Cisco BroadWorks

Partner Configuration Guide

Alcatel-Lucent Enterprise 80x8 CE Series

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1 Overview

This guide describes the configuration procedures required for the Alcatel-Lucent Enterprise 80x8 CE Series for interoperability with Cisco BroadWorks. This includes the following models:

- 8008 CE
- 8008G CE
- 8018 CE
- 8058s CE
- 8068s CE
- 8078s CE

The 80x8 CE is a series of desk phones that use the Session Initiation Protocol (SIP) to communicate with Cisco BroadWorks for call control.

This guide describes the specific configuration items that are important for use with Cisco BroadWorks. It does not describe the purpose and use of all configuration items on the 80x8 CE. For those details, see the *Premium DeskPhone 80x8 CE Series User Manual* [1] supplied by Alcatel-Lucent Enterprise.

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2 Interoperability Status

This section provides the known interoperability status of the Alcatel-Lucent Enterprise 80x8 CE Series with Cisco BroadWorks. This includes the version(s) tested, the capabilities supported, and known issues.

Interoperability testing validates that the device interfaces properly with Cisco BroadWorks via the SIP interface. Qualitative aspects of the device or device capabilities not affecting the SIP interface such as display features, performance, and audio qualities are not covered by interoperability testing. Requests for information and/or issues regarding these aspects should be directed to Alcatel-Lucent Enterprise.

2.1 Verified Versions

The following table identifies the verified Alcatel-Lucent Enterprise 80x8 CE Series and Cisco BroadWorks versions and the month/year the testing occurred. If the device has undergone more than one test cycle, versions for each test cycle are listed, with the most recent listed first.

Compatible Versions in the following table identify specific 80x8 CE versions that the partner has identified as compatible so should interface properly with Cisco BroadWorks. Generally, maintenance releases of the validated version are considered compatible and may not be specifically listed here. For any questions concerning maintenance and compatible releases, contact Alcatel-Lucent Enterprise.

NOTE: Interoperability testing is usually performed with the latest generally available (GA) device firmware/software and the latest GA Cisco BroadWorks release and service pack at the time the testing occurs. If there is a need to use a non-verified mix of Cisco BroadWorks and device software versions, customers can mitigate their risk by self-testing the combination themselves using the *Cisco BroadWorks SIP Phone Interoperability Test Plan* [5].

Verified Versions

Date (mm/yyyy)	Cisco BroadWorks Release	80x8 CE Verified Version	80x8 CE Compatible Versions
05/2020	Release 22.0	1.53.20	List any specific compatible versions.
10/2017	Release 22.0	1.15.35	List any specific compatible versions.

2.2 Interface Capabilities Supported

This section identifies interface capabilities that have been verified through testing as supported by the Alcatel-Lucent Enterprise 80x8 CE Series.

The *Supported* column in the tables in this section identifies the Alcatel-Lucent Enterprise 80x8 CE Series' support for each of the items covered in the test plan, with the following designations:

- Yes Test item is supported
- No Test item is not supported
- NA Test item is not applicable to the device type

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- NT Test item was not tested

Caveats and clarifications are identified in the *Comments* column.

2.2.1 SIP Interface Capabilities

The Alcatel-Lucent Enterprise 80x8 CE Series has completed interoperability testing with Cisco BroadWorks using the *Cisco BroadWorks SIP Phone Interoperability Test Plan* [5]. The results are summarized in the following table.

The Cisco BroadWorks test plan is composed of packages, each covering distinct interoperability areas, such as "Basic" call scenarios and "Redundancy" scenarios. Each package is composed of one or more test items, which in turn are composed of one or more test cases. The test plan exercises the SIP interface between the device and Cisco BroadWorks with the intent to ensure interoperability sufficient to support the Cisco BroadWorks feature set.

NOTE: *DUT* in the following table refers to the *Device Under Test,* which in this case is the Alcatel-Lucent Enterprise 80x8 CE Series.

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
Basic	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Session Timer	Yes	
	Ringback	Yes	
	Forked Dialog	Yes	
	181 Call Being Forwarded	Yes	
	Dial Plan	Yes	
	DTMF – Inband	Yes	
	DTMF – RFC 2833	Yes	
	DTMF – DTMF Relay	Yes	
	Codec Negotiation	Yes	
	Codec Renegotiation	Yes	.
Cisco BroadWorks Services	Third-Party Call Control – Basic	Yes	
	Third-Party Call Control – Advanced	Yes	
	Voice Message Deposit/Retrieval	Yes	
	Message Waiting Indicator – Unsolicited	Yes	
	Message Waiting Indicator – Solicited	Yes	
	Message Waiting Indicator – Detail	Yes	
	Voice Portal Outcall	Yes	

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Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Advanced Alerting – Ringing	Yes	
	Advanced Alerting – Call Waiting	Yes	
	Advanced Alerting – Ring Splash	Yes	
	Advanced Alerting – Silent Alerting	Yes	
	Calling Line ID	Yes	
	Calling Line ID with Unicode Characters	Yes	
	Connected Line ID	Yes	
	Connected Line ID with Unicode Characters	Yes	
	Connected Line ID on UPDATE	Yes	
	Connected Line ID on Re-INVITE	No	
	Diversion Header	Yes	
	History-Info Header	Yes	
	Advice of Charge	No	
	Meet-Me Conferencing	Yes	
	Meet-Me Conferencing – G722	Yes	
	Meet-Me Conferencing – AMR-WB	No	
	Meet-Me Conferencing – Opus	Yes	
	Collaborate – Audio	Yes	
	Collaborate – Audio – G722	Yes	
	Collaborate – Audio – Opus	Yes	
	Call Decline Policy	Yes	
DUT Services – Call Control Services	Call Waiting	Yes	
	Call Hold	Yes	
	Call Transfer	Yes	
	Three-Way Calling	Yes	Before answer not supported.
	Network-Based Conference	Yes	
DUT Services – Registration and Authentication	Register Authentication	Yes	
	Maximum Registration	Yes	
	Minimum Registration	Yes	
	Invite Authentication	Yes	
	Re-Invite/Update Authentication	Yes	
	Refer Authentication	Yes	
	Device Authenticating Cisco BroadWorks	No	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
DUT Services – Emergency Call	Emergency Call	No	
	Emergency Call with Ringback	No	
DUT Services – P-Access-Network-Info Header	REGISTER with P-Access-Network-Info Header	No	
	INVITE with P-Access-Network-Info Header	No	
DUT Services – Miscellaneous	Do Not Disturb	Yes	
	Call Forwarding Always	Yes	
	Call Forwarding Always Diversion Inhibitor	Yes	
	Anonymous Call	Yes	
	Anonymous Call Block	Yes	
	Remote Restart Via Notify	Yes	
Advanced Phone Services – Busy Lamp Field	Busy Lamp Field	Yes	
	Call Park Notification	Yes	
Advanced Phone Services – Feature Key Synchronization, Private Line	Do Not Disturb	Yes	
	Do Not Disturb Ring Splash	Yes	Multi-line Not Supported.
	Call Forwarding	Yes	
	Call Forwarding Always Ring Splash	Yes	
	Call Forwarding Always Diversion Inhibitor	Yes	
	Call Center Agent Logon/Logoff	No	
	Call Center Agent Unavailable Code	No	
	Executive – Call Filtering	No	
	Executive-Assistant – Call Filtering	No	
	Executive-Assistant – Diversion	No	
	Call Recording	No	
	Security Classification	No	
Advanced Phone Services – Feature Key Synchronization, Shared Line	Do Not Disturb	Yes	
	Do Not Disturb Ring Splash	Yes	
	Call Forwarding	Yes	
	Call Forwarding Always Ring Splash	Yes	
	Call Forwarding Always Diversion Inhibitor	Yes	
	Security Classification	No	

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Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
Advanced Phone Services – Missed Calls Display Synchronization	Missed Calls Display Sync	Yes	
Advanced Phone Services – Shared Call Appearance using Call Info	Line-Seize	Yes	
	Call-Info/Lamp Management	Yes	
	Public Hold	Yes	
	Private Hold	Yes	
	Hybrid Key System	Yes	
	Multiple Call Arrangement	Yes	
	Bridge Active Line	Yes	
	Bridge Active Line – Silent Monitor	Yes	
	Call Park Notification	Yes	
Advanced Phone Services – Call Park Notification	Call Park Notification	Yes	
Advanced Phone Services – Call Center	Hold Reminder	No	
	Call Information	No	
	Hoteling Event	No	
	Status Event	No	
	Disposition Code	No	
	Emergency Escalation	No	
	Customer Originated Trace	No	
Advanced Phone Services – Call Recording Controls	Pause/Resume	No	
	Start/Stop	No	
	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Call Recording Video	Basic Call	No	
	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Security Classification	Security Classification	No	
Advanced Phone Services – Conference Event	Network-Based Conference Creator	Yes	
	Network-Based Conference Participant	No	
	Meet-Me Conference Participant	No	
Redundancy	DNS SRV Lookup	Yes	

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Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Register Failover/Failback	Yes	
	Invite Failover/Failback	Yes	
	Bye Failover	Yes	
SBC/ALG – Basic	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
SBC/ALG – Failover/Failback	Register Failover/Failback	Yes	
	Invite Failover/Failback	Yes	
Video – Basic Video Calls	Call Origination	No	
	Call Termination	No	
	Call Hold	No	
	Call Waiting	No	
	Call Transfer	No	
Video – Cisco BroadWorks Video Services	Auto Attendant	No	
	Auto Attendant – HD	No	
	Voice Messaging	No	
	Voice Messaging – HD	No	
	Custom Ringback	No	
Video – Cisco BroadWorks Video Conference	Network-based Conference	No	
	Network-based Conference – HD	No	
	Collaborate – Video	No	
	Collaborate – Video – HD	No	
Video – Cisco BroadWorks WebRTC Client	Call from WebRTC Client	No	
	Call to WebRTC Client	No	
TCP	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
IPV6	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Ringback	Yes	
	Codec Negotiation/Renegotiation	Yes	
	Voice Message Deposit/Retrieval	Yes	
	Call Control	Yes	

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Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Registration with Authentication	Yes	
	Busy Lamp Field	Yes	
	Redundancy	Yes	
	SBC	Yes	
	Video	No	
	Dual Stack with Alternate Connectivity	No	

2.2.2 Other Interface Capabilities

This section identifies whether the Alcatel-Lucent Enterprise 80x8 CE Series has implemented support for the following:

- Cisco BroadWorks Xtended Services Interface (Xsi)
- Extensible Messaging and Presence Protocol (XMPP) (BroadCloud/Cisco BroadWorks Collaborate Instant Messaging and Presence [IM&P])

Support for these interfaces is demonstrated by completing the *Cisco BroadWorks SIP Phone XSI and XMPP Test Plan* [6]. Support for these interfaces is summarized in the following table.

