



Cisco BroadWorks

Partner Configuration Guide

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series

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Cisco® Guide

Notification

BroadSoft BroadWorks has been renamed to Cisco BroadWorks. You will begin to see the Cisco name and company logo, along with the new product name on the software, documentation, and packaging. During this transition process, you may see both BroadSoft and Cisco brands and former product names. These products meet the same high standards and quality that both BroadSoft and Cisco are known for in the industry.

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Document Revision History

Version	Reason for Change
1.1	Introduced document for Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series version 2.2.10 validation with BroadWorks Release R23.0
1.2	Edited changes and published document.

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1 Overview

This guide describes the configuration procedures required for the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series for interoperability with Cisco BroadWorks. This includes the following models:

Voice model:

- X5S/X6/X7/X7C/X210/X210i/H2U/H3V/H5V/H3W/H5W/H6W/H7/H7W
- J1/J1P/J3/J3G/J4/J4G/J4SG/J5/J6/J6V/J7/J7C/J210/J320/J3W/J4W/J7W/E6G
- V62/V62P/V63/V63P/V63G/V64/V64W/V65/V66/V67/V67V/V67A/V68
- X1SG/X1S/X1SP/X3SG/X4SG
- X3T/X4T/X5T/X6T/X7T/X210T
- X3U/X4U/X5U/X6U
- X1W/X3W/X3V/X4W/X5W/X6W/X7W/X7CW/X210W

Video Model:

- X7A/H7A
- VS32/V/S32i/V/S32V/V/S33/V/S33i/V/S33V/V/S53/V/S55
- V67A
- J7A

The Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series are IP 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 Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series. For those details, see the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series *User Guide* [1] supplied by Fanvil.

2 Interoperability Status

This section provides the known interoperability status of the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV 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 Fanvil.

2.1 Verified Versions

The following table identifies the verified Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV 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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series 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 Fanvil.

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].

Date (mm/yyyy)	Cisco BroadWorks Release	Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV	Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Compatible Versions
08/2020	Release 23.0	2.2.10	List any specific compatible versions

2.2 Interface Capabilities Supported

This section identifies interface capabilities that have been verified through testing as supported by Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series

The *Supported* column in the tables in this section identifies the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series's 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
- NT Test item was not tested

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

2.2.1 SIP Interface Capabilities

The Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series has completed interoperability testing with 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 **Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series**.

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Basic Call	Register with Authentication	Yes	
	Re-Register	Yes	
	Minimum Registration Time	Yes	
	Inbound Call	Yes	
	Outbound Call	Yes	
	Dial Plan	Yes	
	Session Audit	Yes	
	Ringback and Early Media	Yes	
	Inband DTMF over G722	Yes	
	Inband DTMF over G711	Yes	
	RFC2833 DTMF over G722	Yes	
	RFC2833 DTMF over G711	Yes	
	RFC2833 DTMF over G729	Yes	
	Voice Message Deposit	Yes	
	Voice Message Retrieval	Yes	
Solicited MWI	Yes		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Unsolicited MWI	Yes	
	MWI Update During Active Call	Yes	
	Message Waiting Count	Yes	
	Message Waiting Saved and Urgent	Yes	
	Codec Renegotiation and SDP Handling	Yes	
	Calling Name and Number Presented	Yes	
	Calling Name and Number Restricted	Yes	
	Calling Name with Unicode Characters	Yes	
	Connected Line ID Presentation	Yes	
	Connected Line ID Presentation with Unicode Characters	Yes	
	Connected Line ID Restriction	Yes	
	Connected Line ID Presentation after Call Forward	Yes	
	Connected Line ID Restriction after Call Forward	Yes	
	Connected Line ID Presentation on UPDATE	Yes	
	Connected Line ID Presentation on Re-INVITE	Yes	
	Remote Reset	Yes	
	Remote Reset with Authentication Challenge	Yes	
	Call Control	Call Redirect to Phone- Single Redirect	Yes
Call Redirect to Phone- Multiple Redirect		Yes	
Call Forward by Phone- Do Not Disturb		Yes	
Call Forward by Phone- Call Forward Always		Yes	
Call Forward by Phone- Call Forward Always with Diversion Inhibitor		Yes	
Local Hold/Resume for Inbound Call		Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Local Hold/Resume for Outbound Call	Yes	
	Remote Hold/Resume	Yes	
	Remote Hold/Resume with Music On Hold	Yes	
	Call Waiting; Switch between Calls	Yes	
	Blind Call Transfer	Yes	
	Blind Call Transfer Recall	Yes	
	Attended Call Transfer after Answer	Yes	
	Attended Call Transfer before Answer	Yes	
	Local Three-Way Conference	Yes	Before answer is not supported
	Network 3-Way Conference	Yes	
	Network 6-Way Conference	Yes	
	Basic Click-To-Dial	No	
	Basic Click-To-Hold; DUT Originator	No	
	Basic Click-To-Hold; DUT Terminator	No	
	Advanced Click-To-Dial	Yes	
	Advanced Click-To-Answer	Yes	
	Advanced Click-To-Hold; DUT Originator	Yes	
	Advanced Click-To-Hold; DUT Terminator	Yes	
	Advanced Click-To-Answer for Call Waiting	Yes	
	Advanced Click-To-Dial Second Call	Yes	
	Ring Splash	Yes	
	Distinctive Ring Tone via Priority Alert	Yes	
	Distinctive Call Waiting Tone via Priority Alert	Yes	
Distinctive Ring Tone via Alternate Numbers	Yes		
Distinctive Call Waiting Tone via Alternate Numbers	Yes		
Silent Ring	Yes		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Call Decline	Yes	
	Anonymous Call	Yes	
Video	Inbound Video Call	Yes	
	Outbound Video Call	Yes	
	Video Call with Local Hold/Resume	Yes	
	Video Call with Remote Hold/Resume	Yes	
	Video Call with Remote Hold/Resume and Video On Hold	Yes	
	Video Call Waiting	Yes	
	Video Second Outbound Call	Yes	
	Video Call Transfer	Yes	
	Video Call Transferee	Yes	
	Auto Attendant – SD	Yes	
	Auto Attendant – HD	Yes	
	Video Voice Mail Deposit – SD	No	
	Video Voice Mail Retrieve – SD	No	
	Video Voice Mail Deposit – HD	No	
	Video Voice Mail Retrieve – HD	No	
	Video Custom Ringback	No	
	Network Based Video Conference – SD	No	
	Network Based Video Conference – HD	No	
	Collaborate Video – SD	No	
	Collaborate Video – HD	No	
	Collaborate Video – Upgrade to Video	No	
	UC-One Communicator Desktop Client, Inbound Call	Yes	
	UC-One Communicator Desktop Client, Outbound Call	Yes	
	UC-One Connect Client, Inbound Call	Yes	
UC-One Connect Client, Outbound Call	Yes		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Failover/Failback	REGISTER Failover	Yes	
	REGISTER Failback	Yes	
	REGISTER Failover; Increase Retries	Yes	
	REGISTER Failover on 503	Yes	
	INVITE Failover	Yes	
	INVITE Failback	Yes	
	INVITE Failover; Increase Retries	Yes	
	INVITE Failover on 503	Yes	
	Mid-Call Failure- INVITE Failure	No	
	Mid-Call Failure- Bye Failure	No	
Advanced Phone Service: Missed Call Display Synchronization	Missed Call Display Synchronization on Primary Line	Yes	
	Missed Call Display Synchronization on Alternate Line	Yes	
Advanced Phone Service: Call Park Notification	Subscribe for Call Park Notification	Yes	
	Parked Call Indicator	Yes	
	Retrieve Parked Call for Monitored User	Yes	
Advanced Phone Service: Busy Lamp Field	Subscribe for BLF	Yes	
	Add Monitored User	Yes	
	Remove Monitored User	Yes	
	Add Monitored User with Long Name	Yes	
	Add Monitored User with Unicode Characters in Name	Yes	
	Monitor up to 20 Users	Yes	
	Monitor User with Outgoing Call	Yes	
	Monitor User with Incoming Call	Yes	
	Monitor User with Two Incoming Calls	Yes	
	Monitor User with Parked Call	Yes	
	Call to Idle Monitored User	Yes	
	Call to Active Monitored User	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Directed Call Pickup for Idle Monitored User with Incoming Call	Yes	
	Directed Call Pickup for Active Monitored User with Incoming Call	Yes	
	Retrieve Parked Call for Monitored User	Yes	
Advanced Phone Service: Shared Call Appearance	Line-Seize and Make Call	Yes	
	Cancel Line-Seize	Yes	
	Refresh Line-Seize	Yes	
	Attempt Line-Seize on Active Line	Yes	
	Subscribe for Call-Info	Yes	
	Refresh Call-Info Subscription	Yes	
	Outbound Call	Yes	
	Inbound Call	Yes	
	Public Hold	Yes	
	Private Hold	Yes	
	Make Call on Active Line	Yes	
	Receive Call on Active Line	Yes	
	Hybrid Key System- Incoming Calls	No	
	Hybrid Key System- Outgoing Calls	No	
	Hybrid Key System- Mixed Incoming/Outgoing Calls	No	
	Hybrid Key System- Public Hold	No	
	Barge-In on Active Line	Yes	
	Hold/Retrieve Active Bridge	Yes	
	Barge-In Silent on Active Line	No	
	Parked Call Indicator	Yes	
Parked Call Retrieve	Yes		
Advanced Phone Service: Feature Synchronization, Private Line	Initial SUBSCRIBE	Yes	
	Re-SUBSCRIBE	Yes	
	Activate Do Not Disturb from Phone	Yes	
	De-Activate Do Not Disturb from Cisco BroadWorks	Yes	
	Do Not Disturb Ring Splash	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Activate Do Not Disturb from Phone, Multi-Line Phone	Yes	
	Call Forwarding No Answer	Yes	
	Call Forwarding Busy	Yes	
	Call Forwarding Always	Yes	
	Call Center- Agent Logon from Phone	Yes	
	Call Center- Agent Logoff from Cisco BroadWorks	Yes	
	Call Center- Unavailable Code from Phone	Yes	
	Unavailable Code from Cisco BroadWorks	Yes	
	Executive and Executive-Assistant	No	
	Call Recording	No	
Advanced Phone Service: Feature Synchronization, Shared Line	SUBSCRIBE	Yes	
	Do Not Disturb	Yes	
	Call Forwarding No Answer	Yes	
	Call Forwarding Busy	Yes	
	Call Forwarding Always	Yes	
	Call Center- Agent Logon from Primary Line	Yes	
	Call Center- Agent Logoff from Alternate Line	Yes	
	Call Center- Unavailable Code from Primary Line	Yes	
	Call Center- Unavailable Code from Alternate Line	Yes	
Call Recording	No		
Advanced Phone Service: Call Center	Hold Reminder	Yes	
	Call Information	Yes	
	Hoteling	Yes	
	Status	Yes	
	Disposition Code	Yes	
	Emergency Escalation	Yes	
	Customer Originated Trace	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Advanced Phone Service: Call Recording	Call Recording Controls	No	
	Call Recording Video	No	
Advanced Phone Service: Conference Event	Conference Creator	No	
	Conference Participant	No	
TLS/SRTP	Register With Authentication	Yes	
	Inbound Call	Yes	
	Inbound Call Disconnected before Answer	Yes	
	Outbound Call	Yes	
	Outbound Call Disconnected before Answer	Yes	
	Session Audit of Call from the DUT	Yes	
	Session Audit of Call to the DUT	Yes	
	Custom Ringback	Yes	
	Voice Message Deposit	Yes	
	Voice Message Retrieval	Yes	
	Codec Renegotiation with Attended Transfer	Yes	
	Local Hold/Resume	Yes	
	Remote Hold/Resume	Yes	
	Attended Call Transfer	Yes	
	Local Three-Way Conference	Yes	
	Network Three-Way Conference	Yes	
	Video	No	
	BLF Subscribe	Yes	
	Feature Synchronization Subscribe	Yes	
	IPv6	Register With Authentication	Yes
Inbound Call		Yes	
Outbound Call		Yes	
Session Audit		Yes	
Custom Ringback		Yes	
Voice Message Deposit/Retrieval		Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Codec Renegotiation with Attended Transfer	Yes	
	Initial Answer with Hold SDP	Yes	
	Call Control	Yes	
	Video	No	
	BLF Subscribe	Yes	
	Feature Synchronization Subscribe	Yes	

