a local TCP Port to host the 'AutomationFX Web Application Platform'.

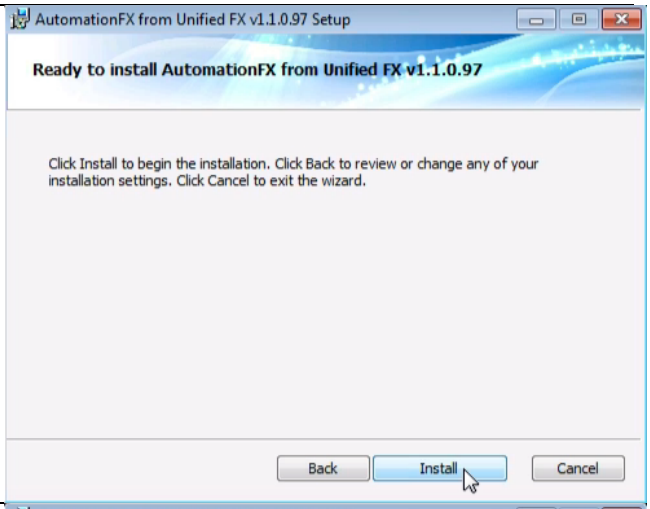
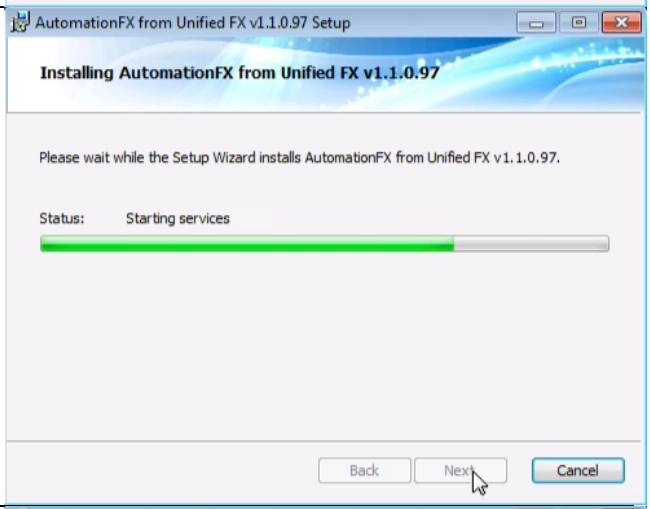
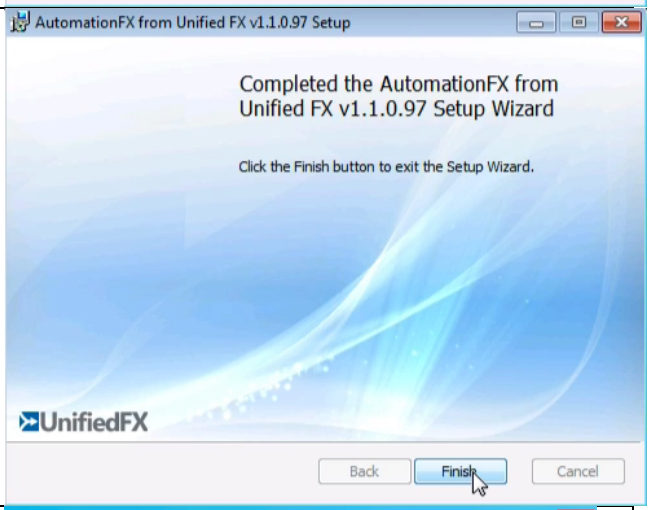
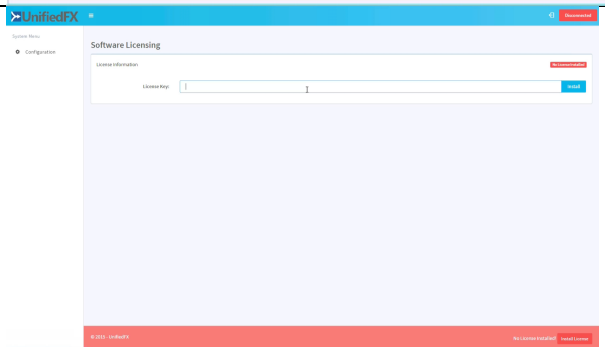
- **Click 'Test Port'** to check that the chosen port is available on the local machine.
- **Click 'Next'** to continue