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	**Feature**	**Supported**	**Comments**
Xsi Features – Authentication	Authenticate with SIP Credentials	No	
	Authenticate with Cisco BroadWorks User Login Credentials	No	
	Authenticate with Cisco BroadWorks User Directory Number	No	
Xsi Features – User Service Configuration	Remote Office	No	
	Cisco BroadWorks Anywhere	No	
	Simultaneous Ringing	No	
	Caller ID Blocking	No	
	Call Forwarding Always	No	
	Call Forwarding Busy	No	
	Call Forwarding No Answer	No	
	Do Not Disturb	No	
Xsi Features – Directories	Enterprise Directory	No	
	Enterprise Common Phone List	No	
	Group Directory	No	
	Group Common Phone List	No	
	Personal Phone List	No	

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Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	**Feature**	**Supported**	**Comments**
	Search All Directories	No	
Xsi Features – Call Logs	Placed Calls	No	
	Received Calls	No	
	Missed Calls	No	
	All Calls	No	
	Sort by Name	No	
Xsi Features – Visual Voice Mail	View Messages	No	
	Listen to Audio Message	No	
	Watch Video Message	No	
	Mark Message Read/Unread	No	
	Delete Message	No	
	Mark All Messages Read/Unread	No	
XMPP Features – Contact/Buddy List	Contacts	No	
	Favorites	No	
	Groups	No	
	Non-XMPP Contacts	No	
	Conferences	No	
XMPP Features – Presence	Login Invisible	No	
	Presence State	No	
	Presence Status	No	
	Contact's Presence State	No	

2.3 Known Issues

This section lists the known interoperability issues between Cisco BroadWorks and specific partner release(s). Issues identified during interoperability testing and known issues identified in the field are listed.

The following table provides a description of each issue and, where possible, identifies a workaround. The verified partner device versions are listed with an "X" indicating that the issue occurs in the specific release. The issues identified are device deficiencies or bugs and are typically not Cisco BroadWorks release dependent.

The Issue Number is a tracking number for the issue. If it is an Alcatel-Lucent Enterprise issue, the issue number is from Alcatel-Lucent Enterprise's tracking system. If it is a Cisco BroadWorks issue, the issue number is from Cisco's tracking system.

For more information on any issues related to the particular partner device release, see the partner release notes.

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Issue Number	Issue Description	Partner Version			
		1.15.35	1.53.20		
CR3GEESIP-634	**Redundant failback does not occur timely.** After service restore of an outage, the failback mechanism will become active only when an internal DNS cache timer expires. That is, before the DNS cache record expires, the SIP requests will continue to be sent to “alternative server”. Workaround: None.	X			
CR3GEESIP-637	**Codec renegotiation may fail in certain call scenarios resulting in no voice path.** When Codec renegotiation occurs via re-INVITE with no SDP from Cisco BroadWorks, the 80x8 CE phone does not offer the full list of supported Codecs. Instead, only the previously negotiated Codec is presented in the SDP offer from the 80x8 CE. If the answer side does not have a matching Codec, the session remains up with no voice path. Similarly, when the 80x8 CE sends re-INVITE, the lack of full list of supported Codecs can lead of the loss of voice path. Workaround: None.	X			

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3 Cisco BroadWorks Configuration

This section identifies the required Cisco BroadWorks device profile type for the Alcatel-Lucent Enterprise 80x8 CE Series as well as any other unique Cisco BroadWorks configuration required for interoperability with the 80x8 CE.

3.1 Cisco BroadWorks Device Profile Type Configuration

This section identifies the device profile type settings to use when deploying the Alcatel-Lucent Enterprise 80x8 CE Series with Cisco BroadWorks.

Create a generic device profile type for the Alcatel-Lucent Enterprise 80x8 CE Series with settings as shown in the following example. A separate device profile may be created for each Alcatel-Lucent Enterprise 80x8 CE model. The settings shown are recommended for use when deploying the Alcatel-Lucent Enterprise 80x8 CE Series with Cisco BroadWorks. For an explanation of the profile parameters, see the *Cisco BroadWorks Device Management Configuration Guide* [2].

The device profile type shown provides the *Number of Ports* (number of SIP lines) setting for all Alcatel-Lucent Enterprise 80x8 CE Series.

Model	Number of Lines
8008 CE	1
8008G CE	1
8018 CE	1
8058s CE	1
8068s CE	1
8078s CE	1

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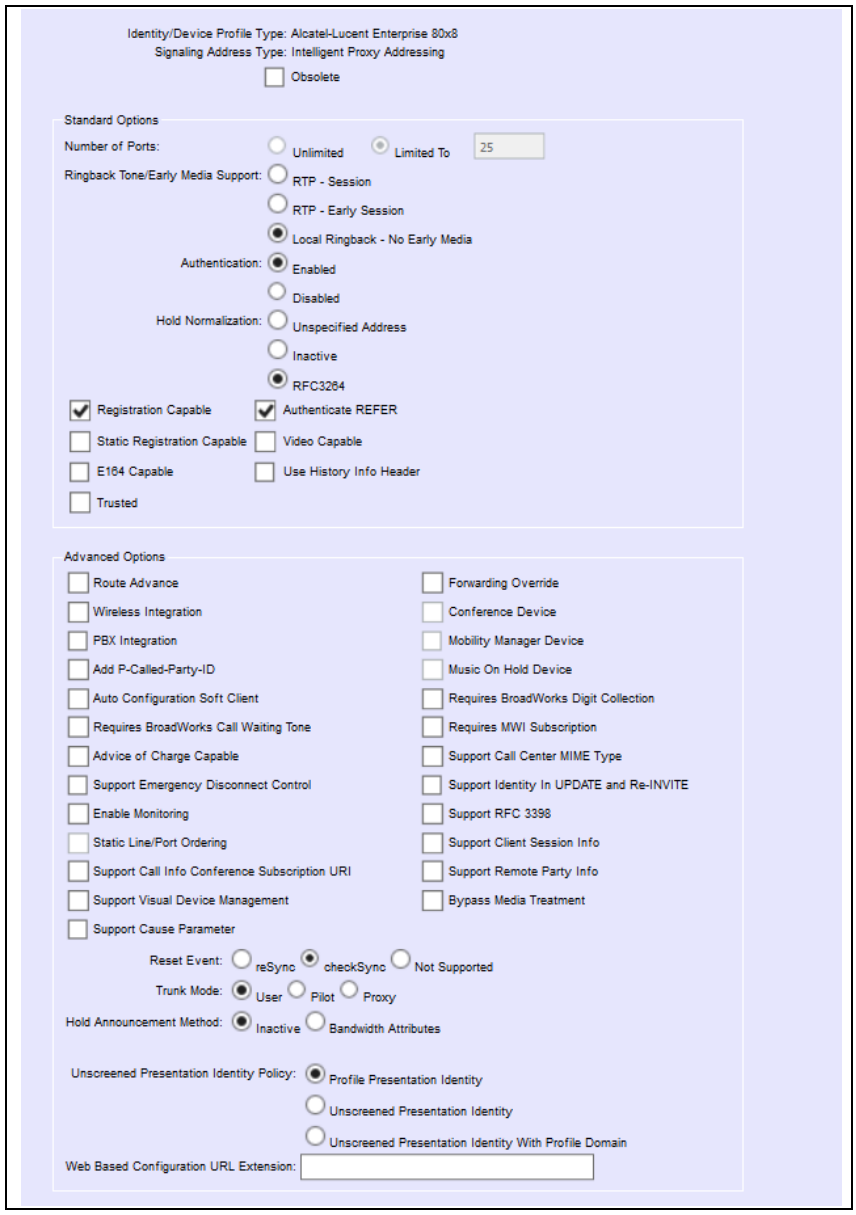

Figure 1 Device Identity/Profile Type

3.2 Cisco BroadWorks Configuration Steps

There are no additional Cisco BroadWorks configurations required.

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4 80x8 CE Series Configuration

This section describes the configuration settings required for the 80x8 CE series desk phone integration with Cisco BroadWorks, primarily focusing on the SIP interface configuration. The 80x8 CE series desk phone configuration settings identified in this section have been derived and verified through interoperability testing with Cisco BroadWorks. For configuration details not covered in this section, see the *Premium DeskPhone User Manual* [1] for 80x8 CE Series.

4.1 Configuration Method

Alcatel-Lucent Enterprise 80x8 CE Series Premium Desk Phones can be configured thought a single SIP configuration file. All the configuration parameters of system and subscriber are described in this configuration file.

The configuration file could be retrieved by HTTP or HTTPS methods. And the HTTP or HTTPS download URL could be configured by either DHCP options or static configuration. 80x8 CE series desk phone will load the configuration file during each phone initialization or synchronization. For detailed description of the phone provisioning and updating, see the *Premium DeskPhone User Manual* [1] for 80x8 CE Series.

Configuration Files

80x8 CE Series Configuration Files	Level	Description
config.xml	System configuration file	Contains the system-wide configuration.
config.<mac>.xml Example: config.00809fea62c4.xml	device-specific configuration file	Contains the configurable parameters that apply to device for the deployment.

4.2 System Level Configuration

This section describes system-wide configuration items that are generally required for each 80x8 CEs series desk phone to work with Cisco BroadWorks. Subscriber-specific settings are described in the next section.

All the system level configuration is described in the single configuration file *config.<mac>.xml*.

Step	Command	Description
System Configuration Items config.xml		
Step 1	Set Server Type: `<setting id="SIPGroup1ServerType" value="6" override="true"/>`	Set server type as Cisco.
Step 2	Set SIP Proxy/Domain: `Ex: <setting id="SIPServer1Address " value=" as.iop1.Cisco BroadWorks.net " override="true"/>`	Set the 8000 CE Phone SIP server to the Fully Qualified Domain Name (FQDN) for the BroadWorks Application Server cluster. The domain must match the domain configured for the BroadWorks subscriber's line/port domain.

