Cisco BroadWorks

Partner Configuration Guide

Cisco Multi-Platform Phones

September 2023

Document Version 1.30

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Document Revision History

Version	Reason for Change
1.1	Introduced document for Cisco MPP Series version 11.2.1 validation with Cisco BroadWorks Release 22.0.
1.2	Edited and published the document.
1.3	Added CP-6821-3PCC model v11.2.2 to the Cisco MPP Series validation with Cisco BroadWorks Release 22.0.
1.4	Edited changes and published the document.
1.5	Added CP-8832-3PCC model and completed Cisco MPP Series version 11.2.3 validation with Cisco BroadWorks Release 22.0. Also, edited with new 11.2.3 features.
1.6	Edited changes and published the document.
1.7	Added CP-6861-3PCC model v11.2.4 to the Cisco MPP Series validation with Cisco BroadWorks Release 22.0.
1.8	Edited changes and published the document.
1.9	Updated the *<mac-address>_CiscoDev.xml* example in Appendix A.
1.10	Added comment for XSI Authentication tags.
1.11	Edited changes, rebranded and published the document.
1.12	Added the CP-6871-3PCC model and updated document for Cisco MPP Series version 11.3.1 validation with Cisco BroadWorks Release 22.0.
1.13	Edited changes, rebranded and published the document.
1.14	Updated document for Cisco MPP Series version 11.3.2 validation with Cisco BroadWorks Release 23.0.
1.15	Updated document for Cisco MPP Series version 11.3.3 validation with Cisco BroadWorks Release 24.0.
1.16	Updated document for Cisco MPP Series version 11.3.4 validation with Cisco BroadWorks Release 24.0.
1.17	Updated document for Cisco MPP Series version 11.3.5 validation with Cisco BroadWorks Release 24.0.
1.18	Edited changes and published the document.
1.19	Updated document for Cisco MPP Series version 11.3.6 validation with Cisco BroadWorks Release 24.0. This version includes Cloud Onboarding of MPP phones.
1.20	Edited changes and published the document.
1.21	Updated document for Cisco MPP Series version 11.3.7 validation with Cisco BroadWorks Release 24.0.This version includes Cloud Onboarding of MPP phones.
1.22	Edited changes and published the document.
1.23	Updated document for Cisco Video Phone 8875. Added the locale file list for Video Phone 8875. Updated the example file CisoDev-3PCC_Bootstrap.xml.
1.24	Edited changes and published the document.
1.25	Updated document for Cisco MPP Series version 12.0.1 validation with Cisco BroadWorks Release 24.0. This version includes Cloud Onboarding of MPP phones.
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Version	Reason for Change
1.27	Updated document for Cisco MPP Series version 12.0.2 validation with Cisco BroadWorks Release 24.0. This version includes Cloud Onboarding of MPP phones.
1.28	Edited changes and published the document.
1.29	Updated document for Cisco MPP Series version 12.0.3 validation with Cisco BroadWorks Release RI. This version includes Cloud Onboarding of MPP phones.
1.30	Edited changes and published the document.

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1 Overview

This guide describes the configuration procedures required for the Cisco MultiPlatform Phones (MPP) Series to be interoperable with Cisco BroadWorks. This includes the following MPP Series phone models:

- CP-6821-3PCC
- CP-6841-3PCC
- CP-6851-3PCC
- CP-6861-3PCC
- CP-6871-3PCC
- CP-7811-3PCC
- CP-7821-3PCC
- CP-7832-3PCC
- CP-7841-3PCC
- CP-7861-3PCC
- CP-8811-3PCC
- CP-8841-3PCC
- CP-8845-3PCC
- CP-8851-3PCC
- CP-8861-3PCC
- CP-8865-3PCC
- CP-8875
- CP-8832-3PCC

The MPP Series uses 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 MPP Series. For those details, see the *Cisco IP Phone 8800 Series MultiPlatform Phones Administration Guide* [1], *Cisco IP Phone 7800 Series MultiPlatform Phones Administration Guide* [1], *Cisco IP Phone 6800 Series MultiPlatform Phones Administration Guide* [1] supplied by Cisco Systems.

2 Interoperability Status

This section provides the known interoperability status of the Cisco MPP 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 Cisco.

2.1 Verified Versions

The following table identifies the verified Cisco MPP 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 MPP 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 Cisco.

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 *BroadWorks SIP Phone Interoperability Test Plan*.

Verified Versions			
Date (mm/yyyy)	**Cisco BroadWorks Release**	**MPP Series Verified Version**	**MPP Series Compatible Versions**
08/2023	Release RI	12.0.3	Any maintenance release of the verified versions.
07/2023	Release 24.0	12.0.2	Any maintenance release of the verified versions.
01/2023	Release 24.0	12.0.1	Any maintenance release of the verified versions.
06/2022	Release 24.0	11.3.7	Any maintenance release of the verified versions.
01/2022	Release 24.0	11.3.6	Any maintenance release of the verified versions.
09/2021	Release 24.0	11.3.5	Any maintenance release of the verified versions.

Verified Versions			
Date (mm/yyyy)	**Cisco BroadWorks Release**	**MPP Series Verified Version**	**MPP Series Compatible Versions**
06/2021	Release 24.0	11.3.4	Any maintenance release of the verified versions.
09/2020	Release 24.0	11.3.3	Any maintenance release of the verified versions.
11/2019	Release 22.0	11.3.1	Any maintenance release of the verified versions.
05/2019	Release 22.0	CP-6861: 11.2.4 Rest of MPP: 11.2.3	Any maintenance release of the verified versions.
01/2019	Release 22.0	11.2.3	Any maintenance release of the verified versions.
09/2018	Release 22.0	CP-6821: 11.2.2 Rest of MPP: 11.2.1	Any maintenance release of the verified versions.
07/2018	Release 22.0	11.2.1	Any maintenance release of the verified versions.

2.2 Interface Capabilities Supported

This section identifies interface capabilities that have been verified through testing as supported by Cisco MPP Series.

The *Supported* column in the tables in this section identifies the Cisco MPP Series' support for each of the items covered in the test plan, with the following designations:

- Yes Test item is supported.
- No Test item is not supported.
- NA Test item is not applicable to the device type.
- NT Test item was not tested.
- Yes* Test item may differ from Cisco BroadWorks feature design.

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

2.2.1 SIP Interface Capabilities

The Cisco MPP Series has completed interoperability testing with Cisco BroadWorks using the *BroadWorks SIP Phone Interoperability Test Plan*. 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 Cisco MPP Series.

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
Basic	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Session Timer	No	
	Ringback	Yes	
	Forked Dialog	Yes	
	181 Call Being Forwarded	Yes	
	Dial Plan	Yes	
	DTMF – Inband	Yes	
	DTMF – RFC 2833	Yes	
	DTMF – DTMF Relay	Yes	
	Codec Negotiation	Yes	
	Codec Renegotiation	Yes	
BroadWorks Services	Third-Party Call Control – Basic	Yes	Except for the 8875 phones
	Third-Party Call Control – Advanced	Yes	Except for the 8875 phones
	Voice Message Deposit/Retrieval	Yes	
	Message Waiting Indicator – Unsolicited	Yes	
	Message Waiting Indicator – Solicited	Yes	
	Message Waiting Indicator – Detail	Yes	
	Voice Portal Outcall	Yes	
	Advanced Alerting – Ringing	Yes	
	Advanced Alerting – Call Waiting	Yes	
	Advanced Alerting – Ring Splash	Yes	
	Advanced Alerting – Silent Alerting	Yes	
	Calling Line ID	Yes	
	Calling Line ID with Unicode Characters	Yes	
	Connected Line ID	Yes	
	Connected Line ID with Unicode Characters	Yes	
	Connected Line ID on UPDATE	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Connected Line ID on Re-INVITE	Yes	
	Diversion Header	Yes	
	History-Info Header	Yes	
	Advice of Charge	No	
	Meet-Me Conferencing	Yes	
	Meet-Me Conferencing – G722	Yes	
	Meet-Me Conferencing – AMR-WB	Yes	
	Meet-Me Conferencing – OPUS	Yes	
	Collaborate – Audio	Yes	
	Collaborate – Audio – G722	Yes	
	Collaborate – Audio – OPUS	Yes	
	Call Decline Policy	Yes	
DUT Services – Call Control Services	Call Waiting	Yes	
	Call Hold	Yes	
	Call Transfer	Yes	
	Three-Way Calling	Yes	
	Network-Based Conference	Yes	
DUT Services – Registration and Authentication	Register Authentication	Yes	
	Maximum Registration	Yes	
	Minimum Registration	Yes	
	Invite Authentication	Yes	
	Re-INVITE/Update Authentication	Yes	
	Refer Authentication	Yes	
	Device Authenticating BroadWorks	Yes	
DUT Services – Emergency Call	Emergency Call	No	
	Emergency Call with Ringback	No	
DUT Services – P-Access-Network-Info Header	REGISTER with P-Access-Network-Info Header	No	
	INVITE with P-Access-Network-Info Header	No	
DUT Services – Miscellaneous	Do Not Disturb	Yes	
	Call Forwarding Always	Yes	
	Call Forwarding Always Diversion Inhibitor	No	
	Anonymous Call	Yes	
	Anonymous Call Block	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Remote Restart Via Notify	Yes	
Advanced Phone Services – Busy Lamp Field	Busy Lamp Field	Yes	Except for the 7811, 7832, and 8832 models
	Call Park Notification	Yes	
Advanced Phone Services – Feature Key Synchronization, Private Line	Do Not Disturb	Yes	Except Multiline
	Do Not Disturb Ring Splash	Yes	
	Call Forwarding	Yes	
	Call Forwarding Always Ring Splash	Yes	
	Call Forwarding Always Diversion Inhibitor	No	
	Call Center Agent Logon/Logoff	Yes	Except for the 8875 phones
	Call Center Agent Unavailable Code	Yes	Except for the 8875 phones
	Executive – Call Filtering	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone
	Executive-Assistant – Call Filtering	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone
	Executive-Assistant – Diversion	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone
	Call Recording	Yes	
	Security Classification	No	
Advanced Phone Services – Feature Key Synchronization, Shared Line	Do Not Disturb	Yes	
	Do Not Disturb Ring Splash	Yes	
	Call Forwarding	Yes	
	Call Forwarding Always Ring Splash	Yes	
	Call Forwarding Always Diversion Inhibitor	No	
	Security Classification	No	
Advanced Phone Services – Missed Calls Display Synchronization	Missed Calls Display Sync	Yes	
Advanced Phone Services – Shared Call Appearance using Call-Info	Line-Seize	Yes	
	Call-Info/Lamp Management	Yes	
	Public Hold	Yes	
	Private Hold	Yes*	DUT removes retrieve button when call is privately held
	Hybrid Key System	Yes	Except for the 7811, 7821, 8875, and 6821 models

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Multiple Call Arrangement	Yes	
	Bridge Active Line	Yes	
	Bridge Active Line – Silent Monitor	Yes	
	Call Park Notification	Yes	
Advanced Phone Services – Call Park Notification	Call Park Notification	Yes	
Advanced Phone Services – Call Center	Hold Reminder	Yes	
	Call Information	Yes	
	Hoteling Event	Yes	
	Status Event	Yes	
	Disposition Code	Yes	Except for the 8875 phones
	Emergency Escalation	Yes	
	Customer Originated Trace	Yes	
Advanced Phone Services – Call Recording Controls	Pause/Resume	Yes	Except for the 8875 phones
	Start/Stop	Yes	Except Mid-Call Except for the 8875 phones
	Record Local Conference	Yes	Except for the 8875 phones
	Record Network Conference	Yes	Except for the 8875 phones
Advanced Phone Services – Call Recording Video	Basic Call	No	
	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Security Classification	Security Classification	No	
Advanced Phone Services – Conference Event	Network-Based Conference Creator	No	
	Network-Based Conference Participant	No	
	Meet-Me Conference Participant	No	
Redundancy	DNS SRV Lookup	Yes	
	Register Failover/Failback	Yes	
	Invite Failover/Failback	Yes	
	Bye Failover	Yes	
SBC/ALG – Basic	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
	Register Failover/Failback	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
SBC/ALG – Failover/Failback	Invite Failover/Failback	Yes	
Video – Basic Video Calls	Call Origination	Yes	Only 8845, 8865, and 8875
	Call Termination	Yes	Only 8845, 8865, and 8875
	Call Hold	Yes	Only 8845, 8865, and 8875
	Call Waiting	Yes	Only 8845, 8865, and 8875
	Call Transfer	Yes	Only 8845, 8865, and 8875
Video – BroadWorks Video Services	Auto Attendant	No	
	Auto Attendant – HD	Yes	Only 8845 and 8865
	Voice Messaging	No	
	Voice Messaging – HD	Yes	Only 8845 and 8865
	Custom Ringback	Yes	Only 8845 and 8865
Video – BroadWorks Video Conference	Network-based Conference	No	
	Network-based Conference – HD	Yes	Only 8845 and 8865
	Collaborate – Video	No	
	Collaborate – Video – HD	Yes	Only 8845 and 8865
Video – BroadWorks WebRTC Client	Call from WebRTC Client	Yes	Only 8845 and 8865
	Call to WebRTC Client	Yes	Only 8845 and 8865
TCP	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
IPV6	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Ringback	Yes	
	Codec Negotiation/Renegotiation	Yes	
	Voice Message Deposit/Retrieval	Yes	
	Call Control	Yes	
	Registration with Authentication	Yes	
	Busy Lamp Field	Yes	Except for the 7811, 7832, and 8832 models
	Redundancy	Yes	
	SBC	Yes	
	Video	Yes	Only for the 8845, 8865, and 8875 models

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
	Dual Stack with Alternate Connectivity	Yes*	

2.2.2 Other Interface Capabilities

This section identifies whether the Cisco MPP Series has implemented support for the following:

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

Support for these interfaces is demonstrated by completing the *Cisco BroadWorks SIP Phone Xsi and XMPP Test Plan*. 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	Yes	
	Authenticate with BroadWorks User Login Credentials	Yes	
	Authenticate with BroadWorks User Directory Number	No	
Xsi Features – User Service Configuration	Remote Office	No	
	BroadWorks Anywhere	Yes	
	Simultaneous Ringing	No	
	Caller ID Blocking	Yes	
	Call Forwarding Always	Yes	
	Call Forwarding Busy	Yes	
	Call Forwarding No Answer	Yes	
	Do Not Disturb	Yes	
Xsi Features – Directories	Enterprise Directory	Yes	
	Enterprise Common Phone List	Yes	
	Group Directory	Yes	
	Group Common Phone List	Yes	
	Personal Phone List	Yes	
	Search All Directories	Yes	
Xsi Features – Call Logs	Placed Calls	Yes	
	Received Calls	Yes	
	Missed Calls	Yes	
	All Calls	Yes	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	**Feature**	**Supported**	**Comments**
	Sort by Name	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	
Xsi Features – Call Recording Controls	Record Mode set to Never	No	
	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	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	**Feature**	**Supported**	**Comments**
XMPP Features – Contact/Buddy List	Contacts	Yes	
	Favorites	Yes	
	Groups	Yes	
	Non-XMPP Contacts	Yes	
	Conferences	No	
XMPP Features – Presence	Login Invisible	Yes	
	Presence State	Yes	
	Presence Status	No	
	Contact's Presence State	Yes	

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 Cisco issue, the issue number is from Cisco's tracking system. If it is a Cisco BroadWorks issue, the issue number is from Cisco's tracking system.

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

Issue Number	**Issue Description**	**Version**				
		11.3.3	**11.3.1**	**11.2.3**	**11.2.1**	
	None.					

3 Cisco BroadWorks Configuration

This section identifies the required Cisco BroadWorks device profile type for the Cisco MPP Series as well as any other unique Cisco BroadWorks configuration required for interoperability with the MPP Series models listed previously.

3.1 Cisco BroadWorks Device Profile Type Configuration

This section identifies the device profile type settings to use when deploying the Cisco MPP Series with Cisco BroadWorks.

Create a Common MPP-3PCC (78xx-88xx-68xx) device profile type for the Cisco MPP Series with settings as shown in the following example. Common IDT removes the need for separate device profile type to be created for each Cisco MPP Series model. The settings shown are recommended for use when deploying the Cisco MPP-3PCC with Cisco BroadWorks. For an explanation of the profile parameters, see the *Cisco BroadWorks Device Management Configuration Guide* [2].

The device profile type shows the *Number of Ports* (number of SIP lines) setting for Common Cisco MPP-3PCC models. The number of SIP lines for MPP Series per model is as shown in the following table.

Model	Number of Lines
CP-6821-3PCC	2
CP-6841-3PCC	4
CP-6851-3PCC	4
CP-6861-3PCC	4
CP-6871-3PCC	6
CP-7811-3PCC	1
CP-7821-3PCC	2
CP-7832-3PCC	1
CP-7841-3PCC	4
CP-7861-3PCC	16
CP-8811-3PCC	10
CP-8841-3PCC	10
CP-8845-3PCC	10
CP-8851-3PCC	10
CP-8861-3PCC	10
CP-8865-3PCC	10
CP-8875	16
CP-8832-3PCC	1

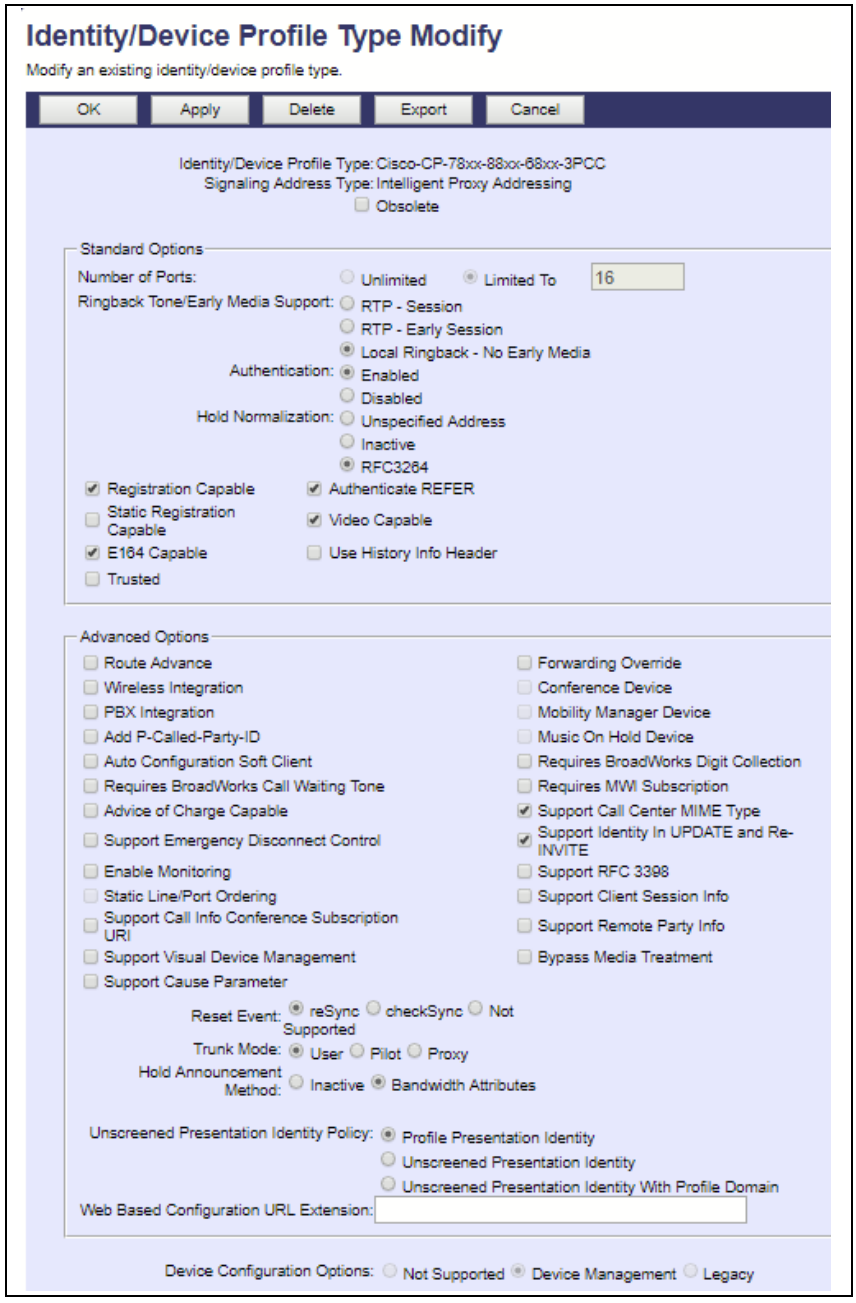


Figure 1 Device Identity/Profile Type

3.2 Cisco BroadWorks Configuration Steps

No other steps are needed on Cisco BroadWorks for setting up the device.

4 MPP Series Configuration

This section describes the configuration settings required for the MPP Series integration with Cisco BroadWorks, primarily focusing on the SIP interface configuration. The MPP Series 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 *Cisco Multiplatform IP Phones Administration Guide* [1] for the appropriate MPP Series.

4.1 Configuration Method

Configuration Files

MPP Series Configuration Files	Level	Description
CiscoDev_Type68xx.xml	Per-Type	Contains the 6800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6821.xml	Per-Type	Contains the 6821 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6861.xml	Per-Type	Contains the 6861 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6871.xml	Per-Type	Contains the 6871 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type78xx.xml	Per-Type	Contains the 7800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type7832.xml	Per-Type	Contains model 7832 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type88xx.xml	Per-Type	Contains the 8800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type88x5.xml	Per-Type	Contains model 88x5 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type8875.xml	Per-Type	Contains model 8875 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type8832.xml	Per-Type	Contains model 8832 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_System.xml	Per_Type	System-level settings of device type.
CiscoDev-3PCC_Bootstrap.xml	Per-Type	These files are referred to as the default template files. They contain the Profile Rule settings for the MPP-3PCC phone models.
%BWMACADDRESS%_CiscoDev.xml	Per-Device	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 MPP Series to work with Cisco BroadWorks. Subscriber-specific settings are described in the next section.

Step	Command	Description
System Configuration File <CiscoDev-3PCC_Bootstrap.xml>		
Step 1	Set the DNS Settings. **Web:** System Tab: Primary DNS = 8.8.8.8 Secondary DNS = 8.8.4.4 **XML:** <Primary_DNS ua="rw">8.8.8.8</Primary_DNS> <Secondary_DNS ua="rw">8.8.4.4</Secondary_DNS>	Optional: Sets the MPP Series DNS Settings if the Cisco BroadWorks Fully Qualified Domain Name (FQDN) is not resolvable in the public network.
Step 2	Set the Profile Resync Timers. **Web:** System Tab: Resync At Random Delay: 1 Resync Periodic: 60 (1 minutes/60 seconds) Resync Error Retry Delay: 300 Forced Resync Delay: 600 **XML:** <Resync_At_Random_Delay ua="na">1</Resync_At_Random_Delay> <Resync_Periodic ua="na">60</Resync_Periodic> <Resync_Error_Retry_Delay ua="na">300</Resync_Error_Retry_Delay> <Forced_Resync_Delay ua="na">600</Forced_Resync_Delay>	Sets the MPP Series Profile Resync values to a minimum value. This allows for instantaneous loading of the configuration files.

Step	Command	Description
Step 3	Set the Configuration file paths. **Web:** Prov Tab: Profile Rule: http://10.74.121.56:80/dms/CP-7841-3PCC/7841System.xml Profile Rule B: http://10.74.121.56:80/dms/CP-7841-3PCC/$MA_7841.xml Profile Rule C: http://10.74.121.56:80/dms/CP-7841-3PCC/$MA_7841_Keys.xml **XML:** <Profile_Rule ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%7841System.xml</Profile_Rule> <Profile_Rule_B ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_7841.xml</Profile_Rule_B> <Profile_Rule_C ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_7841_Keys.xml</Profile_Rule_C>	Sets the profile rules of the device.
Step 4	Enable the Provisioning Authority/Extension Mobility. **Web:** Phone Tab: EM Enable: Yes Set EM User Domain **XML:** <EM_Enable ua="na">Yes</EM_Enable>	Enables Extension Mobility to facilitate provisioning authority/hot desking.

Step	Command	Description
System Configuration File <CiscoDev_System.xml>		
Step 1	Set the SIP Proxy/Domain. **Web:** Ext 1 Tab: Proxy = as.broadworks.net **XML:** <Proxy_1_ ua=”na”>as.broadworks.net</Proxy_1_> Optional SRST Proxy Config **Web:** Ext Tab -> Proxy and Registration: Alternate Proxy = 192.168.1.1 Dual Registration = Yes **XML Example:** <Alternate_Proxy_1_ ua=”na”>192.168.1.1</Alternate_Proxy_1_> <Dual_Registration_1_ ua=”na”>Yes</Dual_Registration_1_>	Sets the MMP series phone SIP Proxy to the Fully Qualified Domain Name (FQDN) for the Cisco BroadWorks Application Server cluster. The domain must match the domain configured for the Cisco BroadWorks subscriber’s line/port domain. For more information, see the *Cisco 3PCC IP Phone Administration Guide*.
Step 2	Configure the Outbound Proxy/SBC. **Web:** Voice Tab->Extension Tab: Outbound Proxy=sbc.iop1.broadworks.net Outbound Proxy=199.19.193.9 **XML:** <Outbound_Proxy_1_ ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_1_> <Alternate_Outbound_Proxy_1_ ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_1_>	Sets the Outbound Proxy/SBC if one is used between Cisco BroadWorks and Cisco MPP Series. If the SBC is redundant, use an FQDN to represent the SBC cluster within the Outbound Proxy field. Otherwise, enter the Primary SBC for custom tag SBC_ADDRESS_1 and the Secondary SBC for custom tag SBC_ADDRESS_2.
Step 3	Enable the DNS SRV lookup. **Web:** Ext 1 Tab: Use DNS SRV = “Yes” **XML:** <Use_DNS_SRV_1_ ua=”na”>Yes</Use_DNS_SRV_1_>	Enable the DNS SRV lookup when deploying redundant SBC/Cisco BroadWorks Application Servers.

Step	Command	Description
Step 4	Set SIP Timers. **Web Example:** SIP Tab: SIP T1 ".5" ; SIP T2 "4" ; INVITE Expires "240" ; ReINVITE Expires "30" ; Reg_Retry_Intvl "30" ; Reg_Retry_Long_Intvl "600" ; **XML Example:** <SIP_T1 ua="na">.5</SIP_T1> <SIP_T2 ua="na">4</SIP_T2> <INVITE_Expires ua="na">240</INVITE_Expires> <ReINVITE_Expires ua="na">30</ReINVITE_Expires> <Reg_Retry_Intvl ua="na">30</Reg_Retry_Intvl> <Reg_Retry_Long_Intvl ua="na">600</Reg_Retry_Long_Intvl>	The SIP Timers should be set to levels short enough to support a timely failover when there is no server response. The suggested registration period (Reg Max Expires) is one day or 86400 seconds. The Reg Retry Long Intvl timer should be set to "600" (10 minutes) to limit the frequency of Register retries after a 403 Forbidden response.
Step 5	Enable reliable response. **Web:** Ext N Tab: SIP 100REL Enable = "Yes" XML: <SIP_100REL_Enable_1_ ua="na">Yes</SIP_100REL_Enable_1_>	Reliable provisional response (PRACK) should be enabled.
Step 6	Enable negotiated DTMF type. **Web:** Ext 1 Tab: DTMF Tx Method = "Auto" **XML:** <DTMF_Tx_Method_1_ ua="na">Auto</DTMF_Tx_Method_N_> **XML Example:** <DTMF_Tx_Method_1_ ua="na">Auto</DTMF_Tx_Method_1_>	Set *Auto* to enable inband or RFC 2833 negotiated DTMF.
Step 7	Set the hold implementation type. **Web:** SIP Tab: RFC 2543 Call Hold = no **XML:** <RFC_2543_Call_Hold ua="na">No</RFC_2543_Call_Hold>	It is recommended to set the hold implementation to "RFC 3264".

Step	Command	Description
Step 8	Configure dial plan. **Web:** Ext 1 Tab: Dial_Plan = ([2346789]11S0 | [0-1][2-9]11S0 | 0 | 00S0 | 01[2-9]xx. | [*#]xx[*#] | *xx. | *xxxxxxS0 | *xxxxxxxxxxxx | [2-9]# | 011x. | [0-1]xxxxxxx | [0-1][2-9]xxxxxxxxS0 | [2-9]xxxxxxxxS0 | [2- 9]xxxxxx | 101xxxx. | 11S0 | [2-9]x.) **XML:** <Dial_Plan_1_ ua="na"> ([2346789]11S0 | [0- 1][2-9]11S0 | 0 | 00S0 | 01[2-9]xx. | [*#]xx[*#] | *xx. | *xxxxxxS0 | *xxxxxxxxxxxx | [2-9]# | 011x. | [0-1]xxxxxxx | [0-1][2-9]xxxxxxxxS0 | [2-9]xxxxxxxxS0 | [2- 9]xxxxxx | 101xxxx. | 11S0 | [2-9]x.) </Dial_Plan_1_>	Configures the MPP Series dial plan according to the locale. The dial plan shown is an example of a typical North American dial plan.
Step 9	Enable supplementary services. **Web:** Phone Tab: Conference Serv = "yes" Attn Transfer Serv = "yes" Blind Transfer Serv = "yes" **XML:** <Conference_Serv ua="na">Yes</Conference_Serv> <Attn_Transfer_Serv ua="na">Yes</Attn_Transfer_Serv> <Blind_Transfer_Serv ua="na">Yes</Blind_Transfer_Serv>	Enables Conference, Attended Transfer, and Blind Transfer services.
Step 10	Enable reliable redundancy. **Web:** Ext 1 Tab: Proxy Fallback Intvl = 1800 **XML:** <Proxy_Fallback_Intvl_1_ ua="na">1800</Proxy_Fallback_Intvl_1_>	Setting forces failback of redundant registration, overriding any value received from Cisco BroadWorks Application Server.
Step 11	Schedule Profile Rule Resynchronize Time. **Web:** Provisioning Tab->"Configuration Profile Section" Field: "Resync At (HHmm): **XML Example:** <Resync_At__HHmm_ ua="na">0200</Resync_At__HHmm_>	The value is in 24-hour format.

Step	Command	Description
Step 12	Configure the Calls Appearances/Line. **Web Example:** Phone Tab->Miscellaneous Line Key Settings->Call Appearance Per Line: 3 **XML Example:** <Call_Appearances_Per_Line group="Phone/Miscellaneous_Line_Key_Settings">10</Call_Appearance_Per_Line> <!-- options: 2-10 -->	Appearances/Line value can be set to any value between 2 and 10.
Step 13	Configure NAT Support. <!-- NAT Support Parameters --> <Handle_VIA_received ua="na">Yes</Handle_VIA_received> <Handle_VIA_rport ua="na">No</Handle_VIA_rport> <Insert_VIA_received ua="na">Yes</Insert_VIA_received> <Insert_VIA_rport ua="na">No</Insert_VIA_rport> <Substitute_VIA_Addr ua="na">Yes</Substitute_VIA_Addr> <Send_Resp_To_Src_Port ua="na">Yes</Send_Resp_To_Src_Port> <STUN_Enable ua="na">Yes</STUN_Enable> <STUN_Test_Enable ua="na">No</STUN_Test_Enable> <STUN_Server ua="na">%STUN_SERVER%</STUN_Server> <EXT_IP ua="na"/> <EXT_RTP_Port_Min ua="na">0</EXT_RTP_Port_Min> <NAT_Keep_Alive_Intvl ua="na">15</NAT_Keep_Alive_Intvl>	Optional: The MPP Series device can be enabled with STUN support for deployments where the device is within a NAT environment and no SBC/SIP ALG is desired or available.
Step 14	Configure for Solicited VM. **Web:** *Example:* Ext 1 Tab "Call Feature Settings" Voice Mail Server = 1111@as.mycompany.com Voice Mail Subscribe Interval = "3600" ***XML:*** Example: <Voice_Mail_Server_1_ ua="na"></Voice_Mail_Server_1_> <Voice_Mail_Subscribe_Interval_1_ ua="na">3600</Voice_Mail_Subscribe_Interval_1_>	Optional: This setting within the Subscriber level configuration allows for Solicited Voicemail Updates.

4.3 Subscriber Level Configuration

This section identifies the device-specific parameters, including registration and authentication. These settings must be unique across devices 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
Configuration File <mac-address>.xml		
Step 1	Enable phone lines. **Web:** Ext 1 Tab Line Enable = "Yes" **XML:** Example: <Line_Enable_1_ ua="na">Yes </Line_Enable_1_>	Enables each line on the Cisco IP Phones in use.
Step 2	Configure SIP UA credentials. **Web:** Voice->Extension Proxy: as.mycompany.com UserID: 1111 **XML:** <Proxy_1_ ua="na">as.mycompany.com</Proxy_1_> <User_ID_1_ ua="na>1111</User_ID_1_>	Configures the Extension UserID and Proxy values to match the Cisco BroadWorks Application Server line/port setting.
Step 3	Enable SIP Authentication for each line. **Web:** Example: Ext 1 Tab Auth_ID = "1111@as.mycompany.com" Password = "welcome" **XML:** Ext1/Line1 <Auth_ID_1_ ua="na">1111@as.mycompany.com</Auth_ID_1_> <Password_1_ ua="na">welcome </Password_1_>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.
Step 4	Configure display name for each line. **Web:** Ext 1 Tab Display_Name = "Claire Smith" **XML:** Ext1/Line1 <Display_Name_1_ ua="na">Claire Smith </Display_Name_1_>	For each line, configure the name to be displayed on the device.

Step	Command	Description
Step 5	Configure for N-Way Calling. **Web:** Example: Ext 1 Tab Conference Bridge URL = conference@broadworks.net **XML:** <Conference_Bridge_URL_1_ ua="na">conference@broadworks.net</Conference_Bridge_URL_1_>	This setting within the Subscriber level configuration allows for network-based conference calls instead of device-based conference.
Step 6	**Configure for Solicited VM.** **Web:** *Example:* Ext 1 Tab "Call Feature Settings" Voice Mail Server = 1111@as.mycompany.com Voice Mail Subscribe Interval = "3600" ***XML:*** Example: <Voice_Mail_Server_1_ ua="na"></Voice_Mail_Server_1_> <Voice_Mail_Subscribe_Interval_1_ ua="na">3600</Voice_Mail_Subscribe_Interval_1_>	Optional: This setting within the Subscriber level configuration allows for Solicited Voicemail Updates.
Step 7	Configure PTT/Intercom Extensions. **Web:** Ext Tab->Call Feature Settings Auto Ans Page On Active Call: no **XML:** <Auto_Ans_Page_On_Active_Call_N_ ua="na">Yes</Auto_Ans_Page_On_Active_Call_N_> Example : <Auto_Ans_Page_On_Active_Call_1_ ua="na">Yes</Auto_Ans_Page_On_Active_Call_1_>	Optional: Applicable to Extension/Lines configured with the BroadWorks PTT feature with Auto Answer = yes. Subsequent call attempts to that extension will be treated as a call waiting scenario. Note that the N=1-16 depends on the phone's supported number of lines.

4.4 SIP Advanced Feature Configuration

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

4.4.1 Shared Call Appearance Configuration

The Shared Call Appearance (SCA) feature allows the administrator to add multiple locations to a given line. Any of the locations can be used to originate or receive calls.

When a call comes into an idle line, all the provisioned locations for that line are alerted. The first location to answer the call is connected to the originator. If the line is already active in a call, only the active location is alerted.

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

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>).

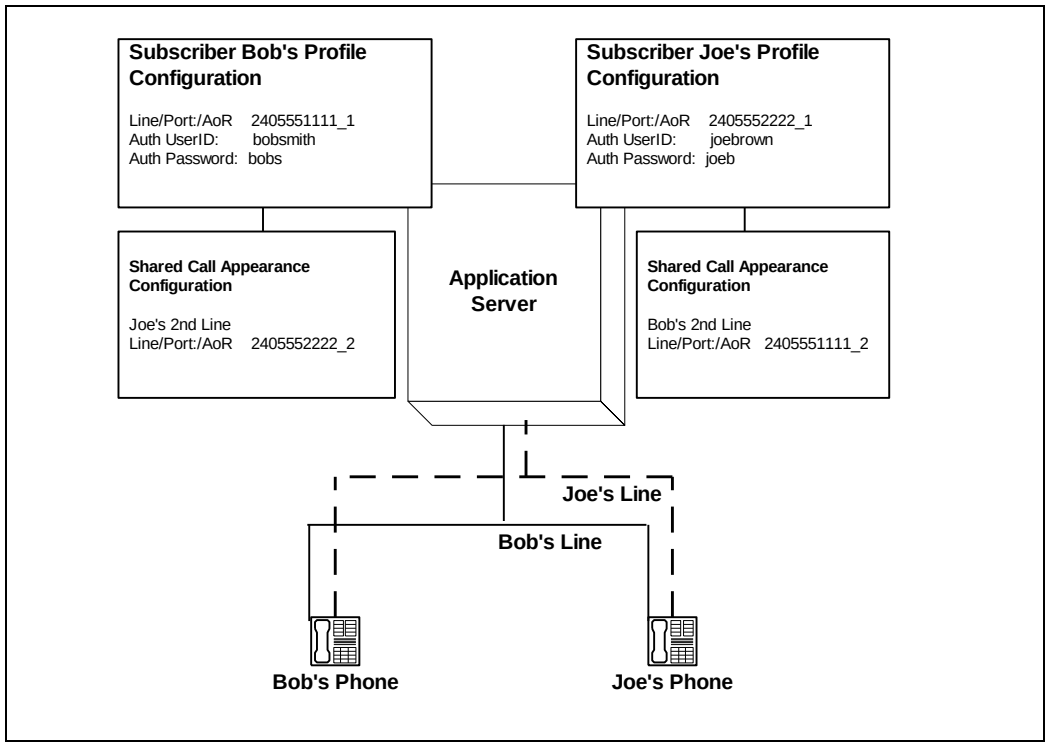


Figure 2 Shared Call Appearance Configuration

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 – <mac-address_CiscoDev.xml>

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
Configuration File <mac-address>_CiscoDev.xml		
Step 1	Configure line 1 as shared. **Web:** Example: Phone Tab: *"Line Key 1"* Share Call Appearance = "shared" Ext 1: *"Share Line Appearance"* Share Ext = "Yes" **XML:** Example: *<Share_Call_Appearance_1_ ua="na">shared</Share_Call_Appearance_1_>* <Share_Ext_1_ ua="na">Yes Share_Ext_1_>	Configures the line as "shared" (as opposed to "private").
Step 2	Set Register User ID. **Web:** Example: Ext 1 Tab: User ID = "2405551111_1" **XML:** Example: <User_ID_1_ ua="na">2405551111_1 </User_ID_1_>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	Enable SIP Authentication. **Web:** Example: Ext 1 Tab: Auth_ID = "bobsmith" Password = "bobs" **XML:** Example: < Auth_ID_1_ ua="na">bobsmith </ Auth_ID_1_> <Password_1_ ua="na">bobs </Password_1_>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.
Step 4	Configure display name. **Web:** Example: Ext 1 Tab: Display Name = "Bob Smith" **XML:** Example: <Display_Name_1_ ua="na">Bob Smith </Display_Name_1_>	Configure the name to be displayed on the device for this line.

Step	Command	Purpose
Configuration File <mac-address>_CiscoDev.xml		
Step 5	Enable Call Park. **Web:** Example: Phone Tab: Extension 2: Disabled Extended Function 2: fnc=prk;sub=4085282222a@$PROXY;nme=Park;orbit=4085282222 **XML:** Example: Extension_2_>Disabled</Extension_3> Extended_Function_2_> fnc=prk;sub=4085282222a@$PROXY;nme=Park;orbit=4085282222</Extended_Function_2_>	Optional: Enable Call Park via unused Programmable Line Key.

On the phone, validate the data so the values match. Go to *Voice → Phone Tab → Line Key2*.

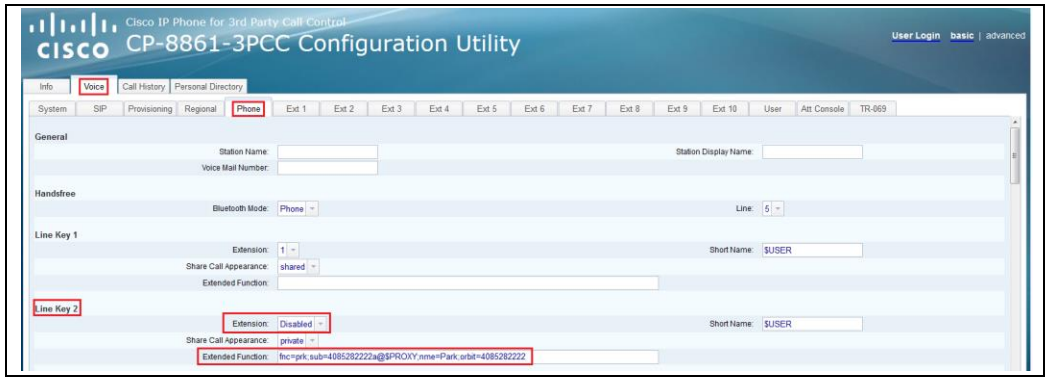


Figure 3 Shared Line Park

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 line 2 as shared. **Web:** Example: Phone Tab: "Line Key 2" Share Call Appearance = "shared" Ext 2: "Share Line Appearance" Share Ext = "Yes" **XML:** Example: *<Share_Call_Appearance_2_ ua="na">shared</Share_Call_Appearance_2_>* <Share_Ext_2_ ua="na">Yes Share_Ext_2_>	Configures the line as "shared" (as opposed to "private").
Step 2	Set Register User ID. **Web:** Example: Ext 2 Tab: User ID = "2405551111_2" **XML:** Example: <User_ID_2_ ua="na">2405551111_2 </User_ID_2_>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	Enable SIP Authentication. **Web:** Example: Ext 1 Tab: Auth_ID = "joebrown" Password = "joeb" **XML:** Example: <Auth_ID_1_ ua="na">joebrown </Auth_ID_1_> <Password_1_ ua="na">joeb </Password_1_>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Joe is called, and it has Joe's authentication information.
Step 4	Configure display name. **Web:** Example: Ext 1 Tab: Display Name = "Joe Brown" **XML:** Example: <Display_Name_1_ ua="na">Joe Brown</Display_Name_1_>	Configures the name to be displayed on the device for this line.

Step	Command	Purpose
Step 5	Enable Call Park. **Web:** Example: Phone Tab: Extension 2: Disabled Extended Function 2: fnc=prk;sub=4085282222b@$PROXY;nme=Park;orbit=4085282222 **XML:** Example: Extension_2_>Disabled</Extension_2> Extended_Function_2_> fnc=prk;sub=4085282222b@$PROXY;nme=Park;orbit=4085282222 </Extended_Function_2_>	Optional: Enables Call Park via unused Programmable Line Key (PLK).

4.4.1.2 Joe's Phone Configuration – <mac-address_CiscoDev.xml>

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 line as shared. **Web:** Example: Phone Tab: "Line Key 1" Share Call Appearance = "shared" Ext 1: "Share Line Appearance" Share Ext = "Yes" **XML:** Example: <Share_Call_Appearance_1_ ua="na">shared</Share_Call_Appearance_1_> <Share_Ext_1_ ua="na">Yes Share_Ext_1_>	Configures the line as "shared" (as opposed to "private").
Step 2	Set Register User ID. **Web:** Example: Ext 1 Tab: User ID = "2405552222_1" **XML:** Example: <User_ID_1_ ua="na">2405552222_1</User_ID_1_>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication. **Web:** Example: Ext 1 Tab: Auth_ID = "joebrown" Password = "joeb" **XML:** Example: <Auth_ID_1_ ua="na">joebrown</Auth_ID_1_> <Password_1_ ua="na">joeb</Password_1_>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Joe is called, and it has Joe's authentication information.
Step 4	Configure display name. **Web:** Example: Ext 1 Tab: Display Name = "Joe Brown" **XML:** Example: <Display_Name_1_ ua="na">Joe Brown</Display_Name_1_>	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 line as shared. **Web:** Example: Phone Tab: "Line Key 2" Share Call Appearance = "shared" Ext 2: "Share Line Appearance" Share Ext = "Yes" **XML:** Example: <Share_Call_Appearance_2_ ua="na">shared</Share_Call_Appearance_2_> <Share_Ext_2_ ua="na">Yes</Share_Ext_2_>	Configure the line as "shared" (as opposed to "private").
Step 2	Set Register User ID. **Web:** Example: Ext 2 Tab: User ID = "2405552222_2" **XML:** Example: <User_ID_2_ ua="na">2405552222_2</User_ID_2_>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication. **Web:** Example: Ext 2 Tab: Auth_ID = "bobsmith" Password = "bobs" **XML:** Example: <Auth_ID_2_ ua="na">bobsmith </Auth_ID_2_> <Password_2_ ua="na">bobs </Password_2_>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.
Step 4	Configure display name. **Web:** Example: Ext 2 Tab: Display Name = "Bob Smith" **XML:** Example: <Display_Name_2_ ua="na">Bob Smith </Display_Name_2_>	Configures the name to be displayed on the device for this line.