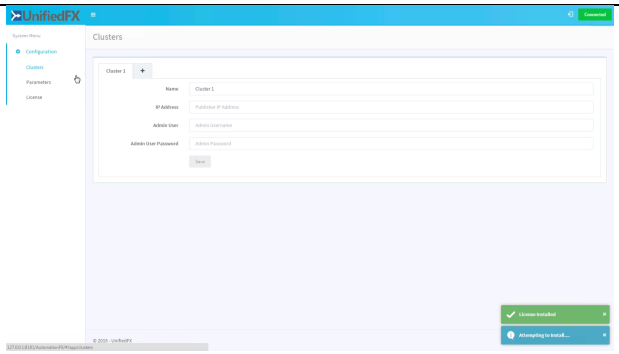
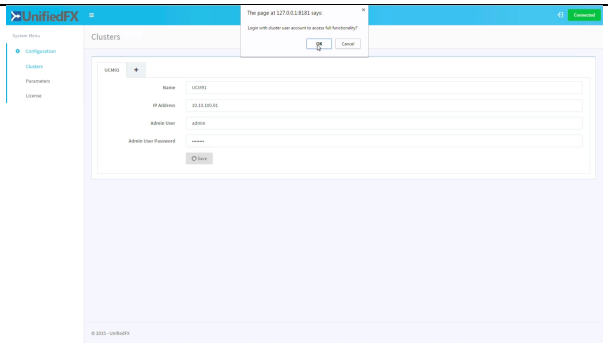
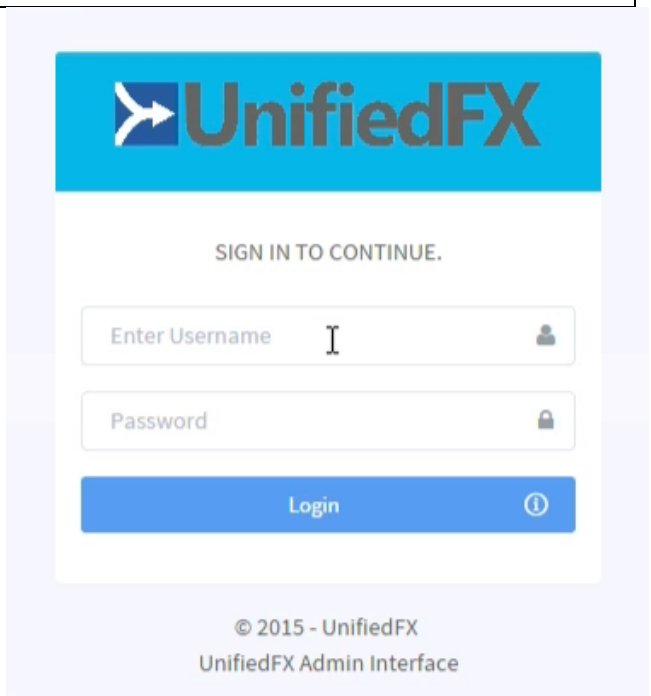
Note: **The default port is 8181**, this can be changed to port 80 as long as there are no other applications hosted on port 80 on the local machine.

Note: This is saved to the following registry entry:

- HKLM\Software\UnifiedFX\AutomationFX\PortNumber (32 bit systems)
- HKLM\Software\Wow6432Node\UnifiedFX\AutomationFX\PortNumber (64 bit systems)



All the required information has been captured, click 'Install' to start the installation.	
All necessary files are copied to the local machine and the 'AutomationFX' Windows Service is installed and started.	
Once the installation is complete click 'Finish' to close the MSI Installer	
After the MSI Installation is complete the application web interface is opened automatically (http://127.0.0.1:8181). The first step for a new installation is to install the license key. Enter the License Key and click 'Install', once installed you will see the license parameters on this page.	

The first task once the system is licensed is to add one or more CUCM clusters. Click 'Configuration' then 'Clusters' and enter the following: • **Friendly Name** • **Publisher IP Address** • **Username** • **Password** Then Click 'Save' Note: The Admin User used to access CUCM API's requires the following permissions: • **Standard Tab Sync User** • **Standard CCM Server Monitoring** • **Standard CCM Phone Administration**	
After adding the first cluster you are prompted to login with a CUCM user account from the newly added cluster. This is required in order to gain access all menu items within the web admin interface.	
Once the first cluster is added it is necessary to login to the AutomationFX web interface using a CUCM user account. The CUCM account can be an Application User or an End User and requires one of the following permissions: Standard CCM Admin Users Standard CCM Phone Administration.	

Phone Service Deployment

The XML Phone Service that users interact with needs to be deployed and available to the newly connected IP Phones. Also, the new IP Phone needs to register to CUCM temporarily with a basic non-user specific configuration in order to to present the XML Phone Service to the end user and initiate the migration from the old phone configuration.
MigrationFX works with Auto-Registered devices or pre-imported via BAT with a basic non-user specific configuration.
There are two ways to deploy the XML Phone Service to newly connected IP Phones:

- Idle URL
- Enterprise Phone Service

Note: Using the Idle URL with Auto-Registered phones is only possible with CUCM Version 10.0 (or above) by leveraging the Universal Phone Template feature.

The XML Phone Service URL to configure:

http://SERVER:PORT/AutomationFX/trigger/Migration

SERVER: The IP Address of the machine AutomationFX was installed on
PORT: The TCP Port chosen to host AutomationFX (8181 by default)

Phone Service Deployment Methods

We expect the user installing AutomationFX, have server **IP Address** and the **Port Number** available at this point. In order to start a Migration, the new phones should Initiate the MigrationFX phone service automatically or manually depending on the deployment method used.

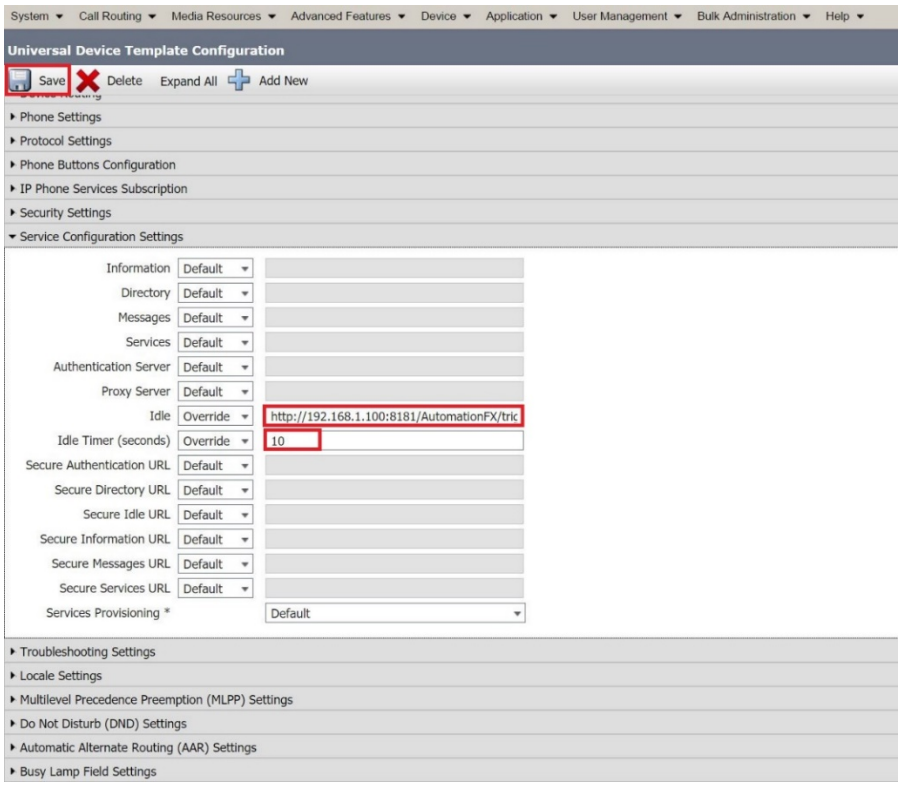
Deployment Method 1 - Configure the Universal Device Template with MigrationFX Trigger Idle URL (CUCM 10 or Above).