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Step	Command	Description
System Configuration Items config.xml		
Step 3	Set Outbound Proxy. Example: <setting id="SIPGroup1OutBoundProxyAddress" value=" sbc1.iop1.CiscoBroadWorks.net " override="true"/>	Set the Outbound Proxy to the Session Border Controller (SBC) if one is deployed between the 8000 CE SIP Phone and Cisco BroadWorks. If there are redundant SBCs, set it to the FQDN for the SBC cluster.
Step 4	Set Register Expire Timer. <setting id="SIPServer1RegisterExpire " value="3600" override="true"/>	Set the registration period.
Step 5	Set transport type. <setting id="SIPGroup1TransportMode" value="0" override="true"/>	Transport value: 0: UDP 1: TCP 2: TLS
Step 6	Set the DTMF mode: <setting id="SIPGroup1DtmfMode" value="2" override="true"/>	Allow Values: 0: None 1: InBand 2: RFC2833 3: RFC4733 4: SIP Info
Step 7	Set Session Timer: <setting id="SIPGroup1SessionTimer" value="0" override="true"/> <setting id="SIPGroup1SessionTimerRefresher" value="1" override="true"/>	Define the 8000 CE SIP Phone's session Timer interval. Value Range is [0,*]. If it is set to "0" it means disable the session timer refresh. Session timer refresher modes: 0: uas 1: uac

4.3 Subscriber Level Configuration

This section identifies the device-specific parameters, including registration and authentication. These settings must be unique across devices in order to be matched with the settings for a Cisco BroadWorks SIP trunk or subscriber. SIP Registration requires that a unique address of record (AoR) be provisioned on Cisco BroadWorks and the device.

Step	Command	Description
Subscriber Parameters for the config.<macaddress>.xml		
Step 1	Set Register User ID. Example: <setting id="SIPGroup1DeviceUri" value="2404987601" override="true"/>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

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Step	Command	Description
Step 2	Set SIP Authentication name and password. Example: <setting id="SIPGroup1AuthenticationName" value="2404987601" override="true"/> <setting id="SIPGroup1AuthenticationPassword" value="123456" override="true"/>	To configure the SIP authentication name and password for registration on Cisco BroadWorks.
Step 3	Configure display name for account 1. Example: <setting id="SIPGroup1DisplayName" value="EntUser1" override="true"/>	To configure the display name for this device user.

4.4 SIP Advanced Feature Configuration

This section provides configuration instructions for advanced SIP features supported by the phone including but not limited to Shared Call Appearance, Busy Lamp Field, Feature Key Synchronization, Call Center, Emergency Call, Advice of Charge, Call Recording, and Security Classification.

4.4.1 Shared Call Appearance Configuration

The Shared Call Appearance (SCA) feature allows the administrator to add multiple locations to a given line. Any of the locations can be used to originate or receive calls. When a call comes into an idle line, all the provisioned locations for that line are alerted. The first location to answer the call is connected to the originator. If the line is already active in a call, only the active location is alerted.

A subscriber can originate calls from any of the configured locations. All other locations are unable to originate calls until all calls are released.

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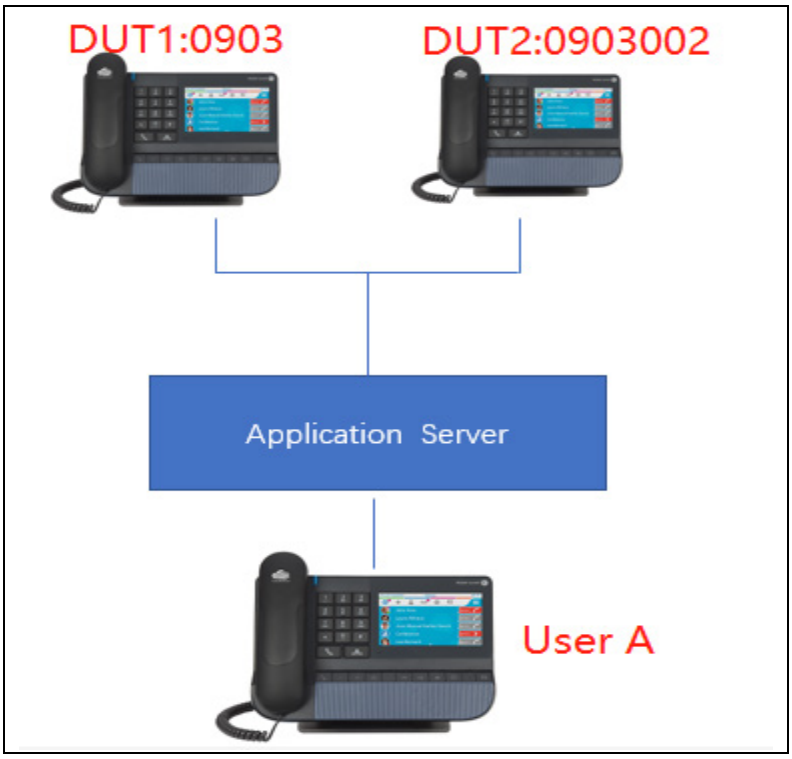

Figure 2 Shared call Appearance

The figure shows User A call DUT:0903, the first line (DUT 1) and the second line (DUT 2) will ring.

NOTE: The "0903" is a short number, the full number is 9725980903.

The following steps show how to configure both phones for this Shared Call Appearance configuration. For configurations of SCA for the device, see the example in the following section.

4.4.1.1 DUT 1's Phone Configuration—config.<macaddress>.xml

Step	Command	Description
Step 1	Configure line as shared on DUT1. `<setting id="SIPGroup1SLAEnable" value="true" override="true"/>`	Enable the SCA for DUT1.

Step 2	Configure Registration for DUT1.
	`<setting id="SIPGroup1DeviceUri" value="9725980903" override="true"/>`
	`<setting id="SIPGroup1AuthenticationName" value="9725980903" override="true"/>`
	`<setting id="SIPGroup1AuthenticationPassword" value="password" override="true"/>`
		The register name and user number must correspond with the line/port setting on Cisco BroadWorks
		If the Authentication service is configured on Cisco BroadWorks these parameters must be configured to match the Cisco BroadWorks settings.

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Step	Command	Description

Step 3	Configure Programable Key as shared line type.
	`<setting id="PhoneProgKey1Type" value="23" override="true"/>`
	`<setting id="PhoneProgKey1Account" value="1" override="true"/>`
		Set the programable key 1 as the Shared line type by define its value “23”.
		And then define this programable key 1 is working on Account 1.

Step 4	Configure DUT1’s display name. `<setting id="PhoneProgKey1Label" value="DUT1 displayname" override="true"/>`	Configure the name to be displayed on the device for this key.

4.4.1.2 DUT 2’s Phone Configuration–config.<macaddress>.xml

Step	Command	Description
Step 1	Configure line as shared on DUT2. `<setting id="SIPGroup1SLAEnable" value="true" override="true"/>`	Enable the SCA for DUT2.

Step 2	Configure Registration for DUT2.
	`<setting id="SIPGroup1AuthenticationName" value="0903002" override="true"/>`
	`<setting id="SIPGroup1DeviceUri" value="0903002" override="true"/>`
	`<setting id="SIPGroup1AuthenticationPassword" value="password" override="true"/>`
		The register name and user number must correspond with the line/port setting on Cisco BroadWorks
		If the Authentication service is configured on Cisco BroadWorks these parameters must be configured to match the Cisco BroadWorks settings.

Step 3	Configure Programable Key as shared line type.
	`<setting id="PhoneProgKey1Type" value="23" override="true"/>`
	`<setting id="PhoneProgKey1Account" value="1" override="true"/>`
		Set the programable key 1 as the Shared line type by defining its value “23”.
		And then define this programable key 1 is working on Account 1.

Step 4	Configure DUT2’s display name. `<setting id="PhoneProgKey1Label" value="DUT2 displayname" override="true"/>`	Configure the name to be displayed on the device for this key.

4.4.1.3 Hybrid Key System Configuration

Hybrid Key System emulation requires the phone to support assignment of multiple line keys to a single registering line on the phone. It also requires the phone to limit each line key to a single call appearance or provide the configurability to roll a new call over to the next free line key. Any of the locations can be used to originate or receive calls.

First, from the Shared Call Appearance configuration web page, select Add to add a second appearance.

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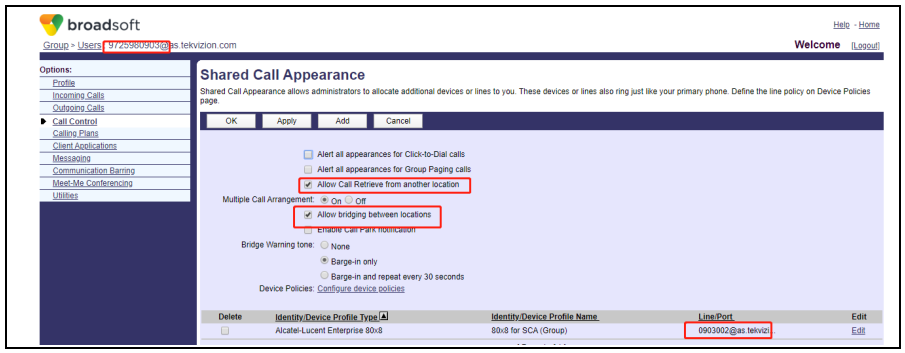

Figure 3 Shared Call Appearance Configuration Page

Second, on web page, type in the host line and second appearance line as shown in the e following figures.

1) Phone register: *Settings* → *SIP* → *Basic* → *Account1*.

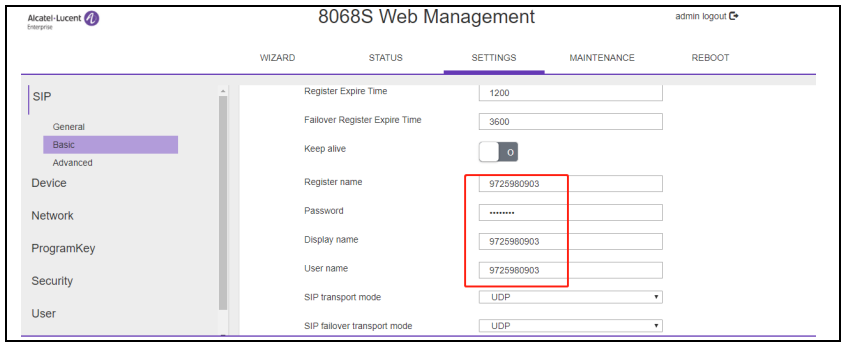

Figure 4 Account Register Page

2) To enable the SCA go to *Settings* → *SIP* → *Account1* → *Advanced* → *SLA enable*.