4.4.2 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.

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

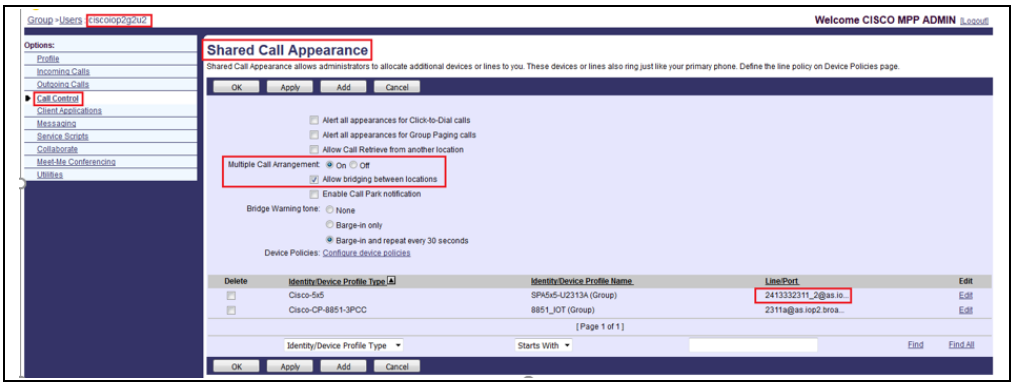


Figure 4 Shared Call Appearance (Multiple Call Arrangement)

Enable Hybrid Key System on phone.

Figure 5 Line Key Mapping

Enable Line ID mapping (Vertical/Horizontal) on phone.

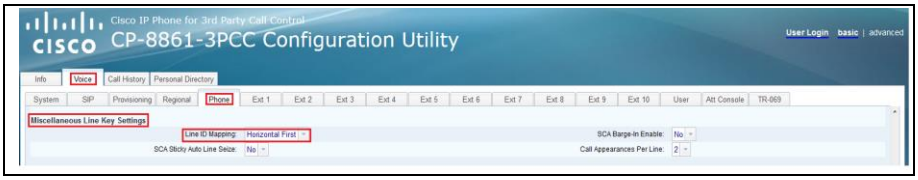


Figure 6 Line ID Mapping

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	Configure the phone to enable line keys and associate them with the registering line. 1) Web Portal -> Phone Tab Line Key 1: Extension: 1 Share Call Appearance: Shared Line Key 2: Extension: 1 Share Call Appearance: Shared 2) XML <Extension_1_ ua="na">%PLK-1%</Extension_1_> <Share_Call_Appearance_1_ ua="na">%BWSHAREDLINE-1%</Share_Call_Appearance_1_> <Extension_2_ ua="na">%PLK-2%</Extension_2_>	Hybrid Key System maps the registered line to the other available lines on the phone.

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
	<Share_Call_Appearance_2_ ua="na">%BWSHAREDLINE-2%</Share_Call_Appearance_2_ **Example:** <Extension_1_ ua="na">1</Extension_1_> <Share_Call_Appearance_1_ ua="na">shared</Share_Call_Appearance_1_> <Extension_2_ ua="na">1</Extension_2_> <Share_Call_Appearance_2_ ua="na">shared</Share_Call_Appearance_2_>	
Step 2	Configure phone for Line ID mapping. Web Portal Voice -> Phone Tab Line ID Mapping: Vertical	Phone behavior for incoming calls. Vertical: First incoming call on first line key and second incoming call on second line key. Horizontal: Incoming calls will display on line key 1 until it reaches call appearance.

4.4.3 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 in the following table.

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	Set the BLF List URI for the primary line. **Example:** 1) Web Portal -> Att Console Tab BLF List URI: CiscoBLFList@as.iop1.broadworks.net 2) XML <BLF_List_URI ua="na">%BWBLF-URI-1%</BLF_List_URI> <BLF_List_URI ua="na>CiscoBLFList@as.iop1.broadworks.net</BLF_List_URI>	The BLF List URI must be configured to match the Cisco BroadWorks User settings.

On the Cisco BroadWorks server, configure as follows:

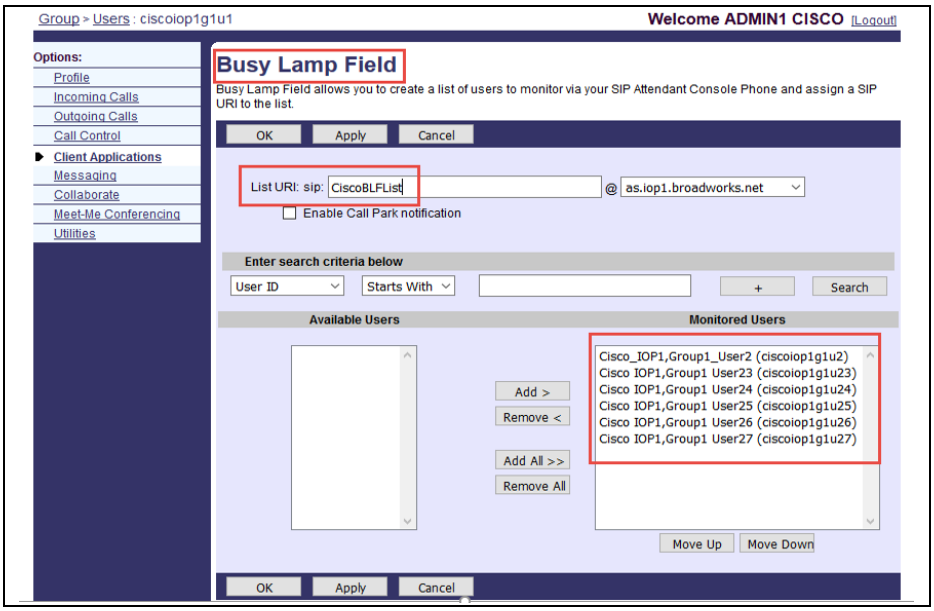


Figure 7 Busy Lamp Field Configuration – Server

Step	Command	Purpose
Step 2	Set the BLF Call Pickup Codes. **Example:** 1) Web Portal -> Att Console Tab Call Pickup: *97 2) XML <Call_Pickup_Code_ ua="rw">%BWFAC-CALL-PICKUP- x%</Call_Pickup_Code_> Example) <Call_Pickup_Code_ ua="rw>*97</Call_Pickup_Code_>	The BLF List URI must be configured to match the Cisco BroadWorks User settings.

On the phone, validate that the data values match. Go to *Voice* → *Attendant Console*.

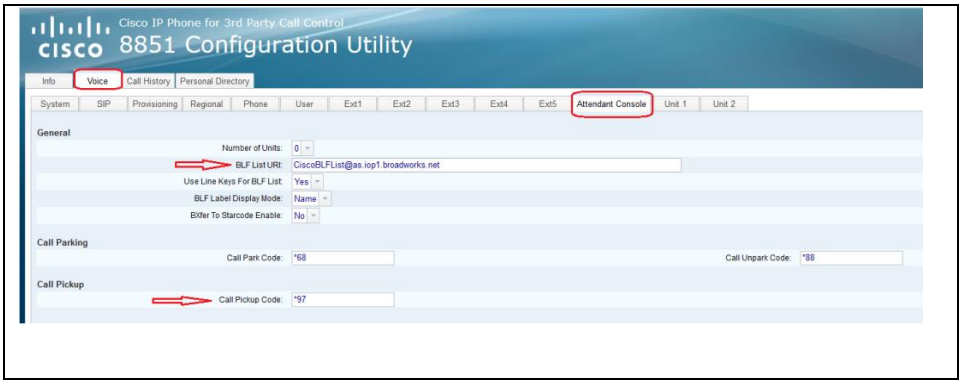


Figure 8 Busy Lamp Field Configuration – Device

4.4.4 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 shown in the following table.

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	Configure Feature Key Sync. **Web:** Example: Ext X:->Call Feature Settings Feature Key Sync: Yes **XML:** Example: <Feature_Sync_1_ ua="na">Yes</Feature_Sync_1_>	Enable each line on the MPP Series in use.

4.4.5 Call Center Feature Configuration

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

1) Browse to the *Call Centers* configuration page.

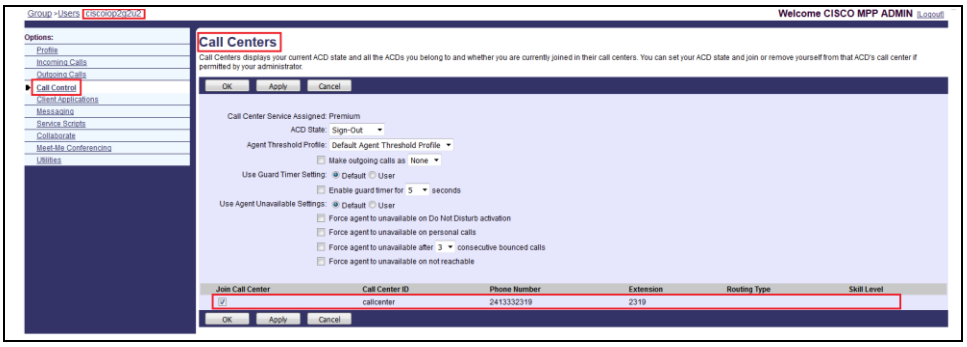


Figure 9 Call Control → Call Center Page

2) Enable the Call Center feature on the phone. Then go to *Voice → Ext Tab → ACD Settings*.

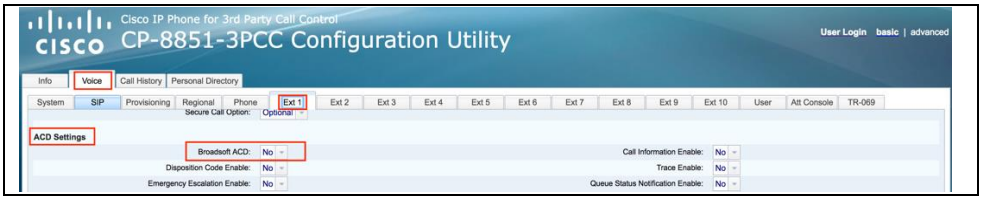
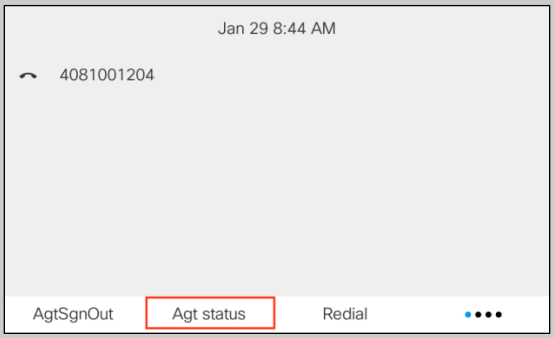
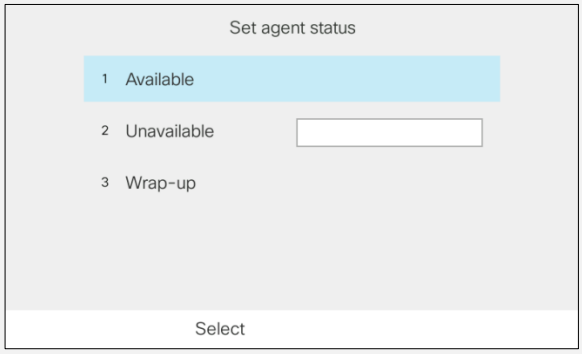
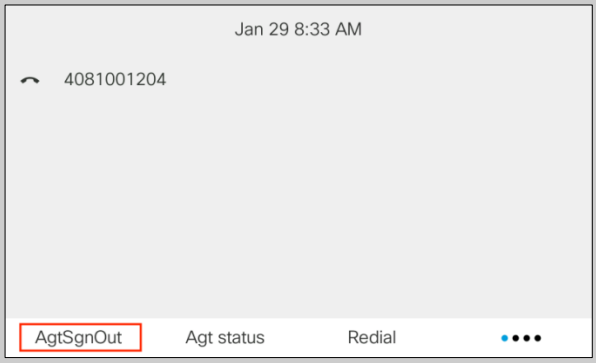


Figure 10 Cisco MPP Series BroadSoft ACD

3) To configure the Call Center features, use the list in the following table.

Step	Command	Purpose
Step 1	Agent Sign-in. 	Signing in Agent.

Step	Command	Purpose
Step 2	Set the Agent status after Agent Sign-in. 	Sets the status of Agent after signing in.
Step 3	Set Agent to Available/Unavailable/Wrap-up status. 	Sets the Agent Status to Available or Unavailable or Wrap-up.
Step 4	Agent Sign-out. 	Signs out Agent from phone.

Configuration of Call Center on phone

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		

Step 1	Enable BroadSoft ACD on phone.
	
	Web:
	Example:
	`Voice -> Ext Tab -> ACD Settings`
	
	`BroadSoft ACD:  Yes`
	
	XML:
	`<Broadsoft_ACD_1_ ua="na">%BROADSOFT_ACD_ENABLE-1%</Broadsoft_ACD_1_>`
	
	Example:
	`<Broadsoft_ACD_1_ ua="na">Yes</Broadsoft_ACD_1_>`
		Enables BroadSoft_ACD on the phone. LCD shows the Agent Sign-in softkey.

4.4.5.1 ACD Status Synchronization

This section provides information on how to enable a phone to restore the ACD status to the last value that is used before the reboot of the phone.

To configure the ACD Status Sync from the web user interface, see the following figure.

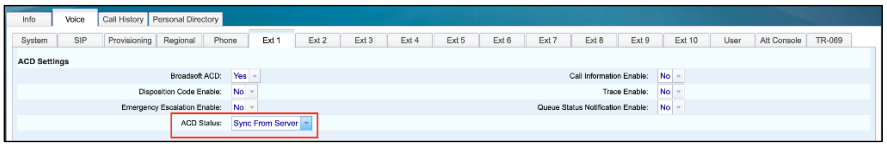


Figure 11 ACD Status on Web User Interface

Step	Command	Purpose
System Configuration File _<CiscoDev_System.xml>		
Step 1	**Web Portal:** Voice → Ext(n)→ ACD Settings. BroadSoft ACD: No **XML:** <Broadsoft_ACD_n_ ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n_> Where n=1-16 **Note:** %BROADSOFT_ACD_ENABLE-n% has two options, Yes|No **Example:** <Broadsoft_ACD_1_ ua="na">No</Broadsoft_ACD_1_>	Enables BroadSoft ACD on the phone. Options: Yes|No Default value: No
Step 2	**Web Portal:** Voice → Ext(n)→ ACD Settings. ACD Status: Sync From Local **XML:** <ACD_Status_n_ ua="na">%ACD_STATUS_n%</ACD_Status_n_> Where n=1-16 **Note:** %ACD_STATUS_n% has two options: Sync From Server | Sync From Local **Example:** <ACD_Status_1_ ua="na">Sync From Local</ACD_Status_1_>	Allows the phone to use the last local value as the ACD status. Options: Sync From Server/Sync From Local **Sync From Server**: Enables to get ACD initial status from the server. **Sync From Local**: Restores the last local status as ACD status when the phone boots up, status is changed to "Registered" from "Unregistered" or "Registration failed", or registration destination IP address is changed due to failover, fallback or DNS response is changed. Default value: Sync From Server

To use the feature:

1) On the web user interface, go to *Voice → Ext(n) → ACD Settings* and set BroadSoft ACD to "Yes" and ACD Status to "Sync From Local".

2) Make sure the current status of the phone is "Available".

   The following figure shows the current status of the phone when available.

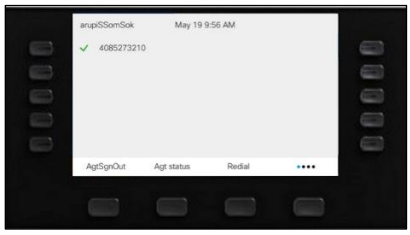


Figure 12 Phone ACD Status Available

3) Power down the phone.

4) On the Cisco BroadWorks server, browse to the *Call Center*s configuration page as follows and set *Call Centers ACD* State to “Unavailable”.

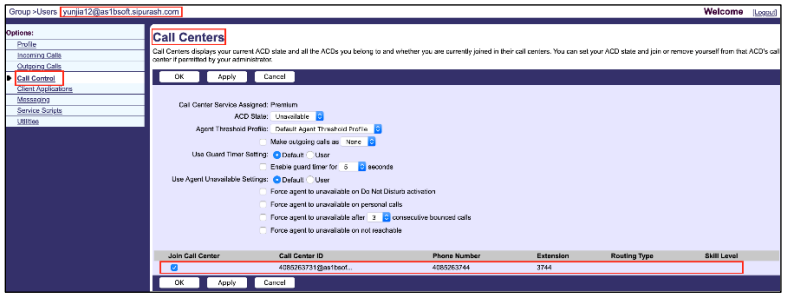


Figure 13 ACD Status to Unavailable

5) Power up the phone.

The phone uses the last local status as the ACD initial value.

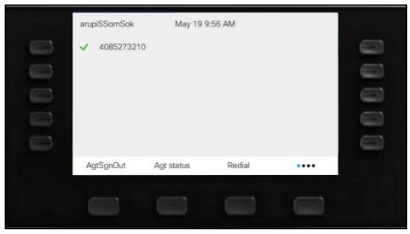


Figure 14 ACD Status (Last Local Status)

4.4.5.2 ACD Status Set Automatically to Available

This section provides information on how to automatically set the ACD status to “Available” after the phone signs in.

To configure the ACD status and set to “Available” from the web user interface, see the following figure.

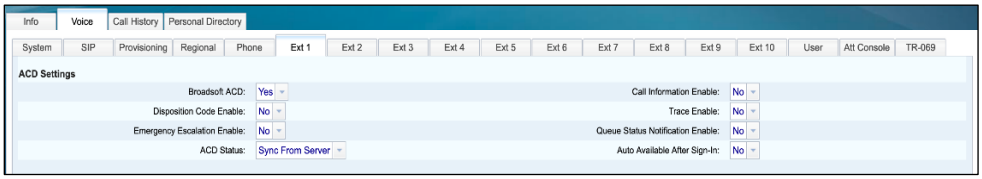


Figure 15 Set Auto Available After Sign-in

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	**Web Portal:** Voice → Ext(n)→ ACD Settings. BroadSoft ACD: No **XML:** <Broadsoft_ACD_n_ ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n> Where n=1-16 **Note:** %BROADSOFT_ACD_ENABLE-n% has two options, Yes|No **Example:** <Broadsoft_ACD_1_ ua="na">No</Broadsoft_ACD_1_>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	**Web Portal:** Voice → Ext(n)→ ACD Settings. **Auto Available After Sign-in: Yes** **XML:** <Auto_Available_After_Sign-In_n_ ua="na">%AUTO_AVAILABLE_AFTER_SIGN-IN_n%</Auto_Available_After_Sign-In_n_> Where n=1-16 **Note:** %%AUTO_AVAILABLE_AFTER_SIGN-IN_n%% has two options: Yes|No **Example:** <Auto_Available_After_Sign-In_1_ ua="na">Yes</Auto_Available_After_Sign-In_1_>	Allows the phone to set the ACD status to Available automatically, after sign-in. Options: Yes/No **Yes**: After sign-in, phone ACD status will be automatically set to available. **No**: Phone retains the old behavior. Default value: No

Usage of the Feature:

1) On the web user interface, go to *Voice → Ext (n) → ACD Settings* and set *BroadSoft ACD* to "Yes" and *Auto Available After Sign-in* to "Yes".

2) On the Cisco BroadWorks server, browse to the Call Centers configuration page and set *ACD State* to "Sign-out".

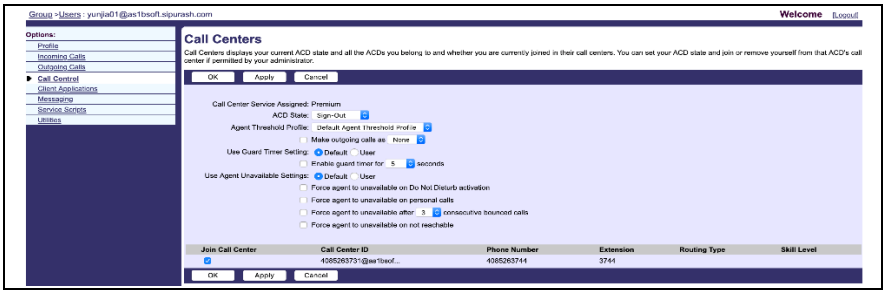


Figure 16 ACD State to Sign-Out

3) On the phone, press the **AgtSignIn** softkey. The ACD status is set to available.

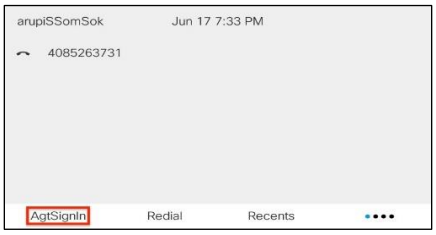


Figure 17 ACD Status (Before AgtSignin Press)

Figure 18 ACD Status (On AgtSignin Press)

The following figure shows that the ACD State value on the Cisco BroadWorks server updates to “Available”.

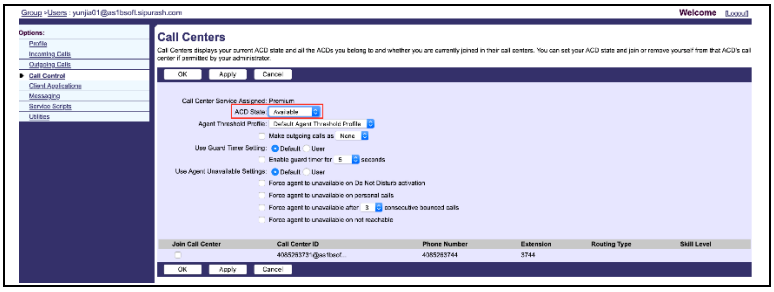


Figure 19 ACD State Updates to Available

4.4.6 Hoteling Feature Configuration

Cisco BroadWorks provides the capability to synchronize the hoteling guest user address between the phone and Cisco BroadWorks. This enables the phone to display hoteling guest identity on the phone as well as provides the signaling basis for the phone to allow a hoteling guest to log in via the phone interface.

1) Browse to the *Hoteling Guest* page.

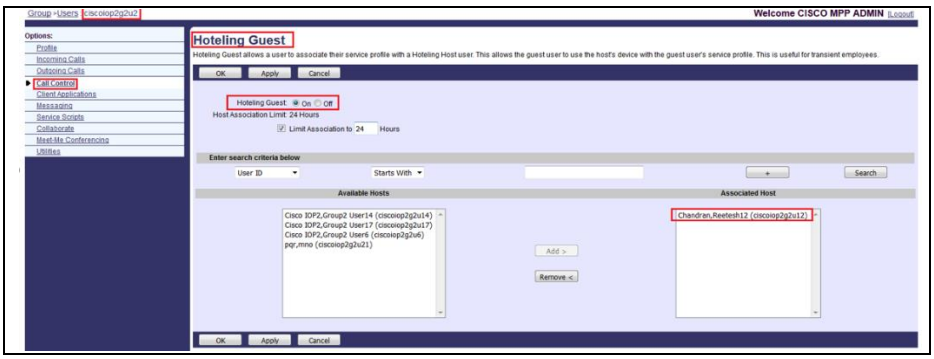


Figure 20 Call Control → Hoteling Guest

Enable Hoteling on phone.

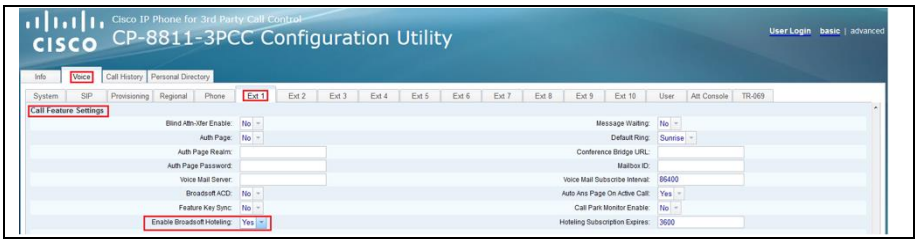
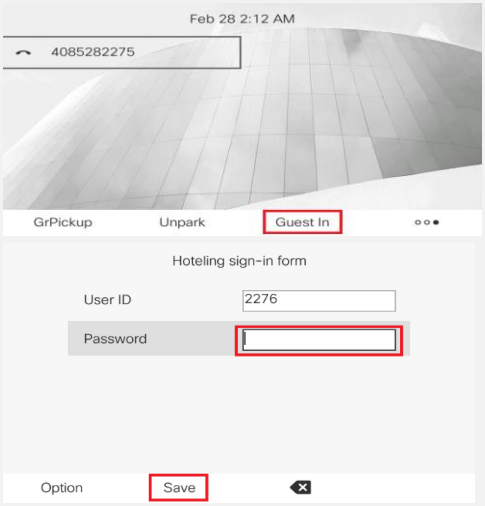
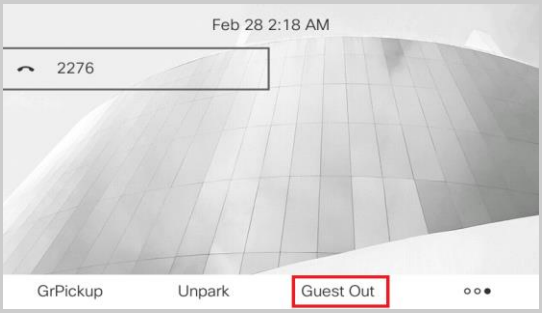


Figure 21 Cisco MPP Series BroadSoft Hoteling

2) To configure BroadSoft Hoteling feature.

Step	Command	Purpose
Step 1	Guest Sign-in. 	Sign in as a Guest. Using the guest extension and voice portal password.
Step 2	Guest Sign-out. 	Signing out the guest from Host phone.

Configuration of Hoteling feature on phone.

Step	Command	Description
Configuration File <mac-address>_CiscoDev.xml		

Step 1	Enable BroadSoft Hoteling on phone.
	
	Web:
	`Voice -> Ext Tab -> call feature Settings`
	
	`Enable BroadSoft Hoteling: Yes`
	
	XML:
	
	`<Enable_Broadsoft_Hoteling_1_ ua="na">%BROADSOFT_HOTELING_ENABLE-1%</Enable_Broadsoft_Hoteling_1_>`
	
	Example:
	
	`<Enable_Broadsoft_Hoteling_1_ ua="na">Yes</Enable_Broadsoft_Hoteling_1_>`
		Enables BroadSoft Hoteling on the phone.
		LCD will show Guest-in softkey.

4.4.7 Call Park Feature Configuration

This section provides configuration instructions to configure the phone to enable integration with Cisco BroadWorks Call Park feature.

Enable Call Park service on phone (default value is “Yes”).

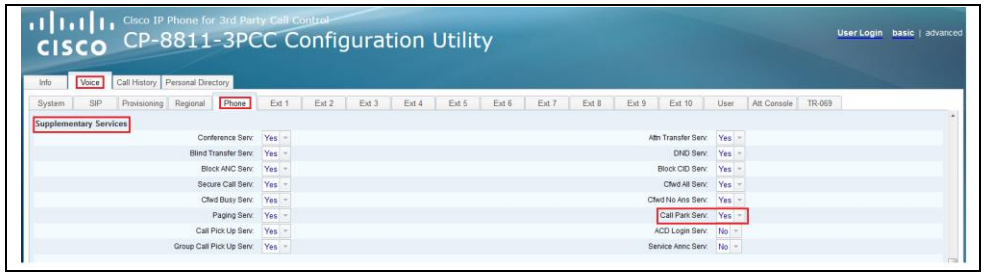


Figure 22 Cisco MPP Series Call Park Service

4.4.7.1 Configure Call Park Feature Access Code

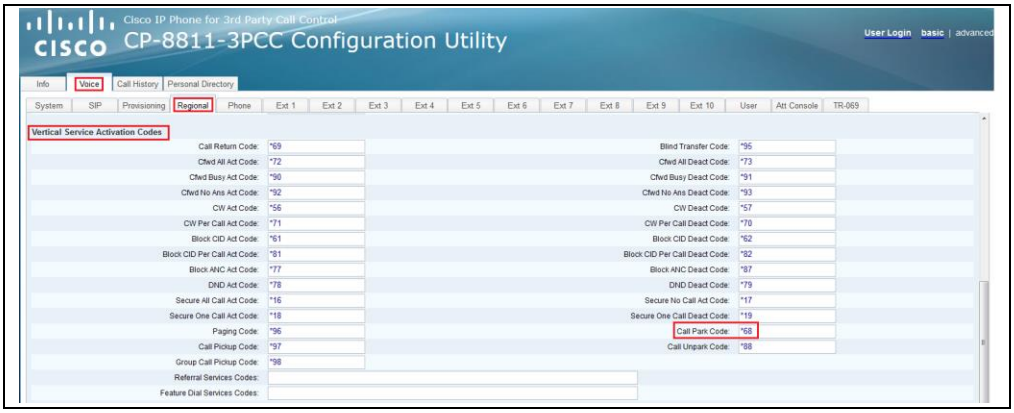


Figure 23 Cisco MPP Series Call Park Feature Access Code

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		

Step 1	Enable Call Park service:
	`Web Portal Voice → Phone Tab -> Supplementary Services`
	
	`Call Park Serv: Yes`
	
	XML
	
	`<Call_Park_Code_ ua="rw">%BWFAC-CALL-PARK-1%</Call_Park_Code_>`
	`<Call_Unpark_Code_ ua="rw">%BWFAC-CALL-PARK-RETRIEVE-1%</Call_Unpark_Code_>`
	
	Example:
	`<Call_Park_Code ua="na">*68</Call_Park_Code>`
	`<Call_Park_Serv ua="na">Yes</Call_Park_Serv>`
		Enables Call Park service.
		Default value: Yes.

4.4.7.2 Configure One-button Call Park

This section provides information on how to configure One-button Call Park feature that allows a user to park an active call to a specific extension by pressing a line key that monitors the extension. Users can retrieve a parked call from any phone or any extension. With One-button Call Park, there is no need to enter a combination of keystrokes for parking and unparking a call.

To unpark a call, users can do one of three things:

- Press the monitored extension **PLK** that displays the parked call.
- Press the extension line key, then press the monitored extension **PLK** that displays the parked call.

- Use the navigation button to focus on the extension line key, then press the monitored extension PLK that displays the parked call.

To configure One-button Call Park on the Cisco BroadWorks server, see the following figure.

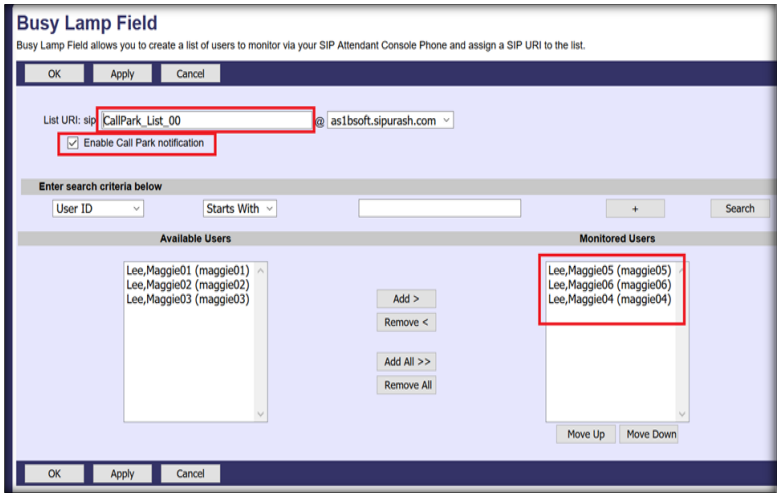


Figure 24 One-button Call Park

1) Log in with a group account and access *User → Client Applications → Busy Lamp Field*.
2) Configure the *BLF List URI*.
3) Select the *Enable Call Park notification* to enable Call Park notification on the Cisco BroadWorks server.

To configure the One-button Call Park from the web user interface, see the following figure.

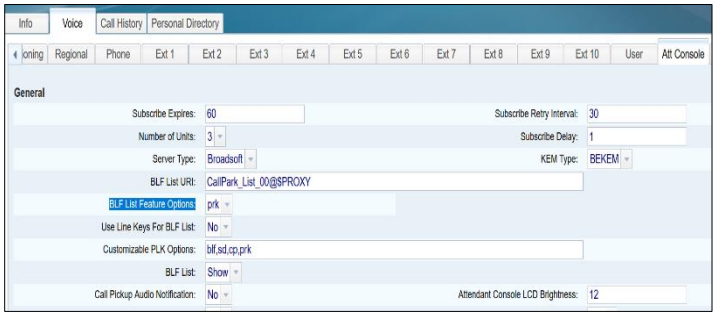


Figure 25 One-button Call Park from Web

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Configure One-button Call Park: Web Portal **Voice → Att Console** **BLF List URI:** enter uri name@server **Note:** The BLF List URI field must have the same value as that configured for the List URI:sip parameter on the Cisco server. **BLF List Feature Options: prk** **XML** <BLF_List_Feature_Options ua="na">%BLF_LIST_FEATURE_OPTIONS%</BLF_List_Feature_Options> **Note:** %BLF_LIST_FEATURE_OPTIONS% have two types: prk and blf+sd+cp **Example:** < BLF_List_Feature_Options ua="na">prk</ BLF_List_Feature_Options>	Allows user a one-button stroke for parking and unparking a call. Options: prk and blf+sd+cp Default value: blf+sd+cp If set to "blf+sd+cp", the *BLF List URI* auto assigned line key supports BLF, speed dial, and call pickup. If set to "prk", the *BLF List URI* auto assigned line key only supports Call Park or unpark.

4.4.8 Accessibility with Voice Feedback Configuration

NOTE: Only Cisco IP Phone 8800 Series Multiplatform Phones support this feature. The Cisco IP Phone 8832 Multiplatform Phone does not support this feature.

This section provides configuration instructions to configure voice feedback on Cisco IP Phone 8800 Series Multiplatform Phones. Voice feedback helps people who have trouble seeing use their Cisco IP phone. When enabled, a voice prompt helps the user navigate phone buttons and use and configure phone features. The voice feedback also reads incoming caller IDs, displayed screens, settings, and button functions.

Figure 26 Configure Voice Feedback

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	Enable Voice Feedback: **Web Portal** Voice → User -> Voice Feedback (English Only) Voice Feedback Enable: Yes Voice Feedback Speed: Slowest/Slower/Normal/Faster/Fastest Key Again Reset Time: 100-2000 Key Double Press Time: 100-2000 Key Triple Press Time: 100-2000 Voice Feedback Volume: Lowest/Low/Normal/High/Highest **XML** <Voice_Feedback_Enable ua="na">%Voice_Feedback_Enable%</Voice_Feedback_Enable> <Voice_Feedback_Speed ua="na">Normal</Voice_Feedback_Speed><!--available options: Slowest|Slower|Normal|Faster|Fastest --> <Key_Again_Reset_Time ua="na">800</Key_Again_Reset_Time> <Key_Double_Press_Time ua="na">200</Key_Double_Press_Time> <Key_Triple_Press_Time ua="na">400</Key_Triple_Press_Time> <Voice_Feedback_Volume ua="na">Normal</Voice_Feedback_Volume> <!-- available options: Lowest|Low|Normal|High|Highest --> **Example:** <Voice_Feedback_Enable ua="na">Yes</Voice_Feedback_Enable> <Voice_Feedback_Speed ua="na">Normal</Voice_Feedback_Speed><!--available options: Slowest|Slower|Normal|Faster|Fastest --> <Key_Again_Reset_Time ua="na">800</Key_Again_Reset_Time> <Key_Double_Press_Time ua="na">200</Key_Double_Press_Time> <Key_Triple_Press_Time ua="na">400</Key_Triple_Press_Time> <Voice_Feedback_Volume ua="na">Normal</Voice_Feedback_Volume> <!-- available options: Lowest|Low|Normal|High|Highest -->	Enables accessibility with voice feedback. Default values are as follows: Voice Feedback: No Voice Feedback Speed: Normal Key Again Reset Time: 1200 Key Double Press Time: 600 Key Triple Press Time: 1000 Voice Feedback Volume: Normal

4.4.9 Call Recording Feature Configuration

This section provides configuration instructions to configure the phone to enable integration with Call Recording features including but not limited to Call Recording controls.

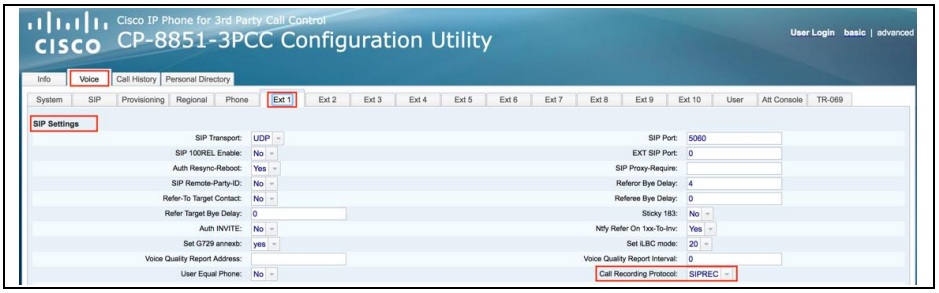


Figure 27 Cisco MPP Series Call Recording Protocol

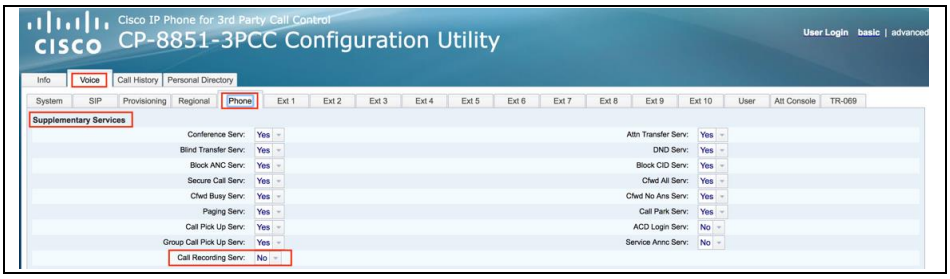


Figure 28 Cisco MPP Series Call Recording Serv

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		

Step 1	Enable Call Recording:
	`Web Portal Voice → Ext 1 -> SIP Settings`
	
	`Call Recording Protocol: SIPREC`
	
	`Web Portal Voice → Phone -> Supplementary Services`
	
	`Call Recording Serv: No`
	
	XML
	
	`<Call_Recording_Protocol_1_ ua="na">SIPREC</Call_Recording_Protocol_1_>`
	`<Call_Recording_Serv ua="na">No</Call_Recording_Serv>`
	
	Example:
	`<Call_Recording_Protocol_1_ ua="na">SIPREC</Call_Recording_Protocol_1_>`
	`<Call_Recording_Serv ua="na">No</Call_Recording_Serv>`
		Enable Call Recording.
		Default value: SIPREC
		Default value: No
		To enable: Yes

4.4.10 Executive/Executive-Assistant Feature

> **NOTE**: Feature is supported by MPP 88x1, 8845, 8865, and 6871 models only.

This section provides configuration instructions for configuration of Executive/Executive-Assistant feature supported by the MPP Series phone.

This feature enables an assistant device to:

- Receive executive calls
- Initiate/push calls for executives
- Divert executive calls

Executive device can Retrieve/Bridge-In into calls received/placed by assistant on filtered line. Call Filtering should be enabled on the line for this feature to work. Call Filtering can be enabled/disabled either from Cisco BroadWorks portal or device LCD user interface (UI). Executive can enable/disable call screening from Cisco BroadWorks portal.

Cisco BroadWorks configuration for the feature

1) Configure *Executive* service for the user.

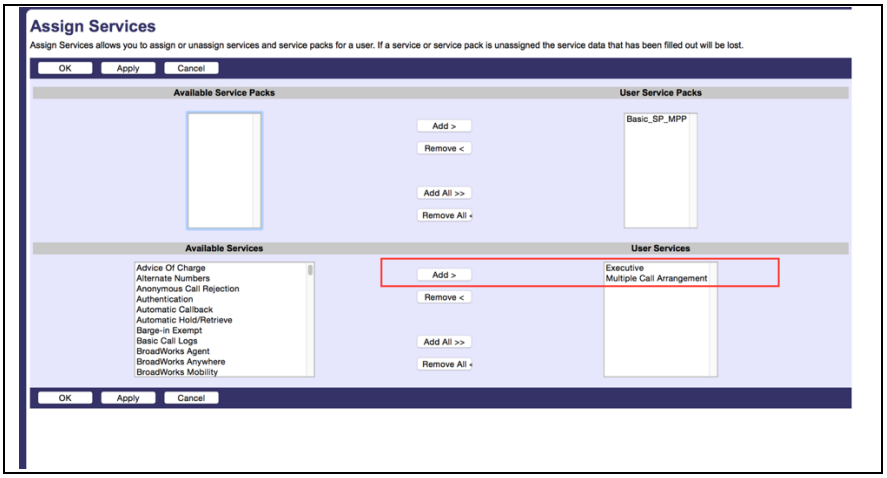


Figure 29 Cisco BroadWorks Executive Service

2) Configure Executive-Assistant service for the user.

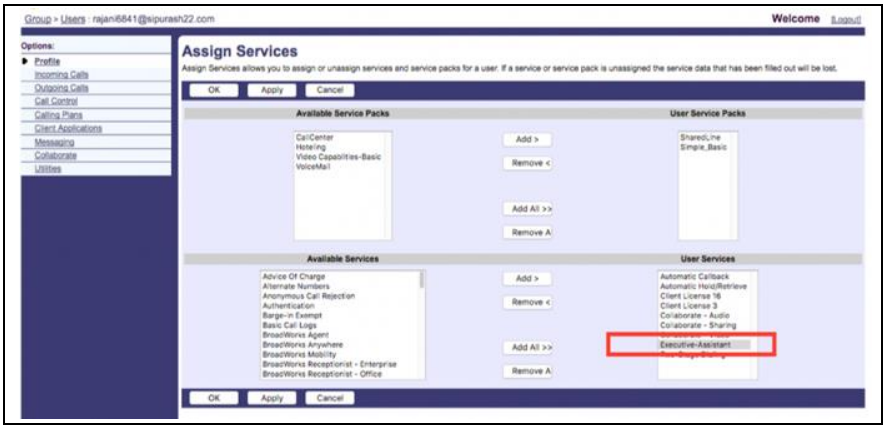


Figure 30 Cisco BroadWorks Executive-Assistant

3) Configure Assistant to an Executive.