2.2.2 Other Interface Capabilities

This section identifies whether the Fanvil X-H Middle/J-E/V/V/S/XS/XT/XU/XW-XV Series has implemented support for the following:

- Cisco BroadWorks Xtended Services Interface (Xsi)
- Extensible Messaging and Presence Protocol (XMPP) (Cisco 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 BroadWorks User Login Credentials	No	
	Authenticate with BroadWorks User Directory Number	No	
Xsi Features – User Service Configuration	Remote Office	No	
	BroadWorks Anywhere	No	
	Simultaneous Ringing	No	
	Caller ID Blocking	No	
	Call Forwarding Always	No	
	Call Forwarding Busy	No	
	Call Forwarding No Answer	No	
Xsi Features – Directories	Do Not Disturb	No	
	Show Directories	Yes	
	Search Directories	No	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
	Make Calls Using Directories	Yes	Call Using Group Directory Search is not supported.
Xsi Features – Call Logs	Placed Calls	Yes	
	Received Calls	Yes	
	Missed Calls	Yes	
	All Calls	Yes	
	Sort by Name	No	
	Show All Calls After Update	Yes	
	Make Outbound Call Using Missed Call Log	Yes	
	Delete Missed Call	Yes	
	Delete All Calls	Yes	
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	
Xsi Features – Push Notification	Register/Deregister for Push Notifications	No	
	Incoming Call via Push Notification	No	
	Call Update via Push Notification	No	
	Incoming Call via Push Notification; Second Incoming Call	No	
	MWI via Push Notification	No	
	Ring Splash via Push Notification	No	
Xsi Features – Call Recording Configurations	Call Record Mode Get	No	
	Set Record Mode	No	
	Set Play Call Recording to Start and Stop Announcement	No	
	Set Record Voice Messaging	No	
	Set Pause and Resume Notification	No	
	Set Recording Notification	No	
	Record Mode set to Never	No	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
Xsi Features – Call Recording Controls	Record Mode set to Always	No	
	Record Mode set to Always with Pause/Resume	No	
	Start Recording Mid-Call with Record Mode set to On Demand	No	
	Start Recording During Call Setup with Record Mode set to On Demand	No	
	Perform User Initiated Start with Record Mode set to On Demand	No	
	Perform Mid-Call Start Recording after Placing Call on Hold	No	
	Perform Mid-Call Change to Call Recording Mode	No	
	Record Local Three-Way Call	No	
	Record Network Three-Way Call	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 a Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series issue, the issue number is from Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series tracking system. If it is a Cisco BroadWorks issue, the issue number is from BroadSoft’s tracking system.

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

Issue Number	Issue Description	Partner Version				
		2.2.10				
	No issues identified.					

3 Cisco BroadWorks Configuration

This section identifies the required Cisco BroadWorks device profile type for the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series as well as any other unique Cisco BroadWorks configuration required for interoperability with the X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series

3.1 Cisco BroadWorks Device Profile Type Configuration

This section identifies the device profile type settings to use when deploying the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series with Cisco BroadWorks.

Create a device profile type for the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series with settings as shown in the following example. A separate device profile type should be created for each Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series. The settings shown are recommended for use when deploying the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV 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 below provides the *Number of Ports* (number of SIP lines) setting for the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series.

Model	Number of Lines
X6	20
X7	20
X5S	16
X7A	20
X7C	20
X210i	20
X320i	20
X320V	20
X330i	20
X330V	20
X210	20
X530	4
X550	16
H2U	2
H3W	2
H5W	2
H6W	20

H7W	20
H7	20
H7A	20
X1SG	2
X1S/X1SP	2
X3SG	4
X4SG	6
J1/J1P	2
J3/J3G	4
J4/J4G	4
J5	16
J6	20
J7	20
J7C	20
J7A	20
J210	20
J320	20
J3W	4
J4W	5
J7W	20
E6G	20
V62/V62P	2
V63/V63P/V63G	6
V64	12
V64W	12
V65	16
V66	20
V67	20
V68	20
V67A	20
X4T	12
X5T	16
X6T	20

X7T	20
X210T	20
X3U	6
X4U	12
X5U	16
X6U	20
X1W	2
X3V	4
X4W	12
X5W	16
X6W	20
X7W	20
X7CW	20
X210W	20

Identity/Device Profile Type: Fanvil X-H-Middle Series
 Signaling Address Type: Intelligent Proxy Addressing
 Obsolete

Standard Options

Number of Ports: Unlimited Limited To

Ringback Tone/Early Media Support: RTP - Session
 RTP - Early Session
 Local Ringback - No Early Media

Authentication: Enabled
 Disabled

Hold Normalization: Unspecified Address
 Inactive
 RFC3284

Registration Capable Authenticate REFER
 Static Registration Capable Video Capable
 E164 Capable Use History Info Header
 Trusted

Advanced Options

Route Advance Forwarding Override
 Wireless Integration Conference Device
 PBX Integration Mobility Manager Device
 Add P-Called-Party-ID Music On Hold Device
 Auto Configuration Soft Client Requires BroadWorks Digit Collection
 Requires BroadWorks Call Waiting Tone Requires MWI Subscription
 Advice of Charge Capable Support Call Center MIME Type
 Support Emergency Disconnect Control Support Identity In UPDATE and Re-INVITE
 Enable Monitoring Support RFC 3398
 Static Line/Port Ordering Support Client Session Info
 Support Call Info Conference Subscription URI Support Remote Party Info
 Support Visual Device Management Bypass Media Treatment
 Support Cause Parameter Support Calling Party Category In Outbound From Header

Reset Event: reSync checkSync Not Supported

Trunk Mode: User Pilot Proxy

Hold Announcement Method: Inactive Bandwidth Attributes

Unscreened Presentation Identity Policy: Profile Presentation Identity
 Unscreened Presentation Identity
 Unscreened Presentation Identity With Profile Domain

Web Based Configuration URL Extension:

Device Configuration Options: Not Supported Device Management Legacy

Figure 1 Device Identity/Profile Type

3.2 Cisco BroadWorks Configuration Steps

There are no additional Cisco BroadWorks configurations required.

4 X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Configuration

This section describes the configuration settings required for the X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV series desk phone integration with Cisco BroadWorks, primarily focusing on the SIP interface configuration. The X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV 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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series *User Manual* [1] for X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series.

4.1 Configuration Method

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series Premium Desk Phones can be configured through 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. phones desk phone will load the configuration file during each phone initialization or synchronization. For detailed description of the phone provisioning and updating, see the *User Manual* [1] for X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series.

Configuration Files

X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series Configuration Files	Level	Description
J-E models: V0V<model number>00000.cfg	System	Contains configurable parameters that apply to all devices in a given deployment. <model number> is 4 digital string of model name. Such as, X6's model number is 00X6, X210i's model number is 210i.
X-H Middle/V/VS/XS/XT/XU/XW-XV models: F0V<model number>00000.cfg		
%BWMACADDRESS%.cfg	Subscriber	Contains configurable parameters that apply to an individual device in a deployment.

4.2 System Level Configuration

This section describes system-wide configuration items that are generally required for each X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV to work with Cisco BroadWorks. Subscriber-specific settings are described in the next section.

4.2.1 Configure Network Settings

Step	Command	Description
Step 1	Set WAN port Network type. Example: WAN TYPE :0	Set the network WAN interface Type. Below is available type: <ul style="list-style-type: none"> 0 for IPv4 Only 1 for IPv6 Only 2 for IPv4 and IPv6
Step 2	Set Network mode Example: Enable DHCP :1 Enable PPPoE :0	Set the network WAN interface mode. Below is available mode: <ul style="list-style-type: none"> Enable DHCP set to 1 and for Enable PPPoE set to 0 for DHCP mode Enable DHCP set to 0 and for Enable PPPoE set to 0 for static IP mode Enable DHCP set to 0 and for Enable PPPoE set to 1 for PPPOE mode
Step 3	Set Network Mask Example: WAN Subnet Mask: 255.255.255.0	Set the network WAN interface mask.
Step 4	Set Gateway Example: WAN Gateway: 192.168.1.1	Set the default gateway.
Step 5	Set NTP Server Example: Enable SNTP: 1 SNTP Server: time.nist.gov Second SNTP Server: time.windows.com	Set the NTP server of phone. (1-enable, 0-disable). <ul style="list-style-type: none"> SNTP Server- Primary SNTP Server Second SNTP Server- Backup SNTP Server
Step 6	Set Transport Protocol Example: SIP1 Transport: 0	Set the transport protocol. <ul style="list-style-type: none"> <input type="checkbox"/>0: UDP <input type="checkbox"/>1: TCP 2: TLS
Step 7	Enable DNS SRV Lookup Example: SIP1 DNS Mode :1	Enable DNS SRV lookups <ul style="list-style-type: none"> 0: A 1: SRV 2:NAPTR

4.2.1.1 Configure IPV6 Settings

Step	Command	Description
Step 1	Set IPv6 IP and Prefix for static mode Example:	Set the phone static IP and Prefix of IPv6.

Step	Command	Description
	<pre>WAN6 IP:240e:e5:8e00:1::8e00 WAN6 IP PREFIX:64</pre>	
Step 2	Set IPv6 Network mode Example: <pre>Enable DHCP6 :1</pre>	Set the IPv6 network WAN interface mode. Below is available mode: <ul style="list-style-type: none"> • Enable DHCP set to 1 for DHCP mode • Enable DHCP set to 0 static IP mode
Step 3	Set IPv6 Network DNS Example: <pre>DHCP6 Auto DNS :1 Primary DNS6 :2400:3200::1 Secondary DNS6 :2400:3200:baba::1</pre>	Set the IPv6 network WAN interface mask.
Step 4	Set IPv6 Gateway Example: <pre>WAN6 Gateway :fe80::1</pre>	Set the IPv6 default gateway.

4.2.2 Configure SIP Interface Settings

Step	Command	Description
Step 1	Set SIP Proxy/Domain Example: <pre>SIP1 Register Addr : as.tekvizion.com</pre>	Set the phones 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.
Step 2	Set Outbound Proxy Example: <pre>SIP1 Proxy Addr: sbc2.tekvizion.com</pre>	Set the outbound proxy to the session border controller (SBC) if one is deployed between the phones and BroadWorks. If there are redundant SBCs, set it to the FQDN for the SBC cluster.
Step 3	Set Register Mode <pre>SIP1 Enable Reg: 1</pre>	Enable SIP register. <ul style="list-style-type: none"> • 1: enable • 0: disable
Step 4	Set SIP Timers <pre>SIP1 Register TTL: 1200</pre>	The suggested registration period (Reg Max Expires) is one day or 86400 seconds.
Step 5	Enable Negotiated DTMF Type Example: <pre>SIP1 DTMF Mode: 1</pre>	Set the phones to enable inband or RFC 2833 negotiated DTMF <ul style="list-style-type: none"> • 0: relay • 1: RFC2833

Step	Command	Description
		<ul style="list-style-type: none"> 2: SIP_INFO 3: auto

4.2.3 Configure Service Settings

Step	Command	Description
Step 1	Set User Agent SIP1 User Agent: Fanvil X210	Set the user agent.
Step 2	Set Ring Types Example: SIP1 Ring Type: Type 1	Set the incoming call ring type.
Step 3	Enable Supplementary Services P1 CallWaiting: 1 P1 CallTransfer: 1 P1 CallConference: 1	Set the call waiting, call transfer, and call conference.
Step 4	Set conference type SIP1 Use SRV Mixer :0	Set conference type. <ul style="list-style-type: none"> 0: Local conference 1: Network conference
Step 5	Set network conference URI SIP1 SRV Mixer Uri :	Set network conference URI.