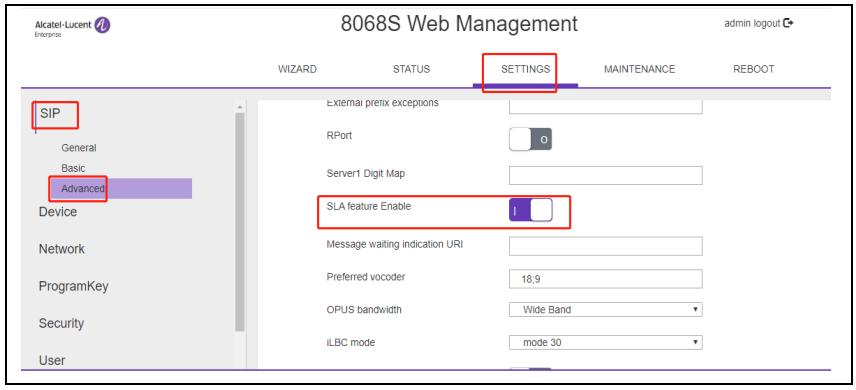

Figure 5 Shared call Appearance Enable

3) Configure Programable Key as Shared Line type.

Via web page, the *programable key* setting is shown in the following figure. On this page, the user is allowed to input display name in the “Label” box.

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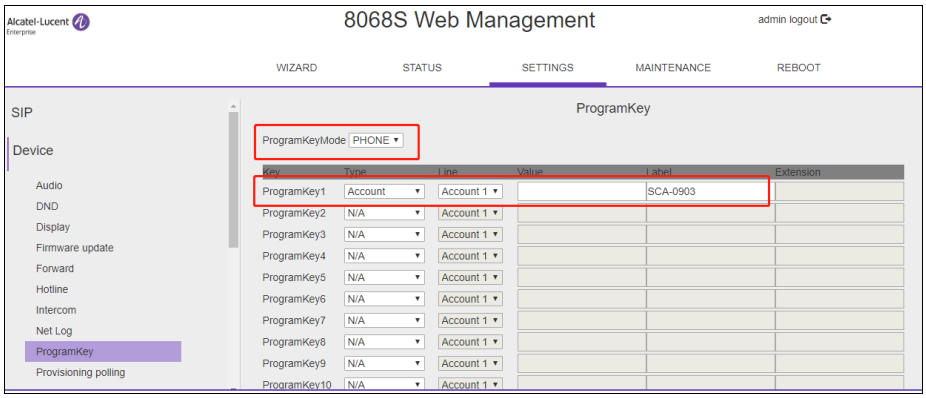

Figure 6 Programable Key Setting

4.4.2 Busy Lamp Field Configuration

The Busy Lamp Field (BLF) implementation provides an attendant console function. Configuration of the phone to enable Busy Lamp Field is described as follows.

Configure the BLF list by the configuration file.

Step	Command	Description
Step 1	Set the BLF list URI for the account1: `<setting id="SIPGroup1BLFResourceList" value="blflist0903@as.tekvizion.com" override="true"/>`	The BLF List URI must be configured to match the Cisco BroadWorks settings.

To configure the BLF list by Web Management go to *Settings → SIP → Basic → BLF List URI.*

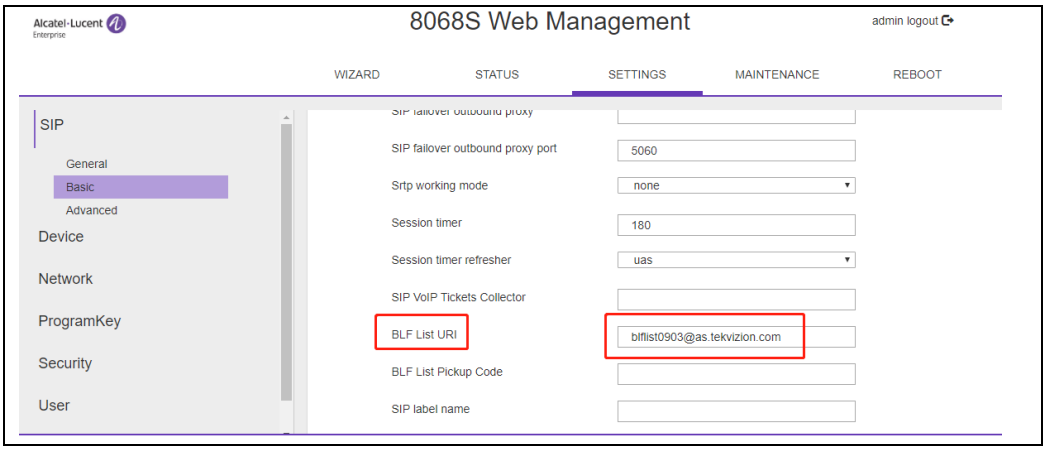

Figure 7 Busy Lamp Field

On the Cisco BroadWorks server go to *Client Applications → Busy Lamp Field* and configure the settings as shown in the following figure.

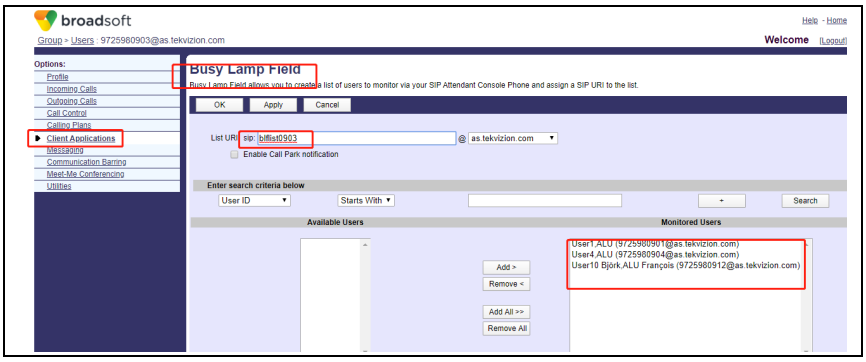

Figure 8 Busy Lamp Filed Configuration Page

4.4.3 Feature Key Synchronization Configuration

Feature Key Synchronization provides synchronization of phone services such as Call Forwarding and Do Not Disturb with the settings on Cisco BroadWorks for the analogous services. Configure the phone to enable Feature Key Synchronization as follows.

Step	Command	Description

Step 1	Set the DND & Forward mode as "Custom" mode.
	`<setting id="DndModeAccount" value="1" override="true"/>`
	`<setting id="ForwardModeAccount" value="1" override="true"/>`
		Enable customer mode on the phone for DND & FWD functions:
		0: Phone mode
		1: Custom mode

Step 2	Set the DND & Forward method as "Subscribe" mode.
	`<setting id="TelephonyDndMethod1" value="1" override="true"/>`
	`<setting id="TelephonyFwdMethod1" value="1" override="true"/>`
		Set DND & FWD Method as subscriber mode:
		0: Prefix
		1: Subscribe

4.4.4 Call Center Feature Configuration

80x8 CE Phone does not support Call Center Feature Configuration.

4.4.5 Hoteling and Flexible seating feature Configuration

80x8 CE Phone does not support Hoteling and Flexible seating feature Configuration.

4.4.6 Call Recording Feature Configuration

80x8 CE Phone does not support Call Recording Feature Configuration.

4.4.7 Security Classification Feature Configuration

80x8 CE Phone does not support Security Classification Feature Configuration.

4.4.8 Emergency Call Configuration

80x8 CE Phone does not support Emergency Call Configuration.

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4.4.9 Advice of Charge Configuration

80x8 CE Phone does not support Advice of Charge feature.

4.4.10 Conference Event Configuration

This section provides configuration instructions to configure the phone to support Network based conference.

Configure the Network conference by config file.

Step	Command	Description
Step 1	Disable the local conference. `<setting id="SIPLocalConfEnable1" value="false" override="true"/>`	Value: Ture: enable False: disable
Step 2	Enable the network-conference. `<setting id="SIPNConfUri1" value="conference@as.tekvizion .com" override="true"/>`	Enable the net-conference. conference@as.tekvizion.com

To configure the network conference by Phone's Web Management, go to *Settings* → *SIP* → *Advanced*:

1) Disable the local conference.
2) Enter a net-conference URI: conference@as.tekvizion.com.
3) Press **Apply** to save it.

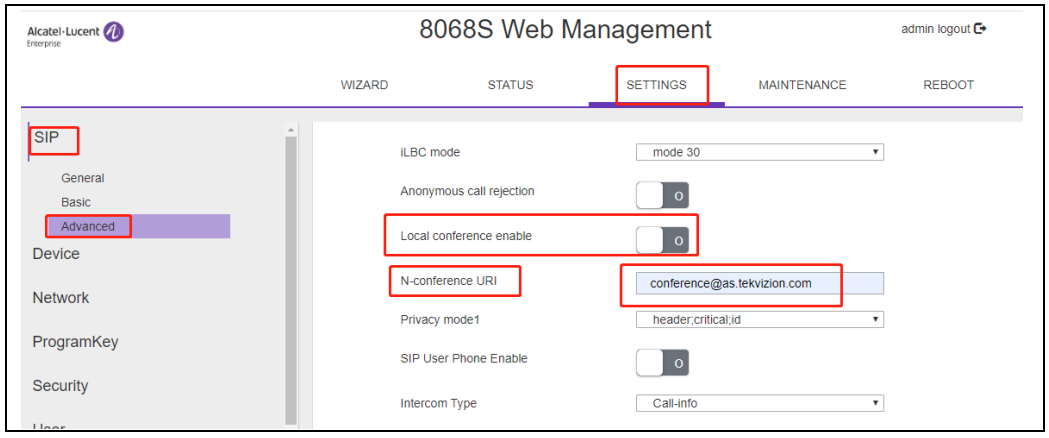

Figure 9 N-conference URI Setting Page

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5 Device Management

The Cisco BroadWorks Device Management feature provides the capability to automate generation of device configuration files to support mass deployment of devices. This section identifies the Device Management capabilities supported by the Alcatel-Lucent Enterprise 80x8 CE Series and the configuration steps required. For Device Management configuration details not covered here, see the *Cisco BroadWorks Device Management Configuration Guide* [2] and the *Cisco BroadWorks CPE Kit Usage Guide* [8].