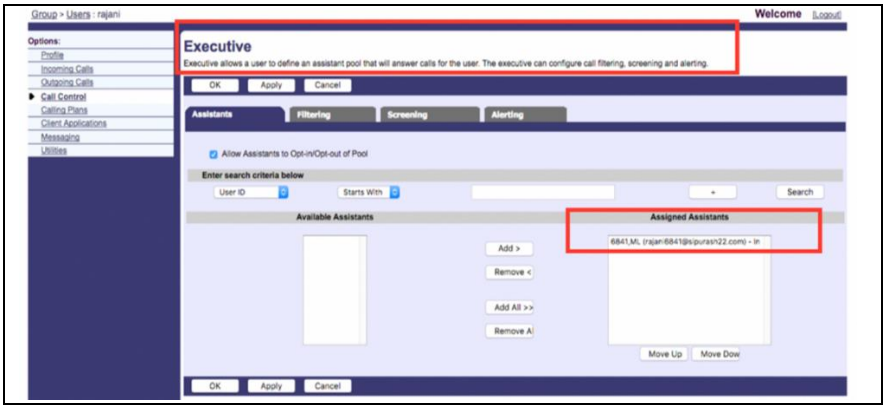


Figure 31 Cisco BroadWorks Exec Admin – Assign Assistant to Exec

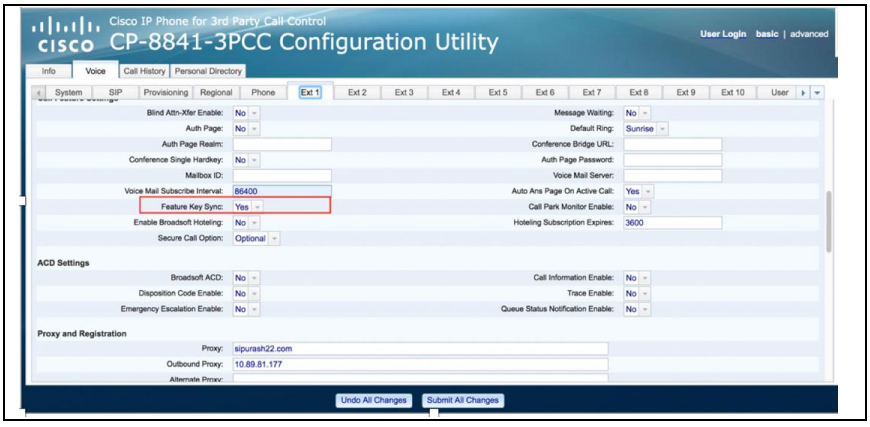


Figure 32 Exec Admin Feature Key Sync

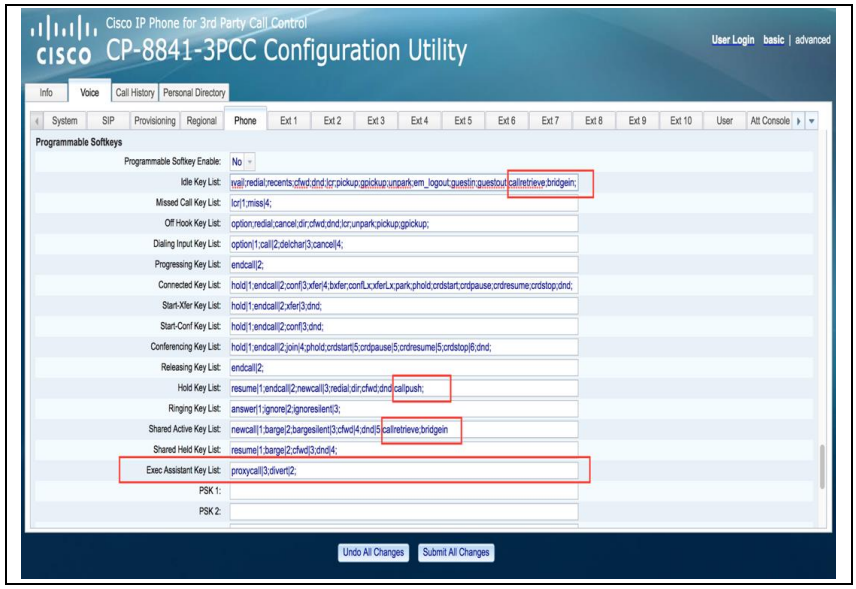


Figure 33 Exec Admin Programmable Softkeys

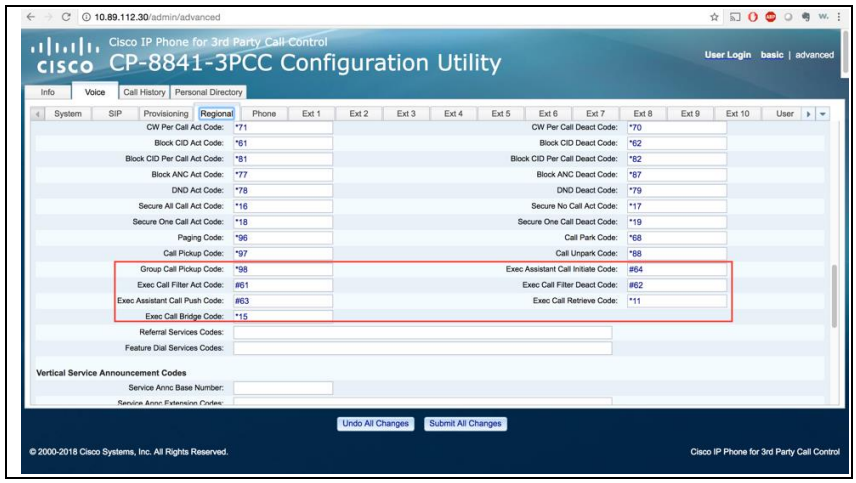


Figure 34 Exec Admin Feature Access Code

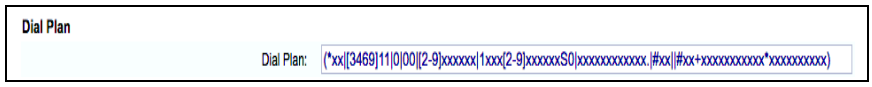


Figure 35 Exec Admin Dial Plan

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		

Step 1	Enable Feature Key Sync.
	`Web Portal Voice → Ext 1 -> Call Feature Settings`
	`Feature Key Sync: Yes`
	`Example:`
	`<Feature_Key_Sync_1_ ua="na">Yes</Feature_Key_Sync_1_>`
		Enable Feature Key Sync.
		Default value: No
		To enable: Yes

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
	For PLK setup Voice→Phone→ Line Key <#> → Extended Function Syntax for PLK - "fnc=bw-exec-assist" **Programmable softkeys config** Voice->Phone->Programmable Softkeys Check Figure 21 Programmable Softkeys **Feature Access code** Voice->Regional Check Figure 22 Feature Access Code **Update the dial plan** Check Figure 23 Dial Plan **XML** <Exec_Assistant_Call_Initiate_Code ua="na">%Exec_Assistant_Call_Initiate_Code%</Exec_Assistant_Call_Initiate_Code> <Exec_Call_Filter_Act_Code ua="na">%Exec_Call_Filter_Act_Code%</Exec_Call_Filter_Act_Code> <Exec_Call_Filter_Deact_Code ua="na">%Exec_Call_Filter_Deact_Code%</Exec_Call_Filter_Deact_Code> <Exec_Assistant_Call_Push_Code ua="na">%Exec Assistant Call Push Code%</Exec_Assistant_Call_Push_Code> <Exec_Call_Retrieve_Code ua="na">%Exec_Call_Retrieve_Code%</Exec_Call_Retrieve_Code> <Exec_Call_Bridge_Code ua="na">%Exec_Call_Bridge_Code%</Exec_Call_Bridge_Code> <Exec_Assistant_Key_List ua="na">%Exec_Assistant_Key_List%</Exec_Assistant_Key_List> **Example:** <Exec_Assistant_Call_Initiate_Code ua="na">#64</Exec_Assistant_Call_Initiate_Code> <Exec_Call_Filter_Act_Code ua="na">#61</Exec_Call_Filter_Act_Code> <Exec_Call_Filter_Deact_Code ua="na">#62</Exec_Call_Filter_Deact_Code> <Exec_Assistant_Call_Push_Code ua="na">#63</Exec_Assistant_Call_Push_Code> <Exec_Call_Retrieve_Code ua="na">*11</Exec_Call_Retrieve_Code> <Exec_Call_Bridge_Code ua="na">*15</Exec_Call_Bridge_Code>	

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
	<Exec_Assistant_Key_List ua="na">proxycall|2;divert|3;</Exec_Assistant_Key_List>	

4.4.10.1 Assistant Call Filter

You can show or hide the Call filter menu item on the phone for the users of the assistant role using the *Assistant Call Filter* menu.

To configure the Assistant Call Filter from the web user interface:

1) Enable Feature Key Sync:

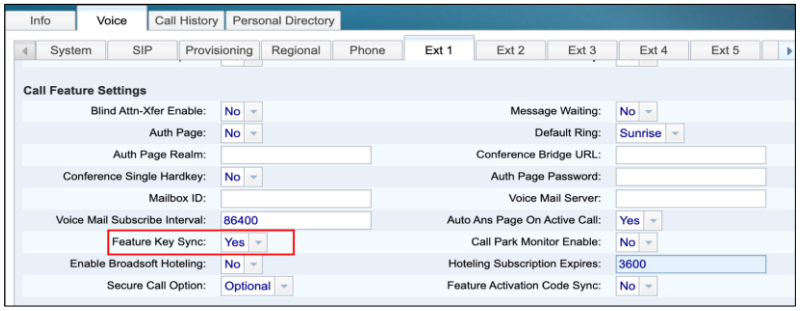


Figure 36 Feature Key Sync Enabling

2) Synchronize XSI host server.

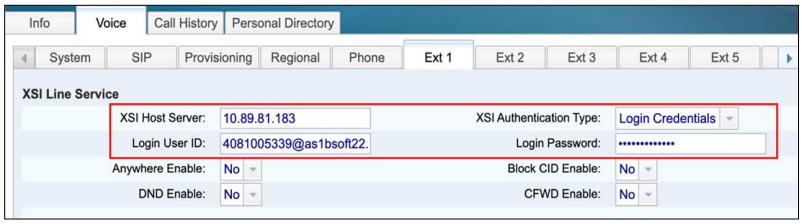


Figure 37 XSI Host Server Synchronization

3) Control Executive-Assistant menu and enable Assistant Call Filter menu.

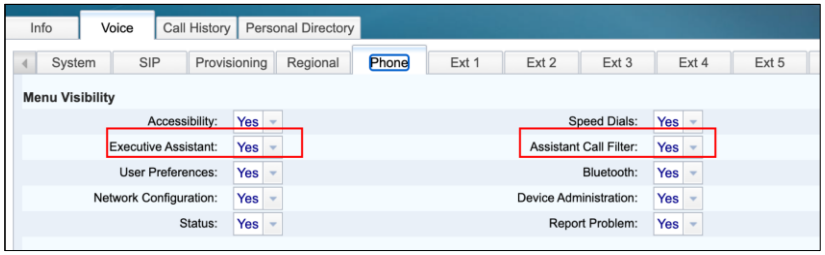


Figure 38 Assistant Call Filter

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		

Step 1	*Web Portal Voice → Ext(n) → Call Feature Settings*
	`Feature Key Sync: Yes`
	`XML:`
	`Example:`
	`<Feature_Key_Sync_1_ ua="na">Yes</Feature_Key_Sync_1_>`
		Enables feature key sync.
		Options: Yes and No
		Default value: No

Step 2	Set *XSI Host Server, XSI Authentication Type, Login User ID, Login Password* parameters to configure the XSI host server for the line. For more information, see *Figure 50 XSI Host Server Synchronization*.	

Step 3	*Web Portal Voice → Phone → Menu Visibility*
	`Executive Assistant: No`
	`Assistant Call Filter: No`
	`XML`
	`<Assistant_Call_Filter ua="na">Yes</Assistant_Call_Filter>`
		Controls Assistant – Call filter menu in Assistant menu on the phone.
		Executive Assistant
		Options:
		Yes: Show the Executive-Assistant menu in Setting menu list.
		No: Hide the Executive-Assistant menu in Setting menu list.
		Assistant Call Filter
		Options:
		Yes: Show the Assistant - Call Filter menu in Assistant menu.
		No: Hide the Assistant - Call Filter menu in Assistant menu.
		Default value: Yes

To configure the feature for an executive from Cisco BroadWorks, see the following.

1) Assign executive service to a user. Select a User and navigate to *Profile → Assign Services* as described in *Figure 39*.

Figure 39 Assign Executive Service

2) Configure a list of assistants for an executive and assign the permission.

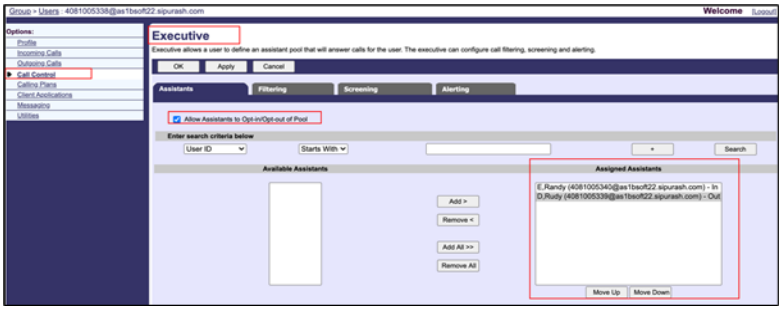


Figure 40 Assistants to an Executive

3) Configure call filtering.

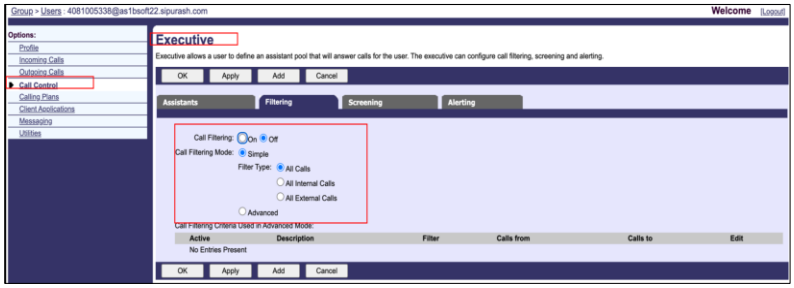


Figure 41 Configure Call Filtering

To configure the feature for an assistant level from Cisco BroadWorks, see the following.

4) Assign the executive – assistant service to a user.

Figure 42 Executive-assistant Service

5) Configure executive – assistant feature.

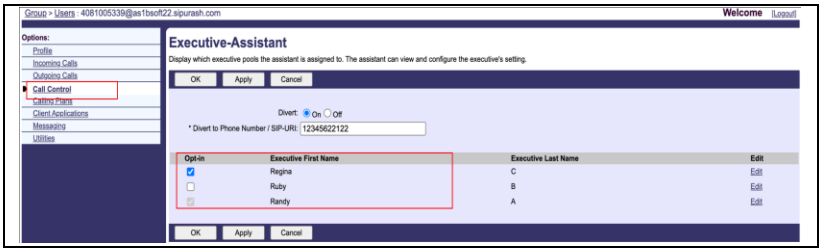


Figure 43 Executive-assistant Configuration

NOTE: The Opt-in box is non-editable when the executive does not allow assistant to opt-in or opt-out. Only list the executive which had select it as his assistant.

6) Change executive settings by assigning assistants. Select *Call Control → Executive Assistant*, then select an executive and select **Edit**.

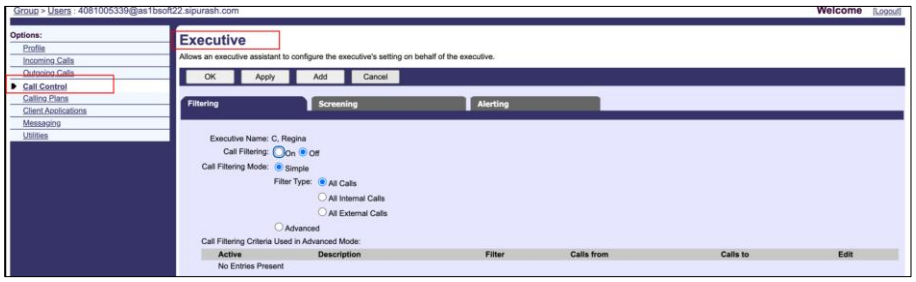


Figure 44 Executive Settings Modification

4.4.11 OPUS Codec Narrowband

To improve bandwidth in your network, you can set up your phones to use the narrowband OPUS codec. The narrowband codec does not conflict with the wideband codec.

To configure the OPUS codec narrowband support from the web user interface, see the following figure.

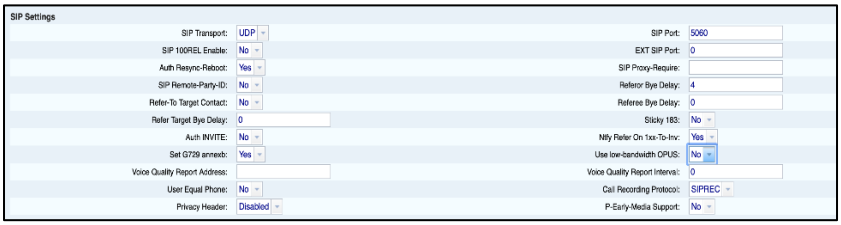


Figure 45 OPUS Codec Narrowband

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		

Step 1	*Web Portal Voice → Ext(n) → SIP Settings*
	`Use low-bandwidth OPUS: No`
	XML
	`<Use_low-bandwidth_OPUS_#_ ua="na">%USE_LOW_BANDWIDTH_OPUS_#%< /Use_low-bandwidth_OPUS_#_>`
	Note: `%USE_LOW_BANDWIDTH_OPUS_#% has two options: Yes and No.`
	Example:
	`<Use_low-bandwidth_OPUS_#_ ua="na">No</Use_low-bandwidth_OPUS_#_>`
		Used to select low-bandwidth OPUS for phone calls. It saves on network bandwidth.
		Options: Yes and No
		Default value: No

4.4.12 Enable SIP 110rel without Enabling Preconditions

You can enable the phone to control the precondition tag (defined in *RFC 3312*) in the Supported header field. This helps to work normal calls well.

To configure preconditions, feature from the web user interface, see the following figure.

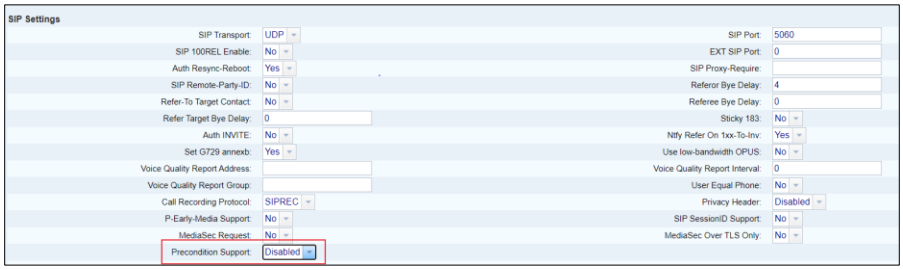


Figure 46 Preconditions Feature Configuration

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		

Step 1	Web Portal Voice → Ext(n) → SIP Settings
	`Precondition Support: Disabled`
	XML
	`<Precondition_Support_x_ ua="na">%PRECONDITION_SUPPORT_x%</Precondition_Support_x_>`
	`Where,x=extension line number from 1-16`
	Note: `%PRECONDITION_SUPPORT_x% has two options: Enabled and Disabled.`
	Example:
	`<Precondition_Support_x_ ua="na">Disabled</Precondition_Support_x_>`
		Determines whether the phone includes the precondition tag (defined in *RFC 3312*) in the Supported header field.
		Options:
		Disabled: Preconditions feature is disabled.
		Enabled: Phone will keep the legacy behavior.
		Default value: Disabled

4.4.13 Synchronization of Call Waiting and Anonymous Call Rejection Through XSI Service

You can enable synchronization of the Call Waiting and the Anonymous Call Rejection functions between a specific line and a Cisco BroadWorks server.

To enable Call Waiting and Anonymous Call Rejection on the Cisco BroadWorks server, see the following figures.

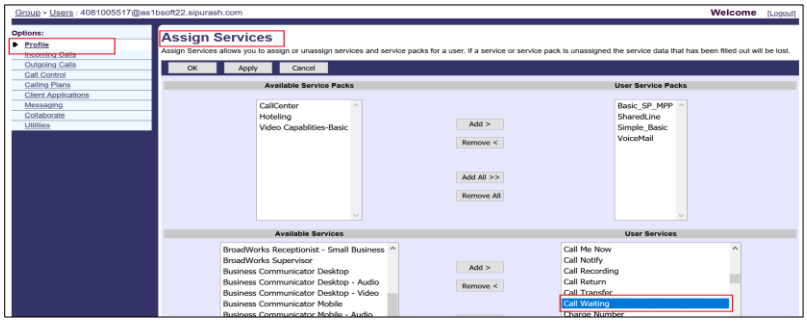


Figure 47 Call Waiting

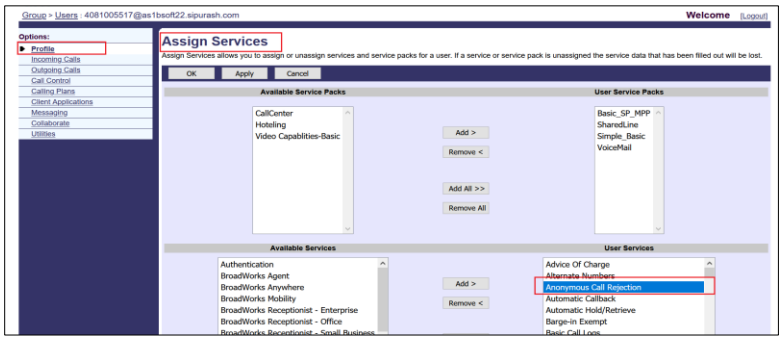


Figure 48 Anonymous Call Rejection

1) Log in with a group account and access User.
2) Select a user and navigate *Profile → Assign Services.*
3) In the Assign Services window, Select *Call Waiting* and *Anonymous Call Rejection* from the Available Services list and add to the User Services list.
4) Click **OK**.

To enable Call Waiting and Anonymous Call Rejection from the phone web interface, see the following figures.

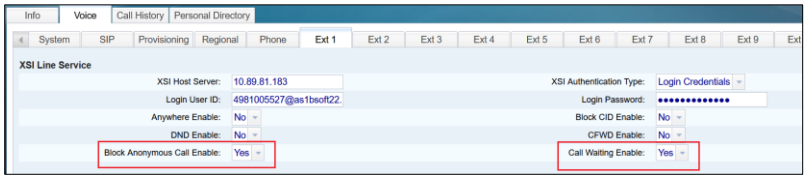


Figure 49 Anonymous Call Rejection and Call Waiting Enabling

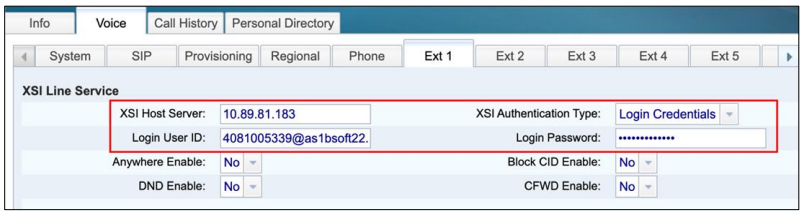


Figure 50 XSI Host Server Synchronization

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		

Step 1	*Web Portal Voice → Ext(n) → XSI Line Service*
	`Block Anonymous Call Enable: No`
	`Call Waiting Enable: No`
	XML
	`<Block_Anonymous_Call_Enable_n_ ua="na">%Block_Anonymous_Call_Enable_n%</Block_Anonymous_Call_Enable_n_>`
	`<Call_Waiting_Enable_n_ ua="na">%Call_Waiting_Enable_n%</Call_Waiting_Enable_n_>`
	`Where,n=extension line number from 1-16`
	Note:
	`%Block_Anonymous_Call_Enable_n%: Yes and No.`
	`%Call_Waiting_Enable_n%: Yes and No`
	Example:
	`<Block_Anonymous_Call_Enable_x_ ua="na">No</Block_Anonymous_Call_Enable_n_>`
	`<Call_Waiting_Enable_n_ ua="na">No</Call_Waiting_Enable_n_>`
		Block Anonymous Call Enable:
		Options:
		Yes/No
		When set to Yes, it enables synchronization of the block anonymous enable function for the line through the XSI service. Rejects calls from callers who have blocked the display of their number.
		Default value: No
		
		Call Waiting Enable:
		Options:
		Yes/No
		When set to Yes, it enables synchronization of the call waiting function for the line through the XSI service. Allows the user to receive incoming calls while on another call.
		Default value: No

Step 2	Set *XSI Host Server, XSI Authentication Type, Login User ID, Login Password* parameters to configure the XSI host server for the line. For more information, see *Figure 50.*	

4.4.14 Line Key LED Behavior Customization

You can customize line key LED behavior. You can choose one of the following options:

- Default
- Preset 1
- Custom

To customize the line key LED behavior from the web user interface, see the following figure.

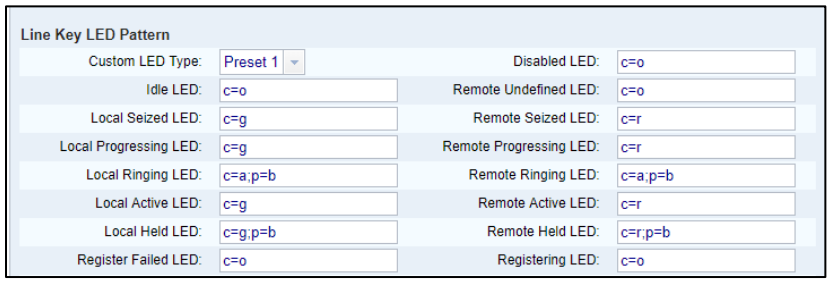


Figure 51 Line Key LED Behavior

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		

Step 1	*Web Portal Voice → Phone → Line Key LED Pattern*
	`Custom LED Type: Default`
	XML
	`<Custom_LED_Type ua="na">%CUSTOM_LED_TYPE%</Custom_LED_Type>`
	Example:
	`<Custom_LED_Type ua="na">Default</Custom_LED_Type>`
		Used to customize LED behavior.
		Options:
		Default:
		▪ Choose this option to use system default behavior, which is the current MPP Series behavior.
		▪ After the web page refreshes, all configuration fields for LED patterns are left as blank to set the LED behavior to the system default for the phones with firmware earlier than Release 11.3.1.
		Preset 1:
		▪ Choose this option to retain the pre-configured settings.
		▪ After the web page refreshes, all fields are populated with preset values.
		Custom:
		▪ Choose this option if you want to customize the LED behavior.
		▪ Any field that you leave blank uses the system default.
		Default value: Default

	XML
	`<Disabled_LED ua="na">%DISABLED_LED%</Disabled_LED>`
	`<Idle_LED ua="na">%IDLE_LED%</Idle_LED>`
	`<Remote_Undefined_LED ua="na">%REMOTE_UNDEFINED_LED%</Remote_Undefined_LED>`
	`<Local_Seized_LED ua="na">%LOCAL_SEIZED_LED%</Local_Seized_LED>`
	`<Remote_Seized_LED ua="na">%REMOTE_SEIZED_LED%</Remote_Seized_LED>`
	`<Local_Progressing_LED ua="na">%LOCAL_PROGRESSING_LED%</Local_Progressing_LED>`
	`<Remote_Progressing_LED ua="na">%REMOTE_PROGRESSING_LED%</Remote_Progressing_LED>`
	`<Local_Ringing_LED ua="na">%LOCAL_RINGING_LED%</Local_Ringing_LED>`
	`<Remote_Ringing_LED ua="na">%REMOTE_RINGING_LED%</Remote_Ringing_LED>`
	`<Local_Active_LED ua="na">%LOCAL_ACTIVE_LED%</Local_Active_LED>`
	`<Remote_Active_LED ua="na">%REMOTE_ACTIVE_LED%</Remote_Active_LED>`
	`<Local_Held_LED ua="na">%LOCAL_HELD_LED%</Local_Held_LED>`
	`<Remote_Held_LED ua="na">%REMOTE_HELD_LED%</Remote_Held_LED>`
		Customizes LED behavior.
		Options:
		▪ blank
		▪ string_pattern
		String_pattern format is:
		▪ c=<COLOR> [; p=<PATTERN>]
		COLOR choices are:
		▪ o is OFF
		▪ g is GREEN
		▪ r is RED
		▪ a is AMBER
		PATTERN choices are:
		n is for no blink with solid color.
		b is for blink with color (equivalent of system default “slow blink”).
		Example:
		LED shows solid red:
		c=r;p=n or c=r
		LED shows blinking amber:
		c=a;p=b
		LED turns off:
		c=o

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<Register_Failed_LED ua="na">%REGISTER_FAILED_LED%</Register_Failed_LED> <Registering_LED ua="na">%REGISTERING_LED%</Registering_LED>	

4.4.14.1 Attendant Console LED Behavior

When you make your selection in the Custom LED Type drop-down list, changes also occur in the Att Console tab. This only happens when you configure simultaneous LED behavior for phone line keys and key expansion module line keys.

To view the key expansion module LED behavior from the web user interface, see the following figure.

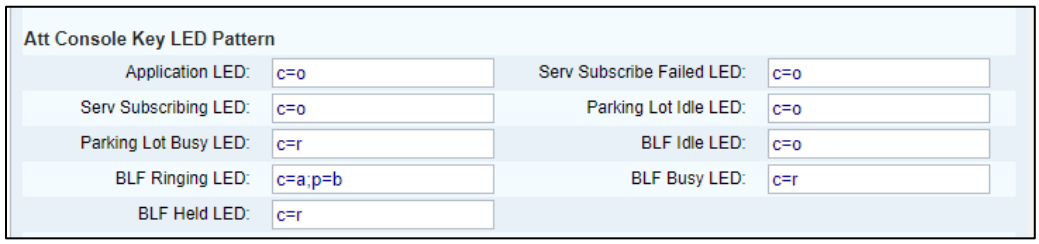


Figure 52 Att Console LED Behavior

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	*Web Portal Voice → Att Console → Att Console Key LED Pattern* `Custom LED Type: Default` **XML** <Application_LED ua="na">%APPLICATION_LED%</Application_LED> <Serv_Subscribe_Failed_LED ua="na">%SERV_SUBSCRIBE_FAILED_LED%</Serv_Subscribe_Failed_LED> <Serv_Subscribing_LED ua="na">%SERV_SUBSCRIBING_LED%</Serv_Subscribing_LED> <Parking_Lot_Idle_LED ua="na">%PARKING_LOT_IDLE_LED%</Parking_Lot_Idle_LED> <Parking_Lot_Busy_LED ua="na">%PARKING_LOT_BUSY_LED%</Parking_Lot_Busy_LED> <BLF_Idle_LED ua="na">%BLF_IDLE_LED%</BLF_Idle_LED> <BLF_Ringing_LED ua="na">%BLF_RINGING_LED%</BLF_Ringing_LED> <BLF_Busy_LED ua="na">%BLF_BUSY_LED%</BLF_Busy_LED>	Used to view key expansion module LED behavior. Options: ▪ blank ▪ string_pattern String_pattern format is: ▪ c=<COLOR> [; p=<PATTERN>] COLOR choices are: ▪ o is OFF ▪ g is GREEN ▪ r is RED ▪ a is AMBER PATTERN choices are: ▪ n is for no blink with solid color. ▪ b is for blink with color (equivalent of system default “slow blink”). Example: LED shows solid red: c=r;p=n or c=r LED shows blinking amber: c=a;p=b LED turns off: c=o

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<BLF_Held_LED ua="na">%BLF_HELD_LED%</BLF_Held_LED>	

4.4.14.2 Assign an Extension Number to a Key Expansion Module Line Key (8800 only)

You can assign an extension number to a key expansion module line key so that the line key can be used as a SIP line. For a line key, you can enable an extension number that ranges from 1 to 16. You can use this line key for phone features such as make a call, answer a call, or add more than one person to a conference call. Only audio key expansion module and video key expansion module support this feature.

Phone line keys support 16 extensions.

To assign an extension number to KEM Line Key from the web user interface, see the following figure:

Figure 54 KEM Key

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	*Web Portal Voice → Att Console→Unit [m] Line key [n]* **XML** <Unit_n_Extension_m_ ua="na">%Unit_n_Extension_m_%</Unit_n_Extension_m_> <Unit_n_Extension_m_ ua="na">Disabled</Unit_n_Extension_m_> Where, n is the unit number of the KEM (1-2 for 8851, 1-3 for 8861 and 8865), and m is the key number (1-28).	Use the KEM Line Key for SIP line. Options: 1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled The maximum number of KEM that phone supports is 2 for 8851 and 3 for 8861 and 8865. Default: Disabled.

4.4.15 Security Classification Feature Configuration

Cisco MPP Series currently does not support this feature.

4.4.16 Emergency Call Configuration

Cisco MPP Series currently does not support this feature.

4.4.17 Advice of Charge Configuration

Cisco MPP Series currently does not support this feature.

4.4.18 Conference Event Configuration

Cisco MPP Series currently does not support this feature.

4.5 Xtended Services Interface 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

The phone must authenticate with the Xsi interface to access the available features. This section identifies the authentication method(s) supported by the phone and the configuration required.

1) Authenticate with SIP Authentication Credentials.

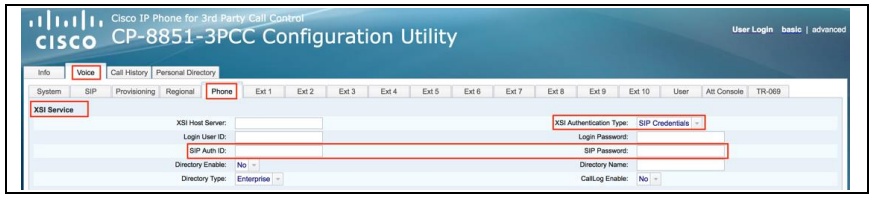


Figure 53 Cisco MPP Series XSI Authentication SIP Credentials

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		

Step 1	Set XSI Authentication Type:
	`Web Portal Voice → Phone Tab -> XSI Service`
	
	`XSI Authentication Type: SIP Credentials`
	
	`XML`
	
	`<XSI_Authentication_Type ua="na">SIP Credentials</XSI_Authentication_Type>`
	
	`Example:`
	
	`<XSI_Authentication_Type ua="na">SIP Credentials</XSI_Authentication_Type>`
		Sets the XSI Authentication Type.
		Default value: Login Credentials.

2) Authenticate with Cisco BroadWorks User Login Credentials.

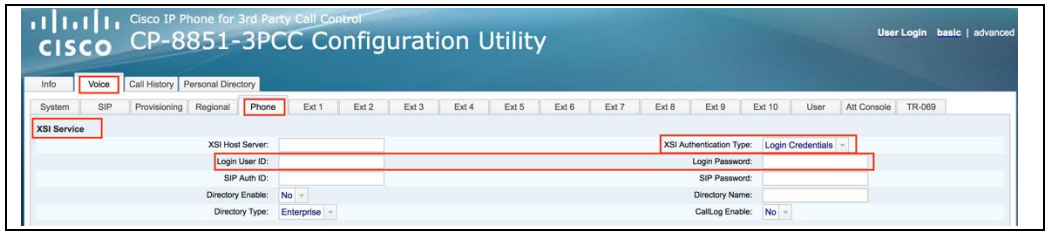


Figure 54 XSI Authentication Login Credentials

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		

Step 1	Set XSI Authentication Type:
	`Web Portal Voice → Phone Tab -> XSI Service`
	XSI Authentication Type: `Login Credentials`
	
	XML
	
	`<XSI_Authentication_Type ua="na">Login Credentials</XSI_Authentication_Type>`
	
	Example:
	`<XSI_Authentication_Type ua="na">Login Credentials</XSI_Authentication_Type>`
		Set the XSI Authentication Type.
		Default value: Login Credentials.

4.5.2 XSI Single Sign-On Feature Configuration

This section provides configuration instructions to configure the phone to enable the profile account authentication feature that supports a temporary login token as an alternative to the Device Management user name and password. When this feature is enabled, the phone will prompt for Xsi user name and Xsi password. Profile account authentication enables the phone to resynchronize the provisioning profile.

When you enable this feature, the Profile account setup screen is displayed on the phone for the following cases:

- When the HTTP or HTTPs 401 authentication error occurs during first-time provisioning after the phone reboots.
- When the Profile account username and password are empty.
- When there are no username and password in the Profile Rule.

To configure the Profile Account Authentication on the Cisco BroadWorks server, see the following figure.

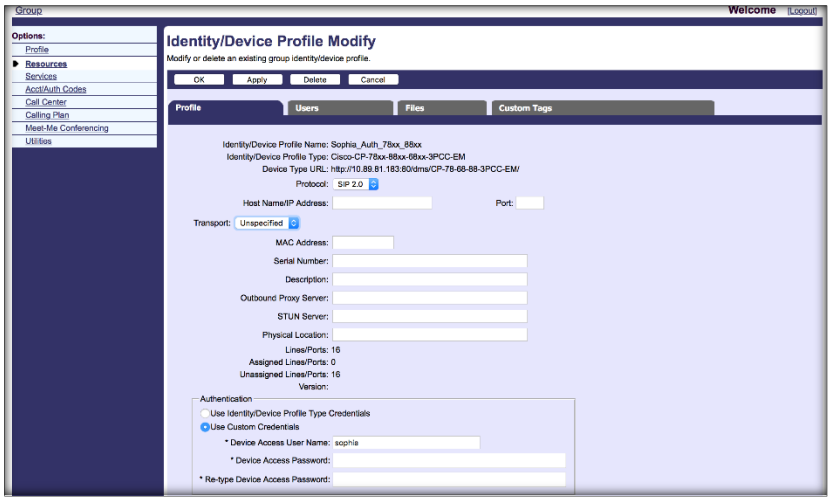


Figure 55 Profile Account Authentication on Cisco BroadWorks Server

1) Log in as an admin and access *Admin → Device Profile Type*. Enable User Name/Password authentication.

2) Log in with a group account and access *Admin → Resources → Identity/Device Profile Modify*.

3) Choose the correct Device Profile Type and set the Device Access User Name/Password.

4) Associate the Xsi user with the Auth Device Profile.

To enable the Profile Account Authentication Type, see the following figure.

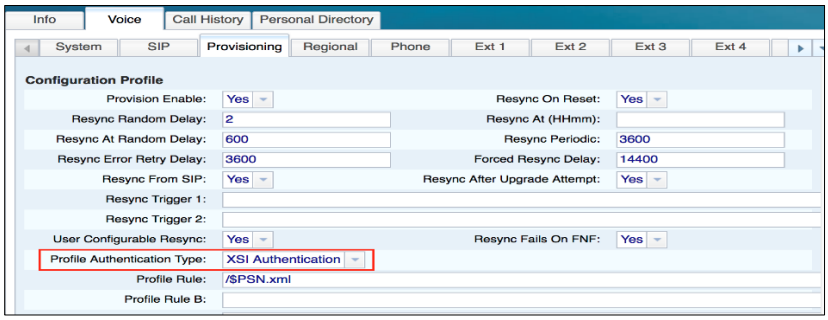


Figure 56 Cisco MPP Series Profile Authentication Type

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		

Step 1	Set Profile Authentication Type:
	`Web Portal Voice → Provisioning -> Configuration Profile`
	`Profile Authentication Type: XSI Authentication`
	
	XML
	
	<Profile_Authentication_Type ua="na">%PROFILE_AUTH_TYPE%</Profile_Authentication_Type>
	
	Note: %Profile_AUTH_Type% have three types: Disabled, Basic HTTP Authentication,XSI Authentication
	Example:
	
	<Profile_Authentication_Type ua="na">XSI Authentication</Profile_Authentication_Type>
		Set the Profile Authentication Type
		Default value: Basic HTTP Authentication

To configure XSI Host Server and XSI Authentication Type, see the following figure.

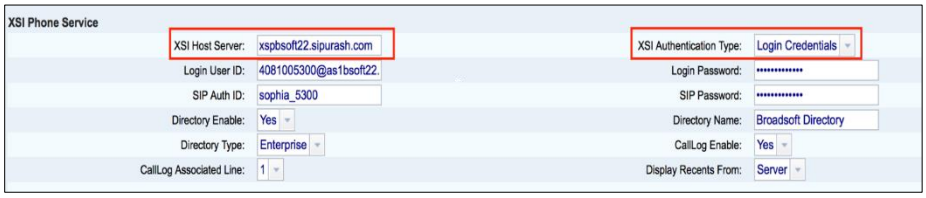


Figure 57 XSI Host Server and XSI Authentication Type Configuration

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		

Step 1	Set XSI Host Server.
	`Web Portal Voice → Phone -> XSI Host Server`
	`XSI Host Server: xsp.broadworks.net`
		Sets the XSI Host Server.

Step 2	Set XSI Authentication Type.
	`Web Portal Voice → Phone -> XSI Host Server`
	`XSI Authentication Types:`
	`1) Login Credentials – For account information, see Authenticate with SIP Authentication Credentials.`
	`2) SIP Credentials – For account information, see Authenticate with Cisco BroadWorks User Login` Credentials.
		Sets the XSI Authentication Type.
		Default value: Login Credentials.
		Note that if the user does not fill in the account information, the single sign-on dialog will appear to prompt the user to enter the account information.

4.5.3 Cisco BroadWorks User Service Configuration

Cisco MPP Series currently does support BroadWorks Anywhere and Caller ID Blocking. BroadWorks Anywhere is a solution of seamlessly moving a call from a location (for example, desk phone number) to another location (for example, mobile phone). This feature is to display the BroadWorks Anywhere locations (phone numbers) on phone, and to support add, modify, and delete operations from the GUI. The BroadWorks Anywhere service should be assigned to the user from the Cisco BroadWorks portal for this feature to work. BroadWorks Anywhere should be enabled and configured from the phone web page by the administrator.

Cisco BroadWorks Configuration

1) To configure the BroadWorks Anywhere service for the user, go to *User → Assign Services*.

Figure 58 BroadWorks Anywhere Service for User

2) Configure the password for the user.

– If you set the *XSI Authentication Type* to “Login Credentials” from the phone web page, you need to configure the User’s Passwords from the Cisco BroadWorks portal. It is identical to “Login Password” on the phone web page.

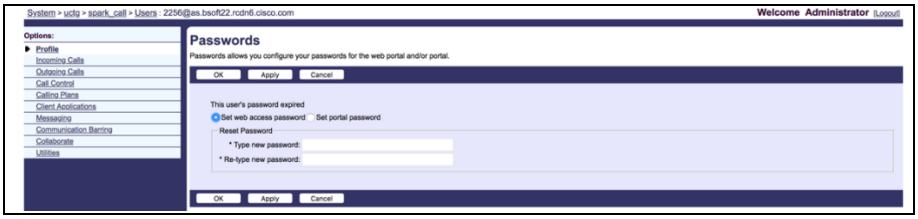


Figure 59 BroadWorks Anywhere Password Page

– If you set the XSI Authentication Type to “SIP Credentials” from the phone web page, you need to assign an Authentication service to the user, and then configure *User → Utilities → Authentication* from the Cisco BroadWorks portal. They are identical to the *Auth ID* and the *Password* on the phone web page.