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
Step 1	Enable Each Line to Be used SIP1 Enable Reg :1	Enable each phones in use.
Step 2	Set Register User ID for Each Line SIP1 Phone Number :1234	The register user ID must correspond with the line/port setting on BroadWorks.
Step 3	Enable SIP Authentication for Each Line SIP1 Register User : User1 SIP1 Register Pswd :123456	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings.
Step 4	Configure display name for each line. SIP1 Display Name :Test	For each line, configure the name to be displayed on the device.

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 in to 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.

It is recommended to use the phone number plus an index (<phoneNumber>_<index>) when provisioning the unique AoR for each shared line, for example: 2405551111_2. If a phone number does not exist, use the Media Access Control (MAC) address plus an index (<macAddress>_<index>).

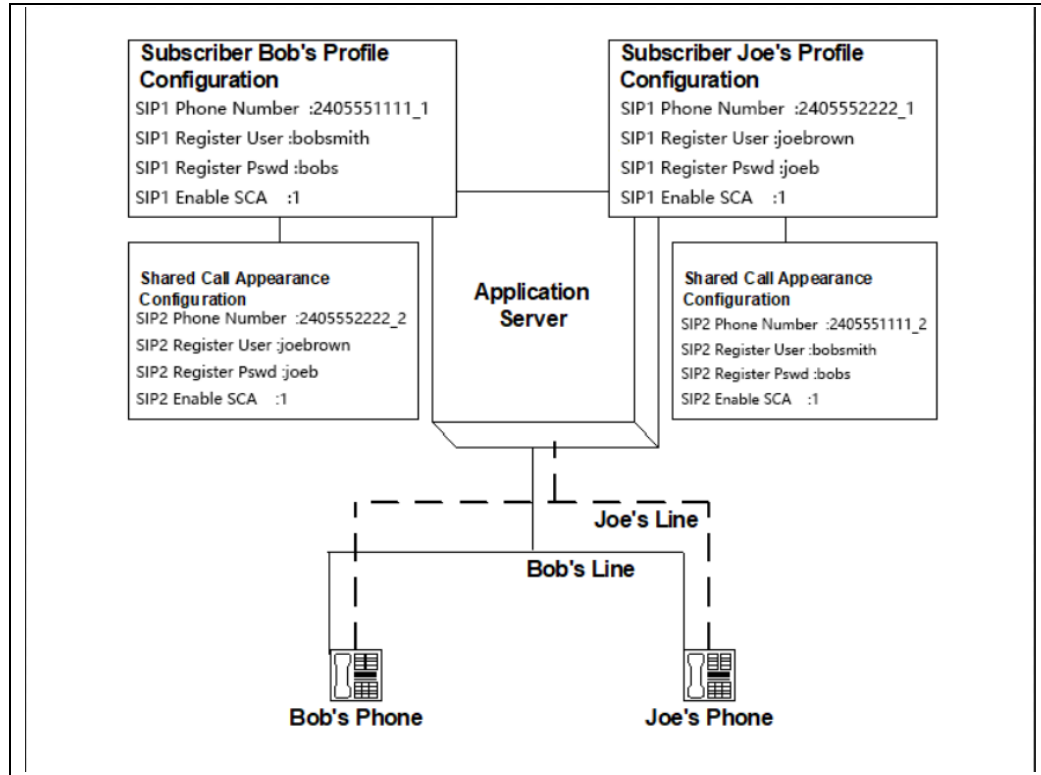


Figure 2 Shared Call Appearance Configuration

Figure 2 shows that Bob and Joe each have two lines and that Bob shares a line with Joe and Joe shares a line with Bob. The figure also shows the applicable Subscriber Profile and Shared Call Appearance configuration data for subscribers Bob and Joe.

When Bob (2405551111) is called, Bob's first line and Joe's second line ring. When Joe (2405552222) is called, Joe's first line and Bob's second line ring.

The following steps show how to configure both phones for this Shared Call Appearance configuration.

4.4.1.1 Bob's Phone Configuration – < Bob's MAC.cfg >

The following steps are used to configure line 1 for Bob's phone. This line rings when Bob is called, and it has Bob's authentication information.

Step	Command	Purpose
Step 1	Configure the Line as Shared SIP1 Enable SCA :1;	Configure the line as "shared" (as opposed to "private").
Step 2	Set Register User ID SIP1 Phone Number :2405551111_1;	The register user ID must correspond with the line/port setting on BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication SIP1 Register User :bobsmith SIP1 Register Pswd :bobs;	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.
Step 4	Configure the Display Name SIP1 Display Name :Bob Smith;	Configure the name to be displayed on the device for this line.

The following steps are used to configure line 2 for Bob's phone. This line rings when Joe is called and it has Joe's authentication information.

Step	Command	Purpose
Step 1	Configure the Line as Shared SIP2 Enable SCA :1;	Configure the line as "shared" (as opposed to "private").
Step 2	Set the Register User ID SIP2 Phone Number :2405552222_2;	The register user ID must correspond with the line/port setting on BroadWorks.
Step 3	Enable SIP Authentication SIP2 Register User :joebrown SIP2 Register Pswd :joeb	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings. This line rings when Joe is called and it has Joe's authentication information.
Step 4	Configure the Display Name SIP2 Display Name :Joe Brown;	Configure the name to be displayed on the device for this line.

4.4.1.2 Joe's Phone Configuration – < Joe's MAC.cfg >

The following steps are used to configure line 1 for Joe's phone. This line rings when Joe is called, and it has Joe's authentication information.

Step	Command	Purpose
Step 1	Configure the Line as Shared SIP1 Enable SCA :1;	Configure the line as "shared" (as opposed to "private").
Step 2	Set the Register User ID SIP1 Phone Number :2405552222_1;	The register user ID must correspond with the line/port setting on BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication SIP1 Register User :joebrown; SIP1 Register Pswd :joeb;	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings. This line rings when Joe is called, and it has Joe's authentication information.
Step 4	Configure the Display Name SIP1 Display Name :Joe Brown	Configure the name to be displayed on the device for this line.

The following steps are used to configure line 2 for Joe's phone. This line rings when Bob is called, and it has Bob's authentication information.

Step	Command	Purpose
Step 1	Configure the Line as Shared SIP2 Enable SCA :1;	Configure the line as "shared" (as opposed to "private").
Step 2	Set the Register User ID SIP2 Phone Number :2405551111_2 ;	The register user ID must correspond with the line/port setting on BroadWorks.
Step 3	Enable SIP Authentication SIP2 Register User :bobsmith SIP2 Register Pswd :bobs;	If the Authentication service is configured on BroadWorks, these parameters must be configured to match the BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.
Step 4	Configure the Display Name SIP2 Display Name :Bob Smith;	Configure the name to be displayed on the device for this line.

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.

Configure of the phone to enable Hybrid Key System is described as below:

Step	Command	Purpose
Step 1	Configure the Line as Shared SIP1 Enable SCA :1	Configure the line as "shared" (as opposed to "private").

Step 2	Configure More Line Keys Fkey1 Type :2 Fkey1 Value :SIP1 Fkey1 Title : Fkey2 Type :2 Fkey2 Value :SIP1 Fkey2 Title : Fkey3 Type :2 Fkey3 Value :SIP1 Fkey3 Title :	Assign multiple line keys to a single registered line.
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4.4.2 Busy Lamp Field Configuration

The Busy Lamp Field implementation provides an attendant console function.

Configuration of the phone to enable Busy Lamp Field is described as follows.

Step	Command	Purpose
Step 1	Configure the Line Enable Busy Lamp Field Function. SIP1 Enable BLFList:1	Configure the line enable Busy Lamp Field.
Step 2	Set the Busy Lamp Field Number SIP1 BLFList Uri :123456	Busy Lamp Field number configured by your service provider. 123456 is an example.
Step 3	Configure More Dss keys Empty Fkey5 Type :0 Fkey5 Value : Fkey5 Title : Fkey6 Type :0 Fkey6 Value : Fkey6Title : Fkey7 Type :0 Fkey7 Value : Fkey7 Title :	All the empty Dss Keys will be automatically configured with Busy Lamp Field value.

4.4.3 Feature Key Synchronization Configuration

The 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. Configuration of the phone to enable Feature Key Synchronization is described as follows.

Step	Command	Purpose
Step 1	Configure the Line Enable Feature Key Synchronization SIP1 Feature Sync :1	Enable Feature Key Synchronization.

4.4.4 Call Center Feature Configuration

This section provides configuration instructions to configure the phone to enable integration with Cisco BroadWorks Call Center features including but not limited to call information, hoteling, status, and disposition codes.

Step	Command	Purpose
Step 1	Configure the Line Enable Call Center Feature SIP1 Sub CC Status :1	Enable Call Center feature.
Step 2	Configure the Line Enable Hoteling Feature SIP1 Server Type :28	Enable Hoteling feature.
Step 3	Configure Dss Key Support Disposition Code Fkey10 Type :3 Fkey10 Value : F_DISPOSITION:123 Fkey10 Title :	Enable enter Disposition Code. F_DISPOSTION is Dss Key's subtype. 123 is the disposition code.
Step 4	Configure Dss Key Support Emergency Escalate. Fkey11 Type :3 Fkey11 Value :F_ESCALATE:456 Fkey11 Title :	Enable emergency escalate. F_ESCALATE is Dss Key's subtype. 456 is the supervisor's number.
Step 5	Configure Dss Key Support Customer Originated Trace Fkey12 Type :3 Fkey12 Value :F_TRACE Fkey12 Title :	Enable Customer Originated Trace. F_TRACE is Dss Key's subtype.

4.4.5 Call Recording Feature Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.4.6 Security Classification Feature Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.4.7 Emergency Call Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.4.8 Advice of Charge Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.4.9 Conference Event Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.5 Xtended Services Interface (Xsi) Feature Configuration

This section provides configuration instructions for configuration of Xtended Services Interface (Xsi) features supported by the phone, including but not limited to Cisco BroadWorks Directory and Cisco BroadWorks Call Logs.

4.5.1 Xsi Authentication Method

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.5.2 Cisco BroadWorks User Service Configuration

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series does not support this feature

4.5.3 Cisco BroadWorks Directory Configuration

Integration with the Cisco BroadWorks Xtended Services Interface for Directories enables the phone to download personal, group, and directories from Cisco BroadWorks and make them available to a user via the phone menus. To enable this feature, follow these instructions.

Step	Command	Purpose
Step 1	Configure the BroadWorks Directory URL BWDDir1 URL :http(s)://com.broadsoft.xsi-actions/v2.0/user/<userid>/directories/Personal	Configure the BroadWorks Directory URL
Step 2	Configure the BroadWorks Directory username BWDDir1 Username :admin	Configure the BroadWorks Directory username
Step 3	Configure the BroadWorks Directory password BWDDir1 Password :123456	Configure the BroadWorks Directory password

Step	Command	Purpose

4.5.4 Cisco BroadWorks Call Logs Configuration

Integration with the Cisco BroadWorks Xtended Services Interface for Call Logs enables the phone to get call log history (missed, placed, and received calls) from Cisco BroadWorks and make them available to a user via the phone menus.