5.1 Device Management Capabilities Supported

The Alcatel-Lucent Enterprise 80x8 CE Series has completed Device Management interoperability testing with Cisco BroadWorks using the *Cisco BroadWorks Device Management Interoperability Test Plan* [7]. The results are summarized in the following table.

The Cisco BroadWorks test plan is composed of packages, each covering distinct interoperability areas. Each package is composed of one or more test items, which in turn, are composed of one or more test cases. The test plan exercises the Device Management interface between the device and Cisco BroadWorks with the intent to ensure interoperability.

The *Supported* column in the following table identifies the Alcatel-Lucent Enterprise 80x8 CE Series' support for each of the items covered in the test plan packages, with the following designations:

- Yes Test item is supported
- No Test item is not supported
- NA Test item is not applicable
- NT Test item was not tested

Caveats and clarifications are identified in the *Comments* column.

NOTE: *DUT* in the following table refers to the *Device Under Test*, which in this case is the Alcatel-Lucent Enterprise 80x8 CE Series.

Cisco BroadWorks Device Management Interoperability Test Plan Support Table

Test Plan Package	Test Plan Package Items	Supported	Comments
HTTP File Download	HTTP Download Using XSP IP Address	Yes	
	HTTP Download Using XSP FQDN	Yes	
	HTTP Download Using XSP Cluster FQDN	Yes	
	HTTP Download With Double Slash	Yes	
HTTPS File Download	HTTPS Download Using XSP IP Address	Yes	
	HTTPS Download Using XSP FQDN	Yes	
	HTTPS Download Using XSP Cluster FQDN	Yes	

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Cisco BroadWorks Device Management Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
HTTPS File Download with Client Authentication	HTTPS Download with Client Authentication Using XSP FQDN	Yes	
	HTTPS Download with Client Authentication Using XSP Cluster FQDN	Yes	
Time Zone Mapping	Inspect Time Zone Setting	Yes	
Language Mapping	Inspect Language Setting	Yes	
File Inspection	Inspect System Config File	Yes	
	Inspect Device-Specific Config File	Yes	
	Inspect Other Config Files	Yes	
	Inspect Static Files	Yes	
Device Inspection	Inspect SIP Settings	Yes	
	Inspect Line Settings	Yes	
	Inspect Service Settings	Yes	
HTTP File Upload	HTTP Upload Using XSP IP Address	No	
	HTTP Upload Using XSP FQDN	No	
	HTTP Upload Using XSP Cluster FQDN	No	
Call Processing Sanity Tests	Register with Authentication	Yes	
	Call Origination	Yes	
	Call Termination	Yes	
	Remote Restart	Yes	
	Shared Line Origination	Yes	
	Shared Line Termination	Yes	
	Shared Line Status	Yes	
	Busy Lamp Field	Yes	
	Network-Based Conference	Yes	
Flexible Seating	Association via Voice Portal	Yes	
	Association via Phone	No	
No Touch Provisioning	Provision via DHCP Options Field	Yes	
	No Touch Provision via DM redirect	No	
	No Touch Provision via Vendor redirect	Yes	

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5.2 Device Management Configuration

This section identifies the steps required to enable the Alcatel-Lucent Enterprise 80x8 CE Series for device management. For Device Management configuration details not covered here, see the *Cisco BroadWorks Device Management Configuration Guide* [2] and the *Cisco BroadWorks CPE Kit Usage Guide* [8].

5.2.1 Configure Cisco BroadWorks Tags

The template files in Device Management use tags to represent the data stored on Cisco BroadWorks. When the configuration changes for a user, Device Management parses the template files and replaces the Device Management tags with the associated data stored on Cisco BroadWorks. There are default tags defined in the Device Management software and there are custom tags that the service provider can create and define via the web portal for use by Device Management. There are two types of custom tags that can be defined: system-default tags that are common to all devices on the system and device type-specific tags that are common to Alcatel-Lucent Enterprise device models only.

The Alcatel-Lucent Enterprise 80x8 CE Series make use of custom tags which can be configured by a Cisco BroadWorks administrator as either system default or device type-specific tags. This section identifies the required tags.

5.2.1.1 Create System Default Tags

Browse to *System* → *Resources* → *Device Management Tag Sets* and select the *System Default* tag set. The Alcatel-Lucent Enterprise configuration templates make use of the tags in the following table. Add the tags if they do not already exist.

Tag Name	Valid Settings	Description
%SNTP_SERVER_1%	IP address/FQDN	Network Time Protocol (NTP) server address.
%SNTP_SERVER_2%	IP address/FQDN	NTP server address alternate.
%DNS_SERVER_1%	IP address	DNS server address.
%DNS_SERVER_2%	IP address	DNS server address alternate.
%SBC_ADDRESS%	IP address/FQDN	SBC SIP address.
%SBC_PORT%	Port	SBC SIP port. The port should be set if the defined session border controller (SBC) address is an IP address. If the SBC address is an FQDN, then the SBC port should not be set.
%BWLANGUAGE-1%	English (US) English (BR) French German Italian Japanese Russian Spanish	Language used for web management and phone LCD.

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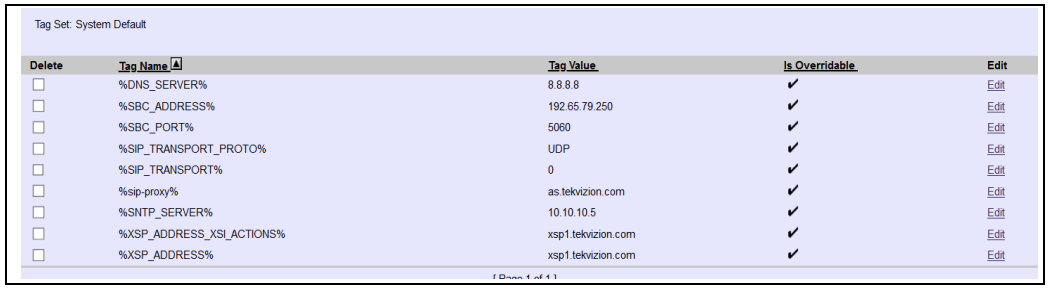
Tag Name	Valid Settings	Description
%BWTIMEZONE-1%	GREENWICH_MEAN_TIME CANADA_EASTERN_TIME US_EASTERN_TIME= US_INDIANA= CANADA_CENTRAL_TIME US_CENTRAL_TIME= CANADA_MOUNTAIN_TIME MEXICO_MOUNTAIN_TIME US_MOUNTAIN_TIME US_ARIZONA CANADA_PACIFIC_TIME US_PACIFIC_TIME US_ALASKA US_HAWAII	Timezone for web management and phone LCD.
%BWLINEPORT-x%	SIPx User Name	User Name for SIPx.
%BWNAME-x%	SIPx Display Name	Display Name for SIPx.
%BWHOST-x%	SIPx Proxy Address	Register Address for SIPx.
%BWAUTHUSER-x%	SIPx Register User	Register User name for SIPx.
%BWAUTHPASSWORD-x%	SIPx Register Pswd	Register Password for SIPx.
%BWNETWORK-CONFERENCE-SIPURI-x%	SIPx Network-Conf Uri	Network-Conf Uri for SIPx.
%BWBLF-URI-x%	SIPx BLFList Uri	BLF List URI for SIPx.
%BWVOICE-PORTAL-NUMBER-x%	VoiceMail Number	The phone number of the group voice portal associated with the line.

Example System Default Tag Settings


Tag Set: System Default

Delete	Tag Name	Tag Value	Is Overridable	Edit
☐	%DNS_SERVER%	8.8.8.8	✔	Edit
☐	%SBC_ADDRESS%	192.65.79.250	✔	Edit
☐	%SBC_PORT%	5060	✔	Edit
☐	%SIP_TRANSPORT_PROTO%	UDP	✔	Edit
☐	%SIP_TRANSPORT%	0	✔	Edit
☐	%sip-proxy%	as.tekvizion.com	✔	Edit
☐	%SNTP_SERVER%	10.10.10.5	✔	Edit
☐	%XSP_ADDRESS_XSI_ACTIONS%	xsp1.tekvizion.com	✔	Edit
☐	%XSP_ADDRESS%	xsp1.tekvizion.com	✔	Edit

Figure 10 System Default Tag Settings

5.2.1.2 Create Device Type-specific Tags

Browse to *System* → *Resources* → *Device Management Tag Sets* and then click **Add** to add a new tag set. Configure the tag set name using the device name appended by *Tags*: *Alcatel-Lucent-80x8 CE-Tags*. Add the device type specific tags in the following table to the device tag set. If the tag set already exists, make sure the following tags are defined.

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NOTE: The Alcatel-Lucent Enterprise 80x8 CE Series does not currently require device type-specific tags, but it is important to create the tag set as a placeholder to enable use of tags in the future.

Example Device Type-specific Tag Settings

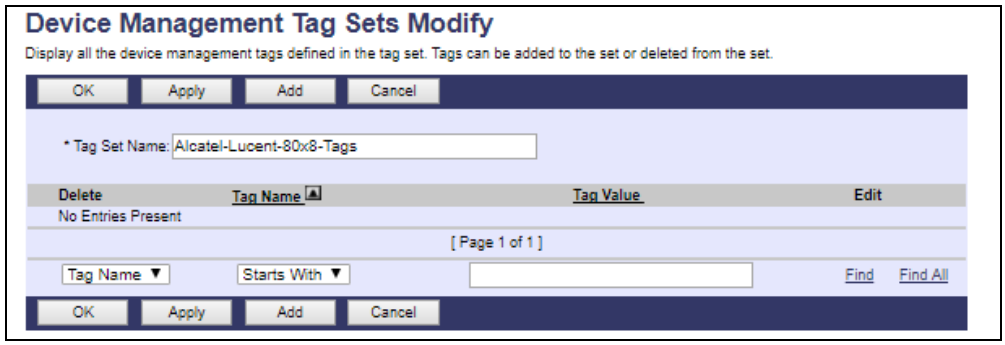

Figure 11 Device Type-specific Tag Settings

5.2.2 Configure Cisco BroadWorks Device Profile Type

The device profile type is a system-level structure that defines how the device interfaces with Cisco BroadWorks. It also identifies the default configuration files and other files, such as firmware, which are required for the device to operate correctly. The device profile type is created by the system administrator. Group administrators use the device profile type to create a device profile. The device profile is an instance of the device profile type that is associated with a physical device.