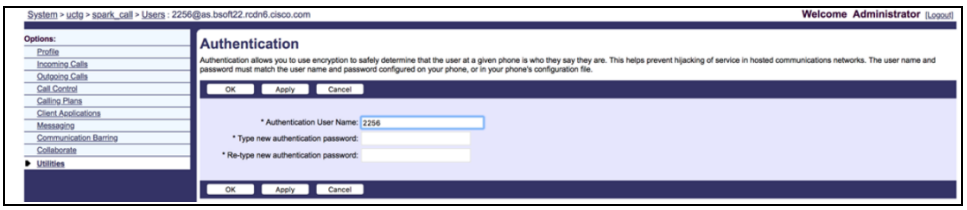


Figure 60 BroadWorks Anywhere Authentication Page

Device Webpage Configuration

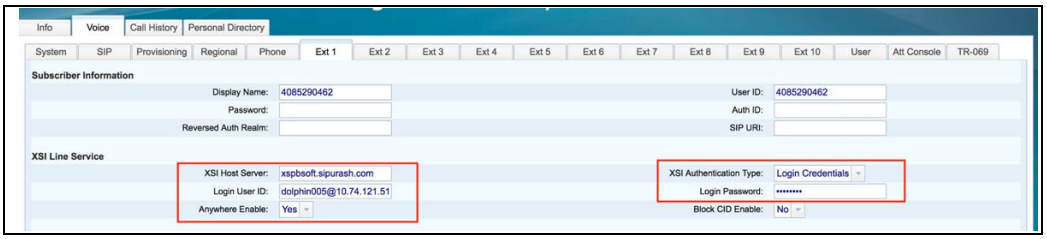


Figure 61 BroadWorks Anywhere XSI Authentication – Login Credentials

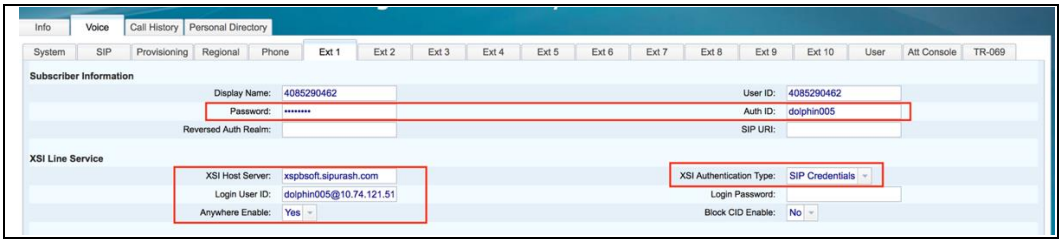


Figure 62 BroadWorks Anywhere XSI Authentication – SIP Credentials

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		

Step 1	Set the “Anywhere Enable”.
	`Voice Tab → Ext <#>:`
	`Anywhere Enable to yes`
	
	Set “XSI Host Server”
	`Voice Tab → Ext <#> → XSI Line Settings:`
	`Check Figure 29 and Figure 30`
	
	Set “Login User ID”
	`Voice Tab → Ext <#> → XSI Line Settings:`
	`Check Figure 29 and Figure 30`
	
	XML
	
	`<XSI_Host_Server_1_ ua="na"> %XSI_Host_Server_1_%</XSI_Host_Server_1_>`
	`<XSI_Authentication_Type_1_ ua="na">%XSI_Authentication_Type_1_%</XSI_Authentication_Type_1_>`
	`<Login_User_ID_1_ ua="na">%Login_User_ID_1_%</Login_User_ID_1_>`
	`<Login_Password_1_ ua="na">%Login_Password_1_%</Login_Password_1_>`
	`<Anywhere_Enable_1_ ua="na">%Anywhere_Enable_1_%</Anywhere_Enable_1_>`
		These device settings allow the user to use BroadWorks Anywhere.

4.5.4 Cisco BroadWorks Call Logs Configuration

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

Figure 63 Cisco MPP Series Call Log Enabled

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	Set Cisco BroadWorks Call Log **Web Example:** Phone Tab → XSI Service: CallLog Enable: Yes **XML** <CallLog_Enable ua="na"> %CallLog_Enable% </CallLog_Enable> <CallLog_Associated_Line ua="n a">%CallLog_Associated_Line% </CallLog_Associated_Line> <Display_Recents_From ua="na">% Display_Recents_From %</Display_Recents_From> ***XML Example:*** <CallLog_Enable ua="na">Yes</C allLog_Enable> <CallLog_Associated_Line ua="n a">1</CallLog_Associated_Line> <Display_Recents_From ua="na">Server</Display_Recent s_From> <Exec_Call_Bridge_Code ua="na" >*15</Exec_Call_Bridge_Code>	These device settings allow the user to use Cisco BroadWorks Call Logging.

4.5.5 Cisco BroadWorks Directory Configuration

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

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	Set BroadSoft Directory Settings. **Web Example:** Phone Tab: Directory Enable: Yes XSI Host Server: xsp.broadworks.net Directory Name: Broadsoft **XML:** <Directory_Enable ua="na">Yes</Directory_Enable> <XSI_Host_Server ua="na">%XSI_SERVER%</XSI_Host_Server> <Directory_Name ua="na">%BROADSOFT_DIR_NAME%</Directory_Name> <Directory_Type ua="na">%DIRECTORY_TYPE%</Directory_Type> ***XML Example:*** <Directory_Enable ua="na">Yes</Directory_Enable> <XSI_Host_Server ua="na">xsp.broadworks.net</XSI_Host_Server> <Directory_Name ua="na">Broadsoft</Directory_Name> <Directory_Type ua="na">Enterprise</Directory_Type>	These device settings allow the user to use BroadSoft Directory lookups via the Xtended Services Platform server.

Searches are based upon directory hierarchy. For more information, see the *Cisco Multiplatform Series Phones Administration Guide* [1].

4.5.5.1 Cisco BroadWorks All Contacts Display Configuration

This section provides configuration instructions on how to enable Cisco BroadWorks directory to view all Cisco BroadWorks contacts without performing any search operation, enable or disable five Cisco BroadWorks directories (Enterprise, Enterprise Common, Group, Group Common, and Personal) individually. Also, maximum number of contacts displayed on the screen can be configured.

To configure the feature, you must create a user account which can access the five Cisco BroadWorks directories.

Configure a Cisco BroadWorks Account to Access Five BroadWorks Directories.

4.5.5.2 Configure a Cisco BroadWorks Account to Access Five BroadWorks Directories

To configure the Cisco BroadWorks account, see the following figures.

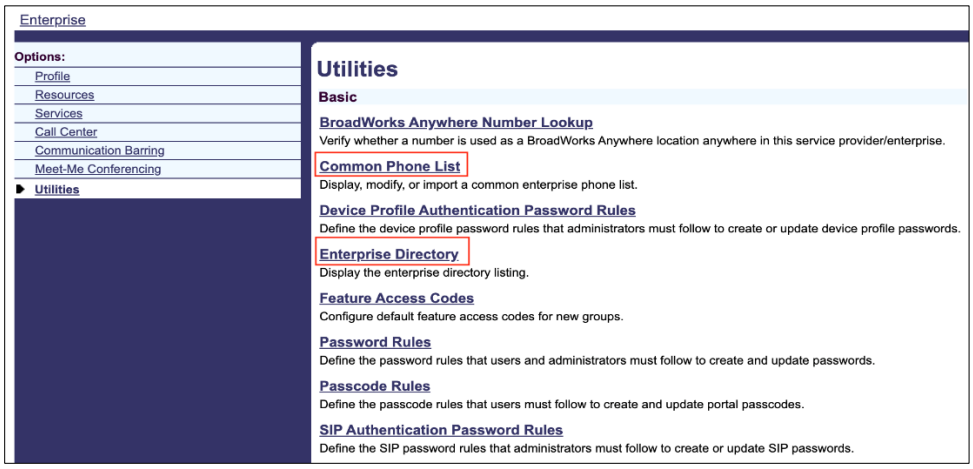


Figure 64 Configure Enterprise and Enterprise Common Directory

3) Log in to your Enterprise level account that your administrator has created for you in the Cisco BroadWorks server.

4) Select *Enterprise → Utilities*.

5) Configure Enterprise Common Directory and Enterprise Directory respectively to view the Enterprise directory listing from Common Phone List and Enterprise Directory menus, respectively.

Figure 65 Configure Group Directory Contacts

6) Select *Enterprise → Profiles → Groups.*

You can see the groups available in the enterprise directory. In the above example, you can select the group *xsi_bsoft_dire_ent1* and modify. Select the group and access it.

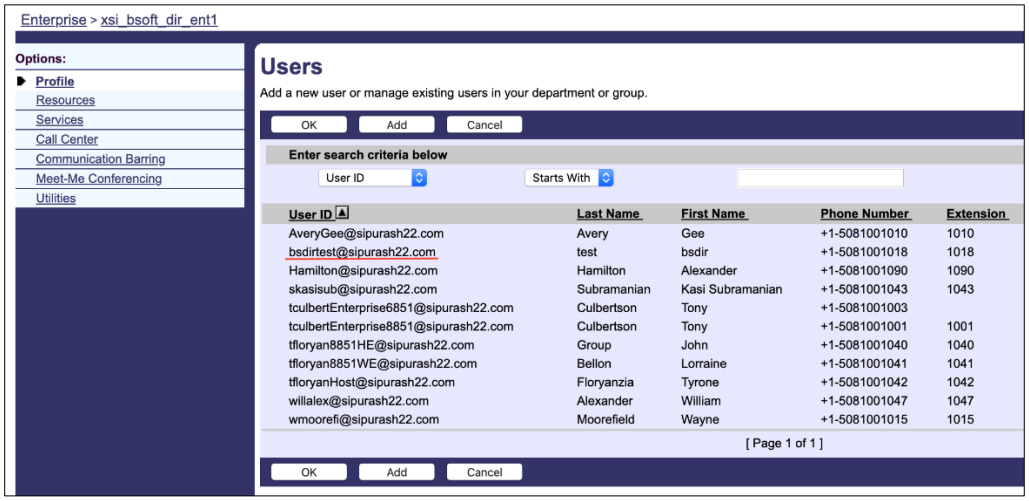


Figure 66 Add Users to Group Directory

7) Go to *Profile → Users.*

   You can see all users in the group directory contacts list.

8) To add a new user, click **Add**.

   For example, you can add a new user (*bsdirtest@sipurash22.com*) as shown in *Figure 66.*

   Select *Enterprise → xsi_bsoft_dire_ent1 → Utilities.*

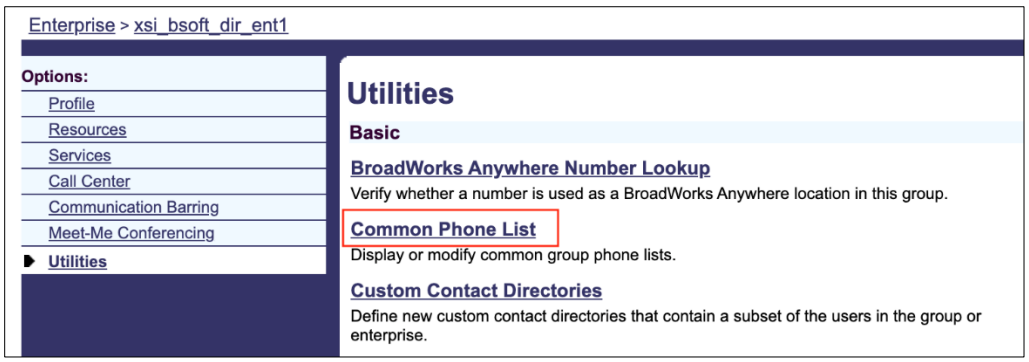


Figure 67 Configuring Group Common Directory

9) Select *Common Phone List.*

   Common Phone List menu represents Group Common directory. You can configure the directory using this menu.

10) Go to *Enterprise → xsi_bsoft_dir_ent1 → Users → Outgoing Calls → Personal Phone List*.

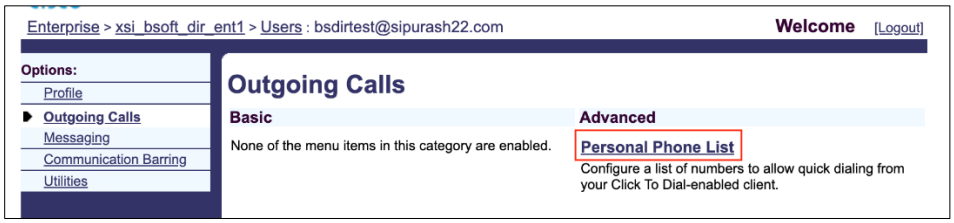


Figure 68 Configure Personal Directory

You can configure personal directory here.

11) Select *Enterprise → xsi_bsoft_dir_ent1 → Users → Profile → Passwords* to set the user credentials.

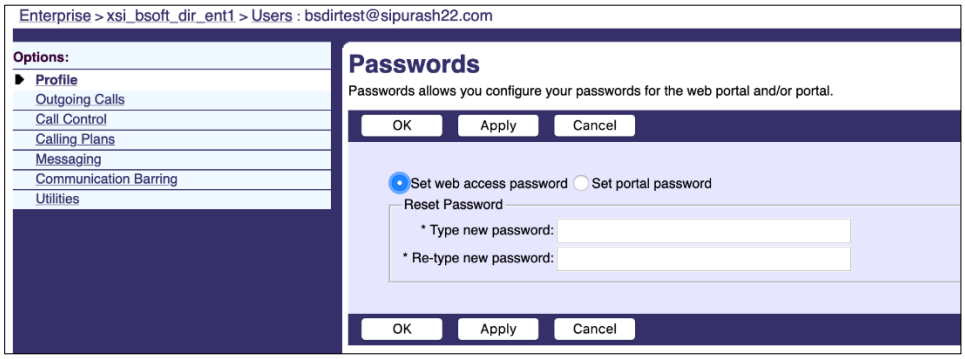


Figure 69 User Credentials

The user account is created.

To configure the Directory services from the phone web interface, see the following figure.

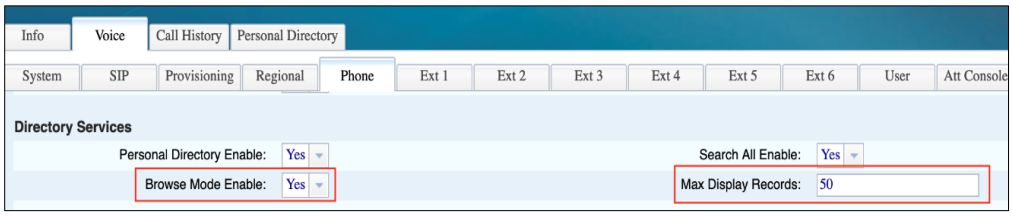


Figure 70 Directory Service

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	Set Enterprise User Account **Web Example:** Voice → Phone → Directory Services: Browse Mode Enable: Yes Max Display Records: 50 **XML** <Browse_Mode_Enable ua="na">%BROWSE_MODE_ENABLE%</Browse_Mode_Enable> **Note:** %BROWSE_MODE_ENABLE% has two options: Yes and No <Max_Display_Records ua="na">%MAX_DISPLAY_RECORDS%</Max_Display_Records> **Note:** %MAX_DISPLAY_RECORDS% has a value range from 50 to 999 **XML Example:** <Browse_Mode_Enable ua="na">Yes</Browse_Mode_Enable> <Max_Display_Records ua="na">50</Max_Display_Records>	**Browse Mode Enable:** Determines whether to trigger an auto search operation to show the contacts when you enter a directory in the phone. Default: Yes **Max Display Records:** Sets up the maximum number of contacts that display in the All, BroadSoft, and LDAP directories. Default: 50
Step 2	Web Example: *Voice → Phone → XSI Phone Services:*	
	Directory Individual Mode Enable : No **XML** <XsiDir_Individual_Mode_Enable ua="na">%XSIDIR_INDIVIDUAL_MODE_ENABLE%</XsiDir_Individual_Mode_Enable> **Note:**%XSIDIR_INDIVIDUAL_MODE_ENABLE% has two options: Yes and No. **XML Example:** <XsiDir_Individual_Mode_Enable ua="na">No</XsiDir_Individual_Mode_Enable>	Enables the individual mode for the Cisco BroadWorks directories. The parameter is valid only when the *Directory Enable* is set to “Yes”. When this mode is enabled, the individual Cisco BroadWorks directories (such as, Enterprise, Group, Personal, and so on) can display on the phone. Default: No

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
	Directory Personal Enable : No **XML:** <XsiDir_Personal_Enable ua="na">%XSIDIR_PERSONAL_ENABLE%</XsiDir_Personal_Enable> **Note:** %XSIDIR_PERSONAL_ENABLE% has two options: Yes and No. **XML Example:** <XsiDir_Personal_Enable ua="na">%XSIDIR_PERSONAL_ENABLE%</XsiDir_Personal_Enable>	Enables the Cisco BroadWorks personal directory for the phone user. Select "Yes" to enable the directory and select "No" to disable it. The parameter is valid only when both "Directory Enable" and "Directory Individual Mode Enable" are set to "Yes". Default: No
	Directory Personal Name : Empty **XML:** <XsiDir_Personal_Name ua="na">%XSIDIR_PERSONAL_NAME%</XsiDir_Personal_Name> **XML Example:** <XsiDir_Personal_Name ua="na">Empty</XsiDir_Personal_Name>	Name of the Cisco BroadWorks personal directory. Displays on the phone as a directory choice. Default: Empty. If the value is empty, the directory name is "Personal" on the phone.
	Directory Group Enable: No **XML:** <XsiDir_Group_Enable ua="na">%XSIDIR_GROUP_ENABLE%</XsiDir_Group_Enable> **Note:** %XSIDIR_GROUP_ENABLE% has two options: Yes and No **XML Example:** <XsiDir_Group_Enable ua="na">No</XsiDir_Group_Enable>	Enables the Cisco BroadWorks group directory for the user. The parameter is valid only when both *Directory Enable* and *Directory Individual Mode Enable* are set to "Yes". Default: No
	Directory Group Name **XML:** <XsiDir_Group_Name ua="na">%XSIDIR_GROUP_NAME%</XsiDir_Group_Name> **XML Example:** <XsiDir_Group_Name ua="na">-</XsiDir_Group_Name>	Name of the Cisco BroadWorks group directory. Displays on the phone as a directory choice. Default: Empty If the value is empty, the directory name is "Group" on the phone.

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
	Directory Enterprise Enable: No **XML**: <XsiDir_Enterprise_Enable ua="na">%XSIDIR_ENTERPRISE_ENABLE%</XsiDir_Enterprise_Enable> **Note:** %XSIDIR_ENTERPRISE_ENABLE% has two options: Yes and No **XML Example:** <XsiDir_Enterprise_Enable ua="na">No</XsiDir_Enterprise_Enable>	Enables the Cisco BroadWorks enterprise directory for the phone user. The parameter is valid only when both *Directory Enable* and *Directory Individual Mode Enable* are set to "Yes". Default: No
	Directory Enterprise Name: Empty **XML**: <XsiDir_Enterprise_Name ua="na">%XSIDIR_ENTERPRISE_NAME%</XsiDir_Enterprise_Name> **XML Example:** <XsiDir_Enterprise_Name ua="na">DirenterpriseName</XsiDir_Enterprise_Name>	Name of the Cisco BroadWorks enterprise directory. Displays on the phone as a directory choice. Default: Empty. If the value is empty, the directory name is "Enterprise" on the phone.
	Directory GroupCommon Enable: No **XML**: <XsiDir_GroupCommon_Enable ua="na">%XSIDIR_GROUPCOMMON_ENABLE%</XsiDir_GroupCommon_Enable> **Note:** %XSIDIR_GROUPCOMMON_ENABLE% has two options: Yes and No **XML Example:** <XsiDir_GroupCommon_Enable ua="na">No</XsiDir_GroupCommon_Enable>	Enables the Cisco BroadWorks GroupCommon directory for the phone user. The parameter is valid only when both *Directory Enable* and *Directory Individual Mode Enable* are set to "Yes". Default: No
	Directory GroupCommon Name: DirGroupCommon **XML**: <XsiDir_GroupCommon_Name ua="na">%XSIDIR_GROUPCOMMON_NAME%</XsiDir_GroupCommon_Name> **XML Example:** <XsiDir_GroupCommon_Name ua="na"> DirGroupCommon </XsiDir_GroupCommon_Name>	Name of the Cisco BroadWorks Group Common directory. Displays on the phone as a directory choice. Default: Empty If the value is empty, the directory name is "Group Common" on the phone.

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
	Directory EnterpriseCommon Enable **XML**: <XsiDir_EnterpriseCommon_Enable ua="na">%XSIDIR_ENTERPRISECOMMON_ENABLE%</XsiDir_EnterpriseCommon_Enable> **Note:** %XSIDIR_ENTERPRISECOMMON_ENABLE% has two options: Yes and No **XML Example:** <XsiDir_EnterpriseCommon_Enable ua="na">No</XsiDir_EnterpriseCommon_Enable>	Enables the Cisco BroadWorks EnterpriseCommon directory for the phone user. The parameter is valid only when both *Directory Enable* and *Directory Individual Mode Enable* are set to "Yes". Default: No
	Directory EnterpriseCommon Name: DirEnterpriseComm **XML**: <XsiDir_EnterpriseCommon_Name ua="na">%XSIDIR_ENTERPRISECOMMON_NAME%</XsiDir_EnterpriseCommon_Name> **XML Example:** <XsiDir_EnterpriseCommon_Name ua="na">DirEnterpriseComm</XsiDir_EnterpriseCommon_Name>	Name of the Cisco BroadWorks Enterprise Common directory. Displays on the phone as a directory choice. Default: Empty If the value is empty, the directory name is "Enterprise Common" on the phone.

4.5.6 DND and Call Forwarding Status Sync via XSI Service

This section provides configuration instructions to configure the settings on the phone to enable status synchronization of do not disturb (DND) and call forwarding between the phone and the server. Phone uses XSI service to get or set the DND or call forward functions on the Cisco BroadWorks server. When user changes the settings on the server, the server uses XSI-Events to notify the phone. There are two ways to synchronize the feature status.

- Feature Key Synchronization (FKS)
- XSI Synchronization

1) To configure the XSI Login Credentials on the Cisco BroadWorks server, see the following figure.

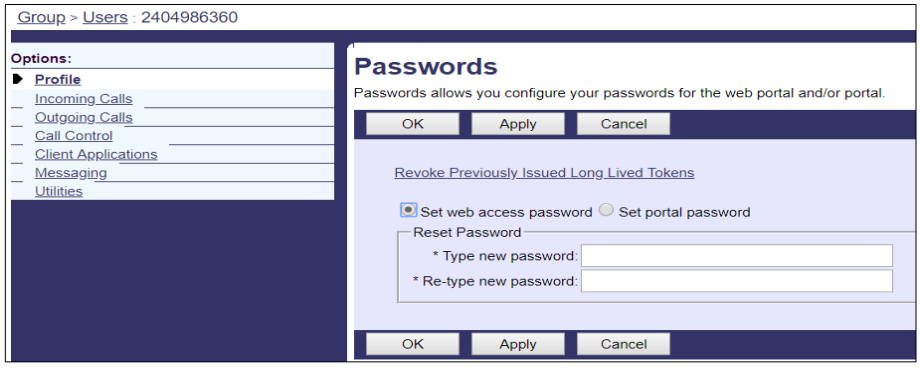


Figure 71 XSI Login Credentials with Cisco BroadWorks

1) Log in with a Group account.
2) Select *Group → Profile → Users.*
3) Click **Search** and choose a user account that you want to modify.
4) From the *Profile* page, click **Passwords** and set the Web access password as shown in *Figure 71*.
5) If the login user ID does not contain a server domain, extend it as follows: "<user id>@<server domain>".

To configure XSI SIP Credentials on the Cisco BroadWorks server, see the following figure.

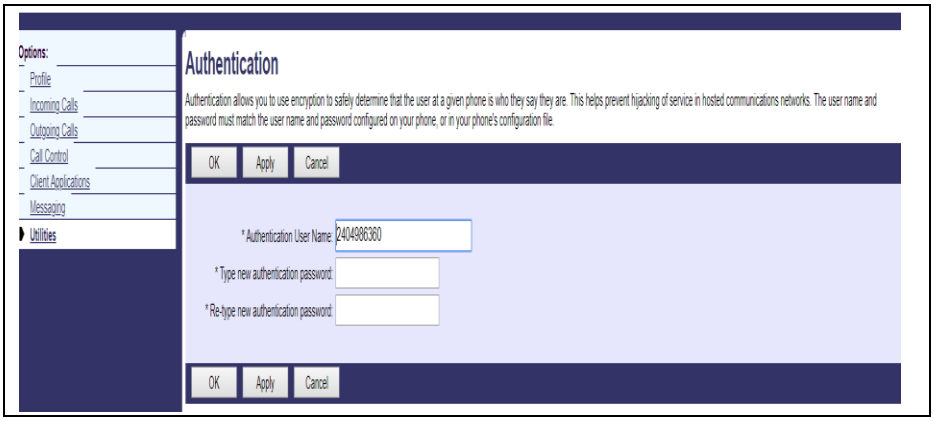


Figure 72 XSI SIP Credentials with Cisco BroadWorks

1) Log in with a Group account.
2) Go to *Group → Profile → Users*.
3) Click **Search** and choose a user account that you want to modify.
4) In the *Profile* page, click **Assign Services.**
5) From the *Assign Services* page, from *Available Services*, add Authentication to the User Service and click **OK**.
6) Access the page *Utilities → Authentication*.
7) Set the SIP Authentication account as shown in *Figure 72*.

8) Enable DND and Call Forwarding Status Synchronization via XSI Service from Web Portal.

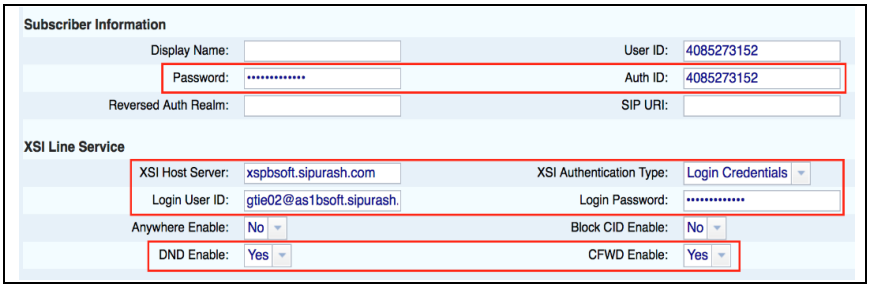


Figure 73 DND and Call Forwarding Status Synchronization

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	Set XSI Host Server and XSI Authentication Type: **Set XSI host server:** Web Portal Voice → Ext(n) → XSI Line Service XSI Authentication Type: Login Credentials or SIP Credentials **Authentication with Login Credentials:** Web Portal Voice → Ext(n) → XSI Line Service Login User ID and Login Password **OR** **Authenticate with SIP Credentials:** Web Portal Voice → Ext(n) → Subscriber Information Auth ID and Password	Set the XSI Host Server and XSI Authentication Type.
Step 2	Enable Call Forward and DND Status Sync via XSI Service: Web Portal Voice → Ext(n) → XSI Line Service DND Enable: Yes/No CFWD Enable: Yes/No **XML** <DND_Enable_1_ ua="na">%XSI_DND_ENABLE_N%</DND_Enable_1_> <CFWD_Enable_1_ ua="na">%XSI_CFWD_ENABLE_N%</CFWD_Enable_1_> Tags: %XSI_DND_ENABLE_N% %XSI_CFWD_ENABLE_N% Range of N% is 1-16	Enable Call Forwarding and DND Status Sync via XSI Service. Default Value: No.

4.5.7 Cisco BroadWorks Visual Voice Mail Configuration

Cisco MPP Series currently does not support this feature.

4.6 Instant Message and Presence Configuration

This section provides configuration instructions for configuration of a phone for integration with BroadCloud Instant Message and Presence.

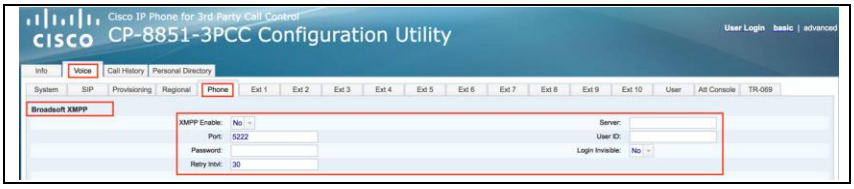


Figure 74 Cisco MPP Series XMPP Settings

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	Set BroadSoft XMPP. **Web Example:** Phone Tab: XMPP Enable: Yes Server: xsp.broadworks.net Port: Broadsoft UserID: user1 Password: password Login Invisible: No Retry Intvl: 50 **XML Example:** XML Example <!-- Broadsoft XMPP --> <XMPP_Enable ua="na">Yes</XMPP_Enable> <XMPP_Server ua="na">%BW_IMP_SERVICE_NET_ADDRESS-1%</XMPP_Server> <XMPP_Port ua="na">%BW_IMP_SERVICE_PORT-1%</XMPP_Port> <XMPP_User_ID ua="na">%BW_USER_IMP_ID-1%</XMPP_User_ID> <XMPP_Password ua="na">%BW_USER_IMP_PWD-1%</XMPP_Password>	These device settings allow the user to use Cisco BroadWorks Instant Message and Presence.

4.7 Phone Onboarding to Cloud

Phone onboarding provides a simple and secure way to onboard Webex-aware phones to Cloud either by using activation code onboarding (GDS) or phone MAC address (EDOS device activation). Onboarding to Cloud enables the phone with additional functionalities, such as reboot and PRT generation from the Control Hub, support for Webex contacts, and support for Webex call logs.

For more information on phone onboarding, see the *Webex for Cisco BroadWorks Solution Guide* available here.

4.7.1 Enable Phone Onboarding to Cloud

You can enable a phone to onboard to Cloud while SIP line is registered to a Cisco BroadWorks server.

To enable onboarding from the web user interface, see the following figure.

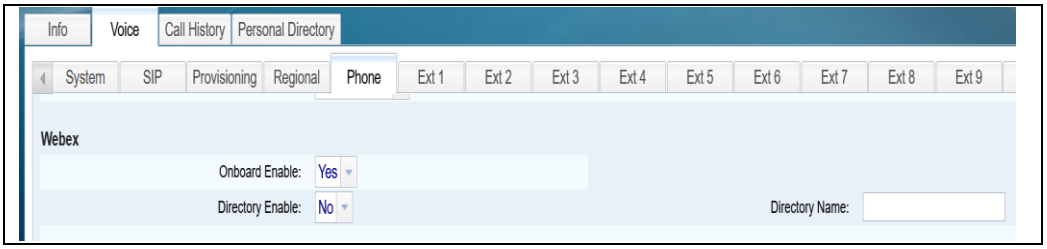


Figure 75 Webex Onboarding of Phone

Step	Command	Purpose
System Configuration File CiscoDev_System.xml		

Step 1	Configure Cloud Onboarding:
	`Web Portal` **`Voice → Phone → Webex`**
	`Onboard Enable:` `Yes or No`
	
	`XML`
	`<Webex_Onboard_Enable ua="na">%WEBEX_ONBOARD_ENABLE%</Webex_Onboard_Enable>`
	`Note:` `%WEBEX_ONBOARD_ENABLE% has two types: Yes or No`
	Example:
	`<Webex_Onboard_Enable ua="na">Yes</Webex_Onboard_Enable>`
		Enables Cloud onboarding of the phone.
		Default value: “Yes”.
		When set to “No”, the phone does not onboard to Cloud.

4.7.1 Phone Issues Reporting from Control Hub

You can issue a problem report of a phone remotely from the Control Hub, after the phone successfully onboards to Cloud. For more information, see the following guides:

- *Cisco IP Phone 6800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Phone 7800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Phone 8800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Conference Phone 7832 Series Multiplatform Phones Administration Guide*
- *Cisco IP Conference Phone 8832 Series Multiplatform Phones Administration Guide*

To enable uploading of Phone Issues Reporting (PRT) to Cloud on the web user interface, see the following figure.

Figure 76 PRT Upload to Cloud

Step	Command	Purpose
System Configuration File CiscoDev_System.xml		
Step 1	Upload PRT to Cloud: Web Portal **Voice → Provisioning → Problem Report Tool** **PRT Upload Rule:** Valid URL **PRT Upload Method:** PUT or POST **PRT Name:** Any String with "prt-" as a prefix **XML** <PRT_Upload_Rule ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%</PRT_Upload_Rule> <PRT_Upload_Method ua="na">%PRT_UPLOAD_METHOD%</PRT_Upload_Method> **Note:** %PRT_UPLOAD_METHOD% has two options: PUT and POST <PRT_Name ua="na">%PRT_NAME%</PRT_Name> Example: <PRT_Upload_Rule ua="na">https://cisco-int.bcld.webex.com/dms/spa8841-3pcc/</PRT_Upload_Rule> <PRT_Upload_Method ua="na">PUT</PRT_Upload_Method> <PRT_Name ua="na">prt-log</PRT_Name>	Generates problem report from Control Hub and uploads the report to the Cloud. PRT Upload Rule: Any valid path to the PRT upload script. PRT Upload Method: Method used to upload PRT logs to the Cloud server. Default: POST. PRT Name: A name for the generated PRT file. Value: Any String.

4.7.2 Phone Reboot from Control Hub

You can reboot the phone from the Control Hub remotely, after the phone successfully onboards to Cloud. You can only reboot a phone that is in an idle state. If it is in use, such as in a call, the phone does not reboot. For more information, see the following guides:

- *Cisco IP Phone 6800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Phone 7800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Phone 8800 Series Multiplatform Phones Administration Guide*
- *Cisco IP Conference Phone 7832 Series Multiplatform Phones Administration Guide*
- *Cisco IP Conference Phone 8832 Series Multiplatform Phones Administration Guide*

4.7.3 Webex Contact Support Configuration

You can enable a phone to support Webex contacts. You can also modify the display name of the Webex directory. To enable this support, the phone must onboard to Cloud successfully.

To enable Webex contact support, the phone must have the following configuration on the server.

- Successful onboarding to Cloud.
- Directory sync: Webex for Cisco BroadWorks users can use the Webex directory to call any calling number from the Cisco BroadWorks server. When this feature is enabled, the full calling directory from the Cisco BroadWorks server gets synched to the Webex directory. Users can access the directory from the phone and can place a call to any contact entry from the Cisco BroadWorks server.

To turn *Directory Sync* on, available here. For more information, see the *Webex for Cisco BroadWorks Solution Guide* available here. To enable support for Webex contacts from the web user interface, see the following figure.

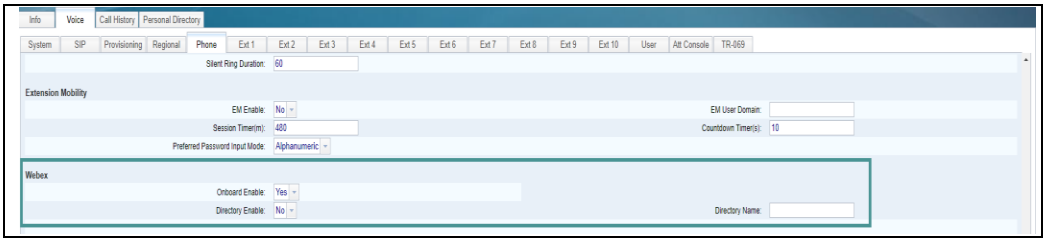


Figure 77 Webex Contacts Support

Step	Command	Purpose
System Configuration File CiscoDev_System.xml		

Step 1	Enable Webex Contact:
	`Web Portal` **`Voice → Phone → Webex`**
	`Directory Enable:` `Yes or No`
	`Directory Name:` `Any string`
	`XML`
	`<Webex_Directory_Enable ua="na">%WEBEX_DIRECTORY_ENABLE%</Webex_Directory_Enable>`
	
	`<Webex_Directory_Name ua="na">%WEBEX_DIRECTORY_NAME%</Webex_Directory_Name>`
	
	Example:
	`<Webex_Directory_Enable ua="na">No</Webex_Directory_Enable>`
	
	`<Webex_Directory_Name ua="na">%WEBEX_DIRECTORY_NAME%</Webex_Directory_Name>`
		Enables the phone to support Webex contacts.
		Directory Enable: Set to "Yes" to enable Webex directory.
		Default: No.
		Directory Name: Displays the name of the Webex directory. Name can be modified.
		Default: Empty.

4.7.4 Webex Call Log Configuration

You can enable phone to support Webex call logs when the phone successfully onboards to Cloud.

To enable the support, the phone must have the following configuration on the server.

- Successful onboarding to Cloud.

  Call log sync: Webex for Cisco BroadWorks uses the Webex call log to call any contact entry from the Cisco BroadWorks server. When this feature is enabled, the full call log from the Cisco BroadWorks server gets synched to the Webex call log. Users can access the call log from the phone and can place a call to any contact entry from the Cisco BroadWorks server.

To turn *Call log Sync* on, *Webex for Cisco BroadWorks Solution Guide* available here. To enable support for Webex call log from the web user interface, see the following figure.

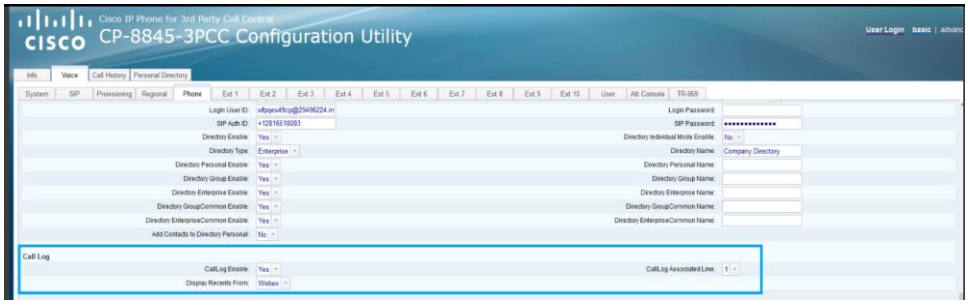


Figure 78 Webex Call Log Support

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		

Step 1	Enable Webex call logs:
	`Web Portal` **`Voice → Phone → Call Log`**
	`CallLog Enable:` `Yes or No`
	`CallLog Associated Line:``1 to 10`
	`Display Recents From:` `Phone or Server or Webex`
	`XML`
	`<CallLog_Enable ua="na">%CallLog_Enable%</CallLog_Enable>`
	`<CallLog_Associated_Line ua="na">%CallLog_Associated_Line%</CallLog_Associated_Line>`
	`<Display_Recents_From ua="na">%Display_Recents_From%</Display_Recents_From>`
	Example:
	`<CallLog_Enable ua="na">Yes</CallLog_Enable>`
	`<CallLog_Associated_Line ua="na">1</CallLog_Associated_Line>`
	`<Display_Recents_From ua="na">Webex</Display_Recents_From>`
		Enables the phone to support Webex call logs.
		CallLog Enable: Allows the user to use call logs from the Xsi server or Webex.
		Default: No.
		CallLog Associated Line: Allows you to select a phone line for which you want to display the recent call logs.
		Default: 1.
		Display Recents From: To enable Webex Call log, set the value as Webex.
		In the XML configuration file, set the *Display_Recents_From* parameter to "Webex".
		Default: Phone.

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 Cisco MPP Series and the configuration steps required. For Device Management configuration details not covered here, see the *BroadWorks Device Management Configuration Guide* [2] and the Cisco *BroadWorks CPE Kit Usage Guide* [2].

5.1 Device Management Capabilities Supported

The Cisco MPP Series has completed Device Management interoperability testing with Cisco BroadWorks using the *BroadWorks Device Management Interoperability Test Plan***Error! Reference source not found.**. 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 Cisco MPP Series support for each of the items covered in the test plan packages, with the following designations:

- Yes Test item is supported.
- No Test item is not supported.
- NA Test item is not applicable.
- NT Test item was not tested.
- No* Test item is not fully compliant with Cisco BroadWorks feature design.

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 Cisco MPP Series.

Cisco BroadWorks Device Management Interoperability Test Plan Support Table

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

Cisco BroadWorks Device Management Interoperability Test Plan Support Table			
Test Plan Package	**Test Plan Package Items**	**Supported**	**Comments**
HTTPS File Download with Client Authentication	HTTPS Download with Client Authentication Using XSP FQDN	Yes	
	HTTPS Download with Client Authentication Using XSP Cluster FQDN	Yes	
Time Zone Mapping	Inspect Time Zone Setting	Yes	
Language Mapping	Inspect Language Setting	Yes	
File Inspection	Inspect System Config File	Yes	
	Inspect Device-Specific Config File	Yes	
	Inspect Other Config Files	Yes	
	Inspect Static Files	Yes	
Device Inspection	Inspect SIP Settings	Yes	
	Inspect Line Settings	Yes	
	Inspect Service Settings	Yes	
HTTP File Upload	HTTP Upload Using XSP IP Address	Yes	
	HTTP Upload Using XSP FQDN	Yes	
	HTTP Upload Using XSP Cluster FQDN	Yes	
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	Except 7811, 7832, and 8832 model.
	Network-Based Conference	Yes	
Flexible Seating	Association via Voice Portal	Yes	
	Association via Phone	Yes	Except lock and unlock.
No Touch Provisioning	Provision via DHCP Options Field	Yes	
	No Touch Provision via DM redirect	Yes	
	No Touch Provision via Vendor redirect	Yes	

5.2 Device Management Configuration

This section identifies the steps required to enable the Cisco MPP 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* [2].

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 Cisco device models only.

The Cisco MPP 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 Cisco 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
%DNS_SERVER_1%	IP address	DNS server address.
%DNS_SERVER_2%	IP address	DNS server address alternate.
%XSP_ADDRESS%	IP address/FQDN	XSP server address.
%SNTP_SERVER_1%	IP address/FQDN	Network Time Protocol (NTP) server address.
%SNTP_SERVER_2%	IP address/FQDN	NTP server address alternate.

Example System Default Tag Settings

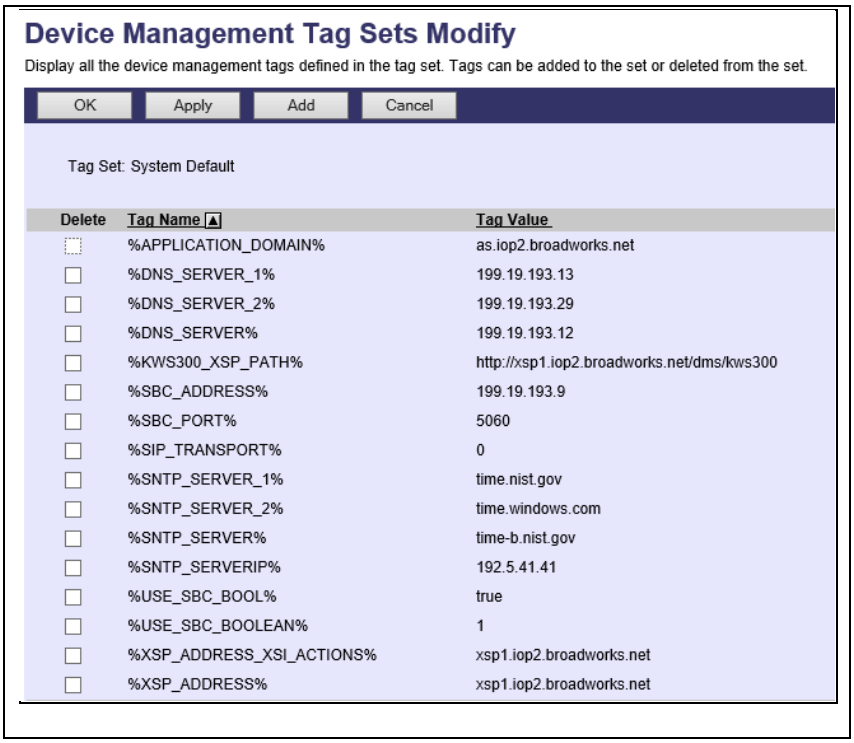


Figure 79 System Default Tag Settings

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*: *Cisco-3PCC-IP-Phones 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
%3RD_PARTY_CA_ROOT%	File Name of root CA	The file name of the 3rd Party Root CA.
%7800_LOGO_PIC%	File Name of Logo Picture	The file name of the Logo Picture.
%ACCESS_PROTOCOL%	TFTP/HTTP/HTTPS	Default protocol to receive configuration files.
%AUTH_INVITE%	Yes/No	Optional: Enforce SIP authentication for additional call security.
%AUTO_ANSWER_PAGE%	Yes/No	Optional: Enable/Disable auto answer (Global).
%AUTO_ANS_ON_CALL-x%	Yes/No	Optional: Enable total hands-free mode when “Yes”. When “No”, device will prompt for user interaction.

Tag Name	Valid Settings	Description
%BLF_DISPLAY_MODE%	Name/Ext/Both	Information displayed from BLF subscription URI. Valid options are: ▪ Name ▪ Extension (Ext) ▪ Both
%BLOCK_ANC_ACTIVATE%	String or blank, that is, *001	Optional: Unique star code to activate on-device Block Anonymous Calls.
%BLOCK_ANC_DEACTIVATE%	String or blank, that is, *002	Optional: Unique star code to deactivate on-device Block Anonymous Calls.
%BLOCK_CID_ACTIVATE%	String or blank, that is, *003	Optional: Unique star code to activate on-device Block Caller ID.
%BLOCK_CID_DEACTIVATE%	String or blank, that is, *004	Optional: Unique star code to deactivate on-device Block Caller ID.
%BROADSOFT_DIR_NAME%	String or blank	Cisco BroadWorks Directory Name. String value of to 255 characters in length.
%CALL_APPEARANCE%	2-10	Default setting should be set to “2”.
%CALL_BACK_ACTIVATE%	String or blank, that is, *005	Optional: Unique star code to activate on-device Block Caller ID.
%CALL_BACK_DEACTIVATE%	String or blank, that is, *006	Optional: Unique star code to deactivate on-device Block Caller ID.
%CALL_HISTORY_KEY_LIST%	Default: hold|1;endcall|2;join|4	Programmable Soft Keys (PSK) settings for “Call History”. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%CONFERENCING_KEY_LIST%	Default: hold|1;endcall|2;join|4	PSK settings for “Conferencing” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%CONNECTED_KEY_LIST%	Default: hold|1;endcall|2;conf|3;xfer|4;toggle;bxfer;confLx;xferLx;park;phold;flash;	PSK settings for “Connected” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%DAYLIGHT_SAVING_TIME_ENABLE%	Yes/No	Enable/Yes to observe daylight savings time.