Step	Command	Purpose
Step 1	Configure the BroadWorks Call Logs URL BWCLog1 URL :http(s)://com.broadsoft.xsi-actions/v2.0/user/<userid>/directories/callLogs	Configure the BroadWorks Call Logs URL
Step 2	Configure the BroadWorks Call Logs username BWCLog1 Username :admin	Configure the BroadWorks Call Logs username
Step 3	Configure the BroadWorks Call Logs password BWCLog2 Password :123456	Configure the BroadWorks Call Logs password

4.5.5 Cisco BroadWorks Visual Voice Mail Configuration

Fanvil X-H Middle/J-E/V/V/S/XS/XT/XU/XW-XV Series does not support this feature

4.6 Instant Message and Presence Configuration

Fanvil X-H Middle/J-E/V/V/S/XS/XT/XU/XW-XV Series does not support this feature

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 Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV 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 Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV 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 Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series 's 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 Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV 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	

Cisco BroadWorks Device Management Interoperability Test Plan Support Table

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

Cisco BroadWorks Device Management Interoperability Test Plan Support Table

Test Plan Package	Test Plan Package Items	Supported	Comments
	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	Redirect Service Followed by BroadWorks not supported in DM Redirect

5.2 Device Management Configuration

This section identifies the steps required to enable the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV 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 a 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 device models only.

The Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series makes 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

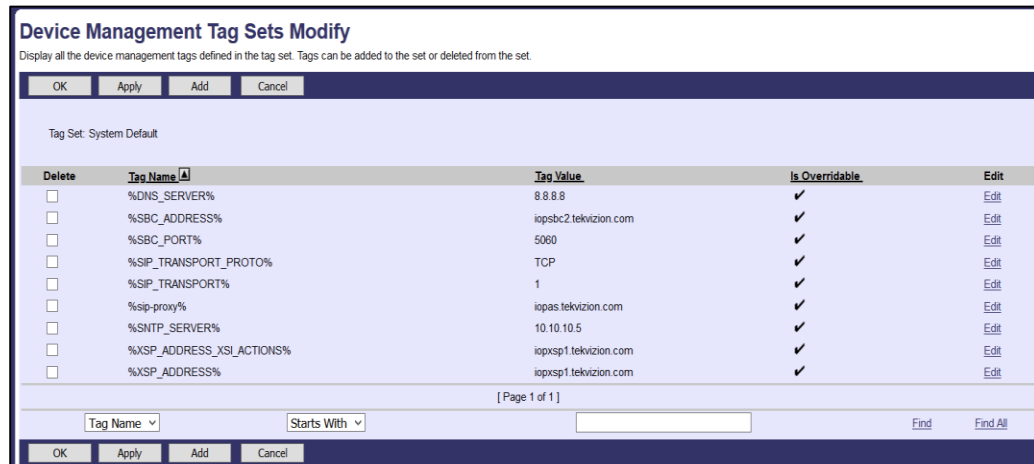
Browse to *System* → *Resources* → *Device Management Tag Sets* and select the *System Default* tag set. The configuration templates make use of the tags in the following table. Add the tags if they do not already exist.

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.

Tag Name	Valid Settings	Description
%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.
%BWLLANGUAGE-1%	Language character	Set phone Language
%BWTIMEZONE-1%	Time zone number	time zone settings
%BWLINPORT-1%	Phone Number	The line port is provisioned on the device that is assigned to the user.
%BWNAME-1%	Display Name	This is the subscriber's first name and last name in the user's profile.
%BWLINPORTHOST-1%	Sip Name	The line port and domain are provisioned on the device that is assigned to the user.
%BWHOST-1%	Register Address	This is the domain portion of the provisioned line port for the device assigned to the user.
%BWAUTHUSER-1%	Register User	This is the authentication user name.
%BWAUTHPASSWORD-1%	Register Password	This is the user's authentication password.
%BWNETWORK-CONFERENCE-SIPURI-USERNAME-1%	Conference Uri	This is the network conferencing SIP URI for the current user.
%BWFAC-DND-ACTIVATE-1%	DND On Service Code	This evaluates to the configured feature access code with the prefix for Do Not Disturb activation for the primary line.
%BWFAC-DND-DEACTIVATE-1%	DND Off Service Code	This evaluates to the configured feature access code with the prefix for Do Not Disturb deactivation for the primary line.
%BWFAC-CFA-ACTIVATE-1%	Forward immediately On Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding Always activation.
%BWFAC-CFA-DEACTIVATE-1%	Forward immediately Off Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding Always deactivation.
%BWFAC-CFB-ACTIVATE-1%	Forward Busy On Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding Busy activation.

Tag Name	Valid Settings	Description
%BWFAC-CFB-DEACTIVATE-1%	Forward Busy Off Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding Busy deactivation.
%BWFAC-CFNA-ACTIVATE-1%	Forward No Answer On Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding No Answer activation.
%BWFAC-CFNA-DEACTIVATE-1%	Forward No Answer Off Service Code	This evaluates to the configured feature access code with the prefix for Call Forwarding No Answer deactivation.
%BWBLF-USER-1%	BLFList Uri	This is the user portion of the Busy Lamp Field URI without the "sip:" URI delimiter.

Example System Default Tag Settings



The screenshot shows a web interface titled "Device Management Tag Sets Modify" for the "System Default" tag set. It displays a table of tags with columns for "Delete", "Tag Name", "Tag Value", "Is Overridable", and "Edit".

Delete	Tag Name	Tag Value	Is Overridable	Edit
<input type="checkbox"/>	%DNS_SERVER%	8.8.8.8	✓	Edit
<input type="checkbox"/>	%SBC_ADDRESS%	iopshc2.tekvizion.com	✓	Edit
<input type="checkbox"/>	%SBC_PORT%	5060	✓	Edit
<input type="checkbox"/>	%SIP_TRANSPORT_PROTO%	TCP	✓	Edit
<input type="checkbox"/>	%SIP_TRANSPORT%	1	✓	Edit
<input type="checkbox"/>	%sip-proxy%	iopas.tekvizion.com	✓	Edit
<input type="checkbox"/>	%SNTP_SERVER%	10.10.10.5	✓	Edit
<input type="checkbox"/>	%XSP_ADDRESS_XSI_ACTIONS%	iopxsp1.tekvizion.com	✓	Edit
<input type="checkbox"/>	%XSP_ADDRESS%	iopxsp1.tekvizion.com	✓	Edit

At the bottom of the interface, there are search fields for "Tag Name" and "Starts With", and buttons for "OK", "Apply", "Add", and "Cancel".

Figure 3 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*: X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series *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.

Tag Name	Valid Settings	Description
%SYS_IMAGE%	URL of firmware	Set the firmware URL of phone.
%SYS_ETC%	URL of background	Set the background URL of phone.

Tag Name	Valid Settings	Description
%SYS_PHONEBOOK%	URL of phone book	Set the phone book URL of phone.

Example Device Type-specific Tag Settings



Figure 4 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

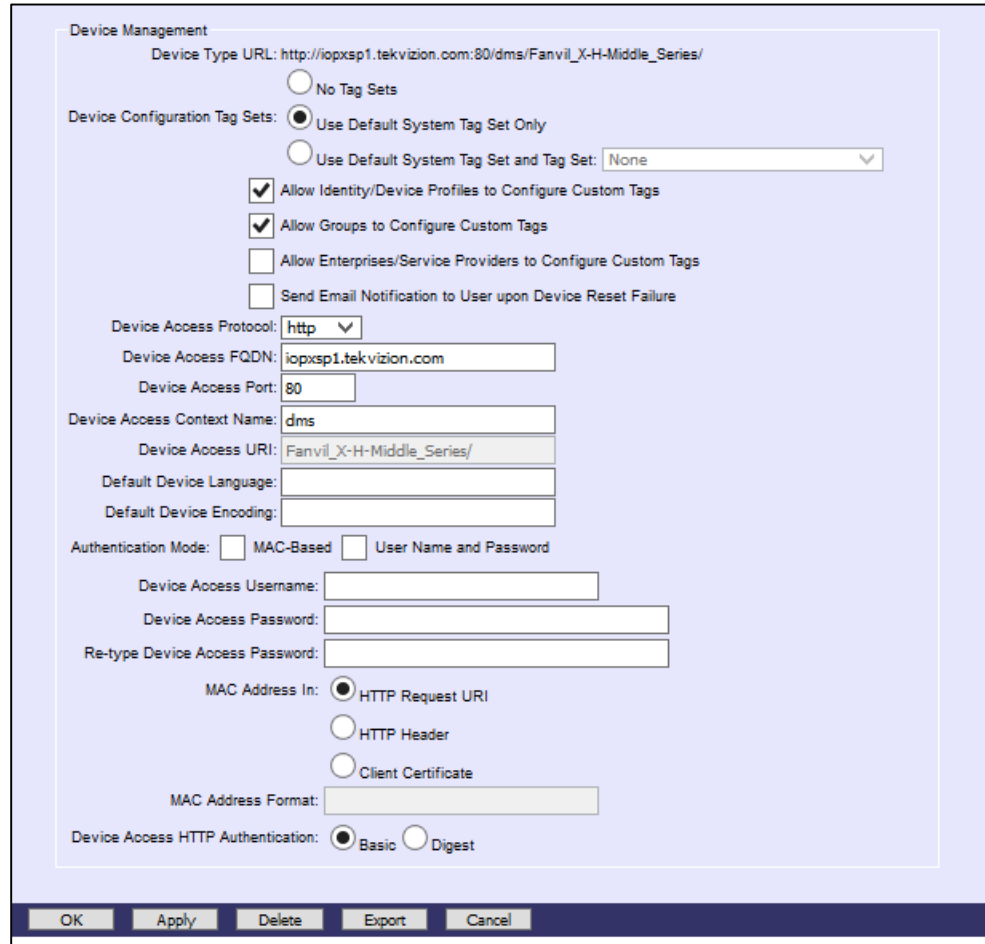
This section identifies the steps necessary to make use of the Device Management import feature to configure Cisco BroadWorks to add the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series as a Device Management-enabled device type. Also, see the *Cisco BroadWorks CPE Kit Usage Guide* [8].

Download the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series CPE kit from Cisco at xchange.broadsoft.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 device profile type, Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV 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.



Device Management

Device Type URL: http://iopxsp1.tekvizion.com:80/dms/Fanvil_X-H-Middle_Series/

No Tag Sets

Device Configuration Tag Sets: Use Default System Tag Set Only

Use Default System Tag Set and Tag Set:

Allow Identity/Device Profiles to Configure Custom Tags

Allow Groups to Configure Custom Tags

Allow Enterprises/Service Providers to Configure Custom Tags

Send Email Notification to User upon Device Reset Failure

Device Access Protocol:

Device Access FQDN:

Device Access Port:

Device Access Context Name:

Device Access URI:

Default Device Language:

Default Device Encoding:

Authentication Mode: MAC-Based User Name and Password

Device Access Username:

Device Access Password:

Re-type Device Access Password:

MAC Address In: HTTP Request URI

HTTP Header

Client Certificate

MAC Address Format:

Device Access HTTP Authentication: Basic Digest

OK Apply Delete Export Cancel

Figure 5 Device Access FQDN

- 7) Click the **Files and Authentication** link and then select the option to rebuild all the system files.

Firmware files must be obtained from . These files are not included in the import. Complete the steps in section [5.2.2.2 Define Device Profile Type Files](#) to define the static firmware files and to upload the firmware.

NOTE: The non-firmware static files in section [5.2.2.2 Define Device Profile Type Files](#) are normally included in the import.

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

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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV 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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series.

Browse to *System* → *Resources* → *Identity/Device Profile Types* and perform a search to find the 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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series downloads.