- Login to CUCM Admin Interface.
- Browse to **User Management >>>User/Phone Add >>> Universal Device Template.**
- Open your Auto-Registration Template.
- Under **Service Configuration Settings** Change the **Idle** Field to the MigrationFX Server.

E.g. If the IP Address of the PC you installed MigrationFX is 192.168.1.100 and the chosen port number was 8181, URL will be as follow:

http://192.168.1.100:8181/AutomationFX/trigger/Migration?name=#DEVICENAME#

- Change the **Idle Timer (seconds)** field to 60.



Once these parameters are configured all the auto registered phones will inherit the above settings which will initiate the Migration Service Automatically and prompt user to confirm the migration if topology data is available and found. However, it is possible that topology data may not be available or found, in this case the user will be prompt to login or enter the search pin/extension depending on the fallback parameter on “Parameters” page under “Configuration” menu in MigrationFX admin interface.

Deployment Method 2 – Create an Enterprise Phone Service.

- Login to CUCM Admin Interface.
- Browse to **Device >>> Device Settings >>> Phone Services>>> Click Add New**.

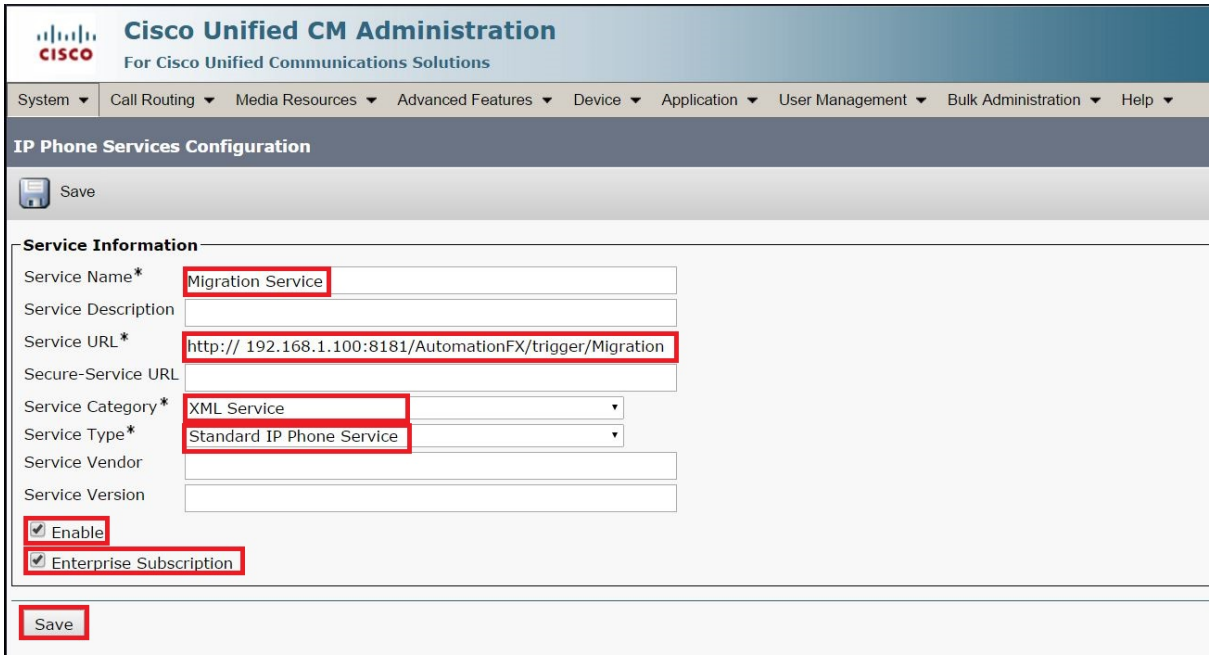
Creating a New Enterprise Service. (see image for more details)

- **Service Name : Migration Service**

E.g. If the IP Address of the PC you installed MigrationFX is 192.168.1.100 and the chosen port number was 8181, URL will be as follow:

http://192.168.1.100:8181/AutomationFX/trigger/Migration?name=#DEVICENAME#

- **Service URL: http:// 192.168.1.100:8181/AutomationFX/trigger/Migration?name=#DEVICENAME#**
- **Service Category: XML Service**
- **Service Type: Standard IP Phone Service.**
- **Tick Enable and Enterprise Subscription Checkboxes and Click Save.**



In order to migrate, plug in the new phone, open the Migration Service using the Services or Applications button. Once the Migration service is initiated the service will prompt user to confirm the migration if topology data is available and found. However, it is possible that topology data may not be available, in this case service will prompt user to login or enter the search pin/extension depending on the fallback parameter on “Parameters” page under “Configuration” menu in MigrationFX admin interface.

Zero Touch Migration

This is the simplest method of migration as the old and new phone are identified automatically once the user swaps the phones using the same cable. In order for this to happen MigrationFX regularly gathers topology information from the web server of all IP Phones in each configured cluster.
The topology information enables the tracking of phone movements, in particular when the new phone is plugged in. When the Migration Phone Service opens on the new phone the service determines all previous phones plugged into the same port. The Migration Phone Service then presents the user with the last phone plugged into the same cable and asks them to confirm the migration from that phone to the newly connected device.
If for any reason the Migration Phone Service is unable to determine the last phone connected on the same port, it will 'fall-back' to Self Service or Search by extension depending on Fallback parameter under Configuration >> Parameters page in MigrationFX admin interface.