Tag Name	Valid Settings	Description
%DAYLIGHT_SAVING_TIME%	Default: start=3/-1/7/2;end=10/-1/7/2;save=1	Daylight Savings Settings. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%DIAL_PLAN%	= ([2346789]11S0 | [0- 1][2-9]11S0 | 0 | 00S0 | 01[2-9]xx. | [*#]xx[*#] | *xx. | *xxxxxxS0 | *xxxxxxxxxxx | [2-9]# | 011x. | [0-1]xxxxxxx | [0-1][2-9]xxxxxxxxS0 | [2-9]xxxxxxxxS0 | [2- 9]xxxxxx | 101xxxx. | 11S0 | [2-9]x.)	This is a default U.S. dial plan that supports most forms of dialing.
%DIALING_CONSULT_KEY_LIST%	Default: delchar|1;endcall|2;dial|3;	PSK settings for “Consult Transfer” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%DIALING_INPUT_KEY_LIST%	Default: dial|1;delchar|2;clear|3;cancel|4;left|5;right|6;starcode|7;alpha|8;dir	PSK settings for “Dialing” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%DICTIONARY_SERVER_SCRIPT%	Example: d1=Spanish;l1=es-ES;x1=es-ES.tar;d2=French;l2=fr-FR;x2=fr-FR.tar	Localization settings. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%DICTIONARY_SERVER_SCRIPT_8875%	Example: d1=Spanish;l1=es-ES;x1=es-ES.tar;d2=French;l2=fr-FR;x2=fr-FR.tar	Localization settings.
%DISPLAY_DIVERSION_INFO%	Yes/No	Set to “Yes” to display the Diversion Header Info.
%DNS_CACHE_TTL%	Yes/No	Ability of the device to honor the TTL value received for a DNS response value.
%DNS_SERVER_ORDER%	Default: Manual-DHCP	Configurable DNS Search settings.
%EM_ENABLED%	Yes/No	Enable device for provisioning authority and ability to facilitate hot desking.
%FAILBACK_INTVL%	Default: 3600	Interval to force SIP Registration failback. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%INVITE_RETRY_ATTEMPTS%	String (0-6) Recommend: 3	Number of re-transmissions of Call Requests.

Tag Name	Valid Settings	Description
%NON-INVITE_RETRY_ATTEMPTS%	String (0-6) Recommend: 3	Number of re-transmissions of Non-Call Requests (REGISTER, SUBSCRIBE) Recommend: 3
%FAILBACK_INTVL%	String (0-65535) Default: 3600	Failback Interval timer.
%FIRMWARE_VERSION_CP-7800-3PCC%	File name of the loads file	Firmware load filename: Example: sip78xx.11-2-3MPP-398.loads Note that the Firmware files cannot be renamed.
%HOLD_KEY_LIST%	Default: resume|1;endcall|2;newcall|3;redial;dir;cfwd;dnd	PSK settings for Hold call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%IDLE_KEY_LIST%	Default: redial|1;newcall|2;dnd|3;unpark|4;pickup|5;cfwd|6	PSK settings for Idle call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%INVITE_RETRY_ATTEMPTS%	Default: 3 Range: 1-6	Number of attempts a SIP line will retransmit a SIP INVITE/Call Request.
%LINE_ID_MAPPING%	Default: Vertical First Options: Vertical First/Horizontal First	PLK line call appearance mapping.
%NEW_CALL_RECENTS_KEY_LIST%	Default: cancel|1;call|2;	PSK settings for “New Call” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%NON-INVITE_RETRY_ATTEMPTS%	Default: 3 Range: 1-6	Number of attempts a SIP line will retransmit a SIP REGISTER/SUBSCRIBE Request.
%OFF_HOOK_CONSULT_KEY_LIST%	Default: redial|1;cancel|2;	PSK settings for “Consult Transfer” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%OFF_HOOK_KEY_LIST%	Default: redial|1;dir|2;cfwd|3;dnd|4;lcr|5;unpark|6;pickup|7;gpickup|8;starcode|11;alpha|12	PSK settings for “New Call” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.

Tag Name	Valid Settings	Description
%ON_HOOK_DIAL_KEY_LIST%	Default: cancel|1;call|2;delchar|3;	PSK settings for “On Hook” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%PLK-x%	Default: PLK-1 = 1 PLK-2 = 2 Options: Depends on model.	Programmable Line Key (PLK) settings for non-Bluetooth enabled devices (7821, 7841, 7861). Example tag: ▪ PLK-1 ▪ PLK-2 Note: “x” represents the number of lines supported on the device. ▪ 7821 supports 2 lines ▪ 7841 supports 4 lines ▪ 7861 supports 16 lines
%PREFERRED_CODEC%	Default: G722 Values: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC	Preferred Codec: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC
%PROGRESSING_KEY_LIST%	Default: endcall|2	PSK settings for “New Call” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%PSK_ENABLE%	Default: Yes Options: Yes/No	Enables the addition of customized programmable soft keys.
%RESYNC_AT_RANDOM_DELAY%	String (0-65535) Default: 600	Random delay following boot-up sequence specified in seconds.
%RESYNC_ERROR%	String (0-65535) Default: 3600	Delay resyncing after a failed resync attempt.
%RESYNC_FORCED%	String (0-65535) Default: 14400	Forced resync delay after initial resync timer has expired.
%RESYNC_PERIODIC%	String (0-65535) Default: 3600	Time in seconds between periodic resyncs.
%RESYNC_RANDOM%	String (0-65535) Default: 2	Random resync time to reboot.
%RESYNC_TIME%	HHmm or blank Example: 0100	Optional: Time in 24-hour format to force the device to resync with Cisco BroadWorks Device Manager.

Tag Name	Valid Settings	Description
%RETRY_REG_RSC%	Default: 5??,6?? Options: Null, {SIP Response Value)	This tag is optional. This value controls failover events for SIP Registration. This tag is optional. When setting to blank, the device does not failover Register based SIP Register final response. When setting to final response value, the device could failover Register based on SIP Register final response.
%RINGING_KEY_LIST%	Default: answer|1;ignore|2;toggle|4	PSK settings for “New Call” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%RFC_2543_HOLD%	Default: No Options: Yes/No	Ability to support RFC 2543 Hold.
%SCREEN_SAVER_ENABLED%	Default: Yes Options: Yes/No	Ability to set screen saver on device.
%SCREEN_SAVER_ICON%	Default: Clock Options: Download Picture/Logo/Clock	Ability to set screen saver type.
%SCREEN_SAVER_REFRESH_PERIOD%	Default: 6 Range: 1-999999	Optional. Time in seconds to refresh the screen saver.
%SCREEN_SAVER_WAIT%	Default: 300 Range: 30-65535	Optional: Time in seconds to wait to display screen saver.
%SBC_ADDRESS_1%	IP address/FQDN or blank	SBC FQDN/IP server address or Primary AS IP Address.
%SBC_ADDRESS_2%	IP address/FQDN or blank	Alternate SBC IP address or Alternate AS IP Address.
%SECOND_PREFERRED_CODED%	Default: G722 Values: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC	Secondary Codec Offered/Preferred: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC.
%SHARED_ACTIVE_KEY_LIST%	Default: newcall|1;barge|2;cfwd|3;dnd|4	PSK settings for “Shared Call Active” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%SHARED_HELD_KEY_LIST%	Default: resume|1;barge|2;cfwd|3;dnd|4	PSK settings for “Shared Call Held” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.*
%SHARED-LINE-DND-CFWD-ENABLE%	Default: Yes Options: Yes/No	Enable/Disable the ability to display DND/CFWD soft keys. Note: ONLY valid for 10.3.1.

Tag Name	Valid Settings	Description
%SIP_AUTH_REALM%	BroadWorks Default Realm Value	If SIP Auth Realm is enabled on BroadWorks AS, value should be equal to: AS_CLI/Interface/SIP/defaultRealm
%SIP_TCP_MAX%	Default: 5080 Range: 1-65535	SIP TCP max port range used.
%SIP_TCP_MIN%	Default: 5060 Range: 1-65535	SIP TCP min port range used.
%SIP_TRANSPORT-x%	Default: UDP Options: UDP/TCP/TLS	SIP transport per line. Example Tag: ▪ SIP_TRANSPORT-1 ▪ SIP_TRANSPORT-2 Note: x represents number of lines supported on device. ▪ 7821 supports 2 lines ▪ 7841 supports 4 lines ▪ 7861 supports 16 lines
%SIP_UDP_PORT-x%	Default: UDP Range: 1-65535	Extension SIP UDP Listening Port. Example Tag: ▪ SIP_UDP_PORT-1 ▪ SIP_UDP_PORT-2 Note: x represents number of lines supported on device. ▪ 7821 supports 2 lines ▪ 7841 supports 4 lines ▪ 7861 supports 16 lines
%START-CONF_KEY_LIST%	Default: hold|1;endcall|2;conf|3;toggle;	PSK settings for “Conference Call” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%START-XFER_KEY_LIST%	Default: hold|1;endcall|2;xfer|4;toggle;	PSK settings for “Call Transfer” call state. For more information, see the *Cisco IP Phone MPP Series Multiplatform Phones Administration Guide*.
%STUN_SERVER%	String	Optional: Use if device is deployed in environment without SBC or SIP ALG.
%TEXT_LOGO%	Branding Text Logo	This tag is optional. Add for 3rd Party Branding allowing for text logos to appear on device. String value of to 255 characters in length.
%THIRD_PREFERRED_CODEC%	Default: G722 Values: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC	Secondary Codec Offered/Preferred: G722/G722.2/G711u/G711a/G729a/G729ab/iLBC.

Tag Name	Valid Settings	Description
%TRY_BACKUP_RSC%	Set it SIP INVITE final response values to trigger failover, for example, 5??,6??. Or Leave blank	This tag is optional. When setting to blank, the device does not failover based SIP final response. When setting to final response value, the device could failover based on SIP final response.
%USE_LINE_KEYS_FOR_BLF%	Default: Yes Options: Yes/No	Ability to control auto indexing of BLK Programmable Line Keys. When "Yes", use the device's unused PLK. When "No", use an attached KEM.
%USE_PREFERRED_CODEC_ONLY%	Default: No Options: Yes/No	Control how a SIP line negotiates audio. When "Yes", use only defined codecs.
%VM_SUBSCRIBE_INTERVAL%	String (0-65535) Default: 3600	Time in seconds for VM Subscription interval.
%XSIPASSWORD-x%	String (0-65535) Default: Leave Blank	XSI server user password.
%BROADSOFT_HOTELING_ENABLE-x%	Options: Yes/No	Ability to control the DUT support for Cisco BroadWorks Hoteling feature.
%BROADSOFT_ACD_ENABLE-x%	Options: Yes/No	Ability to control the DUT support for Cisco BroadWorks ACD feature.
%FIRMWARE_VERSION_CP-7832-3PCC%	File name of the loads file	Firmware load filename: Example: sip7832.11-2-3MPP-398.loads Note: Firmware files cannot be renamed.
%8800_LOGO_PIC%	File name of the logo picture	Filename of logo picture.
%FIRMWARE_VERSION_CP-8800-3PCC%	File name of the loads file	Firmware load filename: Example: sip88xx.11-2-3MPP-398.loads Note: Firmware files cannot be renamed.
%FIRMWARE_VERSION_CP-6800-3PCC%	File name of the loads file	Firmware load filename: Example: sip68xx.11-2-3MPP-398.loads Note: Firmware files cannot be renamed.
%6800_LOGO_PIC%	File name of the logo picture	File name of logo picture.
%FIRMWARE_VERSION_CP-88x5-3PCC%	File name of the loads file	Firmware load filename: Example: sip8845_65.11-2-3MPP-398.loads Note: Firmware files cannot be renamed.

Tag Name	Valid Settings	Description
%FIRMWARE_VERSION_CP-8875-3PCC%	File name of the loads file	Firmware load filename: Example: sip8875_135bb96c52dev.pkg Note: Firmware files cannot be renamed.
%Anywhere_Enable_1%	Options: Yes/No	To enable BroadWorks Anywhere feature.
%Block_CID_Enable_1_%	Options: Yes/No	To enable Caller ID/Line ID Blocking Feature.
%Block_Nonproxy_SIP%	Options: Yes/No	To block Non-Proxy SIP messages.
%CallLog_Associated_Line%	Options: 1 to 10	Specify Line associated with CallLog.
%CallLog_Enabled%	Options: Yes/No	To enable CallLog.
%Display_Recents_From%	Options: Phone/Server	Shows CallLog Recents from.
%Exec_Assistant_Call_Initiate_code%	The # or * code that you want to be used for the function. Default: #64	Initiates a call on behalf of an executive from the user's (assistants) extension.
%Exec_Assistant_Call_Push_Code%	The # or * code that you want to be used for the function.	For assistants to transfer an ongoing call to an executive.
%Exec_Assistant_Key_List%	proxycall	Enables assistants to initiate calls on behalf of executives, from the *Settings → Executive menu*.
%Exec_Call_Bridge_Code%	The # or * code that you want to be used for the function. Default: *15	For executives who have assistants: Joins the user (executive) to an ongoing call with an assistant. For executive assistants: Joins the user (assistant) to an ongoing call with an executive.
%Exec_Call_Filter_Act_Code%	The # or * code that you want to be used for the function. Default: #61	For executives who have assistants: Activates call filtering. When call filtering is on, assistants receive incoming calls for executives.
%Exec_Call_Filter_Deact_Code%	The # or * code that you want to be used for the function. Default: #62	For executives who have assistants: Deactivates call filtering.
%Exec_Call_Retrieve_Code%	The # or * code that you want to be used for the function. Default: *11	For executives who have assistants: Transfers an ongoing call from an assistant to the user (executive). For executive assistants: Transfers an ongoing call from the executive to the user (assistant).
%Login_Password_1_%	Standard BroadWorks Password Guidelines	BroadWorks Anywhere Password.
%Login_User_ID_1_%	Standard BroadWorks Password Guidelines	BroadWorks Anywhere Username.

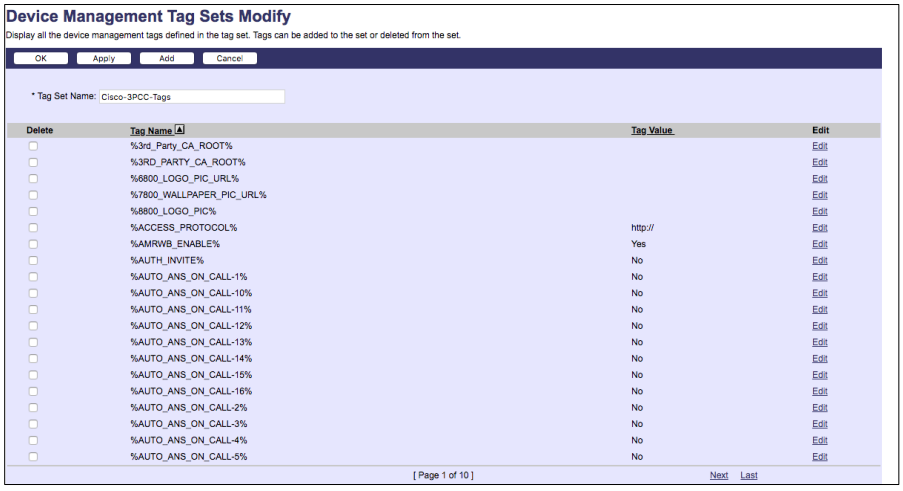
Tag Name	Valid Settings	Description
%Microphone_Gain%	Slider (softer to louder)	Microphone Gain.
%Peer_Firmware_Sharing_Log_Server%	IP Address	PFS Log Server.
%Peer_Firmware_Sharing%	Options: Yes/No	To enable PFS. For more information, see the *Cisco IP Phone 8800 Series Multiplatform Phone Administration Guide.*
%Privacy_Header_1_%	Disabled/none/header/ session/user/id	To configure network-provided privacy.
%Profile_Account_Enable%	Options: Yes/No	To configure authentication for 401 challenges.
%Sidetone%	Very Low/Low/High	Audible feedback to a user speaking on headset or handset during a call.
%SIP_Transport_1_%	UDP/TCP/TLS/Auto	SIP Transport Setting.
%Tune_speaker%	Slider (Warmer to Brighter)	User can increase/decrease speaker EQ levels.
%Video_RTP_TOS_DiffServ_Value_1_%	Default: 0xb8	Allows video packets to carry configurable TOS/DSCP value from 88xx video MPP phones.
%XSI_Authentication_Type_1%	Options: SIP Credentials/Login Credentials	Authentication Method.
%XSI_Host_Server_1%	IP Address	XSI Host Server Address.
%Voice_Feedback_Enable%	Options: Yes/No Default: No	
%DIRECTORY_TYPE%	Options: Enterprise/Group/Personal/Enterprise Common/Group Common Default: Enterprise	Directory types.
%P_EARLY_MEDIA_SUPPORT_N%	Options: Yes/No Default: No	N must be 1 to 16
%XSI_DND_ENABLE_1%	Options: Yes/No Default: No	
%XSI_CFWD_ENABLE_1%	Options: Yes/No Default: No	
%PROFILE_AUTH_TYPE%	Options: Disabled/Basic HTTP Authentication/XSI Authentication Default: Basic HTTP Authentication	
%FIRMWARE_VERSION_CP-6821-3PCC%	File name of the 6821 file.	Firmware load filename: Example: sip6821.11-2-3MPP-398.loads Note that the Firmware files cannot be renamed.

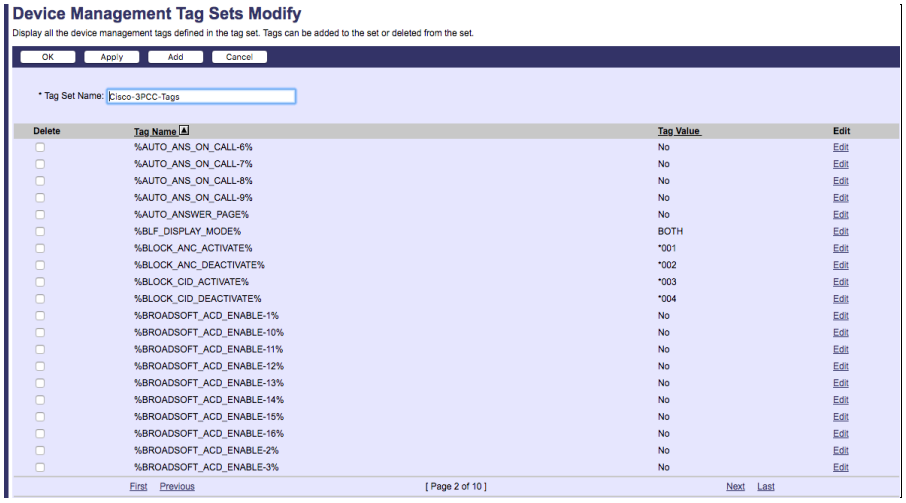
Tag Name	Valid Settings	Description
%FIRMWARE_VERSION_CP-8832-3PCC%	File name of the 8832 loads file	Firmware load filename: Example: Sip8832.11-2-3MPP-398.loads Note that the Firmware files cannot be renamed.
%FIRMWARE_VERSION_CP-6861-3PCC%	File name of the 6861 loads file	Firmware load filename: Example: sip6861.11-2-4MPP-246.loads Note that the Firmware files cannot be renamed.
%FIRMWARE_VERSION_CP-6871-3PCC%	File name of the 6871 loads file	Firmware load filename: Example: sip6871.11-3-1MPP-697.loads Note that the Firmware files cannot be renamed.
%BLF_LIST_FEATURE_OPTIONS%	Options: prk blf+sd+cp Default: blf+sd+cp	
%MEDIASEC_REQUEST_x%	Options: Yes and No Default: No	Where “x” is the extension line number (ranges from 1 to 16).
%MEDIASEC_OVER_TLS_ONLY_x%	Options: Yes and No Default: No	Where “x” is the extension line number (ranges from 1 to 16).
%SIP_SESSIONID_SUPPORT_x%	Options: Yes and No Default: Yes	Where “x” is the extension line number (ranges from 1 to 16).
%CALL_STATISTICS%	Options: Yes and No Default: Yes	
%USE_LOW_BANDWIDTH_OPUS_#%	Options: Yes and No Default: No	Where “#” is extension line number (ranges from 1 to 16).
%GROUP_#_NAME%	Default: Blank	Where “#” is extension line number (ranges from 1 to 16).
%PAGING_GRP_1%	Default: pggrp=224.168.168.168:34560;name=All;num=800;listen=yes;	
%CUSTOM_LED_TYPE%	Options: Default, Preset 1, Custom Default: Default	

Tag Name	Valid Settings	Description
%DISABLED_LED% %IDLE_LED% %REMOTE_UNDEFINED_LED% %LOCAL_SEIZED_LED% %REMOTE_SEIZED_LED% %LOCAL_PROGRESSING_LED% %REMOTE_PROGRESSING_LED% %LOCAL_RINGING_LED% %REMOTE_RINGING_LED% %LOCAL_ACTIVE_LED% %REMOTE_ACTIVE_LED% %LOCAL_HELD_LED% %REMOTE_HELD_LED% %REGISTER_FAILED_LED% %REGISTERING_LED%	Options blank and string_pattern Default: blank	
%APPLICATION_LED% %SERV_SUBSCRIBE_FAILED_LED% %SERV_SUBSCRIBING_LED% %PARKING_LOT_IDLE_LED% %PARKING_LOT_BUSY_LED% %BLF_IDLE_LED% %BLF_RINGING_LED% %BLF_BUSY_LED% %BLF_HELD_LED%	Options blank and string_pattern Default: blank	
%CONF_UPLOAD_NAME%	String format: $MA-confup.xml	
%HTTP_REPORT_METHOD%	Options: PUT, POST Default: POST	
%REPORT_TO_SERVER%	Options: On Request, On Local Change, Periodically Default: On Request	
%PERIODIC_UPLOAD_TIMER%	The value (in seconds) ranges from 600 to 259200. Default: 3600	
%UPLOAD_DELAY_ON_LOCAL_CHANGE%	An integer ranging between 10 and 900. Default: 60	

Tag Name	Valid Settings	Description
%PRT_UPLOAD_METHOD%	Options: PUT, POST Example: PUT	
%PRT_NAME%	String format: prt-$MA-up	
%BROWSE_MODE_ENABLE%	Options: Yes, No Default: Yes	
%MAX_DISPLAY_RECORDS%	Range: 50 to 999 Default: 50	
%XSIDIR_INDIVIDUAL_MODE_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_PERSONAL_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_PERSONAL_NAME%	Default: Empty	
%XSIDIR_GROUP_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_GROUP_NAME%	Default: Empty	
%XSIDIR_ENTERPRISE_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_ENTERPRISE_NAME%	Default: Empty	
%XSIDIR_GROUPCOMMON_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_GROUPCOMMON_NAME%	Default: Empty	
%XSIDIR_ENTERPRISECOMMON_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_ENTERPRISECOMMON_NAME%	Default: Empty	
%ACD_STATUS_1%	Options: Sync From Server Sync From Local Default: Sync From Server	
%AUTO_AVAILABLE_AFTER_SIGN-IN_1%	Options: Yes, No Default: No	

Tag Name	Valid Settings	Description
%PRECONDITION_SUPPORT_x%	Options: Disabled, Enabled Default: Disabled	
%Block_Anonymous_Call_Enable_1%	Options: Yes, No Default: No	
%Call_Waiting_Enable_1%	Options: Yes, No Default: No	
%WEBEX_ONBOARD_ENABLE%	Options: Yes, No Default: Yes	Enable onboarding of the phone to Cloud.
%WEBEX_DIRECTORY_ENABLE%	Options: Yes, No Default: No	Enables Webex directory.
%WEBEX_DIRECTORY_NAME%	Default: Empty	Modifies Webex directory name.
%BB_ICE_STUN_ENABLED%	Options: Yes, No	Use STUN to discover the NAT mapping.
%ICE_STUN_ENABLED%	Options: Yes, No	Use ICE STUN to discover the NAT mapping.
%SECURE_CALL_OPTION-1%	Options: Optional, Required, Strict Default: Optional	Configure an extension to only accept secure calls.
%SECURE_CALL_SERVICE%	Options: Yes, No Default: Yes	Enable secure call service.
% Unit_n_Extension_m_%	Options; 1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled	





Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%AUTO_ANS_ON_CALL-6%	No	Edit
	%AUTO_ANS_ON_CALL-7%	No	Edit
	%AUTO_ANS_ON_CALL-8%	No	Edit
	%AUTO_ANS_ON_CALL-9%	No	Edit
	%AUTO_ANSWER_PAGE%	No	Edit
	%BLF_DISPLAY_MODE%	BOTH	Edit
	%BLOCK_ANC_ACTIVATE%	*001	Edit
	%BLOCK_ANC_DEACTIVATE%	*002	Edit
	%BLOCK_CID_ACTIVATE%	*003	Edit
	%BLOCK_CID_DEACTIVATE%	*004	Edit
	%BROADSOFT_ACD_ENABLE-1%	No	Edit
	%BROADSOFT_ACD_ENABLE-10%	No	Edit
	%BROADSOFT_ACD_ENABLE-11%	No	Edit
	%BROADSOFT_ACD_ENABLE-12%	No	Edit
	%BROADSOFT_ACD_ENABLE-13%	No	Edit
	%BROADSOFT_ACD_ENABLE-14%	No	Edit
	%BROADSOFT_ACD_ENABLE-15%	No	Edit
	%BROADSOFT_ACD_ENABLE-16%	No	Edit
	%BROADSOFT_ACD_ENABLE-2%	No	Edit
	%BROADSOFT_ACD_ENABLE-3%	No	Edit

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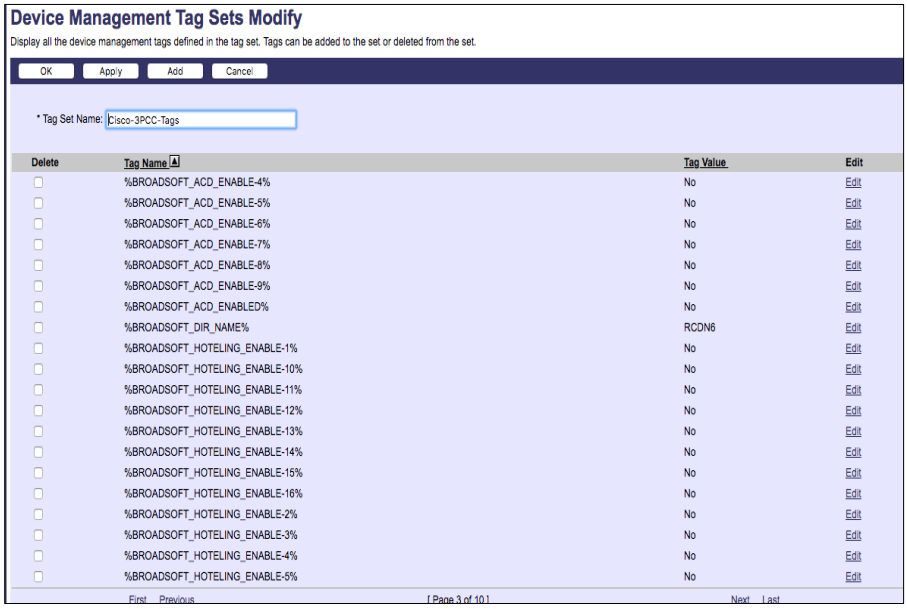

Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%BROADSOFT_ACD_ENABLE-4%	No	Edit
	%BROADSOFT_ACD_ENABLE-5%	No	Edit
	%BROADSOFT_ACD_ENABLE-6%	No	Edit
	%BROADSOFT_ACD_ENABLE-7%	No	Edit
	%BROADSOFT_ACD_ENABLE-8%	No	Edit
	%BROADSOFT_ACD_ENABLE-9%	No	Edit
	%BROADSOFT_ACD_ENABLED%	No	Edit
	%BROADSOFT_DIR_NAME%	RCDN6	Edit
	%BROADSOFT_HOTELING_ENABLE-1%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-10%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-11%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-12%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-13%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-14%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-15%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-16%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-2%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-3%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-4%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-5%	No	Edit

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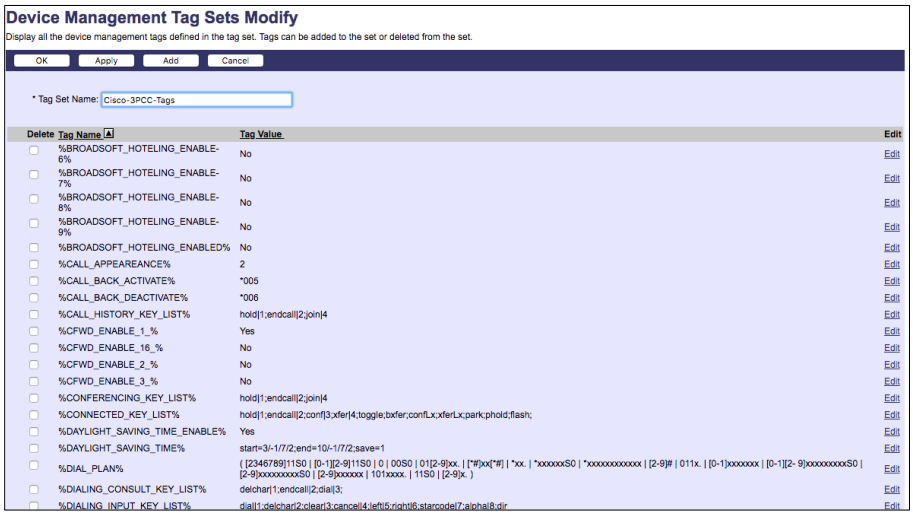


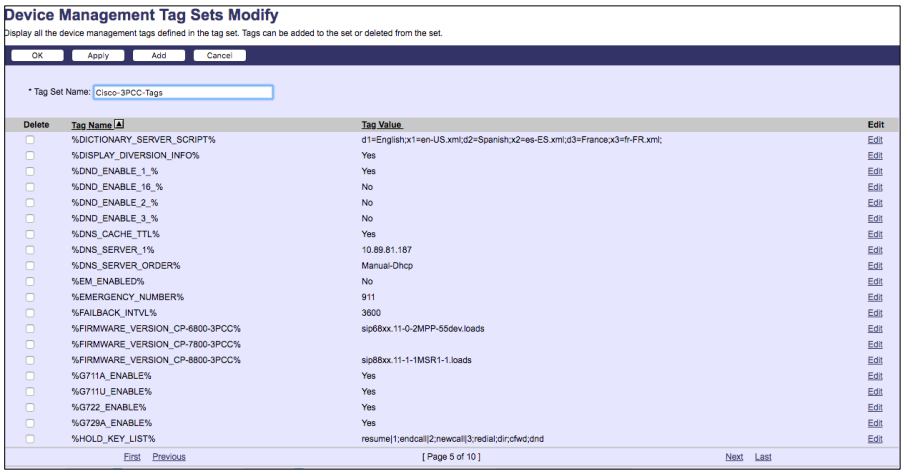
Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%BROADSOFT_HOTELING_ENABLE-6%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-7%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-8%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-9%	No	Edit
	%BROADSOFT_HOTELING_ENABLED%	No	Edit
	%CALL_APPEAREANCE%	2	Edit
	%CALL_BACK_ACTIVATE%	*005	Edit
	%CALL_BACK_DEACTIVATE%	*006	Edit
	%CALL_HISTORY_KEY_LIST%	hold|1;endcall|2;join|4	Edit
	%CFWD_ENABLE_1_%	Yes	Edit
	%CFWD_ENABLE_16_%	No	Edit
	%CFWD_ENABLE_2_%	No	Edit
	%CFWD_ENABLE_3_%	No	Edit
	%CONFERENCING_KEY_LIST%	hold|1;endcall|2;join|4	Edit
	%CONNECTED_KEY_LIST%	hold|1;endcall|2;conf|3;xfer|4;toggle;bxfer;confLx;xferLx;park;phold;flash;	Edit
	%DAYLIGHT_SAVING_TIME_ENABLE%	Yes	Edit
	%DAYLIGHT_SAVING_TIME%	start=3/-1/7/2;end=10/-1/7/2;save=1	Edit
	%DIAL_PLAN%	([2346789]11S0 | [0-1][2-9]11S0 | 0 | 00S0 | 01[2-9]xx. | [*#]xx[*#] | *xx. | *xxxxxxS0 | *xxxxxxxxxxxx | [2-9]# | 011x. | [0-1]xxxxxxx | [0-1][2- 9]xxxxxxxxxS0 | [2-9]xxxxxxxxS0 | [2-9]xxxxxx | 101xxxx. | 11S0 | [2-9]x.)	Edit
	%DIALING_CONSULT_KEY_LIST%	delchar|1;endcall|2;dial|3;	Edit
	%DIALING_INPUT_KEY_LIST%	dial|1;delchar|2;clear|3;cancel|4;left|5;right|6;starcode|7;alpha|8;dir	Edit



Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%DICTIONARY_SERVER_SCRIPT%	d1=English;x1=en-US.xml;d2=Spanish;x2=es-ES.xml;d3=France;x3=fr-FR.xml;	Edit
	%DISPLAY_DIVERSION_INFO%	Yes	Edit
	%DND_ENABLE_1_%	Yes	Edit
	%DND_ENABLE_16_%	No	Edit
	%DND_ENABLE_2_%	No	Edit
	%DND_ENABLE_3_%	No	Edit
	%DNS_CACHE_TTL%	Yes	Edit
	%DNS_SERVER_1%	10.89.81.187	Edit
	%DNS_SERVER_ORDER%	Manual-Dhcp	Edit
	%EM_ENABLED%	No	Edit
	%EMERGENCY_NUMBER%	911	Edit
	%FAILBACK_INTVL%	3600	Edit
	%FIRMWARE_VERSION_CP-6800-3PCC%	sip68xx.11-0-2MPP-55dev.loads	Edit
	%FIRMWARE_VERSION_CP-7800-3PCC%		Edit
	%FIRMWARE_VERSION_CP-8800-3PCC%	sip88xx.11-1-1MSR1-1.loads	Edit
	%G711A_ENABLE%	Yes	Edit
	%G711U_ENABLE%	Yes	Edit
	%G722_ENABLE%	Yes	Edit
	%G729A_ENABLE%	Yes	Edit
	%HOLD_KEY_LIST%	resume|1;endcall|2;newcall|3;redial;dir;cfwd;dnd	Edit

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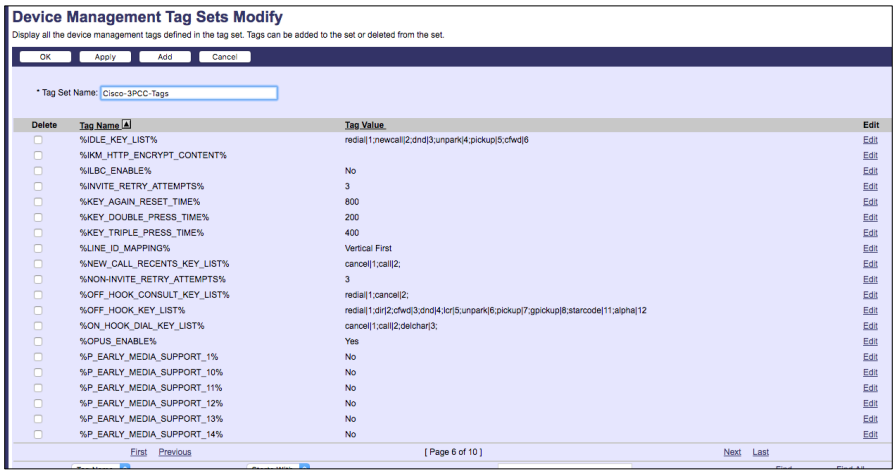

Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%IDLE_KEY_LIST%	redial|1;newcall|2;dnd|3;unpark|4;pickup|5;cfwd|6	Edit
	%IKM_HTTP_ENCRYPT_CONTENT%		Edit
	%ILBC_ENABLE%	No	Edit
	%INVITE_RETRY_ATTEMPTS%	3	Edit
	%KEY_AGAIN_RESET_TIME%	800	Edit
	%KEY_DOUBLE_PRESS_TIME%	200	Edit
	%KEY_TRIPLE_PRESS_TIME%	400	Edit
	%LINE_ID_MAPPING%	Vertical First	Edit
	%NEW_CALL_RECENTS_KEY_LIST%	cancel|1;call|2;	Edit
	%NON-INVITE_RETRY_ATTEMPTS%	3	Edit
	%OFF_HOOK_CONSULT_KEY_LIST%	redial|1;cancel|2;	Edit
	%OFF_HOOK_KEY_LIST%	redial|1;dir|2;cfwd|3;dnd|4;lcr|5;unpark|6;pickup|7;gpickup|8;starcode|11;alpha|12	Edit
	%ON_HOOK_DIAL_KEY_LIST%	cancel|1;call|2;delchar|3;	Edit
	%OPUS_ENABLE%	Yes	Edit
	%P_EARLY_MEDIA_SUPPORT_1%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_10%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_11%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_12%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_13%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_14%	No	Edit

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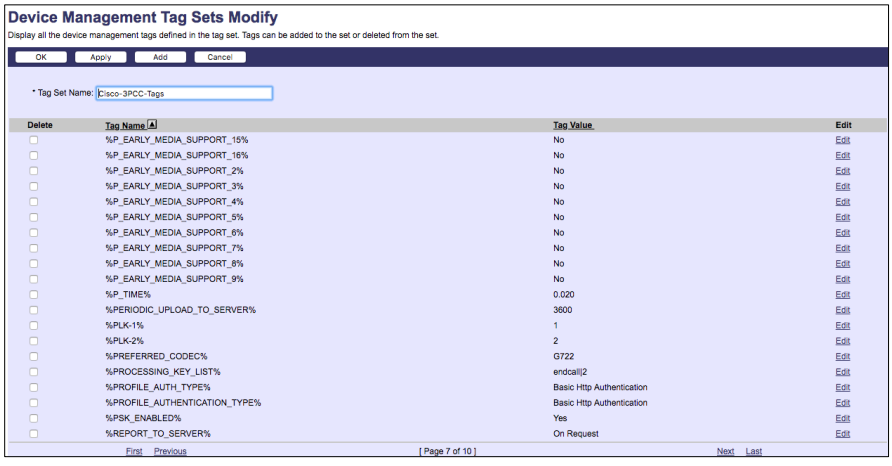

Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK | Apply | Add | Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%P_EARLY_MEDIA_SUPPORT_15%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_16%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_2%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_3%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_4%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_5%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_6%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_7%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_8%	No	Edit
	%P_EARLY_MEDIA_SUPPORT_9%	No	Edit
	%P_TIME%	0.020	Edit
	%PERIODIC_UPLOAD_TO_SERVER%	3600	Edit
	%PLK-1%	1	Edit
	%PLK-2%	2	Edit
	%PREFERRED_CODEC%	G722	Edit
	%PROCESSING_KEY_LIST%	endcall|2	Edit
	%PROFILE_AUTH_TYPE%	Basic Http Authentication	Edit
	%PROFILE_AUTHENTICATION_TYPE%	Basic Http Authentication	Edit
	%PSK_ENABLED%	Yes	Edit
	%REPORT_TO_SERVER%	On Request	Edit

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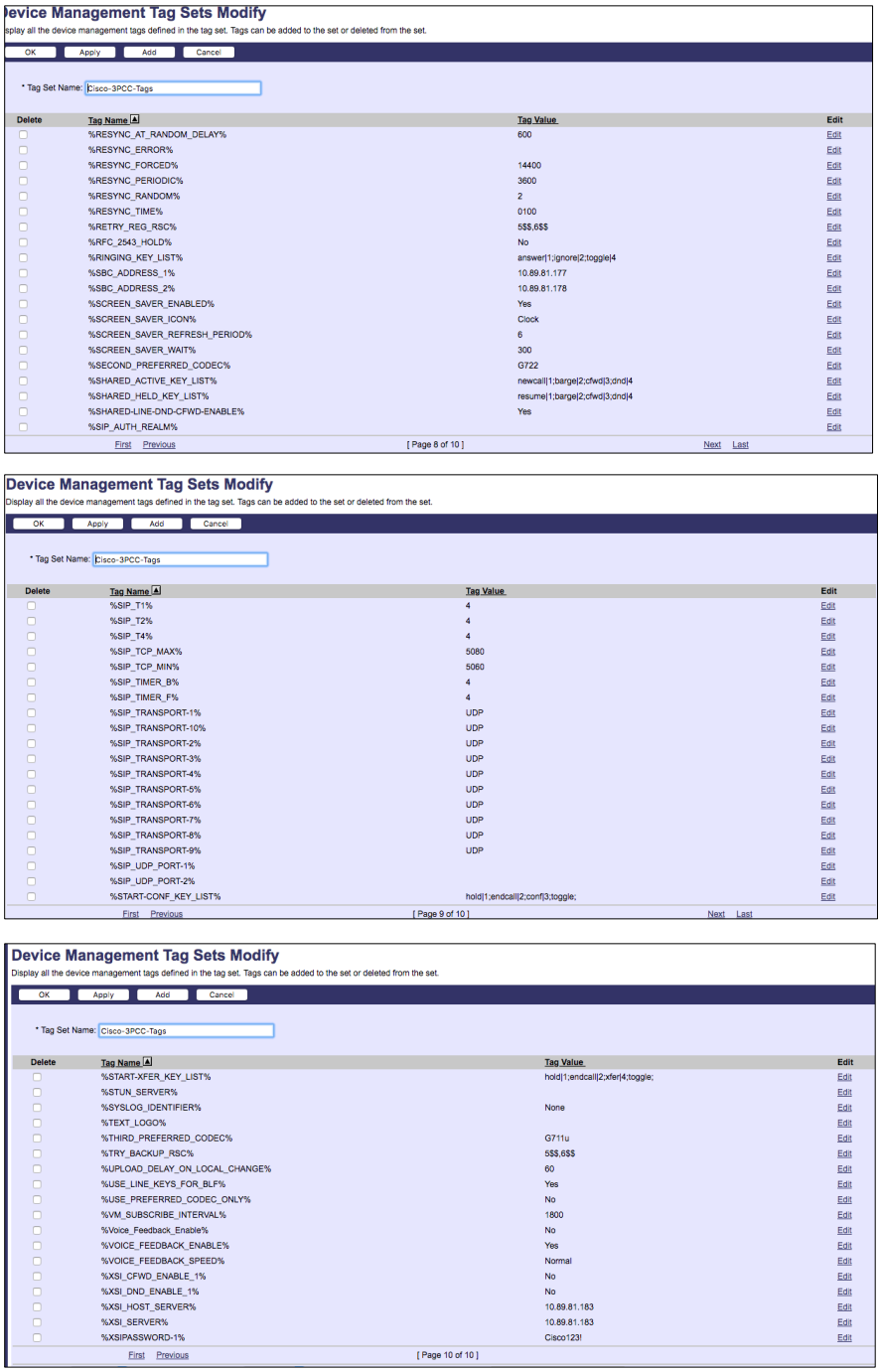

evice Management Tag Sets Modify

splay all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK Apply Add Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%RESYNC_AT_RANDOM_DELAY%	600	Edit
	%RESYNC_ERROR%		Edit
	%RESYNC_FORCED%	14400	Edit
	%RESYNC_PERIODIC%	3600	Edit
	%RESYNC_RANDOM%	2	Edit
	%RESYNC_TIME%	0100	Edit
	%RETRY_REG_RSC%	5$$,6$$	Edit
	%RFC_2543_HOLD%	No	Edit
	%RINGING_KEY_LIST%	answer|1;ignore|2;toggle|4	Edit
	%SBC_ADDRESS_1%	10.89.81.177	Edit
	%SBC_ADDRESS_2%	10.89.81.178	Edit
	%SCREEN_SAVER_ENABLED%	Yes	Edit
	%SCREEN_SAVER_ICON%	Clock	Edit
	%SCREEN_SAVER_REFRESH_PERIOD%	6	Edit
	%SCREEN_SAVER_WAIT%	300	Edit
	%SECOND_PREFERRED_CODEC%	G722	Edit
	%SHARED_ACTIVE_KEY_LIST%	newcall|1;barge|2;cfwd|3;dnd|4	Edit
	%SHARED_HELD_KEY_LIST%	resume|1;barge|2;cfwd|3;dnd|4	Edit
	%SHARED-LINE-DND-CFWD-ENABLE%	Yes	Edit
	%SIP_AUTH_REALM%		Edit

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Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK Apply Add Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%SIP_T1%	4	Edit
	%SIP_T2%	4	Edit
	%SIP_T4%	4	Edit
	%SIP_TCP_MAX%	5080	Edit
	%SIP_TCP_MIN%	5060	Edit
	%SIP_TIMER_B%	4	Edit
	%SIP_TIMER_F%	4	Edit
	%SIP_TRANSPORT-1%	UDP	Edit
	%SIP_TRANSPORT-10%	UDP	Edit
	%SIP_TRANSPORT-2%	UDP	Edit
	%SIP_TRANSPORT-3%	UDP	Edit
	%SIP_TRANSPORT-4%	UDP	Edit
	%SIP_TRANSPORT-5%	UDP	Edit
	%SIP_TRANSPORT-6%	UDP	Edit
	%SIP_TRANSPORT-7%	UDP	Edit
	%SIP_TRANSPORT-8%	UDP	Edit
	%SIP_TRANSPORT-9%	UDP	Edit
	%SIP_UDP_PORT-1%		Edit
	%SIP_UDP_PORT-2%		Edit
	%START-CONF_KEY_LIST%	hold|1;endcall|2;confj3;toggle;	Edit

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Device Management Tag Sets Modify

Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set.