Configuration templates, firmware, and other files the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series uses must be uploaded to Cisco BroadWorks. Download the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series CPE kit available from Cisco at xchange.broadsoft.com. Extract the configuration files from the *Configuration Files* folder of CPE kit. Obtain the firmware files directly from .

The following table identifies the configuration files distributed with the 2.2.10 CPE kit.

File Name	CPE Kit Template File Name	File Type	Description
Examples			
<i>BW</i> MACADDRESS .cfg	% <i>BW</i> MACADDRESS%.cfg. <i>template</i>	Device-specific	This file contains all the configuration and firmware files that the device needs to load.
J-E models: V0V<model number>00000.cfg X-H Middle/V/V/S/XS/XT /XU/XW-XV models: F0V<model number>00000.cfg	J-E models: V0V<model number>00000.cfg. <i>template</i> X-H Middle/V/V/S/XS/XT/XU/XW- XV models: F0V<model number>00000.cfg. <i>template</i>	System-level	This file is the default file that the device requests when the <i>BW</i> MACADDRESS.cfg file is not present.

The following table identifies other files that the Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series downloads from the server or uploads to the server. These files are not provided in the CPE kit and must be obtained from Fanvil.

File Name	File Type	Description
<model>_<version>.z Examples: X210_2.2.10.z	Static	Firmware file.

Browse to *System* → *Resources* → *Identity/Device Profile Types* → *Files and Authentication* to add the files as described in the following subsections.

5.2.2.2.1 %*BW*MACADDRESS%.cfg

Add the %*BW*MACADDRESS%.cfg file to the device profile type with the settings shown in [Figure 6](#).

After creating the device profile type file, upload %*BW*MACADDRESS%.cfg, which is extracted from the CPE kit obtained from . Use the **Browse** button on the file definition screen. Be sure to click **Apply** after uploading the file.

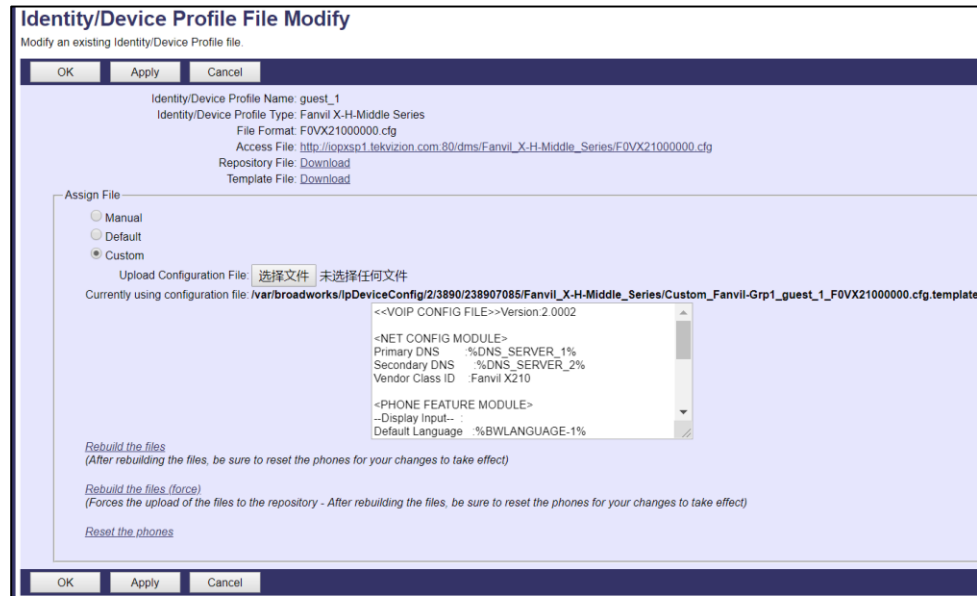


Figure 6 %BWMACADDRESS%.cfg File Settings

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/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 model.

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 `<device-name>` definitions.

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	<device-name> Language Mapping
English (US)	en
English (BR)	en
French	fr
German	de
Hungarian	/
Japanese	jp
Russian	ru
Spanish (CALA)	es
Spanish (Spain)	es
Swedish	/
Chinese	cn

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 7*).

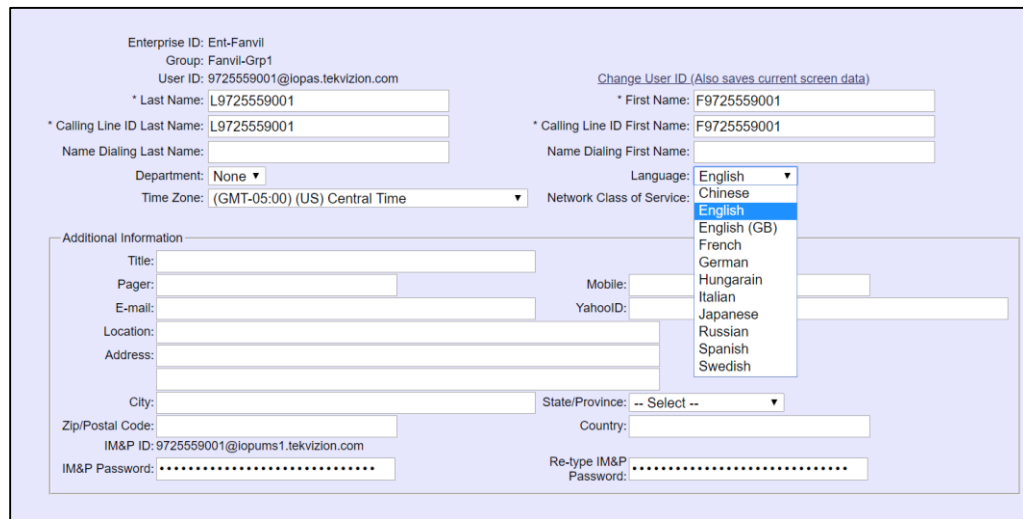


Figure 7 Cisco BroadWorks User Language Definition

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 device.

Browse to the Cisco BroadWorks <group> → *Resources* → *Identity/Device Profiles* page and then select **Add** to add a new Fanvil X-H Middle/J-E/V/S/XS/XT/XU/XW-XV Series device profile. Configure the device profile as shown in the *Figure 8* example.

{If the device requires the mac address or device access username and password to be set, mention that here. "The MAC Address field must be populated with the device MAC address." Or "The Use Custom Credentials option must be selected. Set the Device Access User Name and Password to the username and password the device will use for file download.}

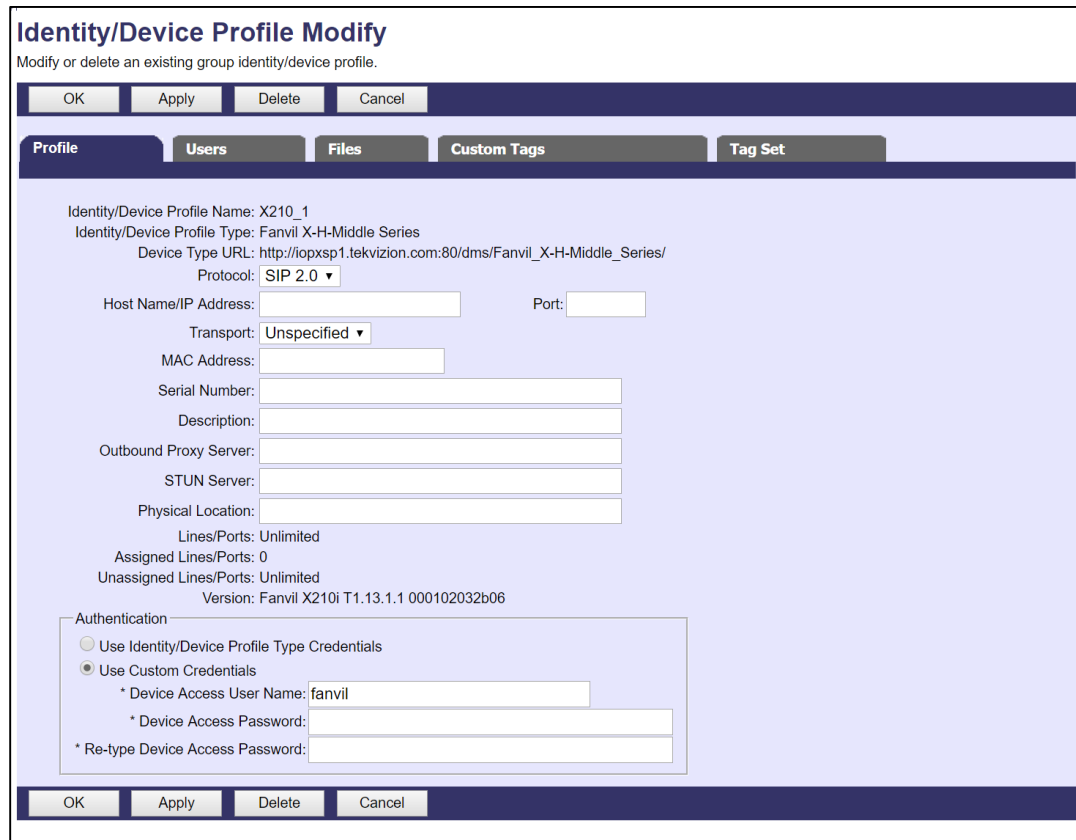


Figure 8 Device Profile Instance

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 Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series 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.

5.2.5.1 SBC Address Customization for Edge Device

In many deployments, an edge device, such as an SBC or application layer gateway, is deployed on the 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 customization below 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 the following steps.

- 1) At the *Group* → *Utilities* → *Configure Device* page, select the device profile (for example, <partner-model>).
- 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**.

Repeat these steps for each model provisioned in the group.

5.2.6 Configure Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series

This section describes the steps necessary to configure the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series to integrate with Cisco BroadWorks Device Management.

5.2.6.1 Defining Device Management File Access URI

The Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series uses the provisioning server parameters configured on the phone unless *Option 66*, *Option 43* or *Custom Option* has been defined on the DHCP server. If the DHCP server returns data set for the *Option 66*, *Option 43* or *Custom Option* parameter, then the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series uses the address defined in this field as the server address to retrieve its configuration data.

To utilize DHCP Options Field, the following value should be configured on the DHCP server for *Option 43*:

```
<Access Protocol>://<Device Access FQDN>:<Device Access Port>/ <Device Access Context Name>/<Device Access URI>/$mac.cfg
```

Example:

```
[GENERAL]
LEASETIME=86400
NODETYPE=8
SUBNETMASK=255.255.255.0
NEXTSERVER=172.16.12.29
DNS_0=8.8.8.8
DNS_1=114.114.114.114
ROUTER_0=172.16.12.1
OPTION_43="http://iopxsp1.tekvizion.com/dms/Fanvil_X-H-
Middle_Series/$mac.cfg";
```

In case manual configuration is required, perform the following steps to manually define the Device Management file access URL:

- 1) Log in to the web user interface (UI) for the device. Browse to the *System> Auto Provision> Static Provisioning Server* page. Set the Update Mode to “Update After Reboot” and fill in the Device Management server address URL.
- 2) Restart the device and enter the Cisco BroadWorks device access user name and password when prompted.