Note: The topology data is gathered from the phones web server, therefore if the phone web server is disabled it will not be possible to use the Zero Touch Migration approach.

Search by extension Migration

This method requires the engineer to provide the extension number to identify their existing phone. The Migration Phone Service queries entire phone estate and presents all devices with the provided extension/directory number. If there is only one phone with the provided extension the Migration Phone Service presents that device information to the user and asks them to conform the migration from that device. If there are multiple devices with the extension (shared line scenario) is presented with a list of the devices (up to a limit of 5) and asked to choose the device to migrate.

Self Service Migration

This method requires the end user to login to the Migration Phone Service to authenticate who they are and identify their existing phone associated to their user account. The Migration Phone Service queries all associated devices with the authenticated user account. Therefore there needs to be at least one phone associated in order to determine the old phone configuration to migrate. If there is only one phone associated to the user account the Migration Phone Service presents that device information to the user and asks them to conform the migration from that device. If there are multiple devices associated the user is presented with a list of the devices (up to a limit of 5) and asked to choose the device to migrate.
Note: The Migration Phone Service checks for device owner (set on the device page) and associated devices (set on the users page) to determine associated phones to the user account.

Migration Operation Details

There are a number of key steps involved in the migration of a phone configuration from the old to the new device. The primary CUCM feature used by MigrationFX is the ‘Phone Migration’ option listed on the top right drop down list on each device page within the CUCM Admin web interface.

CUCM ‘Phone Migration’ Feature

MigrationFX automates the submission of the CUCM ‘Phone Migration’ feature on demand as each user migrates their own phone. By providing a simple and secure process for end users to identify the old and new device and then initiate the migration. As powerful as the CUCM ‘Phone Migration' feature is, it does not handle phone button templates, so if the old phone has a unique button template or there is a different number of buttons between the old and new phone model this requires additional processing by MigrationFX which is described below.

Migration Phone Templates

The CUCM ‘Phone Migration’ Feature requires a Bulk Admin Tool (BAT) ‘Phone Template’ to specify the model of the new device as well as providing any missing device fields that the old model may not contain. For example when migrating a SCCP phone to SIP based model, the SCCP device configuration does not have any SIP specific fields to migrate. In this scenario the missing SIP fields are obtained from the specified Phone Template. MigrationFX can dynamically generate individual Phone Templates during each migration, however there may be scenarios when it is necessary to override the default behaviour of MigrationFX. Overriding the default behaviour of MigrationFX is based on creating Phone Templates with specific names that MigrationFX can use instead of creating new templates.

Migration Button Templates

In order to handle the migration of phone button templates MigrationFX can dynamically create a ‘Button Template’ for each migration. Creating a Button Template for the new phone model is based on copying each button from old phone, however any button type not supported on the new phone model is excluded.
In some scenarios some phones may have ‘Individual’ button templates when an end user makes changes to their button layout. By default if the old device has an ‘Individual’ button template then MigrationFX will dynamically create a new ‘Individual’ button template and use that for the migrated device. This ensures that any unique button layouts are maintained as close to the original as possible.
In other scenarios when the old phone has a button template that is ‘Shared’ with other phones (i.e. the old phone’s button template name does not include the words ‘Individual Template’) MigrationFX will create a new button template that is ‘Shared’ between migrated phones of the same new model type.
This default behaviour can be overridden for situations where the generated button template does not have the desired layout. Overriding the default behaviour is performed by creating button templates with specific names, MigrationFX checks if a specifically named button template exists and uses it instead of dynamically creating a new one.
Because MigrationFX checks for the existence of these named Phone and Button Templates during migration it provides the ability to define templates before the migration happens. This provides the ability to be in full control the migration process before any migration occurs rather than editing the device\button configuration afterwards maximising the user migration experience.

Migration Template Naming Convention

The default behaviour in most situations should be all that is required, however as outlined above the default behaviour can be overridden by creating Phone and/or Button Templates with specific names. The 'Migration Template Flow Chart' below details the steps for generating or using Phone and Button Templates during a migration. MigrationFX uses a naming convention for Phone and Button Templates and either uses existing templates or dynamically creates them using the following naming convention.

Naming Convention for Phone Templates

TARGET-MODEL-PROTOCOL-Migration Template

- **Target** - one of the following: ALL, SOURCE or the old device name (i.e. SEP123456789012) for an INDIVIDUAL template.
- **Model**: is the new phone model name (i.e. 8841)
- **Protocol**: is the new phone protocol (i.e. SCCP or SIP)

Example Phone Template Name	Description
ALL-8841-SIP-Migration Template	Use this Phone Template for any migration where the new model is a 8841 (SIP)
SOURCE-8841-SIP-Migration Template	Create a new INDIVIDUAL Phone Template based on this SOURCE Phone Template
SEP123456789012-8841-SIP-Migration Template	Use/Create this INDIVIDUAL Phone Template when migrating from SEP123456789012 to a 8841 (SIP) device