OK Apply Add Cancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name	Tag Value	Edit
	%START-XFER_KEY_LIST%	hold|1;endcall|2;xfer|4;toggle;	Edit
	%STUN_SERVER%		Edit
	%SYSLOG_IDENTIFIER%	None	Edit
	%TEXT_LOGO%		Edit
	%THIRD_PREFERRED_CODEC%	G711u	Edit
	%TRY_BACKUP_RSC%	5$$,6$$	Edit
	%UPLOAD_DELAY_ON_LOCAL_CHANGE%	60	Edit
	%USE_LINE_KEYS_FOR_BLF%	Yes	Edit
	%USE_PREFERRED_CODEC_ONLY%	No	Edit
	%VM_SUBSCRIBE_INTERVAL%	1800	Edit
	%Voice_Feedback_Enable%	No	Edit
	%VOICE_FEEDBACK_ENABLE%	Yes	Edit
	%VOICE_FEEDBACK_SPEED%	Normal	Edit
	%XSI_CFWD_ENABLE_1%	No	Edit
	%XSI_DND_ENABLE_1%	No	Edit
	%XSI_HOST_SERVER%	10.89.81.183	Edit
	%XSI_SERVER%	10.89.81.183	Edit
	%XSIPASSWORD-1%	Cisco123!	Edit

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Figure 80 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 system administrator creates the device profile type. 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 the following prerequisites are met:

- The 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* [2] 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 Cisco MPP Series as a Device Management-enabled device type. Also, see the *Cisco BroadWorks CPE Kit Usage Guide* [2].

Download the Cisco Common IDT for Cisco MPP Series phones, that is, *CP-78xx-88xx-68xx-3PCC* CPE kit from cisco.com. Extract the DTAF file(s) from the CPE kit. These are the import files. Repeat the following steps for each model you wish to import.

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

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

4) Browse to *System* → *Resources* → *Identity/Device Profile Types*.
5) Perform a search to find the imported Cisco device profile type, Cisco-CP-78xx-88xx-68xx-3PCC.
6) Browse to the *Profile* page and change the Device Management Device Access FQDN to your Xtended Services Platform (Xsp) or Xtended Services Platform cluster address.

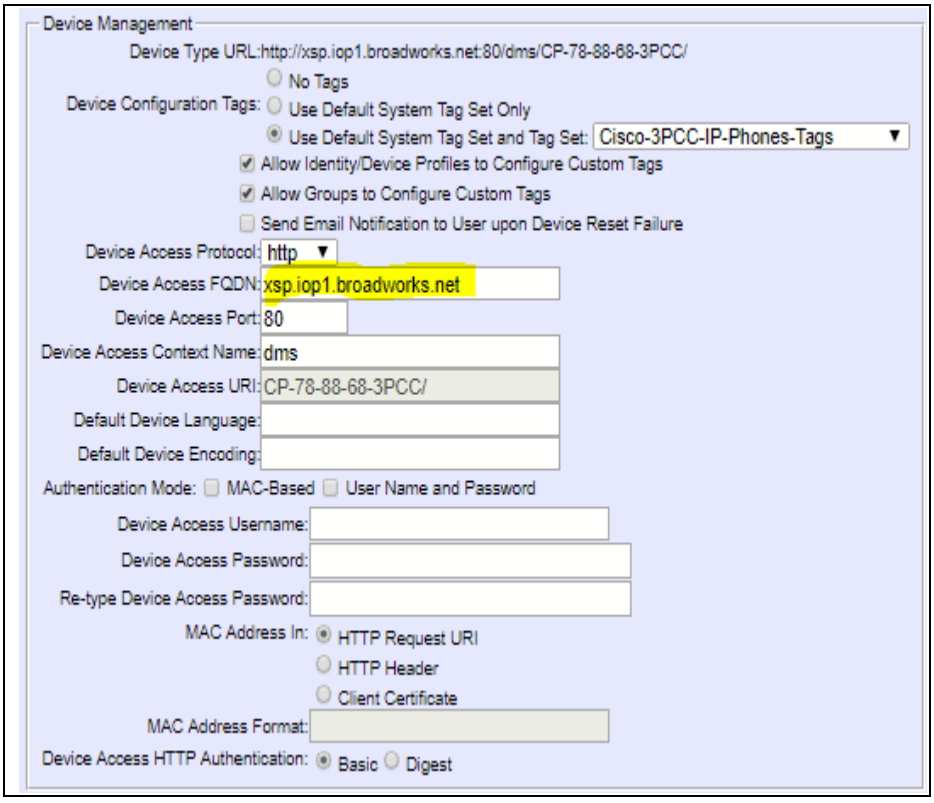

Figure 81 Device Access FQDN

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

   Firmware files must be obtained from Cisco. These files are not included in the import. Complete the steps in section *5.2.2.2.2 Define Device Profile Type Files* to define the static firmware files and to upload the firmware.

> **NOTE**: The non-firmware static files in section *5.2.2.2.2 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.

9) Update the device profile type language setting according to instructions provided in section *5.2.2.2.2.6.1 Language Mapping*.

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 Cisco MPP 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* [2] 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 Cisco Common Profile type covering MPP Series.

Browse to *System → Resources → Identity/Device Profile Types* and perform a search to find the Cisco 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 Cisco MPP Series downloads.

Configuration templates, firmware, and other files the MPP Series uses must be uploaded to Cisco BroadWorks. Download the common *Cisco-CP-78xx-88xx-68xx-3PCC* CPE kit from cisco.com. Extract the configuration files from the *Configuration Files* folder of CPE kit. Obtain the firmware files directly from Cisco.

The following table identifies the Cisco configuration files distributed with the 11.2.3 CPE kit.

File Name	CPE Kit Template File Name	File Type	Description
CiscoDev-3PCC_Bootstrap.xml	*CiscoDev-3PCC_Bootstrap.xml*	System-level	These files are referred to as the default template files. They contain the Profile Rule settings for the MPP Series phone models.

File Name	CPE Kit Template File Name	File Type	Description
CiscoDev_Type<Family>.xml	*CiscoDev_Type68xx.xml* *CiscoDev_Type6821.xml* *CiscoDev_Type6861.xm* *CiscoDev_Type6871.xml* *CiscoDev_Type78xx.xml* *CiscoDev_Type7832.xml* *CiscoDev_Type88xx.xml* *CiscoDev_Type8832.xml* *CiscoDev_Type88x5.xml* *CiscoDev_Type8875.xml*	Family/System-level	These files contain the family-specific parameters. This includes the upgrade rule.
CiscoDev_System.xml	*CiscoDev_System.xml*	System-level	These files are referred to as the system template files. They contain the system settings common to the phone model type.
%BWMACADDRESS%_CiscoDev.xml	*<MAC>_CiscoDev.xml*	Device-specific	This file is referred to as the user template file. It contains the phone or user-specific settings for the phone. There is a MAC template file in the CPE kit for each Cisco phone mode. These files are referred to as the line key template files. They contain the line key data for the specific phone.
TimeZoneAliasLabels_<model>.properties	*TimeZoneAliasLabels_ - CiscoDev.properties*	Time Zone Alias	The time zone alias file is a BroadWorks Device Management file used to map time zone identifiers between Cisco BroadWorks and Cisco devices. A time zone alias file is required for each model.
%BWMACADDRESS%-confup.xml	*<MAC>-confup.xml*	Device-specific	The device-specific file documents the current settings used by the phone. These phone configuration files will be uploaded onto the server using HTTP PUT message on local change, request or periodically depending on parameter <Report To Server>.
prt-%BWMACADDRESS%-up.tar.gz	*prt-<MAC>-up.tar.gz*	Device-specific	These PRT files are generated by the PRT option on LCD or Web interface.

The firmware files that the Cisco MPP Series Phone downloads from the server are not provided in the CPE kit and must be obtained from Cisco. For list of firmware files, see section *5.2.2.2.2.4 Static Files*5.2.2.2.2.3.

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

5.2.2.2.2.1 System Files

This section identifies the system-level files used by Cisco MPP Series and provides instructions for defining the files and uploading for Device Management.

This section covers the following system-level Device Per-Type files:

- *CiscoDev-3PCC_Bootstrap.xml*
- *CiscoDev_System.xml*
- *CiscoDev_Type68xx.xml*
- *CiscoDev_Type6821.xml*
- *CiscoDev_Type6861.xml*
- *CiscoDev_Type6871.xml*
- *CiscoDev_Type78xx.xml*
- *CiscoDev_Type7832.xml*
- *CiscoDev_Type88xx.xml*
- *CiscoDev_Type88x5.xml*
- *CiscoDev_Type8875.xml*
- *CiscoDev_Type8832.xml*

Add the system files to the device profile type with the settings shown in *Figure 82.*

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

Figure 82 CiscoDev-3PCC_Bootstrap.xml File Settings

5.2.2.2.2.2 Device-Specific Files

This section identifies the device-specific files used by Cisco MPP Series and provides instructions for defining and uploading the files for Device Management.

This section covers the following system-level files and topics:

- *<MAC>_CiscoDev.xml*

Add the *<MAC>_CiscoDev.xml* file to the device profile type with the settings shown in *Figure 83*.

After defining the device-specific file type, upload the corresponding device-specific file extracted from the CPE kit. Use the **Browse** button on the file definition screen. Be sure to click **Apply** after uploading the file.

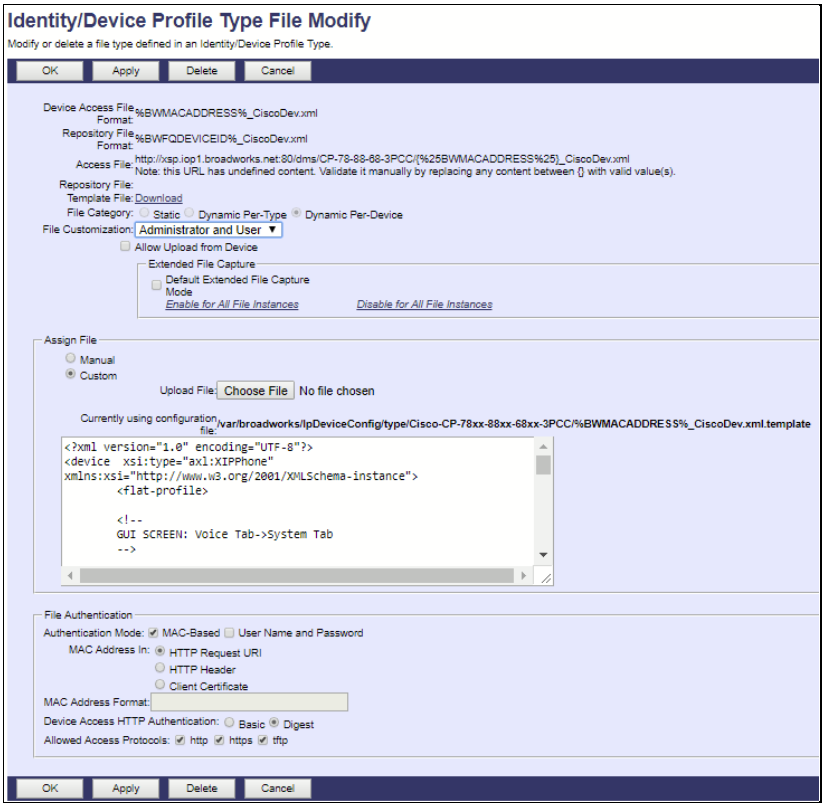

Figure 83 <MAC>_CiscoDev.xml File Setting

5.2.2.2.2.3 Upload Files

The Cisco phone uploads files to the server via HTTP PUT message.

- <MAC>-confup.xml

The configuration file that the phone is currently using can be uploaded on local change, request, or periodically configured by the parameter <Report To Server>.

- prt-<MAC>-up.tar.gz

The file (prt-<MAC>-up.tar.gz can be uploaded by the generation of problem report tool (PRT).

Add a Cisco BroadWorks device profile type file to the Cisco device profile for both the %BWMACADDRESS%-confup.xml and prt-%BWMACADDRESS%-up.tar.gz files using the settings described in the following figure in case there is none in the CPE kit.

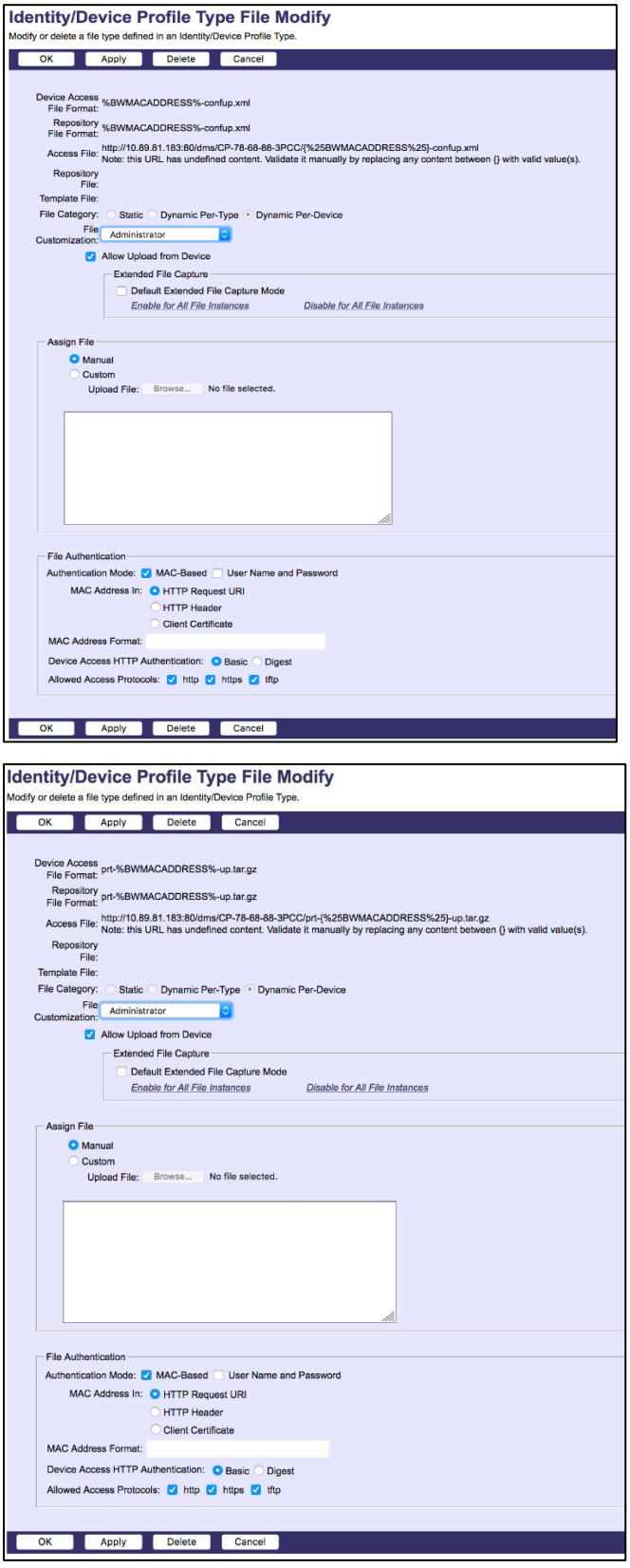

Figure 84 Upload File Settings

5.2.2.2.2.4 Static Files

Static files are files such as firmware and media files that are not configurable and/or do not make use of the dynamic Cisco BroadWorks Device Management tags.

The Cisco MPP Series requires the following static firmware files. (This is for reference only; latest firmware file names can be different. For up-to-date firmware file versions see the following links):

- *sip68xx. 12-0-3MPP0001-87.loads (for the 6800 Devices)*
- *sip6821. 12-0-3MPP0001-87.loads (for the 6821 Devices)*
- *sip78xx. 12-0-3MPP0001-87.loads (for the 7800 Devices)*
- *sip7832. 12-0-3MPP0001-87.loads (for the 7832 Devices)*
- *sip88xx. 12-0-3MPP0001-87.loads (for the 8800 Devices)*
- *sip8845_65. 12-0-3MPP0001-87.loads (for the 8845 and 8865 Devices)*
- *PHONEOS-8875.2-2-1-0001-11-8.loads (for Cisco Video Phone 8875)*
- *PHONEOS-8875.2-2-1-0001-11-8.pkg (for Cisco Video Phone 8875)*
- *sip8832. 12-0-3MPP0001-87.loads (for the 8832 Devices)*

Add the static files to the device profile type with the settings shown in *Figure 85*.

After creating the device profile type file, upload *static files* obtained from Cisco.

To get the static files (Firmware Files for IP Phones), see the following links.

- Cisco IP Phones 6800 Series: https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-6800-series-multiplatform-firmware/tsd-products-support-series-home.html
- Cisco IP Phones 7800 Series: https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-7800-series-multiplatform-firmware/tsd-products-support-series-home.html
- Cisco IP Phones 8800 Series: https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-8800-series-multiplatform-firmware/tsd-products-support-series-home.html
- Cisco Video Phone 8875: https://www.cisco.com/c/en/us/support/collaboration-endpoints/unified-ip-phone-8800-series/series.html

Use the **Browse** button on the file definition screen. Be sure to click **Apply** after uploading the file.

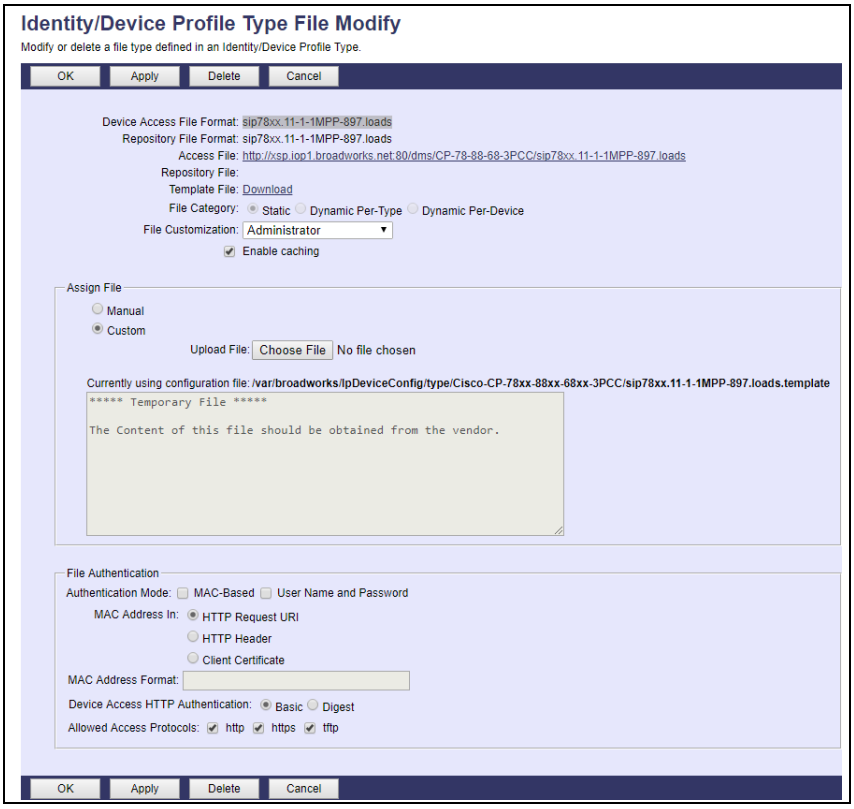

Figure 85 Static Load File

Note that Cisco MPP Series also requires the following static files. Contact Cisco for the files.

- kernel6821.12-0-3MPP0001-87.sbn
- miniroot6821.12-0-3MPP0001-87.sbn
- prelo6821.AL128m-01-03P.sbn
- rootfs6821.12-0-3MPP0001-87.sbn
- sboot6821.AL-01-10P.sbn
- kernel2.68xx.12-0-3MPP0001-87.sbn
- kernel2.6861.12-0-3MPP0001-87.sbn
- kernel2.6871.12-0-3MPP0001-87.sbn
- rootfs2.68xx.12-0-3MPP0001-87.sbn
- rootfs2.6861.12-0-3MPP0001-87.sbn
- rootfs2.6871.12-0-3MPP0001-87.sbn
- sboot2.68xx.12-0-3MPP0001-87.sbn
- sboot2.6861.12-0-3MPP0001-87.sbn
- sboot2.6871.12-0-3MPP0001-87.sbn

- kernel2.78xx.12-0-3MPP0001-87.sbn
- rootfs2.78xx.12-0-3MPP0001-87.sbn
- sboot2.78xx.12-0-3MPP0001-87.sbn
- kernel7832.12-0-3MPP0001-87.sbn
- prelo7832.BR-01-06P.sbn
- rootfs7832. 12-0-3MPP0001-87.sbn
- sboot7832.BR-01-11P.sbn
- boot1288xx.BE-01-007P.sbn
- fbi88xx.BE-01-011P.sbn
- kern88xx.12-0-3MPP0001-87.sbn
- kernel288xx.12-0-3MPP0001-87.sbn
- kernel388xx.12-0-3MPP0001-87.sbn
- m0patch288xx.BE-01-001P.sbn
- preloader88xx.BE-01-007P.sbn
- rootfs88xx.12-0-3MPP0001-87.sbn
- rootfs288xx.12-0-3MPP0001-87.sbn
- rootfs388xx.12-0-3MPP0001-87.sbn
- sb288xx.BE-01-028P.sbn
- sb2288xx.BE-01-015P.sbn
- sb2388xx.BE-01-032P.sbn
- ssb288xx.BE-01-007P.sbn
- vc488xx. 12-0-3MPP0001-87.sbn
- fbi8845_65.BEV-01-006P.sbn
- kern8845_65.12-0-3MPP0001-87.sbn
- rootfs8845_65.12-0-3MPP0001-87.sbn
- sb28845_65.BEV-01-020P.sbn
- vc48845_65.12-0-3MPP0001-87.sbn
- *PHONEOS-8875.2-2-1-0001-11-8.loads (for Cisco Video Phone 8875)*
- *PHONEOS-8875.2-2-1-0001-11-8.pkg (for Cisco Video Phone 8875)*

5.2.2.2.2.5 Time Zone Alias File

To properly map the Cisco BroadWorks configured user time zone to the Cisco MPP Series device setting, a mapping file must be created on the Cisco BroadWorks system. This file maps the Cisco BroadWorks user time zone settings to the device's time zone settings. For information about time zone mapping for the device profile type, see the *BroadWorks Device Management Configuration Guide* [2].

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_Cisco-CP-78xx-88xx-68xx-3PCC.properties

The file must contain the mapping of Cisco BroadWorks time zones values to Cisco MPP Series time zone values. The following is an example of the file contents.

```
US_HAWAII=GMT-10:00
US_ALASKA=GMT-09:00
CANADA_PACIFIC_TIME=GMT-08:00
MEXICO_PACIFIC_TIME=GMT-08:00
US_PACIFIC_TIME=GMT-08:00
US_ARIZONA=GMT-07:00
CANADA_MOUNTAIN_TIME=GMT-07:00
MEXICO_MOUNTAIN_TIME=GMT-07:00
US_MOUNTAIN_TIME=GMT-07:00
CANADA_CENTRAL_TIME=GMT-06:00
US_CENTRAL_TIME=GMT-06:00
US_INDIANA=GMT-06:00
CANADA_EASTERN_TIME=GMT-05:00
US_EASTERN_TIME=GMT-05:00
CANADA_ALTANTIC_TIME=GMT-04:00
CANADA_NEWFOUNDLAND=GMT-03:30
VENEZUELA_TIME=GMT-04:30
CHILE_TIME=GMT-03:00
ARGENTINA_TIME=GMT-03:00
GREENWICH_MEAN_TIME=GMT-00:00
CENTRAL_EUROPEAN_TIME=GMT+01:00
EASTERN_EUROPEAN_TIME=GMT+02:00
EAST_AFRICAN_TIME=GMT+03:00
IRAN_TIME=GMT+03:30
AZERBAIJAN_TIME=GMT+04:00
AFGHANISTAN_TIME=GMT+04:30
PAKISTAN_TIME=GMT+05:00
```

INDIA_TIME=GMT+05:30

EASTERN_KAZAKHSTAN_TIME=GMT+06:00

MYANMAR_TIME=GMT+06:30

THAILAND_TIME=GMT+07:00

CHINA_TIME=GMT+08:00

JAPAN_TIME=GMT+09:00

AUSTRALIAN_CENTRAL_STANDARD_TIME=GMT+09:30

AUSTRALIAN_EASTERN_STANDARD_TIME=GMT+10:00

NEWZEALAND_TIME=GMT+13:00

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

5.2.2.2.2.6 Language Provisioning

Language provisioning is necessary if using languages other than English. There are two aspects to language provisioning. First, the Cisco phone must be enabled to download the Cisco language files. Second, a mapping is required between the Cisco BroadWorks and Cisco language identifiers.

The following are example language files for 68xx and 78xx:

- ar-SA_78xx_68xx-12.0.3.0001.ttf (Arabic)
- ar-SA_78xx_68xx- 12.0.3.0001.xml (Arabic)
- ar-SA_78xx_BMP-12.0.3.0001.ttf (Arabic)
- ar-SA_6821-12.0.3.0001.ttf (Arabic)
- ar-SA_6821-12.0.3.0001.xml (Arabic)
- ar-SA_6861-12.0.3.0001.ttf (Arabic)
- bg-BG_78xx_68xx-12.0.3.0001.xml (Bulgarian)
- bg-BG_6821-12.0.3.001.xml (Bulgarian)
- ca-ES_78xx_68xx-12.0.3.0001.xml (Catalan-Spain)
- ca-ES_6821-12.0.3.0001.xml (Catalan-Spain)
- cs-CZ_78xx_68xx-12.0.3.0001.xml (Czech)
- cs-CZ_6821-12.0.3.0001.xml (Czech)
- da-DK_78xx_68xx-12.0.3.0001.xml (Dutch)
- da-DK_6821-12.0.3.0001.xml (Dutch)
- de-DE_78xx_68xx-12.0.3.0001.xml (German)
- de-DE_6821-12.0.3.0001.xml (German)
- el-GR_78xx_68xx-12.0.3.0001.xml (Greek)
- el-GR_6821-12.0.3.0001.xml (Greek)

- en-GB_78xx_68xx-12.0.3.0001.xml (English-UK)
- en-GB_6821-12.0.3.0001.xml (English-UK)
- en-US_78xx_68xx-12.0.3.0001.xml (English-US)
- en-US_6821-12.0.3.0001.xml (English-US)
- es-CO_78xx_68xx-12.0.3.0001.xml (Spanish-Colombia)
- es-CO_6821-12.0.3.0001.xml (Spanish-Colombia)
- es-ES_78xx_68xx-12.0.3.0001.xml (Spanish-Spain)
- es-ES_6821-12.0.3.0001.xml (Spanish-Spain)
- fi-FI_78xx_68xx-12.0.3.0001.xml (Finnish)
- fi-FI_6821-12.0.3.0001.xml (Finnish)
- fr-CA_78xx_68xx-12.0.3.0001.xml (French-Canada)
- fr-CA_6821-12.0.3.0001.xml (French-Canada)
- fr-FR_78xx_68xx-12.0.3.0001.xml (French)
- fr-FR_6821-12.0.3.0001.xml (French)
- he-IL_78xx_68xx-12.0.3.0001.ttf (Hebrew)
- he-IL_78xx_BMP-12.0.3.0001.ttf (Hebrew)
- he-IL_78xx_68xx-12.0.3.0001.xml (Hebrew)
- he-IL_6821-12.0.3.0001.ttf (Hebrew)
- he-IL_6821-12.0.3.0001.xml (Hebrew)
- he-IL_6861-12.0.3.0001.ttf (Hebrew)
- hr_HR_78xx_68xx-12.0.3.0001.xml (Croatia)
- hr_HR_6821-12.0.3.0001.xml (Croatia)
- hu-HU_78xx_68xx-12.0.3.0001.xml (Hungarian)
- hu-HU_6821-12.0.3.0001.xml (Hungarian)
- it-IT_78xx_68xx-12.0.3.0001.xml (Italian)
- it-IT_6821-12.0.3.0001.xml (Italian)
- ja-JP_78xx_68xx-12.0.3.0001.ttf (Japanese)
- ja-JP_78xx_68xx-12.0.3.0001.xml (Japanese)
- ja-JP_78xx_BMP-12.0.3.0001.ttf (Japanese)
- ja-JP_6821-12.0.3.0001.ttf (Japanese)
- ja-JP_6821-12.0.3.0001.xml (Japanese)
- ja-JP_6861-12.0.3.0001.ttf (Japanese)
- ko-KR_78xx_BMP-12.0.3.0001.ttf (Korean)
- ko-KR_78xx_68xx-12.0.3.0001.ttf (Korean)
- ko-KR_78xx_68xx-12.0.3.0001.xml (Korean)
- ko-KR_6821-12.0.3.0001.ttf (Korean)

- ko-KR_6861-12.0.3.0001.ttf (Korean)
- ko-KR_6821-12.0.3.0001.xml (Korean)
- nl-NL_78xx_68xx-12.0.3.0001.xml (Netherlands)
- nl-NL_6821-12.0.3.0001.xml (Netherlands)
- nb-NO_78xx_68xx-12.0.3.0001.xml (Norwegian)
- nb-NO_6821-12.0.3.0001.xml (Norwegian)
- pl-PL_78xx_68xx-12.0.3.0001.xml (Polish)
- pl-PL_6821-12.0.3.0001.xml (Polish)
- pt-PT_78xx_68xx-12.0.3.0001.xml (Portuguese)
- pt-PT_6821-12.0.3.0001.xml (Portuguese)
- ru-RU_78xx_68xx-12.0.3.0001.xml (Russian)
- ru-RU_6821-12.0.3.0001.xml (Russian)
- sk-SK_78xx_68xx-12.0.3.0001.xml (Slovakian)
- sk-SK_6821-12.0.3.0001.xml (Slovakian)
- sl-SI_78xx_68xx-12.0.3.0001.xml (Slovenian)
- sl-SI_6821-12.0.3.0001.xml (Slovenian)
- sv-SE_78xx_68xx-12.0.3.0001.xml (Swedish)
- sv-SE_6821-12.0.3.0001.xml (Swedish)
- tr-TR_78xx_68xx-12.0.3.0001.xml (Turkey)
- tr-TR_6821-12.0.3.0001.xml (Turkey)
- uk-UA_78xx_68xx-12.0.3.0001.xml (Ukraine)
- uk-UA_6821-12.0.3.0001.xml (Ukraine)
- zh-CN_78xx_68xx-12.0.3.0001.ttf (Mandarin)
- zh-CN_78xx_68xx-12.0.3.0001.xml (Mandarin)
- zh-CN_78xx_BMP-12.0.3.0001.ttf (Mandarin)
- zh-CN_6821-12.0.3.0001.ttf (Mandarin)
- zh-CN_6821-12.0.3.0001.xml (Mandarin)
- zh-CN_6861-12.0.3.0001.ttf (Mandarin)
- zh-HK_78xx_68xx-12.0.3.0001.ttf ((Cantonese)
- zh-HK_78xx_68xx-12.0.3.0001.xml (Cantonese)
- zh-HK_78xx_BMP-12.0.3.0001.ttf (Cantonese)
- zh-HK_6821-12.0.3.0001.xml (Cantonese)
- zh-HK_6821-12.0.3.0001.ttf (Cantonese)
- zh-HK_6861-12.0.3.0001.ttf (Cantonese)

The following are example language files for 88xx:

- ar-SA_88xx-12.0.3.0001.ttf (Arabic)

- ar-SA_88xx-12.0.3.0001.xml (Arabic)
- bg-BG_88xx-12.0.3.0001.xml (Bulgarian)
- ca-ES_88xx-12.0.3.0001.xml (Catalan-Spain)
- cs-CZ_88xx-12.0.3.0001.xml (Czech)
- cs-DZ_88xx-12.0.3.0001.xml (Czech)
- da-DK_88xx-12.0.3.0001.xml (Dutch)
- de-DE_88xx-12.0.3.0001.xml (German)
- el-GR_88xx-12.0.3.0001.xml (Greek)
- en-GB_88xx-12.0.3.0001.xml (English-UK)
- en-US_88xx-12.0.3.0001.xml (English-US)
- es-CO_88xx-12.0.3.0001.xml (Spanish)
- es-ES_88xx-12.0.3.0001.xml (Spanish-Spain)
- fi-FI_88xx-12.0.3.0001.xml (Finnish)
- fr-CA_88xx-12.0.3.0001.xml (French-Canada)
- fr-FR_88xx-12.0.3.0001.xml (French)
- he-IL_88xx-12.0.3.0001.ttf (Hebrew)
- he-IL_88xx-12.0.3.0001.xml (Hebrew)
- hr_HR_88xx-12.0.3.0001.xml (Croatia)
- hu-HU_88xx-12.0.3.0001.xml (Hungarian)
- it-IT_88xx-12.0.3.0001.xml (Italian)
- ja-JP_88xx-12.0.3.0001.ttf (Japanese)
- ja-JP_88xx-12.0.3.0001.xml (Japanese)
- ko-KR_88xx-12.0.3.0001.ttf (Korean)
- ko-KR_88xx-12.0.3.0001.xml (Korean)
- nl-NL_88xx-12.0.3.0001.xml (Netherlands)
- no-NO_88xx-12.0.3.0001.xml (Norwegian)
- pl-PL_88xx-12.0.3.0001.xml (Polish)
- pt-PT_88xx-12.0.3.0001.xml (Portuguese)
- ru-RU_88xx-12.0.3.0001.xml (Russian)
- sk-SK_88xx-12.0.3.0001.xml (Slovakian)
- sl-SI_88xx-12.0.3.0001.xml (Slovenian)
- sv-SE_88xx-12.0.3.0001.xml (Swedish)
- tr-TR_88xx-12.0.3.0001.xml (Turkey)
- uk-UA_88xx-12.0.3.0001.xml (Ukraine)
- zh-CN_88xx-12.0.3.0001.ttf (Mandarin)
- zh-CN_88xx-12.0.3.0001.xml (Mandarin)

- zh-HK_88xx-12.0.3.0001.ttf (Cantonese)
- zh-HK_88xx-12.0.3.0001.xml (Cantonese)

The following are example language files for Cisco Video Phone 8875:

- ar-SA_2.2.1.0001.xml (Arabic)
- cs-CZ_2.2.1.0001.xml (Czech)
- da-DK_2.2.1.0001.xml (Dutch)
- de-DE_2.2.1.0001.xml (German)
- en-GB_2.2.1.0001.xml (English-UK)
- en-US_2.2.1.0001.xml (English-US)
- es-ES_2.2.1.0001.xml (Spanish-Spain)
- fr-CA_2.2.1.0001.xml (French-Canada)
- fr-FR_2.2.1.0001.xml (French)
- he-IL_2.2.1.0001.xml (Hebrew)
- hu-HU_2.2.1.0001.xml (Hungarian)
- it-IT_2.2.1.0001.xml (Italian)
- ja-JP_2.2.1.0001.xml (Japanese)
- ko-KR_2.2.1.0001.xml (Korean)
- nb-NO_2.2.1.0001.xml Norwegian)
- nl-NL_2.2.1.0001.xml (Netherlands)
- pl-PL_2.2.1.0001.xml (Polish)
- pt-PT_2.2.1.0001.xml (Portuguese)
- ru-RU_2.2.1.0001.xml (Russian)
- sv-SE_2.2.1.0001.xml (Swedish)
- tr-TR_2.2.1.0001.xml (Turkey)
- uk-UA_2.2.1.0001.xml (Ukraine)
- zh-CN_2.2.1.0001.xml (Mandarin)
- zh-HK_2.2.1.0001.xml (Cantonese)

Add the language files to the device profile type with the settings shown in the following figure.

After creating the language file, upload *static language files* obtained from Cisco. Use the **Browse** button on the file definition screen. Be sure to click **Apply** after uploading the file.

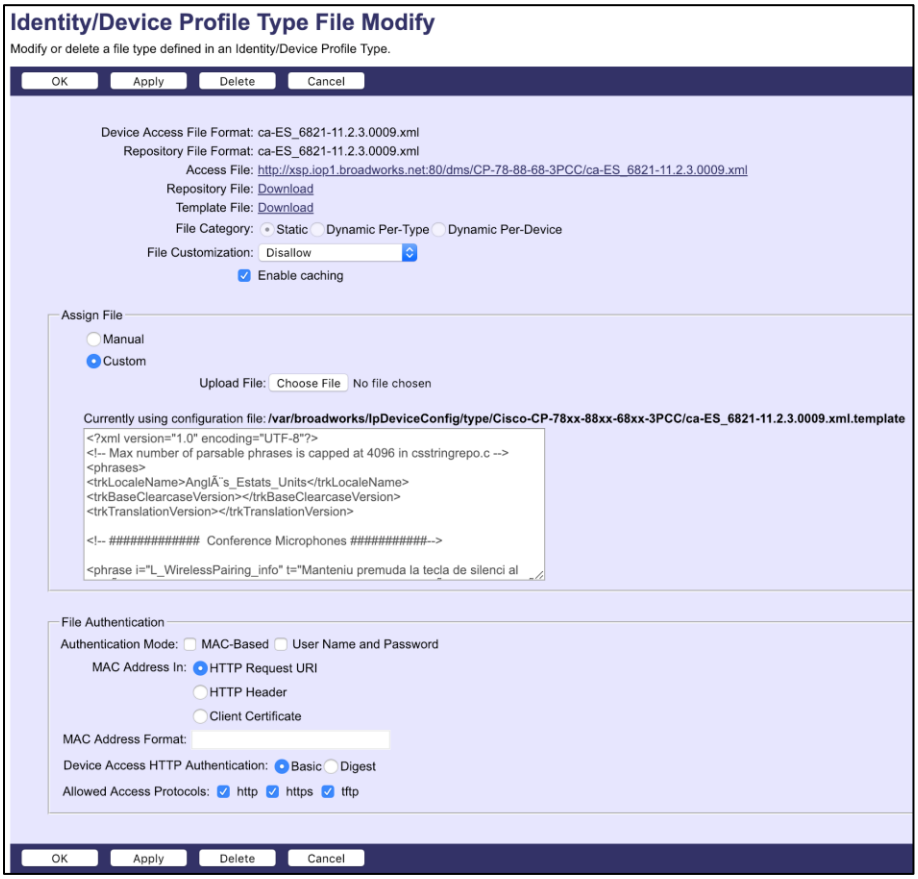

Figure 86 Language File

The Dictionary Server Script entry: “serv=” is required with the host name and PATH ended by a “;”. The label “d1=” is the name label for the language. The label “x1=” is the file name with the language information. The label “f1=1” is for the asian languages and the RTL languages. There can only be one f1 label. The x1 and d1 labels can have multiple entries.

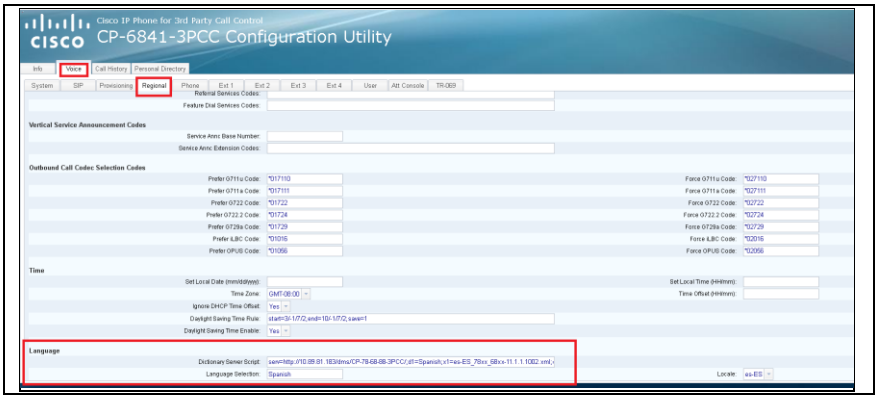

Figure 87 Language File – Language Selection

5.2.2.2.2.6.1 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 Cisco definitions. To perform the mapping, select the Cisco MPP Series device profile type and from there select the *Languages* link. The defined Cisco BroadWorks languages are listed in a table. If languages other than English do not appear, they have not been defined. The supported languages and required mapping are:

Cisco BroadWorks Language	Cisco Language Setting
English	English-US
Russian	Russian
Hungarian	Hungarian
French	French
German	German
Italian	Italian
Spain_Spanish	Spanish

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

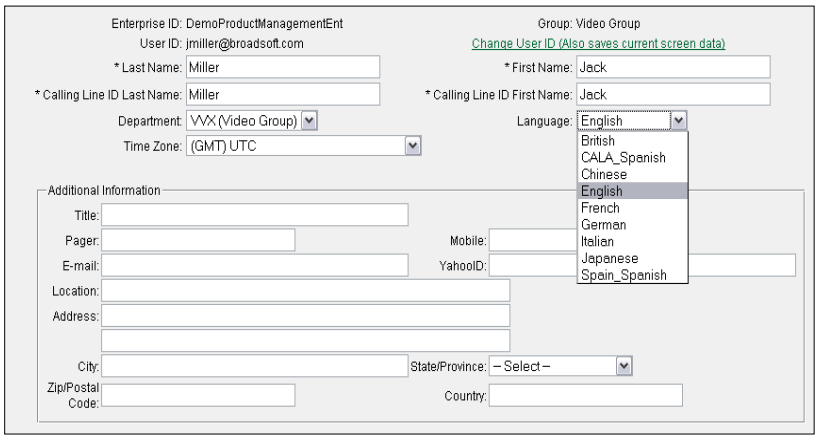

Figure 88 Cisco BroadWorks User Language Definition

There are other languages that the Cisco MPP phone supports that Cisco BroadWorks may not support. The phone can manually download these languages from Device Management via the Language Preferences menu on the phone. To access this menu, press the **Setup** button on the phone and select *Device Administration → Language.* Then from this page, select the desired language for the phone to use on the display.

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 a Cisco MPP Series device.

Browse to the Cisco BroadWorks *<group> → Resources → Identity/Device Profiles* page and then select **Add** to add a new Cisco MPP Series device profile. Configure the device profile as shown in the *Figure 89* example.