Example Login Screen

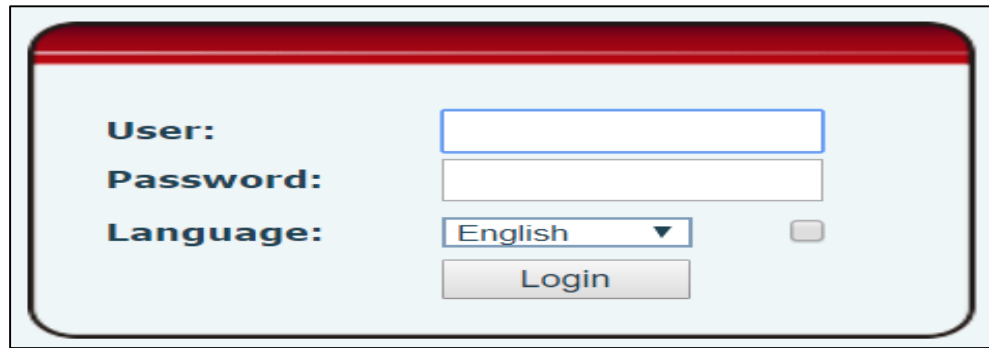


Figure 9 Example Login Screen

Example Upgrade Screen



Figure 10 Example Upgrade Screen

5.2.6.2 No Touch Provisioning

No Touch Provisioning allows Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series to be deployed with minimal user input. To put the endpoint in service, the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series can be simply taken out of the box and plugged into the LAN. When the end user's username and password are supplied via the physical keypad, the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series can then complete the provisioning process by retrieving its corresponding configurations.

Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series supports Cisco BroadWorks Device Management Redirect where the default Cisco BroadWorks configuration URL can be obtained through *DHCP Option <43 | 66 | other>*. The default configuration file(s) supplies the <device | model-specific> URL to each Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series endpoint. Then the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series follows the normal process for requesting configuration files.

Further, Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series supports -hosted redirect service where the default configuration URL is defined in Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series's factory configuration. If the phone's MAC address are added on Fanvil redirect service ,Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series contacts the to obtain the Cisco BroadWorks Device Management file access URL First. Finally, Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series follows the normal process for requesting configuration file.

The following diagram is the device startup provisioning process flow chart for the No Touch Provisioning capability.

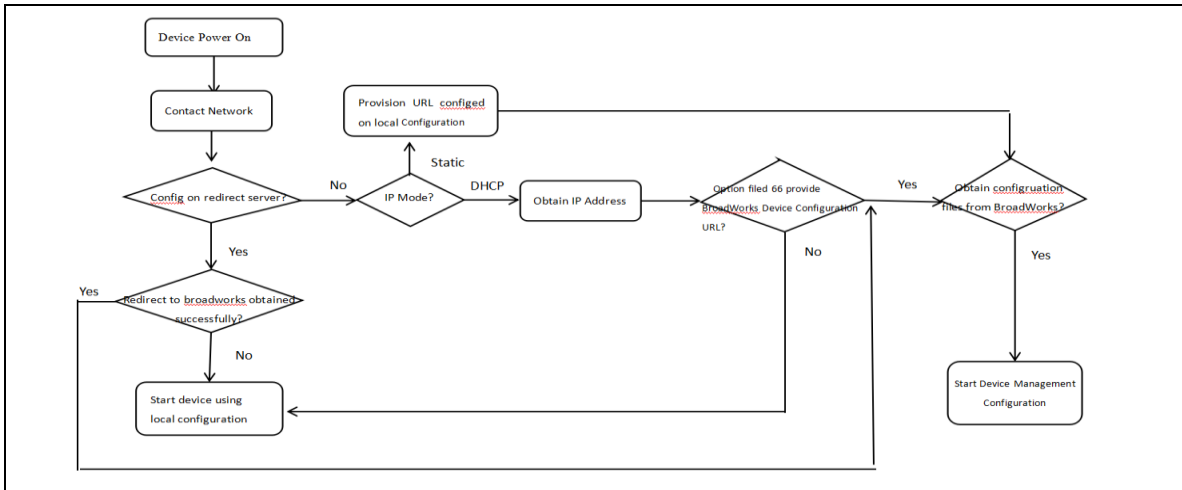


Figure 11 Device Startup Provisioning Process Flow Chart

The following sections identify the necessary steps to enable No Touch Provisioning for Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series using Cisco BroadWorks Device Management Redirect and redirect service.

5.2.6.2.1 Cisco BroadWorks Device Management Redirect

The Cisco BroadWorks Device Management Redirect extends the uses of *DHCP Options field <43 | 66 | other>* to obtain a default Cisco BroadWorks Device Management URL for a default configuration file containing subsequent redirection to the device/model-specific device profile type file access URL. This enables configuration of the phone out-of-the-box without pre-provisioning before sending it to a customer's site. The following sections describe the DHCP server configuration and the redirect events as well as the Cisco BroadWorks configurations necessary to enable the Cisco BroadWorks Device Management Redirect.

5.2.6.2.1.1 DHCP Server Configuration

Configure the end customer's DHCP server with Option 66 containing the Fanvil X-H-Middle device profile URL. The URL is in format of `http://<Device Access FQDN>:<Device Access Port>/<Device Access Context Name>/<Device Access URI>/$mac.cfg`, for example, `http://iopxsp1.tekvizion.com/dms/Fanvil_X-H-Middle_Series/$mac.cfg`. The URL should match the device type URL for Fanvil X-H-Middle defined at the previous section.

Example:

```
[GENERAL]
LEASETIME=86400
NODETYPE=8
SUBNETMASK=255.255.255.0
NEXTSERVER=172.16.12.29
DNS_0=8.8.8.8
DNS_1=114.114.114.114
ROUTER_0=172.16.12.1
OPTION_43="http://iopxsp1.tekvizion.com/dms/Fanvil_X-H-
Middle_Series/$mac.cfg";
```

5.2.6.2.1.2 Fanvil Redirect Server

Fanvil Redirect Server is a web redirect service hosted by Fanvil. It works in conjunction with the Fanvil X-H-Middle device profile URL for phone to download device configuration files. Hence, prior to device deployment, the administrator is required to login to Fanvil's web portal to associate each device based on the MAC address to the Fanvil X-H-Middle device profile URL.

5.3 Upgrade from Previous CPE Kits

The previous configuration sections are primarily structured around importing or manually configuring the device profile types for the first time. Many of the steps are unnecessary when upgrading to a new firmware release or CPE kit version.

For general instructions on upgrading, see the *Cisco BroadWorks CPE Kit Usage Guide* [8].

Appendix A: Reference Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series Configuration Files

The following is a reference configuration for the Fanvil X-H Middle/J-E/V/VS/XS/XT/XU/XW-XV Series configured for use with Cisco BroadWorks.

System Default File: <f0<model name>hw1.100.cfg>/<V0V<model number>00000.cfg>/<F0V<model number>00000.cfg>

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

```
<<VOIP CONFIG FILE>>Version:2.0002

<NET CONFIG MODULE>
WAN TYPE           :0
WAN IP             :192.168.1.179
WAN Subnet Mask    :255.255.255.0
WAN Gateway        :192.168.1.1
Domain Name        :
Primary DNS        :%DNS_SERVER_1%
Secondary DNS      :%DNS_SERVER_2%
Enable DHCP        :1
Use Vendor Class ID:0
Vendor Class ID    :Fanvil X210
DHCP Auto DNS      :1
DHCP Auto Time     :0
Enable PPPoE       :0
PPPoE User         :user123
PPPoE Password     :password

<MM CONFIG MODULE>
G723 Bit Rate      :1
ILBC Payload Type  :97
ILBC Payload Len   :20
AMR Payload Type   :108
AMRWB Payload Type:109
Dtmf Payload Type  :101
Opus Payload Type  :107
Opus Sample Rate   :0
VAD                :0
H264 Payload Type  :117
Resv Audio Band    :0
RTP Initial Port   :10000
RTP Port Quantity  :1000

<PHONE FEATURE MODULE>
Menu Password      :123
KeyLock Password   :123
Fast Keylock Code  :
Enable KeyLock     :0
KeyLock Timeout    :0
Emergency Call     :110
```

```

Push XML IP      :
SIP Number Plan :0
LDAP Search     :0
Search Path     :0
Caller Display T :5
CallLog DisplayType:0
Enable Recv SMS :1
Enable Call History:1
Line Display Format:$name@$protocol$instance
Enable MWI Tone :0
All Pswd Encryption:2
SIP Notify XML  :1
Block XML When Call:1
XML Update Interval:30
Vqm Display Order :
--Display Input-- :
Default Language :%BWLLANGUAGE-1%
--Voice Volume-- :
Handset Vol      :5
Handset Mic Vol  :3
Headset Vol      :5
Headset Mic Vol  :5
Headset Ring Vol :5
HandFree Vol     :5
HandFree Mic Vol :3
HandFree Ring Vol :5
Ring Type        :Type 2
--DateTime Config--:
Enable SNTP      :1
SNTP Server      :%SNTP_SERVER_1%
Second SNTP Server :%SNTP_SERVER_2%
DST Type         :%SYS_ENABLE_DST%
DST Rule Mode    :2
SNTP Timeout     :60
DST Min Offset   :60
DST Start Mon    :1
DST Start Week   :1
DST Start Wday   :1
DST Start Hour   :0
DST End Mon      :1
DST End Week     :1
DST End Wday     :1
DST End Hour     :0
--Softkey Config-- :
Softkey Mode     :0
SoftKey Exit Style :2
Desktop Softkey  :history;contact;dnd;menu;
Talking Softkey  :hold;xfer;conf;end;
Ringing Softkey  :accept;none;forward;reject;
Alerting Softkey :end;none;none;none;
XAlerting Softkey :end;none;none;xfer;
Conference Softkey :hold;none;split;end;
Waiting Softkey  :xfer;accept;reject;end;
Ending Softkey   :redial;none;none;end;
DialerPre Softkey :send;2aB;delete;exit;

```



```

DialerCall Softkey :send;2aB;delete;exit;
DialerXfer Softkey :delete;xfer;send;exit;
DialerCfwd Softkey :send;2aB;delete;exit;
Desktop Click      :history;status;none;none;none;
Dailer Click       :pline;nline;none;none;none;
Call Click         :none;none;voldown;volup;none;
Desktop Long Press :status;none;none;none;reset;
DialerConf Softkey :contact;clogs;redial;video;cancel;
-- Agent Config--  :
Agent Username     :
Agent Password     :
Agent Number       :
Agent Sipline      :0
Agent Status       :0
Agent Status Reason:
--BW Directory--  :
BWDirl Title      :
BWDirl URL        :
BWDirl Username   :
BWDirl Password   :
BWDirl SipLine    :0
BWDirl2 Title     :
BWDirl2 URL       :
BWDirl2 Username  :
BWDirl2 Password  :
BWDirl2 SipLine   :0
BWDirl3 Title     :
BWDirl3 URL       :
BWDirl3 Username  :
BWDirl3 Password  :
BWDirl3 SipLine   :0
BWDirl4 Title     :
BWDirl4 URL       :
BWDirl4 Username  :
BWDirl4 Password  :
BWDirl4 SipLine   :0
BWDirl5 Title     :
BWDirl5 URL       :
BWDirl5 Username  :
BWDirl5 Password  :
BWDirl5 SipLine   :0
BWDirl6 Title     :
BWDirl6 URL       :
BWDirl6 Username  :
BWDirl6 Password  :
BWDirl6 SipLine   :0
--BW Calllogs--   :
BWCLog1 Title     :
BWCLog1 URL       :
BWCLog1 Username  :
BWCLog1 Password  :
BWCLog1 SipLine   :0
BWCLog2 Title     :
BWCLog2 URL       :
BWCLog2 Username  :