There are two Cisco BroadWorks device profile configuration methods described: import and manual. The import method takes a DTAF as input and builds the Cisco BroadWorks device profile type(s) automatically. The manual method takes the administrator through the steps to manually add and configure the device profile type(s).

The import method should be used if all of the following prerequisites are met:

- The Cisco BroadWorks Release is 17.0 or later.
- The device profile type(s) being imported do not already exist on the system. (If either a previous import or manual configuration was done, then the import fails.)
- There is a DTAF file available for import with a Cisco BroadWorks release level that is the same as or prior to the release to which it is being imported. If the DTAF file is at a release level later than the release being imported to, then the import can fail.

Otherwise, use the manual method.

For more detailed instructions, see the *Cisco BroadWorks CPE Kit Usage Guide* [8] and the *Cisco BroadWorks Device Management Configuration Guide* [2].

5.2.2.1 Configuration Method 1: Import

This section identifies the steps necessary to make use of the Device Management import feature to configure Cisco BroadWorks to add the Alcatel-Lucent Enterprise 80x8 CE Series as a Device Management-enabled device type. Also, see the *Cisco BroadWorks CPE Kit Usage Guide* [8].

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Download the Alcatel-Lucent Enterprise 80x8 CE Series CPE kit from BroadSoft Xchange at cisco.com. Extract the DTAF file(s) from the CPE kit. These are the import files. Repeat the following steps for each model you wish to import.

1) Log in to Cisco BroadWorks as an administrator.
2) Browse to *System* → *Resources* → *Identity/Device Profile Types* and then click **Import**.
3) Select *Browse* to find the extracted DTAF file for the model and then click **OK** to start the import.

   After the import finishes, complete the following post-import configuration steps:

4) Browse to *System* → *Resources* → *Identity/Device Profile Types.*
5) Perform a search to find the imported Alcatel-Lucent Enterprise device profile type, Alcatel-Lucent Enterprise 80x8 CE Series.
6) Browse to the *Profile* page and change the Device Management Device Access FQDN to your Xtended Services Platform (Xsp) or Xsp cluster address.

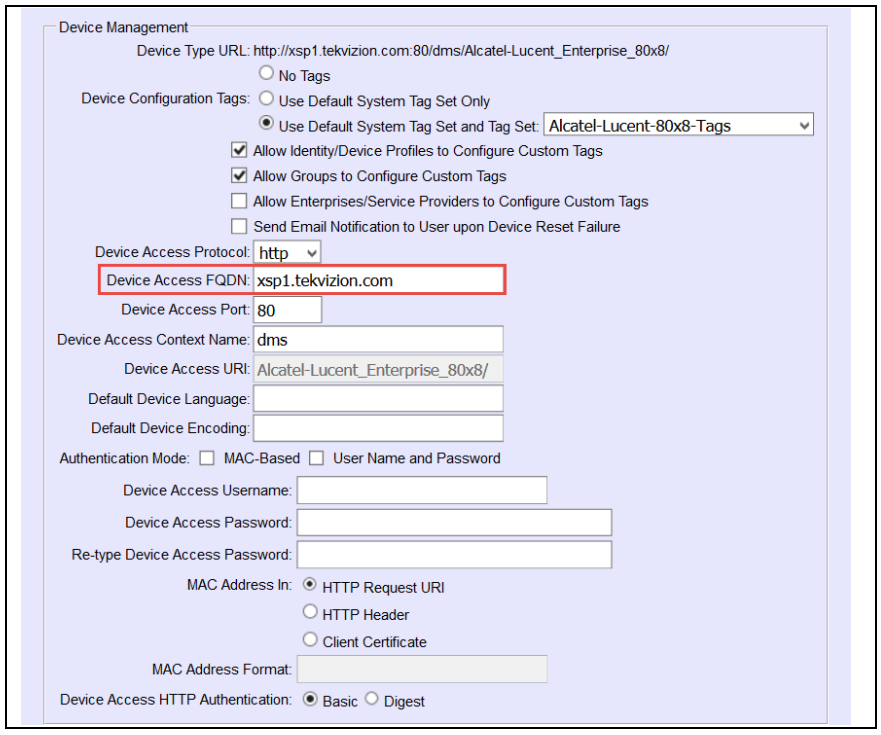

Figure 12 Device Access FQDN

7) After importing the DTAFs, restart the Application Server to load the *TimeZoneAlias* files.

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5.2.2.2 Configuration Method 2: Manual

This section identifies the basic steps necessary for an administrator to manually configure Cisco BroadWorks to add the Alcatel-Lucent Enterprise 80x8 CE Series as a Device Management-enabled device type. This method should not be used except in special cases as described in the opening to section *5.2.2 Configure Cisco BroadWorks Device Profile Type*.

For more detailed instruction on manual configuration, see the *Cisco BroadWorks CPE Kit Usage Guide* [8] and the *Cisco BroadWorks Device Management Configuration Guide* [2].

The steps in this section can also be followed to update previously imported or configured device profile type(s) with new configuration files and firmware.

If there are DTAFs for more than one device model, these steps must be completed for each model.

5.2.2.2.1 Create or Modify Device Profile Type

This section identifies the Cisco BroadWorks device profile type settings relevant to Device Management for the Alcatel-Lucent Enterprise 80x8 CE Series.

Browse to *System* → *Resources* → *Identity/Device Profile Types* and perform a search to find the Alcatel-Lucent Enterprise device profile type(s) created in section *3.1 Cisco BroadWorks Device Profile Type Configuration* or add the device profile type for each model using the settings from section *3.1 Cisco BroadWorks Device Profile Type Configuration* if they do not exist.

Configure the device profile type *Signaling Address Type*, *Standard* and *Advanced* options settings to match the settings in section *3.1 Cisco BroadWorks Device Profile Type Configuration*.

Configure the device profile type *Device Management* options as shown in section *5.2.2.1 Configuration Method 1: Import*.

The following subsections identify the required settings specific to Device Management.

5.2.2.2.2 Define Device Profile Type Files

This section describes the Cisco BroadWorks Device Management configuration necessary to identify the configuration files and other files that the Alcatel-Lucent Enterprise 80x8 CE Series download.

Configuration template the 80x8 CE uses must be uploaded to Cisco BroadWorks. Download the Alcatel-Lucent Enterprise 80x8 CE Series CPE kit from BroadSoft Xchange at cisco.com. Extract the configuration files from the *Configuration Files* folder of CPE kit.

The following table identifies the Alcatel-Lucent Enterprise configuration files distributed with the 1.53.20 CPE kit.

File Name	CPE Kit Template File Name	File Type	Description
Examples			
config.%BWMACADDRESS%.xml	*Config.%BWMACADDRESS%.xml.template*	Device-specific	This file contains all the configuration that the device needs to load.

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File Name	CPE Kit Template File Name	File Type	Description
TimeZoneAliasLabels_Alcatel-Lucent-80x8CE.properties	*TimeZoneAliasLabels_Alcatel-Lucent-80x8CE.properties*	Time Zone Alias	The time zone alias file is a Cisco BroadWorks Device Management file used to map time zone identifiers between Cisco BroadWorks and Alcatel-Lucent Enterprise devices.
Config.xml	*Config.xml*	System-Level	This file is the default file that the phone requests when the config.%BWMACADDRESS%.xml file is not present.
LanguageAliasLabels_Alcatel-Lucent-80x8CE.properties	*LanguageAliasLabels_Alcatel-Lucent-80x8CE.properties*	Language Alias	The language alias file is a Cisco BroadWorks Device Management file used to map time zone identifiers between Cisco BroadWorks and Alcatel-Lucent Enterprise devices.

5.2.2.2.2.1 config.%BWMACADDRESS%.xml

Add the config.%BWMACADDRESS%.xml file to the device profile type with the settings shown in *Figure 13*.

After creating the device profile type file, upload config.%BWMACADDRESS%.xml, which is extracted from the CPE kit obtained from Alcatel-Lucent Enterprise. Use the **Browse** button on the file definition screen. Be sure to click **Apply** after uploading the file.

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Figure 13 config.%BWMACADDRESS%.xml File Settings

5.2.2.2.3 *Time Zone Mapping*

The CPE kit contains a time zone properties file for each device model. This file maps the Cisco BroadWorks user's time zone settings to the device's time zone settings.

This time zone mapping file must be added to the */usr/local/Cisco BroadWorks/bw_base/conf/dms* directory on the Application Server using the following file name format: *TimeZoneAliasLabels_<Device_Type_Name>.properties*.

For example, if the device type name is *MyDevice T200,* the time zone mapping file name must be *TimeZoneAliasLabels_MyDevice+T200.properties*. (A space in the device name must be converted to a "+" in the file name.) A separate *TimeZoneAlias* file must be provided for each device profile type, corresponding to each device profile type created.

You must restart the Application Server for the *TimeZoneAlias* files to be picked up by the system.

5.2.2.2.4 *Language Mapping*

To enable Device Management control of the phone language for languages other than English, the languages defined on the Cisco BroadWorks Application Server must be mapped to the 80x8 CE definitions.

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To perform the mapping, select the device profile type and from there select the *Languages* link. The defined Cisco BroadWorks languages will be listed in a table. If languages other than English do not appear, they have not yet been defined on the Cisco BroadWorks Application Server.

The supported languages and required mapping are:

Cisco BroadWorks Language Identifier	ALE80x8 CE Language Mapping
English (US)	en
English (BR)	en
French	fr
German	de
Italian	it
Japanese	jp
Russian	ru
Spanish (Spain)	es

The language applied to an individual phone is determined by the language defined for the user on the *Cisco BroadWorks User's Profile* page (see *Figure 6*).