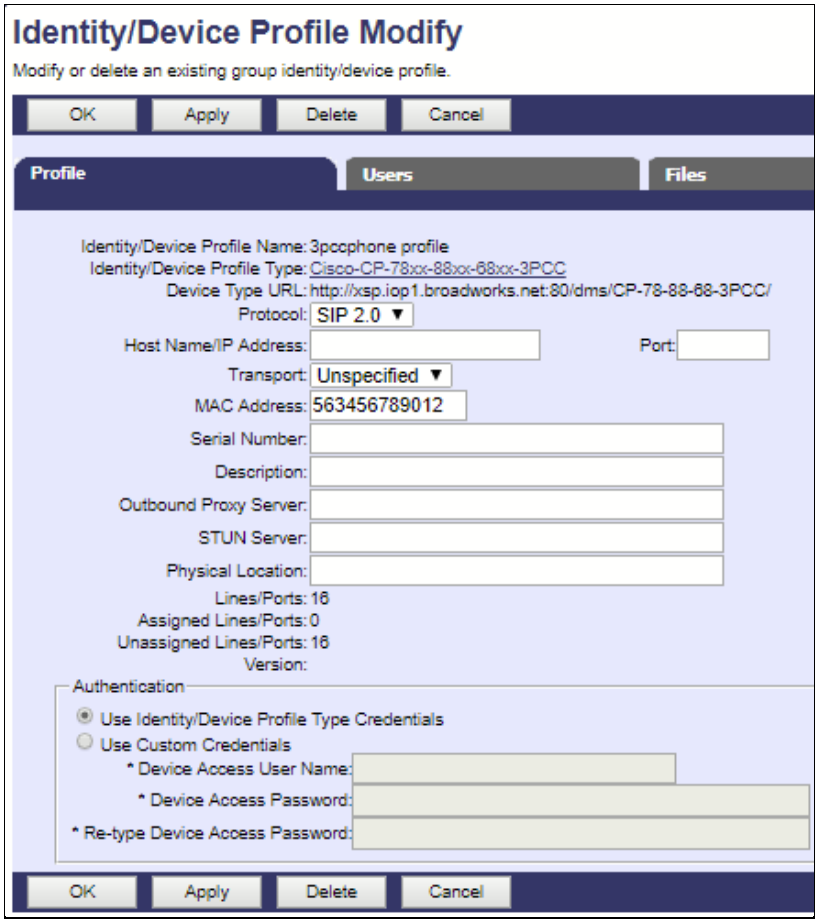

Figure 89 Device Profile Instance

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 *BroadWorks <user> → Addresses*.

5.2.5 Customize Tags

This section identifies custom tags used by the Cisco MPP 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 Configure Edge Device

In many deployments, an edge device is deployed on the enterprise edge. Configure the edge device SIP server setting with the service provider's SBC IP address or FQDN.

To integrate the edge device with Device Management, the SBC address tag (%SBC_ADDRESS_1%) 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. At the *Group → Utilities → Configure Device* page, select the Cisco MPP Series device profile. Perform the following steps.

1) Click on the *Custom Tags* tab.
2) Click **Add**.
3) Add the SBC tag.
4) For the tag, enter "SBC_ADDRESS_1".
5) For the value, enter the IP address (that is, the edge device LAN IP address).
6) To save the tag data, click **OK**.

5.2.5.2 Xtended Services Interface Password

For the Xtended Services Interface (Xsi) feature to be authenticated, it is necessary to override the (Xsi) password for each of the lines at the device profile instance level. To override custom tags at the device profile instance level, click on the *Custom Tags* tab.

Then click **Add** to add a custom tag with the following parameters.

Parameter	Value	Description/Notes
Tag Name	XSIPASSWORD-<line number>	This tag provides the Xsi password of the user for the line that is assigned to the phone. Line number is an integer corresponding to the phone line in assignment.
Tag Value	The user's Xsi password. Example: 123456	

Repeat the tag adding process for each of the lines provisioned on the device.

NOTE: The Device Management configuration for Xsi has capability to support both Login and SIP Credentials for authentication. If you do not want Login Credentials, then you can change the XSI authentication to "SIP Credentials" instead of "Login Credentials". The previous example shows settings for Login Credentials.

5.2.6 File Authentication Using MAC Address from Client Certificate

This section describes the steps necessary to configure Cisco BroadWorks to perform Device Management file authentication using the MAC address obtained from the phone's HTTPS client certificate. This secure authentication method based on MAC address is a new feature available from Cisco BroadWorks Release 22.0.

Prior to configuring for the MAC address authentication, mutual HTTPS authentication must be established among the MPP Series phones and Cisco BroadWorks. That is by the implication of client certificate authentication, HTTPS must be enabled on the phones to trust Cisco BroadWorks server certificate. Furthermore, HTTPS client certificates offered by the MPP Series devices containing the phone's MAC address must also be trusted by Cisco BroadWorks.

The public certificates of MPP Series device certificate authority can be obtained from Cisco. The Cisco MPP Series certificate should be installed on the Device Management deploying Xtended Services Platform.

Use the instructions detailed in the following subsections to manually alter files in the existing device profile types and device profile instances to switch the file authentication mode.

5.2.6.1 Update Device Management Authentication Mode on the Device Profile Type

Instructions in this section are only applicable to updating Cisco BroadWorks systems with existing Cisco MPP-3PCC device profile types. Perform the changes as shown on the device profile type to be updated with MAC address authentication using MAC in Client Certificate.

Parameter	Value	Description
Device Access Protocol	https	HTTPS protocol is necessary when using client mutual authentication with signed certificates.
Device Access Port	Xsp's listening port of HTTPS mutual authentication. For example, 4433.	Enter the corresponding TCP port.
Authentication Mode	MAC-Based checked	MAC-Based authentication method is used.
MAC Address in	Client Certificate radio button selected	MAC address used for authentication is to be obtained from the client certificate to compare to the provisioned values on the device profiles.
MAC Address Format	.*SEP([0-9a-fA-F]{12}).*$	Regular expression used to parse the MAC address from the CN field of the client certificate.

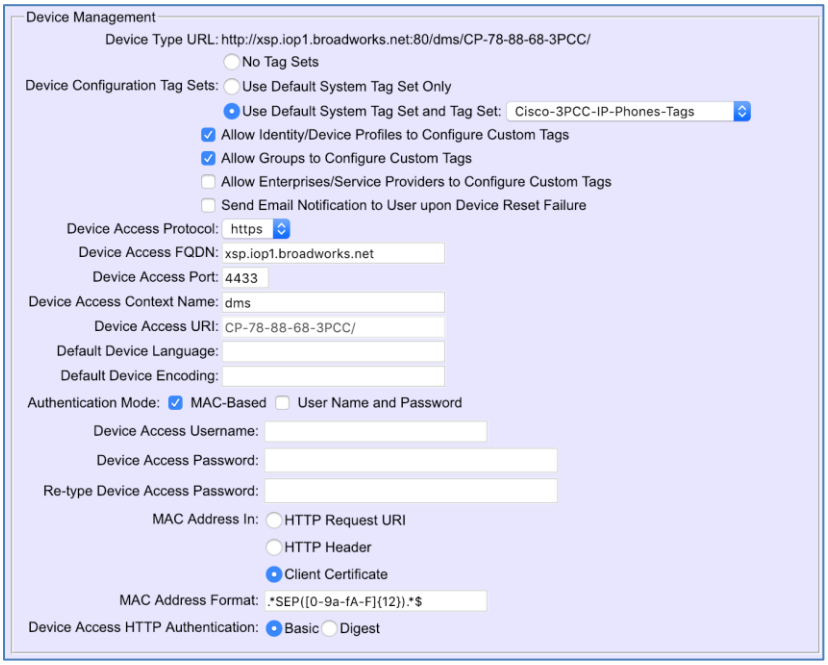

Figure 90 Device Profile Type Update for MAC-Based Auth Using Client Certificate

5.2.6.2 Change File Authentication Mode to MAC Address in Client Certificate

Instructions in this section are only applicable to updating Cisco BroadWorks systems with existing Cisco MPP-3PCC device profile types. Perform corresponding changes on the authentication mode of all device-specific files as shown in the following figure.

The regular expression used in MAC Address Format is as follows:

.*SEP([0-9a-fA-F]{12}).*$

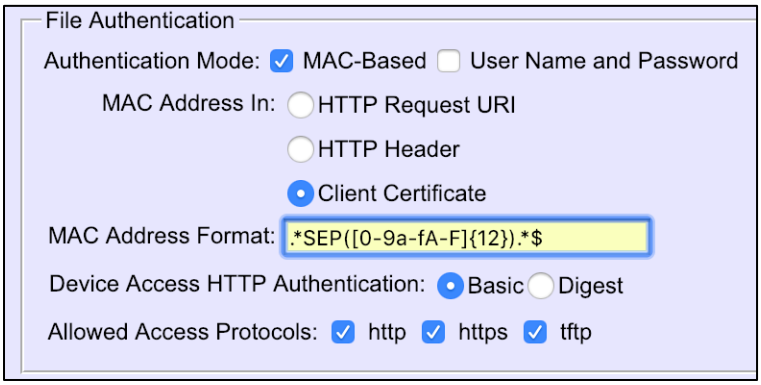

Figure 91 Authentication Mode set to MAC-Based and Sourced from Client Certificate

5.2.7 Configure Cisco MPP Series

This section describes the steps necessary to configure the Cisco MPP Series to integrate with Cisco BroadWorks Device Management.

The phone must be configured with the Device Management URL and authentication user name and password. This configuration can be done as described in the following sections:

- *5.2.7.1 Manual Provisioning*
- *5.2.7.2 No Touch Provisioning via BroadWorks Device Management*
- *5.2.7.2 No Touch Provisioning via BroadWorks Device Management*

5.2.7.1 Manual Provisioning

Fields	Setting	Description/Notes
Profile Rule	Example: *http://xsp1.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/CiscoDev-3PCC_Bootstrap.xml*	Configure Profile Rule field with DM URL address for downloading *CiscoDev-3PCC_Bootstrap.xml*.

1) Log in to the web user interface (UI) for the device.
2) Check the admin guide on *Web Access Policy* enforcement.
3) Browse to the *Provisioning* page.
4) Fill in the Device Management server address URL within the *Profile Rule* field.

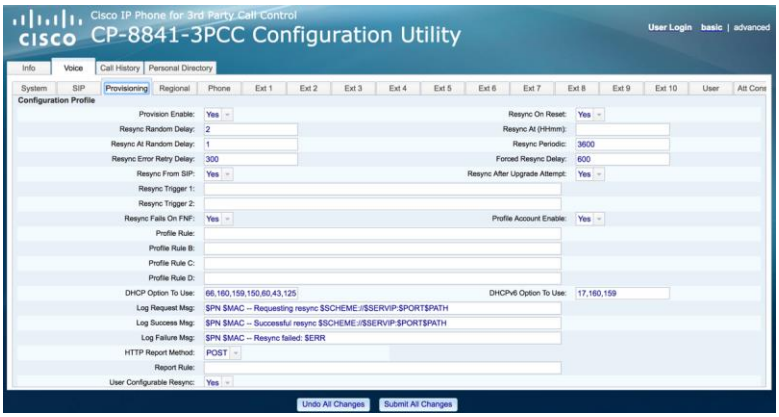

Figure 92 Example Update Screen

5.2.7.2 No Touch Provisioning via BroadWorks Device Management

5.2.7.2.1 Default Device Management Configuration

Device Management must be configured to facilitate the No Touch Provisioning method. Configuration can be performed using the Device Management import function or done manually. Each method is described in the following subsections.

5.2.7.2.1.1 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 Device Management Defaults device type for No Touch Provisioning.

The import method is available in BroadWorks Release 17.0 and later. For previous releases, use the manual configuration method described in the next section.

Download the Cisco MPP Series CPE kit from Cisco at cisco.com. Extract the *DeviceManagementDefaults.DTAF.zip* file from the CPE kit. This is the import file.

Log in to Cisco BroadWorks as an administrator. Browse to *System → Resources → Identity/Device Profile Types* and select *Import*. Select *Browse* to find the extracted DTAF file and click **OK** to start the import.

After the import finishes, the following post-import configuration steps must be completed.

Browse to *System → Resources → Identity/Device Profile Types* and perform a search to find the imported *DeviceManagementDefaults* device profile type. Browse to the *Profile* page and change the Device Management Device Access FQDN to your Xtended Services Platform or Xtended Services Platform cluster address.

Example:

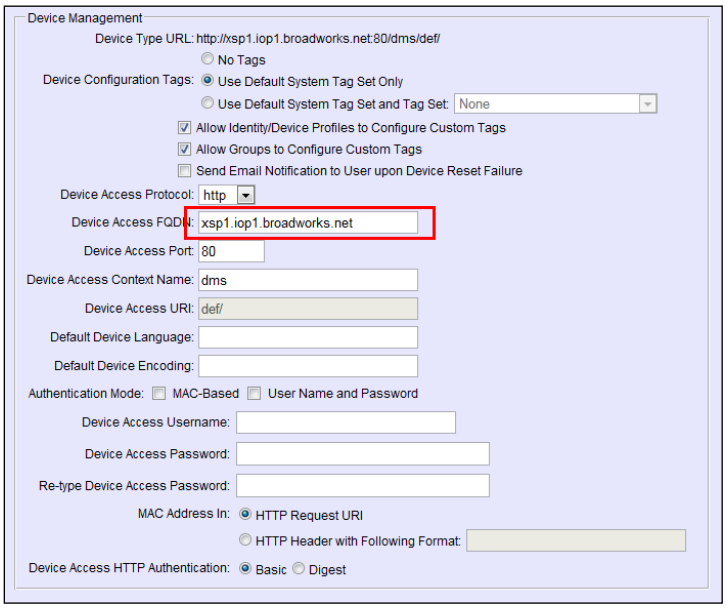

Figure 93 Device Access FQDN

Next, using the *Files and Authentication* link, select the option to rebuild all the system files.

5.2.7.2.1.2 Configuration Method 2: Manual

This section identifies the manual steps necessary to configure Cisco BroadWorks to add the Device Management Defaults device type for No Touch Provisioning.

The manual method must be used for Cisco BroadWorks releases prior to Release 17.0. It is an optional method in Release 17.0 and later. 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.

5.2.7.2.1.2.1 Create Default Device Profile Type

A Device Management default device profile type must be created. This device profile type can be configured to serve default provisioning files to Cisco MPP Series endpoints, as well as other vendor devices.

Create a default device profile type as shown in the following figure. Only the Device Management settings are important in this context since the profile type is used only to serve default provisioning files. The standard and advanced settings do not matter.

5.2.7.2.1.2.1.1 Configure Standard Options

The device profile type name and standard options do not matter, but an example is provided for reference. All settings can be left with their default values.

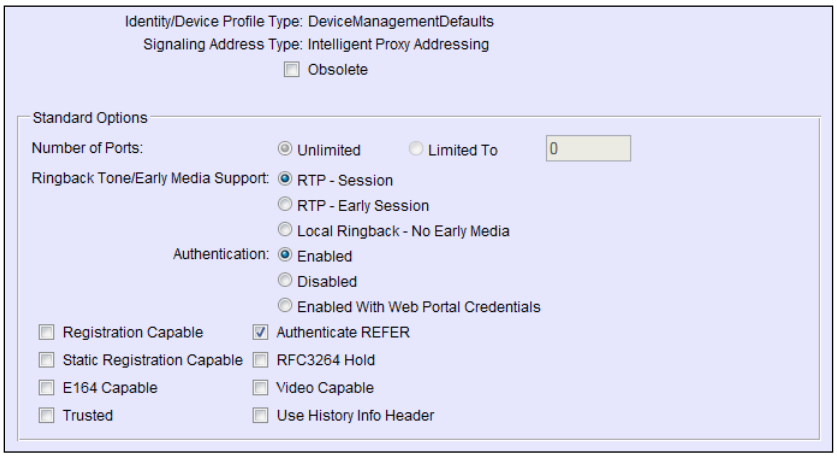

Figure 94 Default Device Profile Type

5.2.7.2.1.2.1.2 Configure Advanced Options

All settings can be left with their default values.

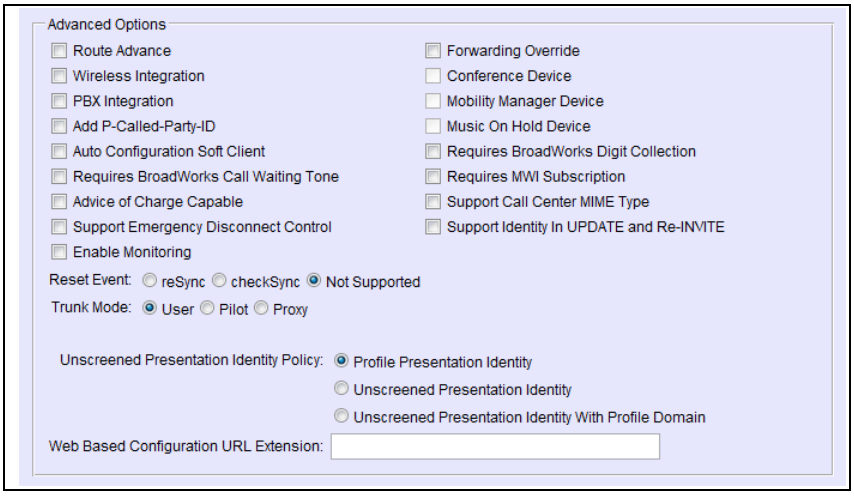

Figure 95 Configure Advanced Options

5.2.7.2.1.2.1.3 Configure Device Management Options

Configure the device profile type *Device Management Options* as directed in the following table. These are common settings, which apply to all devices enabled for Device Management.

Parameters not identified in the following table can usually be left with their default values.

Parameter	Value	Description
Device Configuration Tags	Use Default System Tag Set Only	
Allow Identity/Device Profiles to Configure Custom Tags	Checked	Optional
Allow Groups to Configure Custom Tags	Checked	Optional
Device Access Protocol	http	
Device Access FQDN	<BroadWorks-XSP-Cluster-Address> Example: xsp.iop1.broadworks.net	If using an Xtended Services Platform farm, set this to the Xtended Services Platform cluster FQDN. Otherwise, set it to the individual Xtended Services Platform FQDN or IP address.
Device Access Port	<BroadWorks-XSP-Port> Example: 80	This should be set to “80”.
Device Access Context Name	dms	This does not need to be defined. Cisco BroadWorks defaults to the system-defined value.
Device Access URI	def	This defines the directory the Xtended Services Platform uses to access the default configuration files.

Example *Device Management Options* settings:

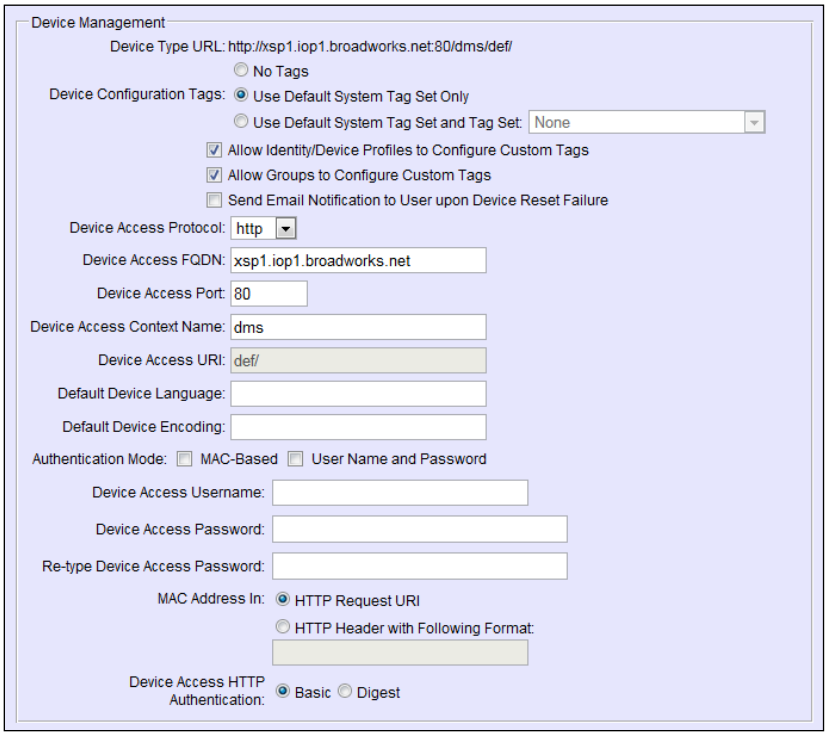

Figure 96 Device Management Options Settings

5.2.7.2.1.2.2 Define Device Profile Type Files

This section describes the Cisco BroadWorks Device Management configuration necessary to identify the configuration files used to enable the *DeviceManagementDefaults* device type for Cisco MPP Series. The files must be defined as described in the following sections:

- *6821-3PCC.xml*
- *6841-3PCC.xml*
- *6851-3PCC.xml*
- *6861-3PCC.xml*
- *6871-3PCC.xml*
- *7811-3PCC.xml*
- *7821-3PCC.xml*
- *7832-3PCC.xml*
- *7841-3PCC.xml*
- *7861-3PCC.xml*
- *8811-3PCC.xml*
- *8841-3PCC.xml*
- *8845-3PCC.xml*
- *8851-3PCC.xml*
- *8861-3PCC.xml*
- *8865-3PCC.xml*
- *8875-3PCC.xml*
- *8832-3PCC.xml*
- *CiscoDev-3PCC_Bootstrap.xml*

Add the files to the device profile type with the settings shown in the following figure.

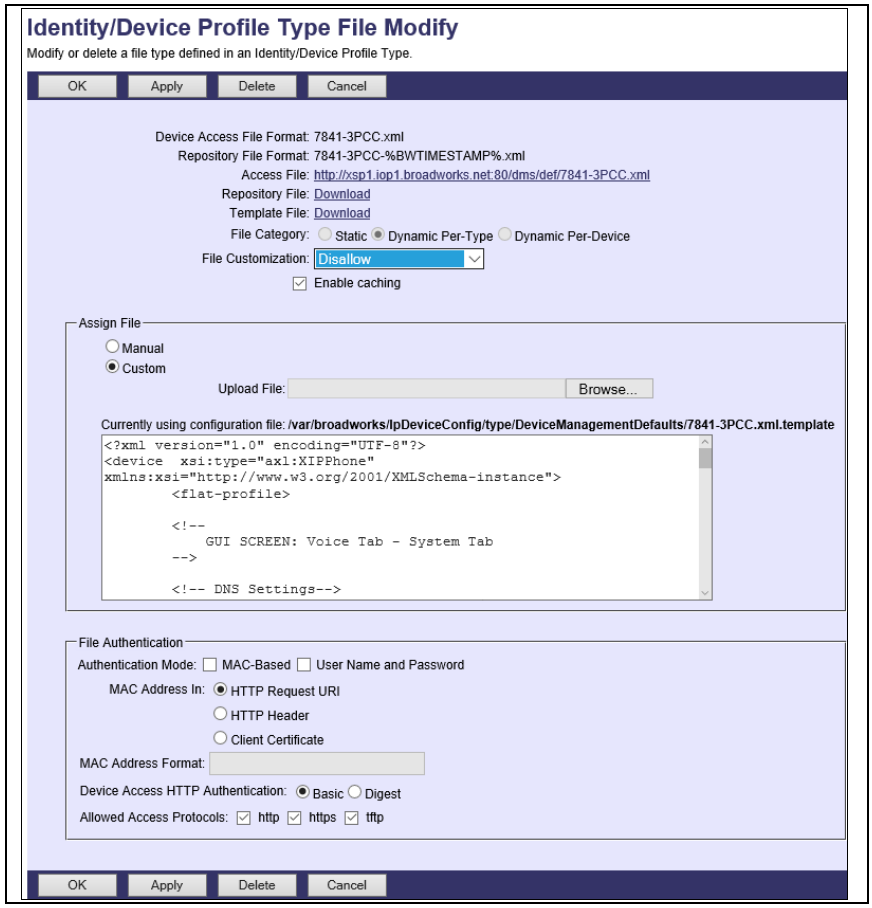

Figure 97 Default 7841-3PCC.xml

5.2.7.2.2 *DHCP Configuration for Cisco BroadWorks Based No-Touch*

No Touch Provisioning allows MPP Series to be deployed with minimal user input. To put the endpoint in service, the MPP Series can be simply taken out of the box and plugged into the LAN.

MPP Series supports BroadWorks Device Management Redirect where the default Cisco BroadWorks configuration URL can be obtained through *DHCP Options 66/159/160*.

With DHCP Option 66, the default configuration file(s) supplies the default URL to MPP Series endpoint. Then the MPP Series follows the normal process for requesting configuration files.

Example: xsp1.iop1.broadworks.net/dms/def/

With DHCP Options 159/160, the device uses the provided URL to request its configuration files directly from Cisco BroadWorks. The MPP Series then follows the normal process for requesting configuration files. Use the provisioning macros to define this URL.

Example: *http://xsp1.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/CiscoDev-3PCC_Bootstrap.xml*.

5.2.7.3 No Touch Provisioning via Cisco Redirect Service

Cisco Redirect is a web redirect service hosted by Cisco. It works in conjunction with the BroadWorks Device Management Redirect. Hence, prior to device deployment, the administrator is required to log in to Cisco's web portal to associate each device based on the MAC address to the redirect profile containing default BroadWorks Device Management URL. At boot time, the MPP Series phones automatically queries the Cisco Device Management Redirect service for the associated profile containing Cisco BroadWorks URL. The MPP Series phones finally completes the provisioning process as detailed in the previous section. For more information about the Cisco Device Management Redirect service, go to https://webapps.cisco.com/software/edos/home.

5.3 Upgrade from Previous CPE Kits

The previous configuration sections are primarily structured around importing or manually configuring the MPP Series device profile types for the first time. Many of those 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* [2].

Appendix A: Reference MPP Series Configuration Files

NOTE: The following samples are examples and should be used as a reference only. DO NOT CUT AND PASTE THESE EXAMPLES TO GENERATE YOUR CONFIGURATION FILES. Use the configuration files obtained from Cisco with the specific release to generate your configuration files.

System File: CisoDev-3PCC_Bootstrap.xml

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

```
<device xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:type="axl:XIPPhone">
<flat-profile>
<!--
        GUI SCREEN: Voice Tab - Provisioning Tab
         -->
<!--  Profile Rule Resync Timers  -->
<Resync_On_Reset ua="na">Yes</Resync_On_Reset>
<Resync_At__HHmm_ ua="na">3600</Resync_At__HHmm_>
<Resync_At_Random_Delay ua="na">2</Resync_At_Random_Delay>
<Resync_Periodic ua="na">3600</Resync_Periodic>
<Resync_Error_Retry_Delay ua="na">3600</Resync_Error_Retry_Del
ay>
<Forced_Resync_Delay ua="na">14400</Forced_Resync_Delay>
<!-- Resync_At_Random_Delay ua="na">1</Resync_At_Random_Delay>
        <Resync_Periodic ua="na">60</Resync_Periodic>
        <Resync_Error_Retry_Delay
ua="na">300</Resync_Error_Retry_Delay>
        <Forced_Resync_Delay ua="na">600</Forced_Resync_Delay
-->
<!--  Configuration Profile current  -->
<!--  Profile_Rule_B ua="na">($PSN eq "7841-3PCC")? $K | ($PSN
eq "8832-3PCC") ? $J | ($PSN eq "7821-3PCC") ? $K | ($PSN eq
"7811-3PCC") ? $K | ($PSN eq "7832-3PCC") ? $L | $M
</Profile_Rule_B -->
<GPP_G ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type8875.xml</GPP_G>
<GPP_H ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type6871.xml</GPP_H>
<GPP_I ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type6861.xml</GPP_I>
<GPP_J ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type8832.xml</GPP_J>
<GPP_K ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type78xx.xml</GPP_K>
<GPP_L ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type7832.xml</GPP_L>
<GPP_M ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type88xx.xml</GPP_M>
<GPP_N ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type68xx.xml</GPP_N>
<GPP_O ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type88x5.xml</GPP_O>
<GPP_P ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type6821.xml</GPP_P>
```

```
<Profile_Rule_B ua="na">($PSN eq "7861-3PCC")? $K |($PSN eq
"7841-3PCC")? $K | ($PSN eq "7821-3PCC") ? $K | ($PSN eq
"7811-3PCC") ? $K | ($PSN eq "7832-3PCC") ? $L | ($PSN eq
"6841-3PCC")? $N | ($PSN eq "6851-3PCC") ? $N |($PSN eq "6821-
3PCC")? $P | ($PSN eq "6861-3PCC")? $I | ($PSN eq "6871-
3PCC")? $H | ($PSN eq "8832-3PCC")? $J | ($PSN eq "8845-3PCC")
? $O | ($PSN eq "8865-3PCC") ? $O | ($PSN eq "8875") ? $G |
($PSN eq "8875NR") ? $G | $M</Profile_Rule_B>
<Profile_Rule ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_System.xml</Profile_Rule>
<!--  3rd Party ROOT CA Settings: (HTTPS/TLS/SRTP) - OPTIONAL
-->
<!--
        <Custom_CA_Rule
ua="na">http://xsp.iop1.broadworks.net:80/dms/CP-78-88-68-
3PCC/</Custom_CA_Rule>
         -->
<!--
        GUI SCREEN: Voice Tab - Phone Tab
         -->
</flat-profile>
</device>
```

System File: CisoDev_System.xml

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device  xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <flat-profile>
        <!--
             GUI SCREEN: Voice Tab - System Tab
        -->

        <!-- DNS Settings-->
        <Primary_DNS ua="rw">%DNS_SERVER_1%</Primary_DNS>
        <Secondary_DNS ua="rw">%DNS_SERVER_2%</Secondary_DNS>
        <DNS_Server_Order
ua="na">%DNS_SERVER_ORDER%</DNS_Server_Order>
        <DNS_Caching_Enable
ua="na">%DNS_CACHE%</DNS_Caching_Enable>

        <!-- System Time Server -->
        <Primary_NTP_Server
ua="na">%SNTP_SERVER_1%</Primary_NTP_Server>
        <Secondary_NTP_Server
ua="na">%SNTP_SERVER_2%</Secondary_NTP_Server>

        <!-- Block NonProxy SIP -->
        <Block_Nonproxy_SIP
ua="na">%Block_Nonproxy_SIP%</Block_Nonproxy_SIP>

        <!--
             GUI SCREEN: Voice Tab->SIP Tab
        -->

        <!-- SIP Parameters -->
```

```
        <RFC_2543_Call_Hold
ua="na">%RFC_2543_HOLD%</RFC_2543_Call_Hold>
        <Display_Diversion_Info
ua="na">%DISPLAY_DIVERSION_INFO%</Display_Diversion_Info>
        <!-- RTP Parameters -->
        <Call_Statistics
ua="na">%CALL_STATISTICS%</Call_Statistics>

        <!-- Response Status Code Handling -->
        <Try_Backup_RSC
ua="na">%TRY_BACKUP_RSC%</Try_Backup_RSC>
        <Retry_Reg_RSC ua="na">%RETRY_REG_RSC%</Retry_Reg_RSC>

        <!-- BroadWork Advance Call Control -->
        <Talk_Package ua="na">Yes</Talk_Package>
        <Hold_Package ua="na">Yes</Hold_Package>
        <Conference_Package ua="na">Yes</Conference_Package>

        <!-- Extension Mobility -->
        <EM_Enable ua="na">%EM_ENABLED%</EM_Enable>

        <!-- XSI Single SignOn  -->
        <Profile_Authentication_Type
ua="na">%PROFILE_AUTH_TYPE%</Profile_Authentication_Type>

        <!--
**************************************************************
-->
        <!-- Broadsoft XSI Directory and CallLog
-->
        <!--
**************************************************************
-->
        <!-- Optional: Broadsoft Directory Settings -->
        <Directory_Enable ua="na">Yes</Directory_Enable>
        <XSI_Host_Server
ua="na">%XSI_SERVER%</XSI_Host_Server>

        <Directory_Name
ua="na">%BROADSOFT_DIR_NAME%</Directory_Name>

        <CallLog_Enable ua="na">Yes</CallLog_Enable>

        <XSI_Authentication_Type ua="na">Login
Credentials</XSI_Authentication_Type>
        <Directory_Type
ua="na">%DIRECTORY_TYPE%</Directory_Type>

        <!-- Broadsoft XMPP -->
        <XMPP_Enable ua="na">Yes</XMPP_Enable>

        <Call_Recording_Serv
ua="na">%CISCO_CALL_RECORDING_ENABLED%</Call_Recording_Serv>
        <!--
**************************************************************
-->

        <!--
            GUI SCREEN: Voice Tab->Provisioning Tab
        -->
        <Peer_Firmware_Sharing
ua="na">%Peer_Firmware_Sharing%</Peer_Firmware_Sharing>
```

```
        <Peer_Firmware_Sharing_Log_Server ua="na"/>

        <!-- Upload Configuration Options -->
        <Report_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%/%CONF_UPLOAD_NAME%</Re
port_Rule>
        <HTTP_Report_Method
ua="na">%HTTP_REPORT_METHOD%</HTTP_Report_Method>
        <Report_To_Server
ua="na">%REPORT_TO_SERVER%</Report_To_Server>
        <Periodic_Upload_To_Server
ua="na">%PERIODIC_UPLOAD_TIMER%</Periodic_Upload_To_Server>
        <Upload_Delay_On_Local_Change
ua="na">%UPLOAD_DELAY_ON_LOCAL_CHANGE%</Upload_Delay_On_Local_
Change>

        <!-- Problem Report Tool -->
        <PRT_Upload_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%</PRT_Upload_Rule>
        <PRT_Upload_Method
ua="na">%PRT_UPLOAD_METHOD%</PRT_Upload_Method>
        <PRT_Name ua="na">%PRT_NAME%</PRT_Name>

        <!--
            GUI SCREEN: Voice Tab->Regional Tab
        -->

        <!-- Vertical Service Activation Codes -->
        <Block_CID_Act_Code
ua="na">%BLOCK_CID_ACTIVATE%</Block_CID_Act_Code>
        <Block_CID_Deact_Code
ua="na">%BLOCK_CID_DEACTIVATE%</Block_CID_Deact_Code>
        <Block_ANC_Act_Code
ua="na">%BLOCK_ANC_ACTIVATE%</Block_ANC_Act_Code>
        <Block_ANC_Deact_Code
ua="na">%BLOCK_ANC_DEACTIVATE%</Block_ANC_Deact_Code>

        <!--
            GUI SCREEN: Voice Tab ->Phone Tab
        -->
        <!-- XSI Call Log -->
        <CallLog_Enable
ua="na">%CallLog_Enable%</CallLog_Enable>
        <CallLog_Associated_Line
ua="na">%CallLog_Associated_Line%</CallLog_Associated_Line>
        <Display_Recents_From
ua="na">%Display_Recents_From%</Display_Recents_From>

        <!-- Multiple Paging Group Parameters -->

<Group_1_Paging_Script>%PAGING_GRP_1%</Group_1_Paging_Script>
        <Group_2_Paging_Script></Group_2_Paging_Script>
        <Group_3_Paging_Script></Group_3_Paging_Script>
        <Group_4_Paging_Script></Group_4_Paging_Script>
        <Group_5_Paging_Script></Group_5_Paging_Script>
        <Group_6_Paging_Script></Group_6_Paging_Script>
        <Group_7_Paging_Script></Group_7_Paging_Script>
        <Group_8_Paging_Script></Group_8_Paging_Script>
        <Group_9_Paging_Script></Group_9_Paging_Script>
        <Group_10_Paging_Script></Group_10_Paging_Script>
```

```
        <!--
            GUI SCREEN: Voice Tab ->User Tab
        -->

        <!-- Screen Saver -->
        <Text_Logo ua="na">%TEXT_LOGO%</Text_Logo>
        <Boot_Display ua="rw">%BOOT_DISPLAY%</Boot_Display>
<!-- Options: Default/Download Picture/Logo/Text -->
        <Phone_Background
ua="rw">%PHONE_BACKGROUND%</Phone_Background> <!-- Options:
Default/Download Picture/Logo-->
        <Screen_Saver_Enable
ua="rw">%SCREEN_SAVER_ENABLED%</Screen_Saver_Enable>
        <Screen_Saver_Wait
ua="rw">%SCREEN_SAVER_WAIT%</Screen_Saver_Wait>
        <Screen_Saver_Refresh_Period
ua="rw">%SCREEN_SAVER_REFRESH_PERIOD%</Screen_Saver_Refresh_Pe
riod>
        <Screen_Saver_Type
ua="rw">%SCREEN_SAVER_TYPE%</Screen_Saver_Type> <!-- Options:
Clock/Download Picture/Logo -->


        <!--
            GUI SCREEN: Ext1 Tab
        -->

        <!-- LINE1 SIP Settings -->
        <SIP_100REL_Enable_1_
ua="na">Yes</SIP_100REL_Enable_1_>
        <Auth_INVITE_1_ ua="na">%AUTH_INVITE%</Auth_INVITE_1_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_1_ ua="na">No</SIP_Remote-Party-
ID_1_>
        <Privacy_Header_1_
ua="na">%Privacy_Header_1_%</Privacy_Header_1_>
        <P-Early-Media_Support_1_
ua="na">%P_EARLY_MEDIA_SUPPORT_1%</P-Early-Media_Support_1_>
        <SIP_SessionID_Support_1_
ua="na">%SIP_SESSIONID_SUPPORT_1%</SIP_SessionID_Support_1_>
        <Use_low-bandwidth_OPUS_1_
ua="na">%USE_LOW_BANDWIDTH_OPUS_1%</Use_low-bandwidth_OPUS_1_>
        <MediaSec_Request_1_
ua="na">%MEDIASEC_REQUEST_1%</MediaSec_Request_1_>
        <MediaSec_Over_TLS_Only_1_
ua="na">%MEDIASEC_OVER_TLS_ONLY_1%</MediaSec_Over_TLS_Only_1_>

        <!-- LINE1 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_1_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_1_>

        <!-- LINE1 Proxy and Registration -->
        <Outbound_Proxy_1_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_1_>
        <Alternate_Outbound_Proxy_1_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_1_>
        <Use_DNS_SRV_1_ ua="na">Yes</Use_DNS_SRV_1_>
        <DNS_SRV_Auto_Prefix_1_
ua="na">Yes</DNS_SRV_Auto_Prefix_1_>
```

```
        <Proxy_Fallback_Intvl_1_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_1_>

        <!-- LINE1 Audio Configuration -->
        <Preferred_Codec_1_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_1_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_1_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_1_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_1_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_1_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_1_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_1_>
        <Codec_Negotiation_1_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_1_>

        <!-- LINE1 Dial Plan -->
        <Dial_Plan_1_ ua="na">%DIAL_PLAN%</Dial_Plan_1_>

        <!-- LINE1 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_1_ ua="na">%BROADSOFT_ACD_ENABLE-
1%</Broadsoft_ACD_1_>
        <Enable_Broadsoft_Hoteling_1_
ua="na">%BROADSOFT_HOTELING_ENABLE-
1%</Enable_Broadsoft_Hoteling_1_>
        <Call_Information_Enable_1_
ua="na">Yes</Call_Information_Enable_1_>
        <Disposition_Code_Enable_1_
ua="na">Yes</Disposition_Code_Enable_1_>
        <Trace_Enable_1_ ua="na">Yes</Trace_Enable_1_>
        <Emergency_Escalation_Enable_1_
ua="na">Yes</Emergency_Escalation_Enable_1_>
        <Queue_Status_Notification_Enable_1_
ua="na">Yes</Queue_Status_Notification_Enable_1_>

        <!-- XSI Line Service -->
        <XSI_Host_Server_1_
ua="na">%XSI_Host_Server_1%</XSI_Host_Server_1_>
        <XSI_Authentication_Type_1_
ua="na">%XSI_Authentication_Type_1_%</XSI_Authentication_Type_
1_>
        <Anywhere_Enable_1_
ua="na">%Anywhere_Enable_1_%</Anywhere_Enable_1_>
        <Block_CID_Enable_1_
ua="na">%Block_CID_Enable_1_%</Block_CID_Enable_1_>
        <DND_Enable_1_
ua="na">%XSI_DND_ENABLE_1%</DND_Enable_1_>
        <CFWD_Enable_1_
ua="na">%XSI_CFWD_ENABLE_1%</CFWD_Enable_1_>
<Block_Anonymous_Call_Enable_1_
ua="na">%Block_Anonymous_Call_Enable_1%</Block_Anonymous_Call_
Enable>
<Call_Waiting_Enable_1_
ua="na">%Call_Waiting_Enable_1%</Call_Waiting_Enable_1_>
        <!--
            GUI SCREEN: Ext2 Tab
        -->

        <!-- LINE2 SIP Settings -->
```

```
        <SIP_100REL_Enable_2_
ua="na">Yes</SIP_100REL_Enable_2_>
        <Auth_INVITE_2_ ua="na">%AUTH_INVITE%</Auth_INVITE_2_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_2_ ua="na">No</SIP_Remote-Party-
ID_2_>
        <P-Early-Media_Support_2_
ua="na">%P_EARLY_MEDIA_SUPPORT_2%</P-Early-Media_Support_2_>
        <SIP_SessionID_Support_2_
ua="na">%SIP_SESSIONID_SUPPORT_2%</SIP_SessionID_Support_2_>
        <Use_low-bandwidth_OPUS_2_
ua="na">%USE_LOW_BANDWIDTH_OPUS_2%</Use_low-bandwidth_OPUS_2_>
        <MediaSec_Request_2_
ua="na">%MEDIASEC_REQUEST_2%</MediaSec_Request_2_>
        <MediaSec_Over_TLS_Only_2_
ua="na">%MEDIASEC_OVER_TLS_ONLY_2%</MediaSec_Over_TLS_Only_2_>

        <!-- LINE2 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_2_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_2_>

        <!-- LINE2 Proxy and Registration -->
        <Outbound_Proxy_2_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_2_>
        <Alternate_Outbound_Proxy_2_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_2_>
        <Use_DNS_SRV_2_ ua="na">Yes</Use_DNS_SRV_2_>
        <DNS_SRV_Auto_Prefix_2_
ua="na">Yes</DNS_SRV_Auto_Prefix_2_>
        <Proxy_Fallback_Intvl_2_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_2_>

        <!-- LINE2 Audio Configuration -->
        <Preferred_Codec_2_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_2_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_2_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_2_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_2_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_2_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_2_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_2_>
        <Codec_Negotiation_2_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_2_>

        <!-- LINE2 Dial Plan -->
        <Dial_Plan_2_ ua="na">%DIAL_PLAN%</Dial_Plan_2_>

        <!-- LINE2 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_2_ ua="na">%BROADSOFT_ACD_ENABLE-
2%</Broadsoft_ACD_2_>
        <Enable_Broadsoft_Hoteling_2_
ua="na">%BROADSOFT_HOTELING_ENABLE-
2%</Enable_Broadsoft_Hoteling_2_>
        <Call_Information_Enable_2_
ua="na">Yes</Call_Information_Enable_2_>
        <Disposition_Code_Enable_2_
ua="na">Yes</Disposition_Code_Enable_2_>
        <Trace_Enable_2_ ua="na">Yes</Trace_Enable_2_>
```

```
        <Emergency_Escalation_Enable_2_
ua="na">Yes</Emergency_Escalation_Enable_2_>
        <Queue_Status_Notification_Enable_2_
ua="na">Yes</Queue_Status_Notification_Enable_2_>

        <!--
            GUI SCREEN: Ext3 Tab
        -->

        <!-- LINE3 SIP Settings -->
        <SIP_100REL_Enable_3_
ua="na">Yes</SIP_100REL_Enable_3_>
        <Auth_INVITE_3_ ua="na">%AUTH_INVITE%</Auth_INVITE_3_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_3_ ua="na">No</SIP_Remote-Party-
ID_3_>
        <P-Early-Media_Support_3_
ua="na">%P_EARLY_MEDIA_SUPPORT_3%</P-Early-Media_Support_3_>
        <SIP_SessionID_Support_3_
ua="na">%SIP_SESSIONID_SUPPORT_3%</SIP_SessionID_Support_3_>
        <Use_low-bandwidth_OPUS_3_
ua="na">%USE_LOW_BANDWIDTH_OPUS_3%</Use_low-bandwidth_OPUS_3_>
        <MediaSec_Request_3_
ua="na">%MEDIASEC_REQUEST_3%</MediaSec_Request_3_>
        <MediaSec_Over_TLS_Only_3_
ua="na">%MEDIASEC_OVER_TLS_ONLY_3%</MediaSec_Over_TLS_Only_3_>