```

```

BWCLog2 Password      :
BWCLog2 SipLine       :0
BWCLog3 Title         :
BWCLog3 URL           :
BWCLog3 Username      :
BWCLog3 Password      :
BWCLog3 SipLine       :0
--Xml PhoneBook--    :
XML-PBook1 Name       :
XML-PBook1 Addr       :
XML-PBook1 UserName   :
XML-PBook1 PassWd     :
XML-PBook1 Sipline    :-1
XML-PBook1 BindLine   :-1
XML-PBook2 Name       :
XML-PBook2 Addr       :
XML-PBook2 UserName   :
XML-PBook2 PassWd     :
XML-PBook2 Sipline    :-1
XML-PBook2 BindLine   :-1
XML-PBook3 Name       :
XML-PBook3 Addr       :
XML-PBook3 UserName   :
XML-PBook3 PassWd     :
XML-PBook3 Sipline    :-1
XML-PBook3 BindLine   :-1
XML-PBook4 Name       :
XML-PBook4 Addr       :
XML-PBook4 UserName   :
XML-PBook4 PassWd     :
XML-PBook4 Sipline    :-1
XML-PBook4 BindLine   :-1

<MMI CONFIG MODULE>
Web Server Type      :0
Web Port             :80
Https Web Port       :443
Remote Control       :1
Enable MMI Filter    :0
Web Authentication   :0
Enable Telnet        :0
Telnet Port          :23
Telnet Prompt        :
Logon Timeout        :15
--MMI Account--     :
Account1 Name        :admin
Account1 Password    :admin
Account1 Level       :10

<TR069 CONFIG MODULE>
TR069 Tone           :1
ACS Server Type      :1
Enable TR069         :0
ACS URL              :0.0.0.0
ACS UserName         :

```

```
ACS Password      :
ACS Backup URL    :0.0.0.0
ACS BackupUserName :
ACS BackupPassword :
CPE UserName      :dps
CPE Password      :dps
Periodix Interval :3600
TLS Version       :2
Area Code         :020
STUN Enable       :0
STUN Server Addr  :
STUN Server Port  :3478
STUN Local Port   :30000

<VPN CONFIG MODULE>
VPN mode          :-1
Enable VPN        :0
Enable Nat        :0
Openvpn mode      :0
L2TP Server Address:0.0.0.0
L2TP User Name    :
L2TP Password     :

<AUTOUPDATE CONFIG MODULE>
Auto Image Url    :%SYS_IMAGE%
Auto etc Url      :%SYS_ETC%
Auto Pbook Url    :%SYS_PHONEBOOK%

<QOS CONFIG MODULE>
Enable VLAN       :0
VLAN ID           :256
Enable PVID       :1
PVID Value        :254
Signalling Priority:0
Voice Priority     :0
Video Priority     :0
LAN Port Priority :0
Enable diffServ   :0
Singalling DSCP   :46
Voice DSCP        :46
Video DSCP        :46
LLDP Transmit     :1
LLDP Refresh Time :60
LLDP Learn Policy :1
LLDP Save Learn Data:0
CDP Enable        :1
CDP Refresh Time  :60
DHCP Option Vlan  :132

<APP CONFIG MODULE>
Watch Dog Enabled :1
Enable In Access  :0
Enable Out Access :0

<DOT1X CONFIG MODULE>
```

```
Xsup Mode           :0
Xsup User           :admin
Xsup Password       :admin
--SSL Mode--       :
Permission CTF      :0
Common Name         :0
CTF mode            :0
```

```
<<END OF FILE>>
```

Device-specific File: <%BWMACADDRESS%.cfg>

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

```
<?xml version="1.0" encoding="UTF-8"?>
<VOIP_CONFIG_FILE>
<version>2.0002</version>
<GLOBAL_CONFIG_MODULE>
<Time_Zone>%BWTIMEZONE-1%</Time_Zone>
</GLOBAL_CONFIG_MODULE>
<CALL_FEATURE_MODULE>
<Port_Config>
<Port_Config_Entry>
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<Enable_DND>1</Enable_DND>
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<Mute_Ringing>0</Mute_Ringing>
<Ban_Dial_Out>0</Ban_Dial_Out>
<Ban_Empty_CID>0</Ban_Empty_CID>
<Enable_CLIP>1</Enable_CLIP>
<CallWaiting>1</CallWaiting>
<CallTransfer>1</CallTransfer>
<CallSemiXfer>1</CallSemiXfer>
<CallConference>1</CallConference>
<Auto_PickupNext>0</Auto_PickupNext>
<Busy_No_Line>0</Busy_No_Line>
<Auto_Onhook>1</Auto_Onhook>
<Auto_Onhook_Time>3</Auto_Onhook_Time>
<DND_Return_Code>480</DND_Return_Code>
<Busy_Return_Code>486</Busy_Return_Code>
<Reject_Return_Code>603</Reject_Return_Code>
<CID_Prioiry>0</CID_Prioiry>
<Enable_Intercom>1</Enable_Intercom>
<Intercom_Mute>0</Intercom_Mute>
<Intercom_Tone>1</Intercom_Tone>
<Intercom_Barge>1</Intercom_Barge>
<Use_Auto_Redial>0</Use_Auto_Redial>
<AutoRedial_Delay>10</AutoRedial_Delay>
<AutoRedial_Times>10</AutoRedial_Times>
<Call_Complete>0</Call_Complete>
<Hide_DTMF_Type>0</Hide_DTMF_Type>
<Talk_DTMF_Tone>1</Talk_DTMF_Tone>
```

```

<Dial_DTMF_Tone>1</Dial_DTMF_Tone>
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<Psw_Dial_Prefix></Psw_Dial_Prefix>
</Port_Config_Entry>
</Port_Config>
</CALL_FEATURE_MODULE>
<SIP_CONFIG_MODULE>
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<STUN_Server></STUN_Server>
<STUN_Port>3478</STUN_Port>
<STUN_Refresh_Time>50</STUN_Refresh_Time>
<SIP_Wait_Stun_Time>800</SIP_Wait_Stun_Time>
<Extern_NAT_Addrs></Extern_NAT_Addrs>
<Reg_Fail_Interval>32</Reg_Fail_Interval>
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<Strict_BranchPrefix>0</Strict_BranchPrefix>
<Enable_RFC4475>1</Enable_RFC4475>
<Strict_UA_Match>1</Strict_UA_Match>
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<SIP_Line_List_Entry>
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<Display_Name>%BWNAME-1%</Display_Name>
<Sip_Name>%BWLINERPORTHOST-1%</Sip_Name>
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<Register_Port>5060</Register_Port>
<Register_User>%BWAUTHUSER-1%</Register_User>
<Register_Pswd>%BWAUTHPASSWORD-1%</Register_Pswd>
<Register_TTL>3600</Register_TTL>
<Backup_Addr>%CUS_BAKPROXY_ADDR%</Backup_Addr>
<Backup_Port>%CUS_BAKPROXY_PORT%</Backup_Port>
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<Proxy_Port>%SBC_PORT%</Proxy_Port>
<Proxy_User></Proxy_User>
<Proxy_Pswd></Proxy_Pswd>
<BakProxy_Addr></BakProxy_Addr>
<BakProxy_Port>5060</BakProxy_Port>
<Enable_Failback>0</Enable_Failback>
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<Busy_FWD>0</Busy_FWD>
<No_Answer_FWD>0</No_Answer_FWD>
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<Busy_FWD_Num></Busy_FWD_Num>
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```

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<DTMF_Info_Mode>0</DTMF_Info_Mode>
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<CLIR>0</CLIR>
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<History_Info>0</History_Info>
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<DNS_Mode>0</DNS_Mode>
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<Ban_Anonymous>0</Ban_Anonymous>
<Dial_Off_Line>0</Dial_Off_Line>
<Quota_Name>0</Quota_Name>
<Presence_Mode>0</Presence_Mode>
<RFC_Ver>1</RFC_Ver>
<Signal_Port>5060</Signal_Port>
<Transport>0</Transport>
<Use_SRV_Mixer>0</Use_SRV_Mixer>
<SRV_Mixer Uri>%BWNWORK-CONFERENCE-SIPURI-USERNAME-1%</SRV_Mixer Uri>
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<Auto_TCP>0</Auto_TCP>
<Uri_Escaped>1</Uri_Escaped>
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<MWI_Num></MWI_Num>
<CallPark_Num></CallPark_Num>
<Retrieve_Num></Retrieve_Num>
<MSRPHelp_Num></MSRPHelp_Num>
<User_Is_Phone>1</User_Is_Phone>
<Auto_Answer>0</Auto_Answer>
<NoAnswerTime>5</NoAnswerTime>
<MissedCallLog>1</MissedCallLog>
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<DNDOOff_SvcCode>%BWFAC-DND-DEACTIVATE-1%</DNDOOff_SvcCode>
<CFUOn_SvcCode>%BWFAC-CFA-ACTIVATE-1%</CFUOn_SvcCode>
<CFUOff_SvcCode>%BWFAC-CFA-DEACTIVATE-1%</CFUOff_SvcCode>
<CFBOn_SvcCode>%BWFAC-CFB-ACTIVATE-1%</CFBOn_SvcCode>
<CFBOff_SvcCode>%BWFAC-CFB-DEACTIVATE-1%</CFBOff_SvcCode>
<CFNOn_SvcCode>%BWFAC-CFNA-ACTIVATE-1%</CFNOn_SvcCode>
<CFNOff_SvcCode>%BWFAC-CFNA-DEACTIVATE-1%</CFNOff_SvcCode>
<ANCON_SvcCode></ANCON_SvcCode>

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<ANCOff_SvcCode></ANCOff_SvcCode>
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<Send_ANOffCode></Send_ANOffCode>
<CW_On_Code></CW_On_Code>
<CW_Off_Code></CW_Off_Code>
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<BLF_Server></BLF_Server>
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<Enable_BLFList>0</Enable_BLFList>
<Caller_Id_Type>4</Caller_Id_Type>
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<Sub_CallPark>0</Sub_CallPark>
<Sub_CC_Status>0</Sub_CC_Status>
<Feature_Sync>0</Feature_Sync>
</SIP_Line_List_Entry>
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<Sip_Name>%BWLINERPORTHOST-2%</Sip_Name>
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<Register_Port>5060</Register_Port>
<Register_User>%BWAUTHUSER-2%</Register_User>
<Register_Pswd>%BWAUTHPASSWORD-2%</Register_Pswd>
<Register_TTL>3600</Register_TTL>
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<Backup_Port>%CUS_BAKPROXY_PORT%</Backup_Port>
<Enable_Reg>%BWLINER-BINARY-2%</Enable_Reg>
<Proxy_Addr>%SBC_ADDRESS%</Proxy_Addr>
<Proxy_Port>%SBC_PORT%</Proxy_Port>
<Proxy_User></Proxy_User>
<Proxy_Pswd></Proxy_Pswd>
<BakProxy_Addr></BakProxy_Addr>
<BakProxy_Port>5060</BakProxy_Port>
<Enable_Failback>0</Enable_Failback>
<Media_Crypto>0</Media_Crypto>
<SRTP_Auth-Tag>0</SRTP_Auth-Tag>
<Local_Domain></Local_Domain>
<Always_FWD>0</Always_FWD>
<Busy_FWD>0</Busy_FWD>
<No_Answer_FWD>0</No_Answer_FWD>
<Always_FWD_Num></Always_FWD_Num>
<Busy_FWD_Num></Busy_FWD_Num>
<NoAnswer_FWD_N></NoAnswer_FWD_N>
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<Enable_Hotline>0</Enable_Hotline>
<WarmLine_Time>0</WarmLine_Time>