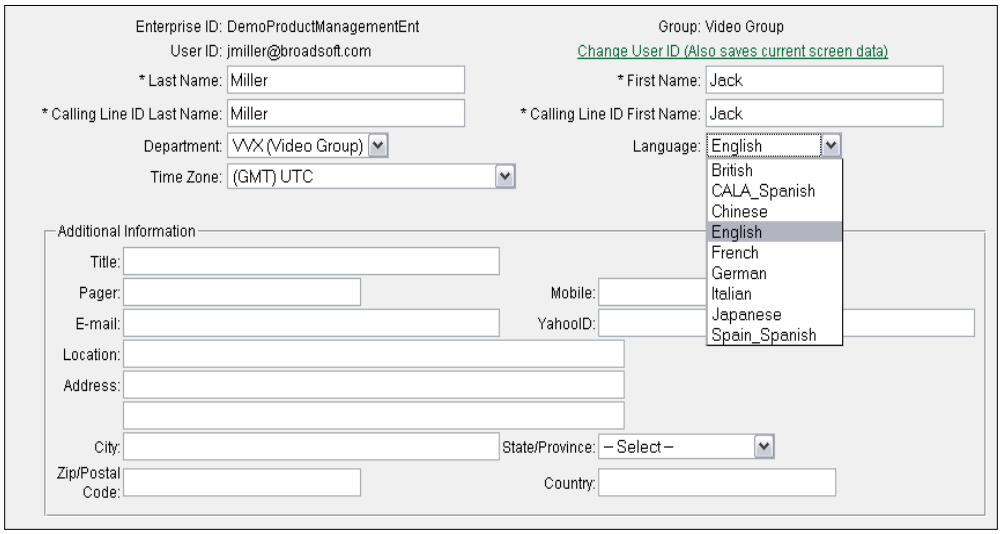

Figure 14 Cisco BroadWorks User Language Definition

5.2.3 Create Device Profile Instance

The previous sections defined the device profile type such that the system is ready to mass deploy device profiles. A device profile is an instance of the device profile type and defines the Cisco BroadWorks interface to an individual Alcatel-Lucent Enterprise device.

Browse to the Cisco BroadWorks *<group>* → *Resources* → *Identity/Device Profiles* page and then select **Add** to add a new Alcatel-Lucent Enterprise 80x8 CE device profile. Configure the device profile as shown in the *Figure 8* example.

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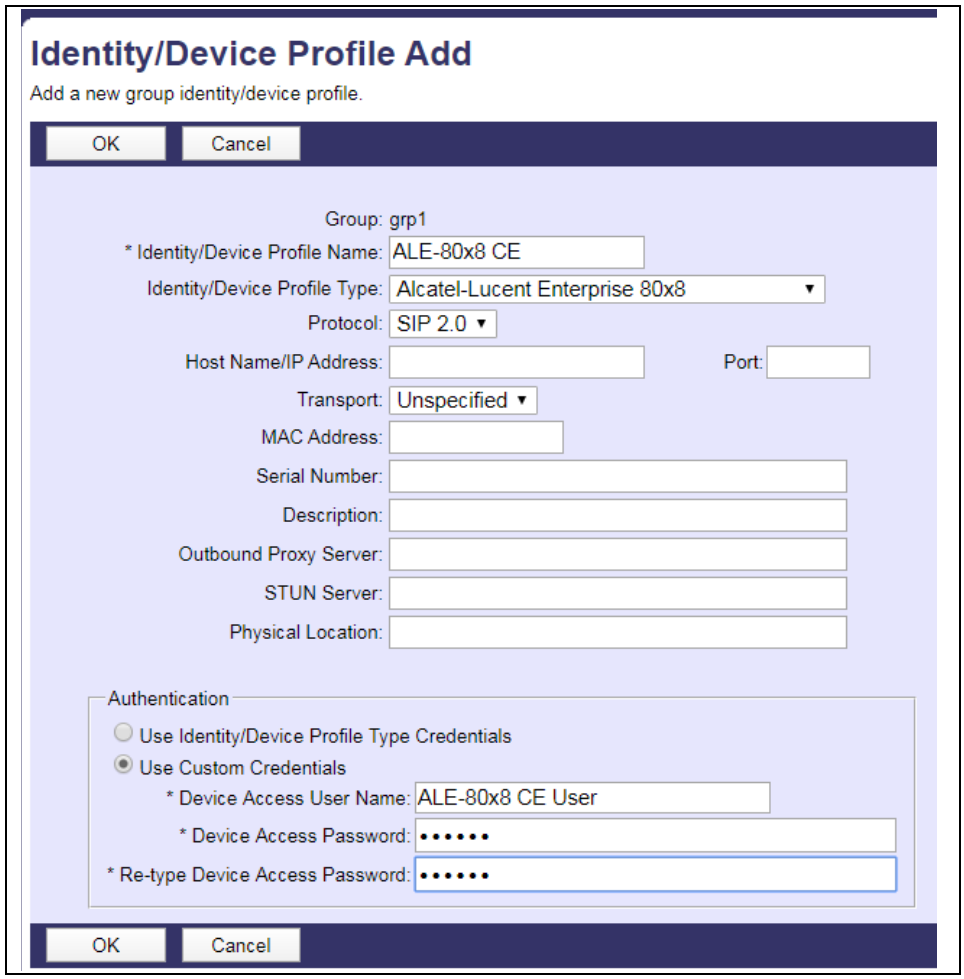

Figure 15 Device Profile Instance

5.2.4 Configure Cisco BroadWorks User

Configure the user with the desired Cisco BroadWorks configuration and services. Any services that require a specific configuration on the device are managed via Device Management and are defined in the device configuration files, if the template files are created with the correct Device Management tags.

The device profile created in the previous section must be assigned to the Cisco BroadWorks user. Assigning the device profile to the user automatically causes the Device Management feature to generate the device configuration files for this user's device.

To assign the device profile to the user, browse to the Cisco BroadWorks *<user>* → *Addresses.*

5.2.5 Customize Tags

This section identifies custom tags used by the 80x8 CE that may need to be customized at the group or device profile. Customizing a tag at the group level overrides the setting on the device profile type for the device profiles created within the group. Customizing a tag at the device profile level overrides the setting at the device profile type and/or group level for the individual device profile.

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5.2.5.1 SBC Address Customization for Edge Device

In many deployments, an edge device, such as an enterprise SBC or application layer gateway, is deployed on the enterprise edge. The edge device's SIP server or outbound proxy setting is configured with the service provider's SBC IP address or FQDN. If there is no edge device, the following customization does not apply.

To integrate the edge device with Device Management, the SBC address tag (%SBC_ADDRESS%) defined in section *5.2.1.1 Create System Default Tags* must be overridden at the group level with the LAN address of the edge device. To do so, perform that following steps.

1) At the *Group* → *Utilities* → *Configure Device* page, select the Alcatel-Lucent Enterprise device profile (for example, jc-ALE-80x8 CE).
2) Click on the *Custom Tags* tab.
3) Click **Add**.
4) For the tag, enter "SBC_ADDRESS".
5) For the value, enter the edge device LAN IP address.
6) To save the tag data, click **OK**.

5.2.6 Configure Alcatel-Lucent Enterprise 80x8 CE Series

This section describes the steps necessary to configure the Alcatel-Lucent Enterprise 80x8 CE Series to integrate with Cisco BroadWorks Device Management.

5.2.6.1 Defining Device Management File Access URI

The 80x8 CE series desk phone can use either static mode or DHCP mode to get the URL of the provisioning server parameters.

If using static mode, user need to configure the DM_URL in phone local setting with the provisioning server parameter.

If using DHCP mode, the DM_URL could be defined in Option 43, sub-option 67 on the DHCP server. If the DHCP server returns data set for the Option 43, sub-option 67, then the 80x8 CEs series phone uses the URL defined in this field to retrieve its configuration file. For Https mode, option 66 is recommended.

To utilize DHCP Options Field, the VCI (Vendor Class Identifier) should be configured as "*alcatel.ictouch.0*". And the following value should be configured on the DHCP server for Option 43, sub-option 67:

```
<Access Protocol>://<Device Access FQDN>:<Device Access Port>/
<Device Access Context Name>/<Device Access URI>
```

Example (the DHCP option configuration on Windows DHCP Server):

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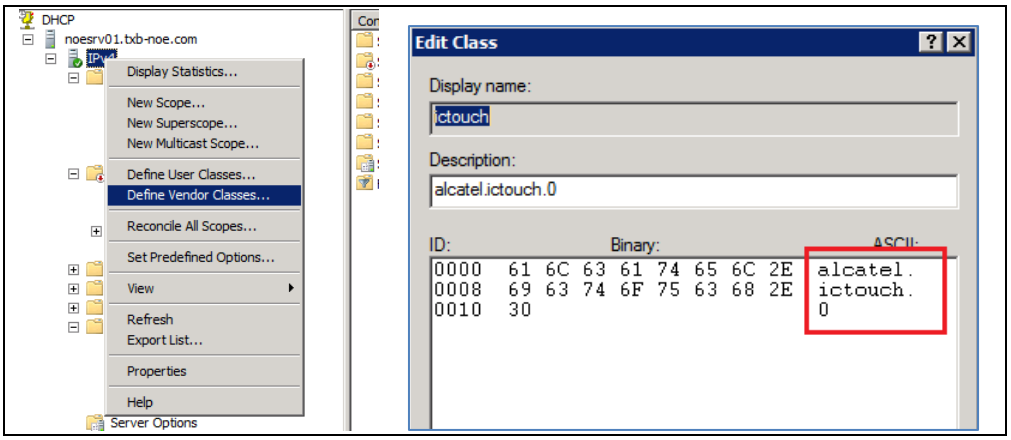