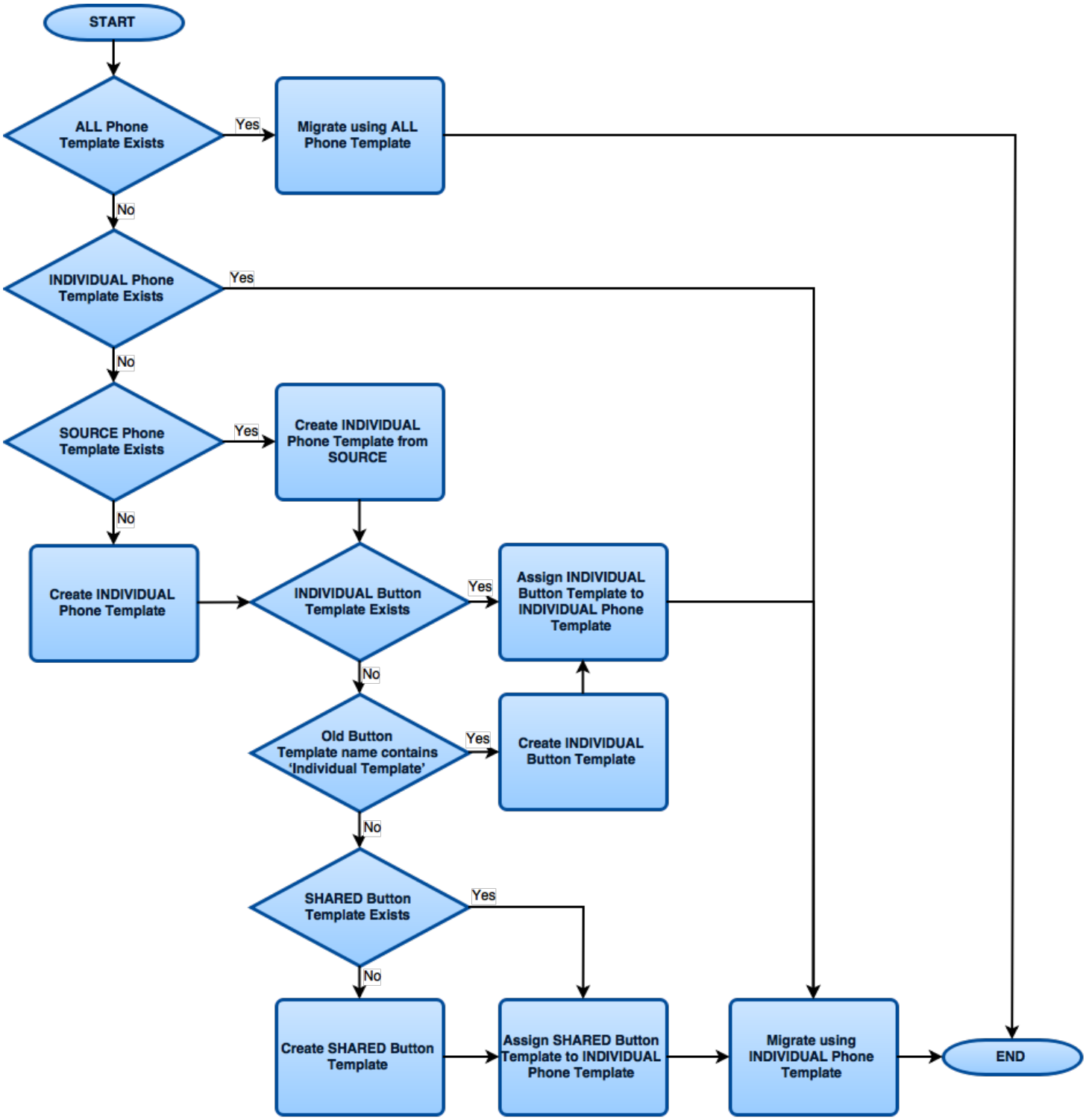
Naming Convention for Button Templates

TARGET-MODEL-PROTOCOL-MFX

- **Target** is the old device name (i.e. SEP123456789012) for an INDIVIDUAL Button Template or the old Button Template name (i.e. Standard 7961) for SHARED Button Templates.
- **Model**: is the new phone model name (i.e. 8841)
- **Protocol**: is the new phone protocol (i.e. SCCP or SIP)

Example Button Template Name	Description
SEP123456789012-8841-SIP-MFX	Use/Create this INDIVIDUAL Button Template when migrating from SEP123456789012 to a 8841 (SIP) device
SEP112233ABCDEF-7841-SIP-MFX	Use/Create this INDIVIDUAL Button Template when migrating from SEP112233ABCDEF to a 7841 (SIP) device
Standard 7941-8841-SIP-MFX	Use/Create this SHARED Button Template for any old phone using the 'Standard 7941' Button Template that is migrating to a 8841 (SIP) device

Migration Template Flow Chart



Example Migration Scenarios

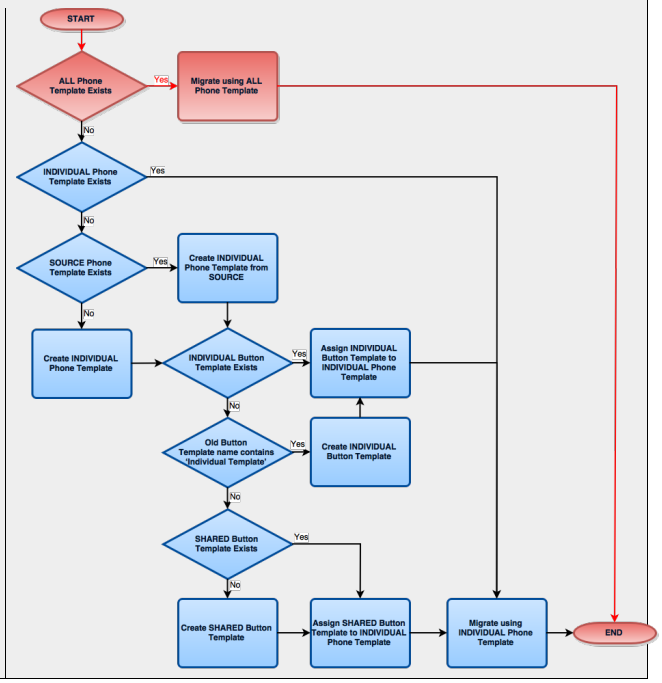
Here are a number of example scenarios for when and how to override the default Device and Button Template generation of MigrationFX.
Note: It may be convent to migrate one or more phones and let MigrationFX create the relevant template names dynamically then edit/copy/rename the templates from there. This ensures that the naming convention is correct as MigrationFX will be creating the template.