```

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<Pickup_Num></Pickup_Num>
<Join_Num></Join_Num>
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<Session_Timer>0</Session_Timer>
<S.Timer_Expire>0</S.Timer_Expire>
<Enable_GRUU>0</Enable_GRUU>
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<DTMF_Info_Mode>0</DTMF_Info_Mode>
<NAT_Type>0</NAT_Type>
<Enable_Rport>1</Enable_Rport>
<Subscribe>0</Subscribe>
<Sub_Expire>3600</Sub_Expire>
<Single_Codec>0</Single_Codec>
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<Strict_Proxy>1</Strict_Proxy>
<Direct_Contact>0</Direct_Contact>
<History_Info>0</History_Info>
<DNS_SRV>0</DNS_SRV>
<DNS_Mode>0</DNS_Mode>
<XFER_Expire>0</XFER_Expire>
<Ban_Anonymous>0</Ban_Anonymous>
<Dial_Off_Line>0</Dial_Off_Line>
<Quota_Name>0</Quota_Name>
<Presence_Mode>0</Presence_Mode>
<RFC_Ver>1</RFC_Ver>
<Signal_Port>5060</Signal_Port>
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<Auto_TCP>0</Auto_TCP>
<Uri_Escaped>1</Uri_Escaped>
<Click_to_Talk>0</Click_to_Talk>
<MWI_Num></MWI_Num>
<CallPark_Num></CallPark_Num>
<Retrieve_Num></Retrieve_Num>
<MSRPHelp_Num></MSRPHelp_Num>
<User_Is_Phone>1</User_Is_Phone>
<Auto_Answer>0</Auto_Answer>
<NoAnswerTime>5</NoAnswerTime>
<MissedCallLog>1</MissedCallLog>
<SvcCode_Mode>0</SvcCode_Mode>
<DNDOOn_SvcCode>%BWFAC-DND-ACTIVATE-2%</DNDOOn_SvcCode>
<DNDOOff_SvcCode>%BWFAC-DND-DEACTIVATE-2%</DNDOOff_SvcCode>
<CFUOn_SvcCode>%BWFAC-CFA-ACTIVATE-2%</CFUOn_SvcCode>
<CFUOff_SvcCode>%BWFAC-CFA-DEACTIVATE-2%</CFUOff_SvcCode>
<CFBOn_SvcCode>%BWFAC-CFB-ACTIVATE-2%</CFBOn_SvcCode>
<CFBOff_SvcCode>%BWFAC-CFB-DEACTIVATE-2%</CFBOff_SvcCode>
<CFNOn_SvcCode>%BWFAC-CFNA-ACTIVATE-2%</CFNOn_SvcCode>
<CFNOff_SvcCode>%BWFAC-CFNA-DEACTIVATE-2%</CFNOff_SvcCode>

```



```

<ANCOOn_SvcCode></ANCOOn_SvcCode>
<ANCOOff_SvcCode></ANCOOff_SvcCode>
<Send_ANOn_Code></Send_ANOn_Code>
<Send_ANOffCode></Send_ANOffCode>
<CW_On_Code></CW_On_Code>
<CW_Off_Code></CW_Off_Code>
<VoiceCodecMap>G722,PCMU,PCMA,G729,G726-32,iLBC</VoiceCodecMap>
<BLFList_Uri>%BWLBF-USER-2%</BLFList_Uri>
<BLF_Server></BLF_Server>
<Respond_182>0</Respond_182>
<Enable_BLFList>0</Enable_BLFList>
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<Use_VPN>1</Use_VPN>
<Enable_DND>0</Enable_DND>
<Update_Reg_Exp>1</Update_Reg_Exp>
<Inactive_Hold>0</Inactive_Hold>
<Enable_SCA>0</Enable_SCA>
<Sub_CallPark>0</Sub_CallPark>
<Sub_CC_Status>0</Sub_CC_Status>
<Feature_Sync>0</Feature_Sync>
</SIP_Line_List_Entry>
<SIP_Line_List_Entry>
<ID>SIP3</ID>
<Phone_Number>%BWLINERPORT-3%</Phone_Number>
<Display_Name>%BWNAME-3%</Display_Name>
<Sip_Name>%BWLINERPORTHOST-3%</Sip_Name>
<Register_Addr>%BWHOST-3%</Register_Addr>
<Register_Port>5060</Register_Port>
<Register_User>%BWAUTHUSER-3%</Register_User>
<Register_Pswd>%BWAUTHPASSWORD-3%</Register_Pswd>
<Register_TTL>3600</Register_TTL>
<Backup_Addr>%CUS_BAKPROXY_ADDR%</Backup_Addr>
<Backup_Port>%CUS_BAKPROXY_PORT%</Backup_Port>
<Enable_Reg>%BWLINER-BINARY-3%</Enable_Reg>
<Proxy_Addr>%SBC_ADDRESS%</Proxy_Addr>
<Proxy_Port>%SBC_PORT%</Proxy_Port>
<Proxy_User></Proxy_User>
<Proxy_Pswd></Proxy_Pswd>
<BakProxy_Addr></BakProxy_Addr>
<BakProxy_Port>5060</BakProxy_Port>
<Enable_Failback>0</Enable_Failback>
<Media_Crypto>0</Media_Crypto>
<SRTP_Auth-Tag>0</SRTP_Auth-Tag>
<Local_Domain></Local_Domain>
<Always_FWD>0</Always_FWD>
<Busy_FWD>0</Busy_FWD>
<No_Answer_FWD>0</No_Answer_FWD>
<Always_FWD_Num></Always_FWD_Num>
<Busy_FWD_Num></Busy_FWD_Num>
<NoAnswer_FWD_N></NoAnswer_FWD_N>
<FWD_Timer>5</FWD_Timer>
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<Hotline_Num></Hotline_Num>
<Enable_Hotline>0</Enable_Hotline>

```

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<WarmLine_Time>0</WarmLine_Time>
<Pickup_Num></Pickup_Num>
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<PRACK>1</PRACK>
<Keep_AUTH>0</Keep_AUTH>
<Session_Timer>0</Session_Timer>
<S.Timer_Expire>0</S.Timer_Expire>
<Enable_GRUU>0</Enable_GRUU>
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<DTMF_Info_Mode>0</DTMF_Info_Mode>
<NAT_Type>0</NAT_Type>
<Enable_Rport>1</Enable_Rport>
<Subscribe>0</Subscribe>
<Sub_Expire>3600</Sub_Expire>
<Single_Codec>0</Single_Codec>
<CLIR>0</CLIR>
<Strict_Proxy>1</Strict_Proxy>
<Direct_Contact>0</Direct_Contact>
<History_Info>0</History_Info>
<DNS_SRV>0</DNS_SRV>
<DNS_Mode>0</DNS_Mode>
<XFER_Expire>0</XFER_Expire>
<Ban_Anonymous>0</Ban_Anonymous>
<Dial_Off_Line>0</Dial_Off_Line>
<Quota_Name>0</Quota_Name>
<Presence_Mode>0</Presence_Mode>
<RFC_Ver>1</RFC_Ver>
<Signal_Port>5060</Signal_Port>
<Transport>0</Transport>
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<Auto_TCP>0</Auto_TCP>
<Uri_Escaped>1</Uri_Escaped>
<Click_to_Talk>0</Click_to_Talk>
<MWI_Num></MWI_Num>
<CallPark_Num></CallPark_Num>
<Retrieve_Num></Retrieve_Num>
<MSRPHelp_Num></MSRPHelp_Num>
<User_Is_Phone>1</User_Is_Phone>
<Auto_Answer>0</Auto_Answer>
<NoAnswerTime>5</NoAnswerTime>
<MissedCallLog>1</MissedCallLog>
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<DNDOff_SvcCode>%BWFAC-DND-DEACTIVATE-3%</DNDOff_SvcCode>
<CFUOn_SvcCode>%BWFAC-CFA-ACTIVATE-3%</CFUOn_SvcCode>
<CFUOff_SvcCode>%BWFAC-CFA-DEACTIVATE-3%</CFUOff_SvcCode>
<CFBOn_SvcCode>%BWFAC-CFB-ACTIVATE-3%</CFBOn_SvcCode>
<CFBOff_SvcCode>%BWFAC-CFB-DEACTIVATE-3%</CFBOff_SvcCode>
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<ANCOff_SvcCode></ANCOff_SvcCode>
<Send_ANOn_Code></Send_ANOn_Code>
<Send_ANOffCode></Send_ANOffCode>
<CW_On_Code></CW_On_Code>
<CW_Off_Code></CW_Off_Code>
<VoiceCodecMap>G722,PCMU,PCMA,G729,G726-32,iLBC</VoiceCodecMap>
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<BLF_Server></BLF_Server>
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<Use_VPN>1</Use_VPN>
<Enable_DND>0</Enable_DND>
<Update_Reg_Exp>1</Update_Reg_Exp>
<Inactive_Hold>0</Inactive_Hold>
<Enable_SCA>0</Enable_SCA>
<Sub_CallPark>0</Sub_CallPark>
<Sub_CC_Status>0</Sub_CC_Status>
<Feature_Sync>0</Feature_Sync>
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<SIP_Line_List_Entry>
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<Register_Port>5060</Register_Port>
<Register_User>%BWAUTHUSER-4%</Register_User>
<Register_Pswd>%BWAUTHPASSWORD-4%</Register_Pswd>
<Register_TTL>3600</Register_TTL>
<Backup_Addr>%CUS_BAKPROXY_ADDR%</Backup_Addr>
<Backup_Port>%CUS_BAKPROXY_PORT%</Backup_Port>
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<Proxy_Addr>%SBC_ADDRESS%</Proxy_Addr>
<Proxy_Port>%SBC_PORT%</Proxy_Port>
<Proxy_User></Proxy_User>
<Proxy_Pswd></Proxy_Pswd>
<BakProxy_Addr></BakProxy_Addr>
<BakProxy_Port>5060</BakProxy_Port>
<Enable_Failback>0</Enable_Failback>
<Media_Crypto>0</Media_Crypto>
<SRTP_Auth-Tag>0</SRTP_Auth-Tag>
<Local_Domain></Local_Domain>
<Always_FWD>0</Always_FWD>
<Busy_FWD>0</Busy_FWD>
<No_Answer_FWD>0</No_Answer_FWD>
<Always_FWD_Num></Always_FWD_Num>
<Busy_FWD_Num></Busy_FWD_Num>
<NoAnswer_FWD_N></NoAnswer_FWD_N>
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<Hotline_Num></Hotline_Num>

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<Enable_Hotline>0</Enable_Hotline>
<WarmLine_Time>0</WarmLine_Time>
<Pickup_Num></Pickup_Num>
<Join_Num></Join_Num>
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<UDPUpdate_TTL>15</UDPUpdate_TTL>
<Server_Type>0</Server_Type>
<User_Agent></User_Agent>
<PRACK>1</PRACK>
<Keep_AUTH>0</Keep_AUTH>
<Session_Timer>0</Session_Timer>
<S.Timer_Expire>0</S.Timer_Expire>
<Enable_GRUU>0</Enable_GRUU>
<DTMF_Mode>3</DTMF_Mode>
<DTMF_Info_Mode>0</DTMF_Info_Mode>
<NAT_Type>0</NAT_Type>
<Enable_Rport>1</Enable_Rport>
<Subscribe>0</Subscribe>
<Sub_Expire>3600</Sub_Expire>
<Single_Codec>0</Single_Codec>
<CLIR>0</CLIR>
<Strict_Proxy>1</Strict_Proxy>
<Direct_Contact>0</Direct_Contact>
<History_Info>0</History_Info>
<DNS_SRV>0</DNS_SRV>
<DNS_Mode>0</DNS_Mode>
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<Ban_Anonymous>0</Ban_Anonymous>
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<Send_ANOffCode></Send_ANOffCode>
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<CW_Off_Code></CW_Off_Code>
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<CFNOff_SvcCode>%BWFAC-CFNA-DEACTIVATE-8%</CFNOff_SvcCode>
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<Send_ANOffCode></Send_ANOffCode>
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<CW_Off_Code></CW_Off_Code>
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<CW_On_Code></CW_On_Code>
<CW_Off_Code></CW_Off_Code>
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<CallPark_Num></CallPark_Num>
<Retrieve_Num></Retrieve_Num>
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