Figure 16 Step 1: VCI Configuration

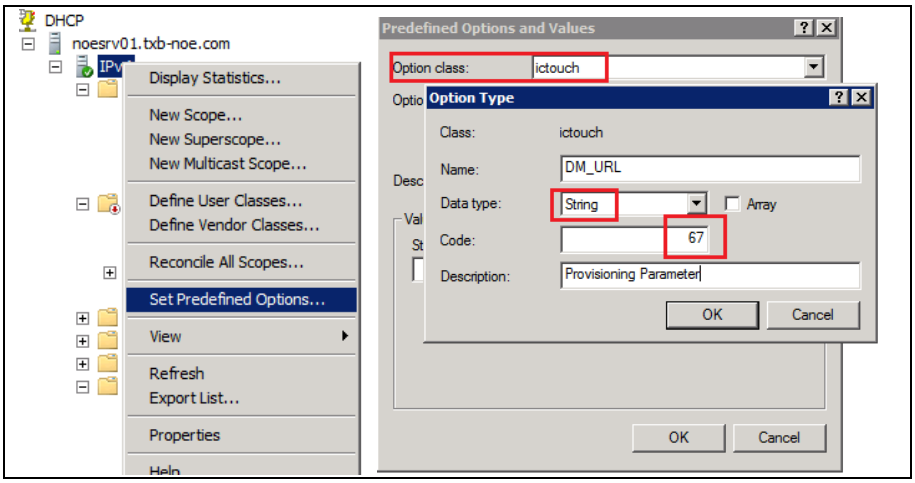

Figure 17 Step 2: Create Sub-option 67 of the VCI

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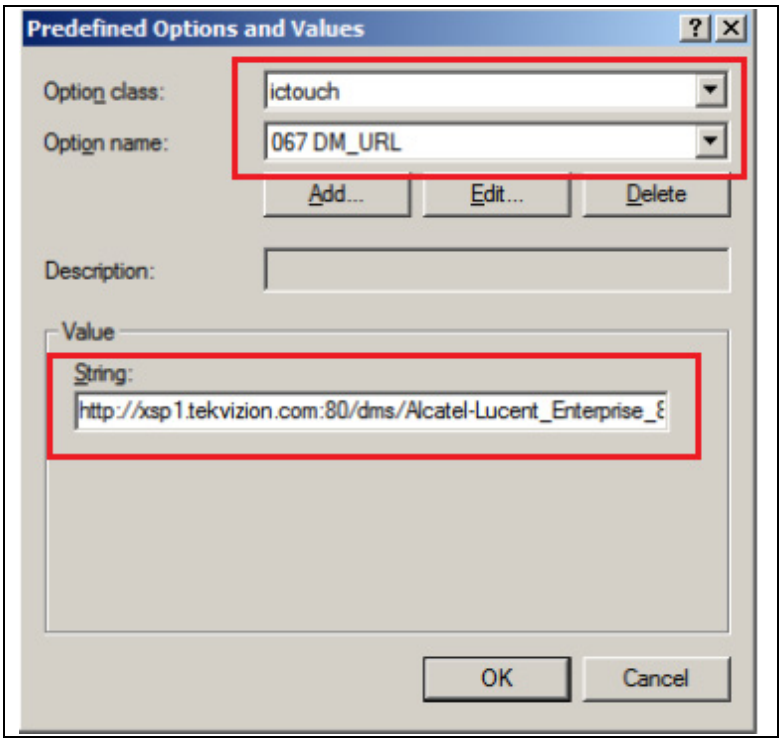

Figure 18 Step 3: Configure Value of Option 43/Sub-option 67

In case manual configuration is required, follow the instructions to manually define the Device Management file access URL:

1) Log in to the phone's local admin interface (*Local MMI*) for the *Settings – Admin*. And then, enter the admin password.
2) Go to the submenu *DM* and configure the provisioning parameter in the *URL* field.
3) Press the **Ok** key to save, and the phone will reboot automatically.

5.2.6.2 No Touch Provisioning via ALE Redirect service(EDS)

ALE Device Management Redirect is a web redirect service hosted by ALE. It works in conjunction with the Tekvizion Device Management Redirect. So, before the deployment, user should login to EDS's web portal to associate each device based on the MAC address, it will generate no touching profile which includes the Tekvizion Device Management URL. During boot up time, device will send https request to download the profile, after device parse this file, it will redirect to Tekvizion to download the specific device file successfully. For more detailed information, go to https://admin.eds.al-enterprise.com and read the user guide.

Appendix A: Reference 80x8 CE Series Configuration Files

The following is a reference configuration for the 80x8 CE Series configured for use with Cisco BroadWorks.

Device-specific File: config.%MACADDRESS%.xml

> **NOTE**: This is an example file and it should be used for reference only.

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
<!--DM file related-->
                <setting id="DmEnetcfgUpgradeFile"
value="http://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%"
override="true"/>
                <setting id="DmAdmcfgUpdateTimeStart" value="02:30" override="true"/>
                <setting id="DmAdmcfgUpdateTimeDelta" value="5" override="true"/>
                <setting id="DmAdmcfgCfgfilePollingEnable" value="true" override="true"/>
                <setting id="DmAdmcfgCfgfilePollingTimeout" value="86400" override="true"/>
                <setting id="DmAdmcfgUpdateTimeEnable" value="true" override="true"/>
<!--Timezone Related-->
        <setting id="DmAdmcfgTimeZoneUtoffset" value="%BWTIMEZONE-1%" override="true"/>
        <setting id="DmAdmcfgDstEnable" value="0" override="true"/>
                <setting id="DmEnetcfgSntp" value="%SNTP_SERVER_1%" override="true"/>
                <setting id="DmEnetcfgSntp2" value="%SNTP_SERVER_2%" override="true"/>
                <setting id="DmEnetcfgSntpRefreshPeriod" value="3600" override="true"/>
<!--Ethernet Related-->
                <setting id="LocalEnetcfgDns1" value="%DNS_SERVER_1%" override="true"/>
        <setting id="LocalEnetcfgDns2" value="%DNS_SERVER_2%" override="true"/>

<!--SIP related-->

        <setting id="SIPAutoAnsweredAllowed" value="true" override="true"/>
        <setting id="SIPRegisterRetry" value="300" override="true"/>
        <setting id="SIPLocalSipPort" value="5060" override="true"/>
                <setting id="SIPLocalSipsPort" value="5061" override="true"/>
        <setting id="SIPPreferredVocoder" value="8;0;18;9;98;125" override="true"/>

<!--SIP Group server 1 related-->
        <setting id="SIPGroup1ServerType" value="6" override="true"/>
        <setting id="SIPGroup1AuthenticationName" value="%BWAUTHUSER-1%" override="true"/>

        <setting id="SIPGroup1AuthenticationPassword" value="%BWAUTHPASSWORD-1%"
override="true"/>
        <setting id="SIPGroup1DeviceUri" value="%BWLINEPORT-1%" override="true"/>
        <setting id="SIPGroup1DisplayName" value="%BWNAME-1%" override="true"/>
                <setting id="SIPServer1Address" value="%BWHOST-1%" override="true"/>
                <setting id="SIPServer1Port" value="5060" override="true"/>
                <setting id="SIPGroup1TransportMode" value="0" override="true"/>
        <setting id="SIPGroup1OutBoundProxyAddress" value="%SBC_ADDRESS%" override="true"/>
                <setting id="SIPGroup1OutBoundProxyPort" value="%SBC_PORT%" override="true"/>


                <setting id="SIPGroup1SessionTimer" value="0" override="true"/>
                <setting id="SIPGroup1SessionTimerRefresher" value="0" override="true"/>
                <setting id="SIPGroup1DtmfMode" value="2" override="true"/>
                <setting id="SIPGroup1SrtpWorkingMode" value="0" override="true"/>

                <setting id="SIPNConfUri1" value="%BWNETWORK-CONFERENCE-SIPURI-1%"
override="true"/>
                <setting id="SIPGroup1BLFResourceList" value="%BWBLF-URI-1%" override="true"/>
                <setting id="SIPVoIPTicketsCollector1" value="" override="true"/>


<!--SIP Group server 2 related-->
        <setting id="SIPGroup2ServerType" value="6" override="true"/>
        <setting id="SIPGroup2AuthenticationName" value="%BWAUTHUSER-2%" override="true"/>

        <setting id="SIPGroup2AuthenticationPassword" value="%BWAUTHPASSWORD-2%"
override="true"/>
        <setting id="SIPGroup2DeviceUri" value="%BWLINEPORT-2%" override="true"/>
        <setting id="SIPGroup2DisplayName" value="%BWNAME-2%" override="true"/>
                <setting id="SIPServer2Address" value="%BWHOST-2%" override="true"/>
```


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```
                <setting id="SIPServer2Port" value="5060" override="true"/>
                <setting id="SIPGroup2TransportMode" value="0" override="true"/>
        <setting id="SIPGroup2OutBoundProxyAddress" value="%SBC_ADDRESS%" override="true"/>
                <setting id="SIPGroup2OutBoundProxyPort" value="%SBC_PORT%" override="true"/>


                <setting id="SIPGroup2SessionTimer" value="0" override="true"/>
                <setting id="SIPGroup2SessionTimerRefresher" value="0" override="true"/>
                <setting id="SIPGroup2DtmfMode" value="2" override="true"/>
                <setting id="SIPGroup2SrtpWorkingMode" value="0" override="true"/>

        <setting id="SIPNConfUri2" value="%BWNETWORK-CONFERENCE-SIPURI-2%" override="true"/>
        <setting id="SIPGroup2BLFResourceList" value="%BWBLF-URI-2%" override="true"/>
        <setting id="SIPVoIPTicketsCollector2" value="" override="true"/>

<!--VoiceMail related-->
        <setting id="TelephonyVmNumber1" value="%BWVOICE-PORTAL-NUMBER-1%" override="true"/>
                <setting id="TelephonyVmNumber2" value="%BWVOICE-PORTAL-NUMBER-2%"
override="true"/>
        <setting id="SIPMessageWaitingIndicationUri1" value="%BWLINEPORT-1%@%BWSERVERADDRESS%"
override="true"/>
                <setting id="SIPMessageWaitingIndicationUri2" value="%BWLINEPORT-
2%@%BWSERVERADDRESS%" override="true"/>
<!--Language-->
        <setting id="language" value="%BWLANGUAGE-1%" override="true"/>

<!--Do Not Disturb Related-->
        <setting id="DndModeAccount" value="1" override="true"/>
                <setting id="TelephonyDndMethod1" value="1" override="true"/>
                <setting id="TelephonyDndMethod2" value="1" override="true"/>
<!--Telephony related-->
        <setting id="ForwardModeAccount" value="1" override="true"/>
                <setting id="TelephonyFwdMethod1" value="1" override="true"/>
                <setting id="TelephonyFwdMethod2" value="1" override="true"/>
</settings>
```


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