Scenario 1: Using the ALL Phone Template

Typically required if there is a desire to normalise a number of 'Individual' Button Templates to shared Button Templates instead of mapping old to new individual button templates one too one.

Old Name: SEP123456789012
Old Model: 7941
Old Protocol: SCCP
Old Button Template: Standard 7941 SCCP
New Model: **8841**
New Protocol: **SIP**

Create a Phone Template with the name:
ALL-8841-SIP-Migration Template

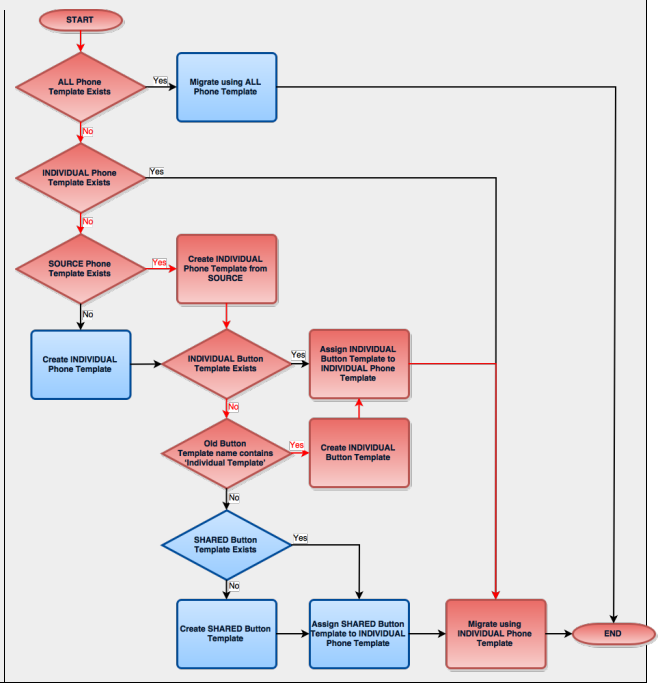


Scenario 2: Using the SOURCE Phone Template

Typically required if using non-default SIP device settings and migrating from SCCP to SIP based models.

Old Name: SEP123456789012
Old Model: 7941
Old Protocol: SCCP
Old Button Template: Standard 7941 SCCP
New Model: **8841**
New Protocol: **SIP**

Create a Phone Template with the name:
SOURCE-8841-SIP-Migration Template

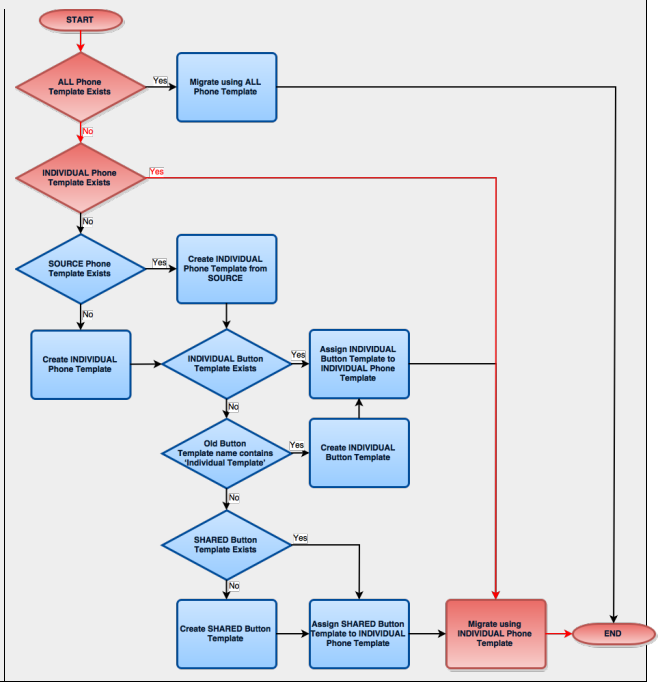


Scenario 3: Using the INDIVIDUAL Phone Template

Typically required if full control of all device and button configuration for specific device(s), i.e. a complex phone configuration such as a manager/secretary.

Old Name: **SEP123456789012**
Old Model: 7941
Old Protocol: SCCP
Old Button Template: Standard 7941 SCCP
New Model: **8841**
New Protocol: **SIP**

Create a Phone Template with the name:
SEP123456789012-8841-SIP-Migration Template

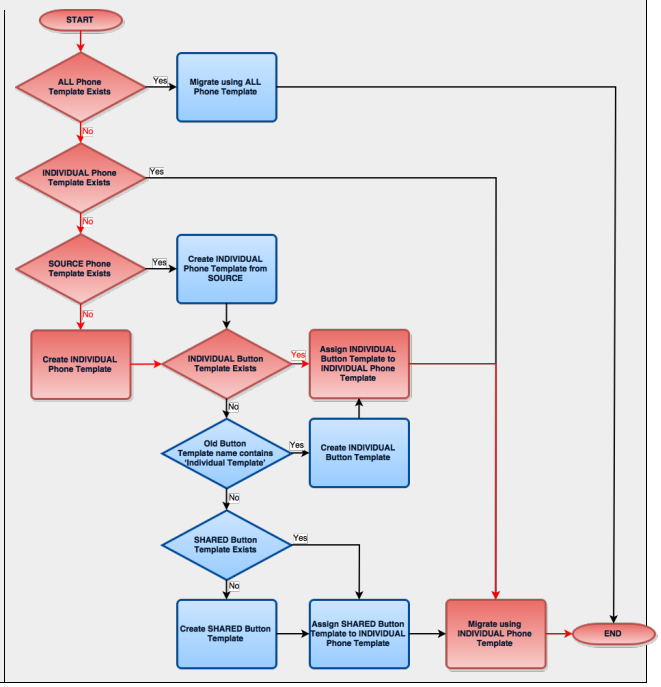


Scenario 4: Using the INDIVIDUAL Button Template

Typically required if full control of the button configuration for specific device(s), i.e. a complex phone configuration such as a manager/secretary.

Old Name: **SEP123456789012**
Old Model: 7941
Old Protocol: SCCP
Old Button Template: Standard 7941 SCCP
New Model: **8841**
New Protocol: **SIP**

Create a Button Template with the name:
SEP123456789012-8841-SIP-MFX



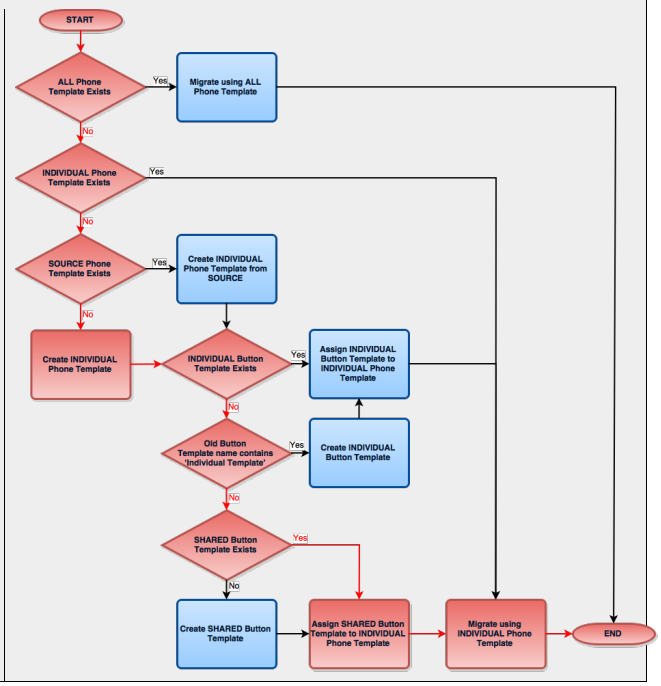
Scenario 5: Using the SHARED Button Template

Typically required if the 'Shared' Button Template for the new phone model requires customisation beyond the dynamically generated Button Template.

Old Name: SEP123456789012
Old Model: 7941
Old Protocol: SCCP
Old Button Template: **Standard 7941 SCCP**
New Model: **8841**
New Protocol: **SIP**

Create a Button Template with the name:
Standard 7941 SCCP-8841-SIP-MFX

Note: Due to the limited length of the Button Template name it is not possible to use the Shared Button Template naming convention when the length of the old phone Button Template name is longer than 35 characters. If the Button Template name of the old phone is longer than 35 characters then an Individual Template will be used instead.



Migration Phone Field Mapping

When migrating Cisco IP Phones most of the information from the 'old phone' is copied across to the new phone model. However there are a small number of phone fields that are populated from the Phone Template used for the migration or in some cases are blank/default.

This is typically because the field does not exist on the old phone therefore there is no information to migrate. For most fields that do not exist on the old phone this information is populated from the Phone Template.

One of the most common situations where the new phone has fields that do not exist on the old phone is when migrating from SCCP to SIP based models. For most fields that are present on a SIP based model but not SCCP the field is populated from the Phone Template. Scenario 2 above provides an example of how to specify the SIP specific fields for all migrations to a specific phone model therefore providing the ability to control those settings.

The following table details each phone field and migration type (i.e. to/from protocol type) and indicates where the migrated phone field is populated from.

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
Device Information					
MAC Address		Old Phone	Old Phone	Old Phone	Old Phone
Description		Old Phone	Old Phone	Old Phone	Old Phone
Device Pool		Old Phone	Old Phone	Old Phone	Old Phone
Common Device Configuration		Old Phone	Old Phone	Old Phone	Old Phone
Phone Button Template		Template	Template	Template	Template
Softkey Template		Old Phone	Old Phone	Old Phone	Old Phone
Common Phone Profile		Old Phone	Old Phone	Old Phone	Old Phone
Calling Search Space		Old Phone	Old Phone	Old Phone	Old Phone
AAR Calling Search Space		Old Phone	Old Phone	Old Phone	Old Phone
Media Resource Group List		Old Phone	Old Phone	Old Phone	Old Phone
User Hold MOH Audio Source		Old Phone	Old Phone	Old Phone	Old Phone
Network Hold MOH Audio Source	SCCP Only	Old Phone	N/A	Default	N/A
Location		Old Phone	Old Phone	Old Phone	Old Phone
AAR Group		Old Phone	Old Phone	Old Phone	Old Phone

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
User Locale		Old Phone	Old Phone	Old Phone	Old Phone
Network Locale		Old Phone	Old Phone	Old Phone	Old Phone
Built In Bridge		Old Phone	Old Phone	Old Phone	Old Phone
Privacy		Old Phone	Old Phone	Old Phone	Old Phone
Device Mobility Mode		Old Phone	Old Phone	Old Phone	Old Phone
Owner		Old Phone	Old Phone	Old Phone	Old Phone
Owner User ID		Old Phone	Old Phone	Old Phone	Old Phone
Phone Personalization		Old Phone	Old Phone	Old Phone	Old Phone
Services Provisioning		Old Phone	Old Phone	Old Phone	Old Phone
Phone Load Name		Template	Template	Template	Template
Single Button Barge	SCCP Only	Old Phone	N/A	Template	N/A
Join Across Lines	SCCP Only	Old Phone	N/A	Template	N/A
Use Trusted Relay Point		Old Phone	Old Phone	Old Phone	Old Phone
BLF Audible Alert Setting (Phone Idle)		Old Phone	Old Phone	Old Phone	Old Phone
BLF Audible Alert Setting (Phone Busy)		Old Phone	Old Phone	Old Phone	Old Phone
Always Use Prime Line		Old Phone	Old Phone	Old Phone	Old Phone
Always Use Prime Line for Voice Message		Old Phone	Old Phone	Old Phone	Old Phone
Geolocation		Old Phone	Old Phone	Old Phone	Old Phone
Retry Video Call as Audio	SCCP Only	Old Phone	N/A	Template	N/A
Ignore Presentation Indicators (internal calls only)		Old Phone	Old Phone	Old Phone	Old Phone
Allow Control of Device from CTI		Old Phone	Old Phone	Old Phone	Old Phone

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
Logged Into Hunt Group		Old Phone	Old Phone	Old Phone	Old Phone
Remote Device		Old Phone	Old Phone	Old Phone	Old Phone
Protected Device		Old Phone	Old Phone	Old Phone	Old Phone
Hot line Device		Old Phone	Old Phone	Old Phone	Old Phone
Require off-premise location		Old Phone	Old Phone	Old Phone	Old Phone
Number Presentation Transformation					
Caller ID For Calls From This Phone					
Calling Party Transformation CSS		Old Phone	Old Phone	Old Phone	Old Phone
Use Device Pool Calling Party Transformation CSS (Caller ID For Calls From This Phone)		Old Phone	Old Phone	Old Phone	Old Phone
Remote Number					
Calling Party Transformation CSS		Old Phone	Old Phone	Old Phone	Old Phone
Use Device Pool Calling Party Transformation CSS (Caller ID For Calls From This Phone)		Old Phone	Old Phone	Old Phone	Old Phone
Protocol Specific Information					
Packet Capture Mode		Old Phone	Old Phone	Old Phone	Old Phone
Packet Capture Duration		Old Phone	Old Phone	Old Phone	Old Phone

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
BLF Presence Group		Old Phone	Old Phone	Old Phone	Old Phone
SIP Dial Rules	SIP Only	N/A	Template	N/A	Old Phone
MTP Preferred Originating Codec	SIP Only	N/A	Default	N/A	Old Phone
Device Security Profile		Template	Template	Template	Template
Rerouting Calling Search Space	SIP Only	N/A	Default	N/A	Old Phone
SUBSCRIBE Calling Search Space		Template	Template	Template	Template
SIP Profile	SIP Only	N/A	Template	N/A	Old Phone
Digest User	SIP Only	N/A	Default	N/A	Old Phone
Media Termination Point Required	SIP Only	N/A	Default	N/A	Old Phone
Unattended Port		Old Phone	Old Phone	Old Phone	Old Phone
Require DTMF Reception		Old Phone	Old Phone	Old Phone	Old Phone
RFC2833 Disabled	SCCP Only	Old Phone	N/A	Default	N/A
Certification Authority Proxy Function (CAPF) Information					
Certificate Operation		Old Phone	Old Phone	Old Phone	Old Phone
Authentication Mode		Old Phone	Old Phone	Old Phone	Old Phone
Authentication String		Old Phone	Old Phone	Old Phone	Old Phone
Key Size (Bits)		Old Phone	Old Phone	Old Phone	Old Phone
Operation Completes By		Old Phone	Old Phone	Old Phone	Old Phone

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
Expansion Module Information					
Module 1		Template	Template	Template	Template
Module 1 Load Name		Template	Template	Template	Template
Module 2		Template	Template	Template	Template
Module 2 Load Name		Template	Template	Template	Template
External Data Locations Information					
Information		Old Phone	Old Phone	Old Phone	Old Phone
Directory		Old Phone	Old Phone	Old Phone	Old Phone
Messages		Old Phone	Old Phone	Old Phone	Old Phone
Services		Old Phone	Old Phone	Old Phone	Old Phone
Authentication Server		Old Phone	Old Phone	Old Phone	Old Phone
Proxy Server		Old Phone	Old Phone	Old Phone	Old Phone
Idle		Old Phone	Old Phone	Old Phone	Old Phone
Idle Timer (seconds)		Old Phone	Old Phone	Old Phone	Old Phone
Secure Authentication URL		Old Phone	Old Phone	Old Phone	Old Phone
Secure Directory URL		Old Phone	Old Phone	Old Phone	Old Phone
Secure Idle URL		Old Phone	Old Phone	Old Phone	Old Phone
Secure Information URL		Old Phone	Old Phone	Old Phone	Old Phone
Secure Messages URL		Old Phone	Old Phone	Old Phone	Old Phone
Secure Services URL		Old Phone	Old Phone	Old Phone	Old Phone
Extension Information					

Phone Field	Protocol Specific	SCCP to SCCP	SCCP to SIP	SIP to SCCP	SIP to SIP
Enable Extension Mobility		Old Phone	Old Phone	Old Phone	Old Phone
Log Out Profile		Old Phone	Old Phone	Old Phone	Old Phone
MLPP and Confidential Access Level Information					
MLPP Domain		Old Phone	Old Phone	Old Phone	Old Phone
MLPP Indication		Old Phone	Old Phone	Old Phone	Old Phone
MLPP Preemption		Old Phone	Old Phone	Old Phone	Old Phone
Confidential Access Mode		Old Phone	Old Phone	Old Phone	Old Phone
Confidential Access Level		Old Phone	Old Phone	Old Phone	Old Phone
Do Not Disturb					
DND Option		Old Phone	Old Phone	Old Phone	Old Phone
DND Incoming Call Alert		Old Phone	Old Phone	Old Phone	Old Phone
Secure Shell Information					
Secure Shell User		Old Phone	Old Phone	Old Phone	Old Phone
Secure Shell Password		Old Phone	Old Phone	Old Phone	Old Phone
Product Specific Configuration Layout	All fields that exist on old phone are migrated to new phone, all product specific Phone Template fields are ignored. Use Common Phone Profile and/or Enterprise Phone Configuration to specify fields that exist on new phone but not the old phone				