        <!-- LINE3 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_3_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_3_>

        <!-- LINE3 Proxy and Registration -->
        <Outbound_Proxy_3_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_3_>
        <Alternate_Outbound_Proxy_3_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_3_>
        <Use_DNS_SRV_3_ ua="na">Yes</Use_DNS_SRV_3_>
        <DNS_SRV_Auto_Prefix_3_
ua="na">Yes</DNS_SRV_Auto_Prefix_3_>
        <Proxy_Fallback_Intvl_3_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_3_>

        <!-- LINE3 Audio Configuration -->
        <Preferred_Codec_3_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_3_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_3_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_3_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_3_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_3_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_3_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_3_>
        <Codec_Negotiation_3_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_3_>

        <!-- LINE3 Dial Plan -->
        <Dial_Plan_3_ ua="na">%DIAL_PLAN%</Dial_Plan_3_>

        <!-- LINE3 ACD Settings 11.0.2 wodennis-->
```

```
        <Broadsoft_ACD_3_ ua="na">%BROADSOFT_ACD_ENABLE-
3%</Broadsoft_ACD_3_>
        <Enable_Broadsoft_Hoteling_3_
ua="na">%BROADSOFT_HOTELING_ENABLE-
3%</Enable_Broadsoft_Hoteling_3_>
        <Call_Information_Enable_3_
ua="na">Yes</Call_Information_Enable_3_>
        <Disposition_Code_Enable_3_
ua="na">Yes</Disposition_Code_Enable_3_>
        <Trace_Enable_3_ ua="na">Yes</Trace_Enable_3_>
        <Emergency_Escalation_Enable_3_
ua="na">Yes</Emergency_Escalation_Enable_3_>
        <Queue_Status_Notification_Enable_3_
ua="na">Yes</Queue_Status_Notification_Enable_3_>

        <!--
            GUI SCREEN: Ext4 Tab
        -->

        <!-- LINE4 SIP Settings -->
        <SIP_100REL_Enable_4_
ua="na">Yes</SIP_100REL_Enable_4_>
        <Auth_INVITE_4_ ua="na">%AUTH_INVITE%</Auth_INVITE_4_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_4_ ua="na">No</SIP_Remote-Party-
ID_4_>
        <P-Early-Media_Support_4_
ua="na">%P_EARLY_MEDIA_SUPPORT_4%</P-Early-Media_Support_4_>
        <SIP_SessionID_Support_4_
ua="na">%SIP_SESSIONID_SUPPORT_4%</SIP_SessionID_Support_4_>
        <Use_low-bandwidth_OPUS_4_
ua="na">%USE_LOW_BANDWIDTH_OPUS_4%</Use_low-bandwidth_OPUS_4_>
        <MediaSec_Request_4_
ua="na">%MEDIASEC_REQUEST_4%</MediaSec_Request_4_>
        <MediaSec_Over_TLS_Only_4_
ua="na">%MEDIASEC_OVER_TLS_ONLY_4%</MediaSec_Over_TLS_Only_4_>

        <!-- LINE4 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_4_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_4_>

        <!-- LINE4 Proxy and Registration -->
        <Outbound_Proxy_4_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_4_>
        <Alternate_Outbound_Proxy_4_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_4_>
        <Use_DNS_SRV_4_ ua="na">Yes</Use_DNS_SRV_4_>
        <DNS_SRV_Auto_Prefix_4_
ua="na">Yes</DNS_SRV_Auto_Prefix_4_>
        <Proxy_Fallback_Intvl_4_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_4_>

        <!-- LINE4 Audio Configuration -->
        <Preferred_Codec_4_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_4_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_4_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_4_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
```

```
        <Third_Preferred_Codec_4_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_4_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_4_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_4_>
        <Codec_Negotiation_4_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_4_>

        <!-- LINE4 Dial Plan -->
        <Dial_Plan_4_ ua="na">%DIAL_PLAN%</Dial_Plan_4_>

        <!-- LINE4 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_4_ ua="na">%BROADSOFT_ACD_ENABLE-
4%</Broadsoft_ACD_4_>
        <Enable_Broadsoft_Hoteling_4_
ua="na">%BROADSOFT_HOTELING_ENABLE-
4%</Enable_Broadsoft_Hoteling_4_>
        <Call_Information_Enable_4_
ua="na">Yes</Call_Information_Enable_4_>
        <Disposition_Code_Enable_4_
ua="na">Yes</Disposition_Code_Enable_4_>
        <Trace_Enable_4_ ua="na">Yes</Trace_Enable_4_>
        <Emergency_Escalation_Enable_4_
ua="na">Yes</Emergency_Escalation_Enable_4_>
        <Queue_Status_Notification_Enable_4_
ua="na">Yes</Queue_Status_Notification_Enable_4_>

        <!--
            GUI SCREEN: Ext5 Tab
        -->

        <!-- LINE5 SIP Settings -->
        <SIP_100REL_Enable_5_
ua="na">Yes</SIP_100REL_Enable_5_>
        <Auth_INVITE_5_ ua="na">%AUTH_INVITE%</Auth_INVITE_5_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_5_ ua="na">No</SIP_Remote-Party-
ID_5_>
        <P-Early-Media_Support_5_
ua="na">%P_EARLY_MEDIA_SUPPORT_5%</P-Early-Media_Support_5_>
        <SIP_SessionID_Support_5_
ua="na">%SIP_SESSIONID_SUPPORT_5%</SIP_SessionID_Support_5_>
        <Use_low-bandwidth_OPUS_5_
ua="na">%USE_LOW_BANDWIDTH_OPUS_5%</Use_low-bandwidth_OPUS_5_>
        <MediaSec_Request_5_
ua="na">%MEDIASEC_REQUEST_5%</MediaSec_Request_5_>
        <MediaSec_Over_TLS_Only_5_
ua="na">%MEDIASEC_OVER_TLS_ONLY_5%</MediaSec_Over_TLS_Only_5_>

        <!-- LINE5 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_5_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_5_>

        <!-- LINE5 Proxy and Registration -->
        <Outbound_Proxy_5_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_5_>
        <Alternate_Outbound_Proxy_5_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_5_>
        <Use_DNS_SRV_5_ ua="na">Yes</Use_DNS_SRV_5_>
        <DNS_SRV_Auto_Prefix_5_
ua="na">Yes</DNS_SRV_Auto_Prefix_5_>
```

```
        <Proxy_Fallback_Intvl_5_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_5_>

        <!-- LINE5 Audio Configuration -->
        <Preferred_Codec_5_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_5_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_5_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_5_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_5_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_5_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_5_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_5_>
        <Codec_Negotiation_5_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_5_>

        <!-- LINE5 Dial Plan -->
        <Dial_Plan_5_ ua="na">%DIAL_PLAN%</Dial_Plan_5_>

        <!-- LINE5 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_5_ ua="na">%BROADSOFT_ACD_ENABLE-
5%</Broadsoft_ACD_5_>
        <Enable_Broadsoft_Hoteling_5_
ua="na">%BROADSOFT_HOTELING_ENABLE-
5%</Enable_Broadsoft_Hoteling_5_>
        <Call_Information_Enable_5_
ua="na">Yes</Call_Information_Enable_5_>
        <Disposition_Code_Enable_5_
ua="na">Yes</Disposition_Code_Enable_5_>
        <Trace_Enable_5_ ua="na">Yes</Trace_Enable_5_>
        <Emergency_Escalation_Enable_5_
ua="na">Yes</Emergency_Escalation_Enable_5_>
        <Queue_Status_Notification_Enable_5_
ua="na">Yes</Queue_Status_Notification_Enable_5_>

        <!--
            GUI SCREEN: Ext6 Tab
        -->

        <!-- LINE6 SIP Settings -->
        <SIP_100REL_Enable_6_
ua="na">Yes</SIP_100REL_Enable_6_>
        <Auth_INVITE_6_ ua="na">%AUTH_INVITE%</Auth_INVITE_6_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_6_ ua="na">No</SIP_Remote-Party-
ID_6_>
        <P-Early-Media_Support_6_
ua="na">%P_EARLY_MEDIA_SUPPORT_6%</P-Early-Media_Support_6_>
        <SIP_SessionID_Support_6_
ua="na">%SIP_SESSIONID_SUPPORT_6%</SIP_SessionID_Support_6_>
        <Use_low-bandwidth_OPUS_6_
ua="na">%USE_LOW_BANDWIDTH_OPUS_6%</Use_low-bandwidth_OPUS_6_>
        <MediaSec_Request_6_
ua="na">%MEDIASEC_REQUEST_6%</MediaSec_Request_6_>
        <MediaSec_Over_TLS_Only_6_
ua="na">%MEDIASEC_OVER_TLS_ONLY_6%</MediaSec_Over_TLS_Only_6_>

        <!-- LINE6 Call Feature Settings -->
```

```
        <Voice_Mail_Subscribe_Interval_6_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_6_>

        <!-- LINE6 Proxy and Registration -->
        <Outbound_Proxy_6_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_6_>
        <Alternate_Outbound_Proxy_6_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_6_>
        <Use_DNS_SRV_6_ ua="na">Yes</Use_DNS_SRV_6_>
        <DNS_SRV_Auto_Prefix_6_
ua="na">Yes</DNS_SRV_Auto_Prefix_6_>
        <Proxy_Fallback_Intvl_6_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_6_>

        <!-- LINE6 Audio Configuration -->
        <Preferred_Codec_6_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_6_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_6_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_6_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_6_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_6_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_6_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_6_>
        <Codec_Negotiation_6_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_6_>

        <!-- LINE6 Dial Plan -->
        <Dial_Plan_6_ ua="na">%DIAL_PLAN%</Dial_Plan_6_>

        <!-- LINE6 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_6_ ua="na">%BROADSOFT_ACD_ENABLE-
6%</Broadsoft_ACD_6_>
        <Enable_Broadsoft_Hoteling_6_
ua="na">%BROADSOFT_HOTELING_ENABLE-
6%</Enable_Broadsoft_Hoteling_6_>
        <Call_Information_Enable_6_
ua="na">Yes</Call_Information_Enable_6_>
        <Disposition_Code_Enable_6_
ua="na">Yes</Disposition_Code_Enable_6_>
        <Trace_Enable_6_ ua="na">Yes</Trace_Enable_6_>
        <Emergency_Escalation_Enable_6_
ua="na">Yes</Emergency_Escalation_Enable_6_>
        <Queue_Status_Notification_Enable_6_
ua="na">Yes</Queue_Status_Notification_Enable_6_>

        <!--
            GUI SCREEN: Ext7 Tab
        -->

        <!-- LINE7 SIP Settings -->
        <SIP_100REL_Enable_7_
ua="na">Yes</SIP_100REL_Enable_7_>
        <Auth_INVITE_7_ ua="na">%AUTH_INVITE%</Auth_INVITE_7_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_7_ ua="na">No</SIP_Remote-Party-
ID_7_>
        <P-Early-Media_Support_7_
ua="na">%P_EARLY_MEDIA_SUPPORT_7%</P-Early-Media_Support_7_>
```

```
        <SIP_SessionID_Support_7_
ua="na">%SIP_SESSIONID_SUPPORT_7%</SIP_SessionID_Support_7_>
        <Use_low-bandwidth_OPUS_7_
ua="na">%USE_LOW_BANDWIDTH_OPUS_7%</Use_low-bandwidth_OPUS_7_>
        <MediaSec_Request_7_
ua="na">%MEDIASEC_REQUEST_7%</MediaSec_Request_7_>
        <MediaSec_Over_TLS_Only_7_
ua="na">%MEDIASEC_OVER_TLS_ONLY_7%</MediaSec_Over_TLS_Only_7_>

        <!-- LINE7 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_7_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_7_>

        <!-- LINE7 Proxy and Registration -->
        <Outbound_Proxy_7_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_7_>
        <Alternate_Outbound_Proxy_7_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_7_>
        <Use_DNS_SRV_7_ ua="na">Yes</Use_DNS_SRV_7_>
        <DNS_SRV_Auto_Prefix_7_
ua="na">Yes</DNS_SRV_Auto_Prefix_7_>
        <Proxy_Fallback_Intvl_7_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_7_>

        <!-- LINE7 Audio Configuration -->
        <Preferred_Codec_7_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_7_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_7_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_7_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_7_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_7_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_7_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_7_>
        <Codec_Negotiation_7_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_7_>

        <!-- LINE7 Dial Plan -->
        <Dial_Plan_7_ ua="na">%DIAL_PLAN%</Dial_Plan_7_>

        <!-- LINE7 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_7_ ua="na">%BROADSOFT_ACD_ENABLE-
7%</Broadsoft_ACD_7_>
        <Enable_Broadsoft_Hoteling_7_
ua="na">%BROADSOFT_HOTELING_ENABLE-
7%</Enable_Broadsoft_Hoteling_7_>
        <Call_Information_Enable_7_
ua="na">Yes</Call_Information_Enable_7_>
        <Disposition_Code_Enable_7_
ua="na">Yes</Disposition_Code_Enable_7_>
        <Trace_Enable_7_ ua="na">Yes</Trace_Enable_7_>
        <Emergency_Escalation_Enable_7_
ua="na">Yes</Emergency_Escalation_Enable_7_>
        <Queue_Status_Notification_Enable_7_
ua="na">Yes</Queue_Status_Notification_Enable_7_>

        <!--
            GUI SCREEN: Ext8 Tab
        -->
```

```
        <!-- LINE8 SIP Settings -->
        <SIP_100REL_Enable_8_
ua="na">Yes</SIP_100REL_Enable_8_>
        <Auth_INVITE_8_ ua="na">%AUTH_INVITE%</Auth_INVITE_8_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_8_ ua="na">No</SIP_Remote-Party-
ID_8_>
        <P-Early-Media_Support_8_
ua="na">%P_EARLY_MEDIA_SUPPORT_8%</P-Early-Media_Support_8_>
        <SIP_SessionID_Support_8_
ua="na">%SIP_SESSIONID_SUPPORT_8%</SIP_SessionID_Support_8_>
        <Use_low-bandwidth_OPUS_8_
ua="na">%USE_LOW_BANDWIDTH_OPUS_8%</Use_low-bandwidth_OPUS_8_>
        <MediaSec_Request_8_
ua="na">%MEDIASEC_REQUEST_8%</MediaSec_Request_8_>
        <MediaSec_Over_TLS_Only_8_
ua="na">%MEDIASEC_OVER_TLS_ONLY_8%</MediaSec_Over_TLS_Only_8_>

        <!-- LINE8 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_8_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_8_>

        <!-- LINE8 Proxy and Registration -->
        <Outbound_Proxy_8_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_8_>
        <Alternate_Outbound_Proxy_8_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_8_>
        <Use_DNS_SRV_8_ ua="na">Yes</Use_DNS_SRV_8_>
        <DNS_SRV_Auto_Prefix_8_
ua="na">Yes</DNS_SRV_Auto_Prefix_8_>
        <Proxy_Fallback_Intvl_8_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_8_>

        <!-- LINE8 Audio Configuration -->
        <Preferred_Codec_8_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_8_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_8_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_8_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_8_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_8_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_8_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_8_>
        <Codec_Negotiation_8_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_8_>

        <!-- LINE8 Dial Plan -->
        <Dial_Plan_8_ ua="na">%DIAL_PLAN%</Dial_Plan_8_>

        <!-- LINE8 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_8_ ua="na">%BROADSOFT_ACD_ENABLE-
8%</Broadsoft_ACD_8_>
        <Enable_Broadsoft_Hoteling_8_
ua="na">%BROADSOFT_HOTELING_ENABLE-
8%</Enable_Broadsoft_Hoteling_8_>
        <Call_Information_Enable_8_
ua="na">Yes</Call_Information_Enable_8_>
```

```
        <Disposition_Code_Enable_8_
ua="na">Yes</Disposition_Code_Enable_8_>
        <Trace_Enable_8_ ua="na">Yes</Trace_Enable_8_>
        <Emergency_Escalation_Enable_8_
ua="na">Yes</Emergency_Escalation_Enable_8_>
        <Queue_Status_Notification_Enable_8_
ua="na">Yes</Queue_Status_Notification_Enable_8_>

        <!--
            GUI SCREEN: Ext9 Tab
        -->

        <!-- LINE9 SIP Settings -->
        <SIP_100REL_Enable_9_
ua="na">Yes</SIP_100REL_Enable_9_>
        <Auth_INVITE_9_ ua="na">%AUTH_INVITE%</Auth_INVITE_9_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_9_ ua="na">No</SIP_Remote-Party-
ID_9_>
        <P-Early-Media_Support_9_
ua="na">%P_EARLY_MEDIA_SUPPORT_9%</P-Early-Media_Support_9_>
        <SIP_SessionID_Support_9_
ua="na">%SIP_SESSIONID_SUPPORT_9%</SIP_SessionID_Support_9_>
        <Use_low-bandwidth_OPUS_9_
ua="na">%USE_LOW_BANDWIDTH_OPUS_9%</Use_low-bandwidth_OPUS_9_>
        <MediaSec_Request_9_
ua="na">%MEDIASEC_REQUEST_9%</MediaSec_Request_9_>
        <MediaSec_Over_TLS_Only_9_
ua="na">%MEDIASEC_OVER_TLS_ONLY_9%</MediaSec_Over_TLS_Only_9_>

        <!-- LINE9 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_9_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_9_>

        <!-- LINE9 Proxy and Registration -->
        <Outbound_Proxy_9_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_9_>
        <Alternate_Outbound_Proxy_9_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_9_>
        <Use_DNS_SRV_9_ ua="na">Yes</Use_DNS_SRV_9_>
        <DNS_SRV_Auto_Prefix_9_
ua="na">Yes</DNS_SRV_Auto_Prefix_9_>
        <Proxy_Fallback_Intvl_9_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_9_>

        <!-- LINE9 Audio Configuration -->
        <Preferred_Codec_9_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_9_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_9_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_9_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_9_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_9_> <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_9_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_9_>
        <Codec_Negotiation_9_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_9_>

        <!-- LINE9 Dial Plan -->
```

```
        <Dial_Plan_9_ ua="na">%DIAL_PLAN%</Dial_Plan_9_>


        <!-- LINE8 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_9_ ua="na">%BROADSOFT_ACD_ENABLE-
9%</Broadsoft_ACD_9_>
        <Enable_Broadsoft_Hoteling_9_
ua="na">%BROADSOFT_HOTELING_ENABLE-
9%</Enable_Broadsoft_Hoteling_9_>
        <Call_Information_Enable_9_
ua="na">Yes</Call_Information_Enable_9_>
        <Disposition_Code_Enable_9_
ua="na">Yes</Disposition_Code_Enable_9_>
        <Trace_Enable_9_ ua="na">Yes</Trace_Enable_9_>
        <Emergency_Escalation_Enable_9_
ua="na">Yes</Emergency_Escalation_Enable_9_>
        <Queue_Status_Notification_Enable_9_
ua="na">Yes</Queue_Status_Notification_Enable_9_>

        <!--
            GUI SCREEN: Ext10 Tab
        -->

        <!-- LINE10 SIP Settings -->
        <SIP_100REL_Enable_10_
ua="na">Yes</SIP_100REL_Enable_10_>
        <Auth_INVITE_10_
ua="na">%AUTH_INVITE%</Auth_INVITE_10_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_10_ ua="na">No</SIP_Remote-Party-
ID_10_>
        <P-Early-Media_Support_10_
ua="na">%P_EARLY_MEDIA_SUPPORT_10%</P-Early-Media_Support_10_>
        <SIP_SessionID_Support_10_
ua="na">%SIP_SESSIONID_SUPPORT_10%</SIP_SessionID_Support_10_>
        <Use_low-bandwidth_OPUS_10_
ua="na">%USE_LOW_BANDWIDTH_OPUS_10%</Use_low-
bandwidth_OPUS_10_>
        <MediaSec_Request_10_
ua="na">%MEDIASEC_REQUEST_10%</MediaSec_Request_10_>
        <MediaSec_Over_TLS_Only_10_
ua="na">%MEDIASEC_OVER_TLS_ONLY_10%</MediaSec_Over_TLS_Only_10
_>

        <!-- LINE10 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_10_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_10_>

        <!-- LINE10 Proxy and Registration -->
        <Outbound_Proxy_10_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_10_>
        <Alternate_Outbound_Proxy_10_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_10_>
        <Use_DNS_SRV_10_ ua="na">Yes</Use_DNS_SRV_10_>
        <DNS_SRV_Auto_Prefix_10_
ua="na">Yes</DNS_SRV_Auto_Prefix_10_>
        <Proxy_Fallback_Intvl_10_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_10_>

        <!-- LINE10 Audio Configuration -->
```

```
        <Preferred_Codec_10_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_10_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_10_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_10_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_10_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_10_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_10_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_10_>
        <Codec_Negotiation_10_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_10_>

        <!-- LINE10 Dial Plan -->
        <Dial_Plan_10_ ua="na">%DIAL_PLAN%</Dial_Plan_10_>

        <!-- LINE10 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_10_ ua="na">%BROADSOFT_ACD_ENABLE-
10%</Broadsoft_ACD_10_>
        <Enable_Broadsoft_Hoteling_10_
ua="na">%BROADSOFT_HOTELING_ENABLE-
10%</Enable_Broadsoft_Hoteling_10_>
        <Call_Information_Enable_10_
ua="na">Yes</Call_Information_Enable_10_>
        <Disposition_Code_Enable_10_
ua="na">Yes</Disposition_Code_Enable_10_>
        <Trace_Enable_10_ ua="na">Yes</Trace_Enable_10_>
        <Emergency_Escalation_Enable_10_
ua="na">Yes</Emergency_Escalation_Enable_10_>
        <Queue_Status_Notification_Enable_10_
ua="na">Yes</Queue_Status_Notification_Enable_10_>

        <!--
            GUI SCREEN: Ext11 Tab
        -->

        <!-- LINE11 SIP Settings -->
        <SIP_100REL_Enable_11_
ua="na">Yes</SIP_100REL_Enable_11_>
        <Auth_INVITE_11_
ua="na">%AUTH_INVITE%</Auth_INVITE_11_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_11_ ua="na">No</SIP_Remote-Party-
ID_11_>
        <P-Early-Media_Support_11_
ua="na">%P_EARLY_MEDIA_SUPPORT_11%</P-Early-Media_Support_11_>
        <SIP_SessionID_Support_11_
ua="na">%SIP_SESSIONID_SUPPORT_11%</SIP_SessionID_Support_11_>
        <Use_low-bandwidth_OPUS_11_
ua="na">%USE_LOW_BANDWIDTH_OPUS_11%</Use_low-
bandwidth_OPUS_11_>
        <MediaSec_Request_11_
ua="na">%MEDIASEC_REQUEST_11%</MediaSec_Request_11_>
        <MediaSec_Over_TLS_Only_11_
ua="na">%MEDIASEC_OVER_TLS_ONLY_11%</MediaSec_Over_TLS_Only_11
_>

        <!-- LINE11 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_11_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_11_>
```

```
        <!-- LINE11 Proxy and Registration -->
        <Outbound_Proxy_11_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_11_>
        <Alternate_Outbound_Proxy_11_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_11_>
        <Use_DNS_SRV_11_ ua="na">Yes</Use_DNS_SRV_11_>
        <DNS_SRV_Auto_Prefix_11_
ua="na">Yes</DNS_SRV_Auto_Prefix_11_>
        <Proxy_Fallback_Intvl_11_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_11_>

        <!-- LINE11 Audio Configuration -->
        <Preferred_Codec_11_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_11_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_11_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_11_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_11_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_11_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_11_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_11_>
        <Codec_Negotiation_11_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_11_>

        <!-- LINE11 Dial Plan -->
        <Dial_Plan_11_ ua="na">%DIAL_PLAN%</Dial_Plan_11_>

        <!-- LINE11 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_11_ ua="na">%BROADSOFT_ACD_ENABLE-
11%</Broadsoft_ACD_11_>
        <Enable_Broadsoft_Hoteling_11_
ua="na">%BROADSOFT_HOTELING_ENABLE-
11%</Enable_Broadsoft_Hoteling_11_>
        <Call_Information_Enable_11_
ua="na">Yes</Call_Information_Enable_11_>
        <Disposition_Code_Enable_11_
ua="na">Yes</Disposition_Code_Enable_11_>
        <Trace_Enable_11_ ua="na">Yes</Trace_Enable_11_>
        <Emergency_Escalation_Enable_11_
ua="na">Yes</Emergency_Escalation_Enable_11_>
        <Queue_Status_Notification_Enable_11_
ua="na">Yes</Queue_Status_Notification_Enable_11_>

        <!--
            GUI SCREEN: Ext12 Tab
        -->

        <!-- LINE12 SIP Settings -->
        <SIP_100REL_Enable_12_
ua="na">Yes</SIP_100REL_Enable_12_>
        <Auth_INVITE_12_
ua="na">%AUTH_INVITE%</Auth_INVITE_12_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_12_ ua="na">No</SIP_Remote-Party-
ID_12_>
        <P-Early-Media_Support_12_
ua="na">%P_EARLY_MEDIA_SUPPORT_12%</P-Early-Media_Support_12_>
        <SIP_SessionID_Support_12_
ua="na">%SIP_SESSIONID_SUPPORT_12%</SIP_SessionID_Support_12_>
```

```
        <Use_low-bandwidth_OPUS_12_
ua="na">%USE_LOW_BANDWIDTH_OPUS_12%</Use_low-
bandwidth_OPUS_12_>
        <MediaSec_Request_12_
ua="na">%MEDIASEC_REQUEST_12%</MediaSec_Request_12_>
        <MediaSec_Over_TLS_Only_12_
ua="na">%MEDIASEC_OVER_TLS_ONLY_12%</MediaSec_Over_TLS_Only_12
_>

        <!-- LINE12 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_12_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_12_>

        <!-- LINE12 Proxy and Registration -->
        <Outbound_Proxy_12_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_12_>
        <Alternate_Outbound_Proxy_12_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_12_>
        <Use_DNS_SRV_12_ ua="na">Yes</Use_DNS_SRV_12_>
        <DNS_SRV_Auto_Prefix_12_
ua="na">Yes</DNS_SRV_Auto_Prefix_12_>
        <Proxy_Fallback_Intvl_12_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_12_>

        <!-- LINE12 Audio Configuration -->
        <Preferred_Codec_12_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_12_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_12_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_12_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_12_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_12_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_12_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_12_>
        <Codec_Negotiation_12_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_12_>


        <!-- LINE12 Dial Plan -->
        <Dial_Plan_12_ ua="na">%DIAL_PLAN%</Dial_Plan_12_>

        <!-- LINE12 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_12_ ua="na">%BROADSOFT_ACD_ENABLE-
12%</Broadsoft_ACD_12_>
        <Enable_Broadsoft_Hoteling_12_
ua="na">%BROADSOFT_HOTELING_ENABLE-
12%</Enable_Broadsoft_Hoteling_12_>
        <Call_Information_Enable_12_
ua="na">Yes</Call_Information_Enable_12_>
        <Disposition_Code_Enable_12_
ua="na">Yes</Disposition_Code_Enable_12_>
        <Trace_Enable_12_ ua="na">Yes</Trace_Enable_12_>
        <Emergency_Escalation_Enable_12_
ua="na">Yes</Emergency_Escalation_Enable_12_>
        <Queue_Status_Notification_Enable_12_
ua="na">Yes</Queue_Status_Notification_Enable_12_>

        <!--
            GUI SCREEN: Ext13 Tab
```

```
        -->

        <!-- LINE13 SIP Settings -->
        <SIP_100REL_Enable_13_
ua="na">Yes</SIP_100REL_Enable_13_>
        <Auth_INVITE_13_
ua="na">%AUTH_INVITE%</Auth_INVITE_13_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_13_ ua="na">No</SIP_Remote-Party-
ID_13_>
        <P-Early-Media_Support_13_
ua="na">%P_EARLY_MEDIA_SUPPORT_13%</P-Early-Media_Support_13_>
        <SIP_SessionID_Support_13_
ua="na">%SIP_SESSIONID_SUPPORT_13%</SIP_SessionID_Support_13_>
        <Use_low-bandwidth_OPUS_13_
ua="na">%USE_LOW_BANDWIDTH_OPUS_13%</Use_low-
bandwidth_OPUS_13_>
        <MediaSec_Request_13_
ua="na">%MEDIASEC_REQUEST_13%</MediaSec_Request_13_>
        <MediaSec_Over_TLS_Only_13_
ua="na">%MEDIASEC_OVER_TLS_ONLY_13%</MediaSec_Over_TLS_Only_13
_>

        <!-- LINE13 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_13_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_13_>

        <!-- LINE13 Proxy and Registration -->
        <Outbound_Proxy_13_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_13_>
        <Alternate_Outbound_Proxy_13_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_13_>
        <Use_DNS_SRV_13_ ua="na">Yes</Use_DNS_SRV_13_>
        <DNS_SRV_Auto_Prefix_13_
ua="na">Yes</DNS_SRV_Auto_Prefix_13_>
        <Proxy_Fallback_Intvl_13_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_13_>

        <!-- LINE13 Audio Configuration -->
        <Preferred_Codec_13_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_13_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_13_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_13_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_13_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_13_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_13_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_13_>
        <Codec_Negotiation_13_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_13_>

        <!-- LINE13 Dial Plan -->
        <Dial_Plan_13_ ua="na">%DIAL_PLAN%</Dial_Plan_13_>

        <!-- LINE13 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_13_ ua="na">%BROADSOFT_ACD_ENABLE-
13%</Broadsoft_ACD_13_>
```

```
        <Enable_Broadsoft_Hoteling_13_
ua="na">%BROADSOFT_HOTELING_ENABLE-
13%</Enable_Broadsoft_Hoteling_13_>
        <Call_Information_Enable_13_
ua="na">Yes</Call_Information_Enable_13_>
        <Disposition_Code_Enable_13_
ua="na">Yes</Disposition_Code_Enable_13_>
        <Trace_Enable_13_ ua="na">Yes</Trace_Enable_13_>
        <Emergency_Escalation_Enable_13_
ua="na">Yes</Emergency_Escalation_Enable_13_>
        <Queue_Status_Notification_Enable_13_
ua="na">Yes</Queue_Status_Notification_Enable_13_>


        <!--
            GUI SCREEN: Ext14 Tab
        -->

        <!-- LINE14 SIP Settings -->
        <SIP_100REL_Enable_14_
ua="na">Yes</SIP_100REL_Enable_14_>
        <Auth_INVITE_14_
ua="na">%AUTH_INVITE%</Auth_INVITE_14_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_14_ ua="na">No</SIP_Remote-Party-
ID_14_>
        <P-Early-Media_Support_14_
ua="na">%P_EARLY_MEDIA_SUPPORT_14%</P-Early-Media_Support_14_>
        <SIP_SessionID_Support_14_
ua="na">%SIP_SESSIONID_SUPPORT_14%</SIP_SessionID_Support_14_>
        <Use_low-bandwidth_OPUS_14_
ua="na">%USE_LOW_BANDWIDTH_OPUS_14%</Use_low-
bandwidth_OPUS_14_>
        <MediaSec_Request_14_
ua="na">%MEDIASEC_REQUEST_14%</MediaSec_Request_14_>
        <MediaSec_Over_TLS_Only_14_
ua="na">%MEDIASEC_OVER_TLS_ONLY_14%</MediaSec_Over_TLS_Only_14
_>

        <!-- LINE14 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_14_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_14_>

        <!-- LINE14 Proxy and Registration -->
        <Outbound_Proxy_14_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_14_>
        <Alternate_Outbound_Proxy_14_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_14_>
        <Use_DNS_SRV_14_ ua="na">Yes</Use_DNS_SRV_14_>
        <DNS_SRV_Auto_Prefix_14_
ua="na">Yes</DNS_SRV_Auto_Prefix_14_>
        <Proxy_Fallback_Intvl_14_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_14_>

        <!-- LINE14 Audio Configuration -->
        <Preferred_Codec_14_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_14_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_14_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_14_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
```

```
        <Third_Preferred_Codec_14_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_14_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_14_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_14_>
        <Codec_Negotiation_14_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_14_>

        <!-- LINE14 Dial Plan -->
        <Dial_Plan_14_ ua="na">%DIAL_PLAN%</Dial_Plan_14_>


        <!-- LINE14 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_14_ ua="na">%BROADSOFT_ACD_ENABLE-
14%</Broadsoft_ACD_14_>
        <Enable_Broadsoft_Hoteling_14_
ua="na">%BROADSOFT_HOTELING_ENABLE-
14%</Enable_Broadsoft_Hoteling_14_>
        <Call_Information_Enable_14_
ua="na">Yes</Call_Information_Enable_14_>
        <Disposition_Code_Enable_14_
ua="na">Yes</Disposition_Code_Enable_14_>
        <Trace_Enable_14_ ua="na">Yes</Trace_Enable_14_>
        <Emergency_Escalation_Enable_14_
ua="na">Yes</Emergency_Escalation_Enable_14_>
        <Queue_Status_Notification_Enable_14_
ua="na">Yes</Queue_Status_Notification_Enable_14_>


        <!--
            GUI SCREEN: Ext15 Tab
        -->

        <!-- LINE15 SIP Settings -->
        <SIP_100REL_Enable_15_
ua="na">Yes</SIP_100REL_Enable_15_>
        <Auth_INVITE_15_
ua="na">%AUTH_INVITE%</Auth_INVITE_15_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_15_ ua="na">No</SIP_Remote-Party-
ID_15_>
        <P-Early-Media_Support_15_
ua="na">%P_EARLY_MEDIA_SUPPORT_15%</P-Early-Media_Support_15_>
        <SIP_SessionID_Support_15_
ua="na">%SIP_SESSIONID_SUPPORT_15%</SIP_SessionID_Support_15_>
        <Use_low-bandwidth_OPUS_15_
ua="na">%USE_LOW_BANDWIDTH_OPUS_15%</Use_low-
bandwidth_OPUS_15_>
        <MediaSec_Request_15_
ua="na">%MEDIASEC_REQUEST_15%</MediaSec_Request_15_>
        <MediaSec_Over_TLS_Only_15_
ua="na">%MEDIASEC_OVER_TLS_ONLY_15%</MediaSec_Over_TLS_Only_15
_>

        <!-- LINE15 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_15_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_15_>

        <!-- LINE15 Proxy and Registration -->
        <Outbound_Proxy_15_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_15_>
```

```
        <Alternate_Outbound_Proxy_15_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_15_>
        <Use_DNS_SRV_15_ ua="na">Yes</Use_DNS_SRV_15_>
        <DNS_SRV_Auto_Prefix_15_
ua="na">Yes</DNS_SRV_Auto_Prefix_15_>
        <Proxy_Fallback_Intvl_15_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_15_>

        <!-- LINE15 Audio Configuration -->
        <Preferred_Codec_15_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_15_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_15_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_15_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_15_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_15_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_15_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_15_>
        <Codec_Negotiation_15_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_15_>

        <!-- LINE15 Dial Plan -->
        <Dial_Plan_15_ ua="na">%DIAL_PLAN%</Dial_Plan_15_>

        <!-- LINE15 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_15_ ua="na">%BROADSOFT_ACD_ENABLE-
15%</Broadsoft_ACD_15_>
        <Enable_Broadsoft_Hoteling_15_
ua="na">%BROADSOFT_HOTELING_ENABLE-
15%</Enable_Broadsoft_Hoteling_15_>
        <Call_Information_Enable_15_
ua="na">Yes</Call_Information_Enable_15_>
        <Disposition_Code_Enable_15_
ua="na">Yes</Disposition_Code_Enable_15_>
        <Trace_Enable_15_ ua="na">Yes</Trace_Enable_15_>
        <Emergency_Escalation_Enable_15_
ua="na">Yes</Emergency_Escalation_Enable_15_>
        <Queue_Status_Notification_Enable_15_
ua="na">Yes</Queue_Status_Notification_Enable_15_>


        <!--
            GUI SCREEN: Ext16 Tab
        -->

        <!-- LINE16 SIP Settings -->
        <SIP_100REL_Enable_16_
ua="na">Yes</SIP_100REL_Enable_16_>
        <Auth_INVITE_16_
ua="na">%AUTH_INVITE%</Auth_INVITE_16_> <!-- Enable Yes if
Device Auth is desired -->
        <SIP_Remote-Party-ID_16_ ua="na">No</SIP_Remote-Party-
ID_16_>
        <P-Early-Media_Support_16_
ua="na">%P_EARLY_MEDIA_SUPPORT_16%</P-Early-Media_Support_16_>
        <SIP_SessionID_Support_16_
ua="na">%SIP_SESSIONID_SUPPORT_16%</SIP_SessionID_Support_16_>
        <Use_low-bandwidth_OPUS_16_
ua="na">%USE_LOW_BANDWIDTH_OPUS_16%</Use_low-
bandwidth_OPUS_16_>
```

```
        <MediaSec_Request_16_
ua="na">%MEDIASEC_REQUEST_16%</MediaSec_Request_16_>
        <MediaSec_Over_TLS_Only_16_
ua="na">%MEDIASEC_OVER_TLS_ONLY_16%</MediaSec_Over_TLS_Only_16
_>

        <!-- LINE1 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_16_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_16_>

        <!-- LINE16 Proxy and Registration -->
        <Outbound_Proxy_16_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_16_>
        <Alternate_Outbound_Proxy_16_
ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy_16_>
        <Use_DNS_SRV_16_ ua="na">Yes</Use_DNS_SRV_16_>
        <DNS_SRV_Auto_Prefix_16_
ua="na">Yes</DNS_SRV_Auto_Prefix_16_>
        <Proxy_Fallback_Intvl_16_
ua="na">%FAILBACK_INTVL%</Proxy_Fallback_Intvl_16_>

        <!-- LINE16 Audio Configuration -->
        <Preferred_Codec_16_
ua="na">%PREFERRED_CODEC%</Preferred_Codec_16_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_Preferred_Codec_16_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Preferred_Codec_16_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_16_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_16_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_16_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_16_>
        <Codec_Negotiation_16_
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_16_>

        <!-- LINE16 Dial Plan -->
        <Dial_Plan_16_ ua="na">%DIAL_PLAN%</Dial_Plan_16_>

        <!-- LINE16 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_16_ ua="na">%BROADSOFT_ACD_ENABLE-
16%</Broadsoft_ACD_16_>
        <Enable_Broadsoft_Hoteling_16_
ua="na">%BROADSOFT_HOTELING_ENABLE-
16%</Enable_Broadsoft_Hoteling_16_>
        <Call_Information_Enable_16_
ua="na">Yes</Call_Information_Enable_16_>
        <Disposition_Code_Enable_16_
ua="na">Yes</Disposition_Code_Enable_16_>
        <Trace_Enable_16_ ua="na">Yes</Trace_Enable_16_>
        <Emergency_Escalation_Enable_16_
ua="na">Yes</Emergency_Escalation_Enable_16_>
        <Queue_Status_Notification_Enable_16_
ua="na">Yes</Queue_Status_Notification_Enable_16_>

        <!--
             GUI SCREEN: Voice Tab - Att Console
        -->

        <!-- BLF List Feature Options -->
```

```
                <BLF_List_Feature_Options
            ua="na">%BLF_LIST_FEATURE_OPTIONS%</BLF_List_Feature_Options>

            </flat-profile>
        </device>
```

Family-Specific-file: CiscoDev_Type78xx.xml

```
        <?xml version="1.0" encoding="UTF-8"?>
        <device  xsi:type="axl:XIPPhone"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <flat-profile>

                <!--
                     GUI SCREEN: Voice Tab->SIP Tab
                -->


                <!--
                    GUI SCREEN: Voice Tab->Provisioning Tab
                -->


                <!-- Device Profile Folder (Opt1) -->
                <Upgrade_Rule
        ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
        ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%FIRMWARE_VERSION_CP-
        7800-3PCC%</Upgrade_Rule>
                <Profile_Rule_C
        ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
        ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_CiscoDev.xml</Profi
        le_Rule_C>


                <!-- Screen Saver -->
                <Logo_URL ua="rw">%7800_LOGO_PIC_URL%</Logo_URL>
                <Picture_Download_URL
        ua="rw">%7800_WALLPAPER_PIC_URL%</Picture_Download_URL>

                <!-- Localization -->
                <!--
                    Example Script supporting English/French/Spanish.
                    Device supports up to 10 language indexes.  512
        character string length max.

                <Dictionary_Server_Script
        ua="na">serv=http://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/
        %BWDMSCONTEXT%/%BWDEVICEACCESSURI%;d1=Spanish;l1=es-ES;x1=es-
        ES.tar;d2=French;l2=fr-FR;x2=fr-
        FR.tar</Dictionary_Server_Script>
                -->
                <Dictionary_Server_Script
        ua="na">serv=%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEAC
        CESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%;%DICTIONARY_SERVE
        R_SCRIPT_7800%</Dictionary_Server_Script>

                <!--
                    GUI SCREEN: Voice Tab->Regional Tab
                -->

                <!-- Vertical Service Activation Codes -->
```

```
        <!--
            GUI SCREEN: Voice Tab ->Phone Tab
        -->

        <!-- Line Key LED Pattern (Not Applicable for 7832) --
>
        <Custom_LED_Type
ua="na">%CUSTOM_LED_TYPE%</Custom_LED_Type>
        <Disabled_LED ua="na">%DISABLED_LED%</Disabled_LED>
        <Idle_LED ua="na">%IDLE_LED%</Idle_LED>
        <Remote_Undefined_LED
ua="na">%REMOTE_UNDEFINED_LED%</Remote_Undefined_LED>
        <Local_Seized_LED
ua="na">%LOCAL_SEIZED_LED%</Local_Seized_LED>
        <Remote_Seized_LED
ua="na">%REMOTE_SEIZED_LED%</Remote_Seized_LED>
        <Local_Progressing_LED
ua="na">%LOCAL_PROGRESSING_LED%</Local_Progressing_LED>
        <Remote_Progressing_LED
ua="na">%REMOTE_PROGRESSING_LED%</Remote_Progressing_LED>
        <Local_Ringing_LED
ua="na">%LOCAL_RINGING_LED%</Local_Ringing_LED>
        <Remote_Ringing_LED
ua="na">%REMOTE_RINGING_LED%</Remote_Ringing_LED>
        <Local_Active_LED
ua="na">%LOCAL_ACTIVE_LED%</Local_Active_LED>
        <Remote_Active_LED
ua="na">%REMOTE_ACTIVE_LED%</Remote_Active_LED>
        <Local_Held_LED
ua="na">%LOCAL_HELD_LED%</Local_Held_LED>
        <Remote_Held_LED
ua="na">%REMOTE_HELD_LED%</Remote_Held_LED>
        <Register_Failed_LED
ua="na">%REGISTER_FAILED_LED%</Register_Failed_LED>
        <Registering_LED
ua="na">%REGISTERING_LED%</Registering_LED>


        <!--
            GUI SCREEN: Voice Tab ->User Tab
        -->


        <!--
            GUI SCREEN: Ext1 Tab
        -->


        <!--
        GUI SCREEN: Voice Tab->Att Console Tab
        -->

        <!-- Att Console Key LED Pattern (Not Applicable for
7832) -->
        <Application_LED
ua="na">%APPLICATION_LED%</Application_LED>
        <Serv_Subscribe_Failed_LED
ua="na">%SERV_SUBSCRIBE_FAILED_LED%</Serv_Subscribe_Failed_LED
>
```

```
        <Serv_Subscribing_LED
ua="na">%SERV_SUBSCRIBING_LED%</Serv_Subscribing_LED>
        <Parking_Lot_Idle_LED
ua="na">%PARKING_LOT_IDLE_LED%</Parking_Lot_Idle_LED>
        <Parking_Lot_Busy_LED
ua="na">%PARKING_LOT_BUSY_LED%</Parking_Lot_Busy_LED>
        <BLF_Idle_LED ua="na">%BLF_IDLE_LED%</BLF_Idle_LED>
        <BLF_Ringing_LED
ua="na">%BLF_RINGING_LED%</BLF_Ringing_LED>
        <BLF_Busy_LED ua="na">%BLF_BUSY_LED%</BLF_Busy_LED>
        <BLF_Held_LED ua="na">%BLF_HELD_LED%</BLF_Held_LED>


    </flat-profile>
</device>
```

Phone-Specific File: <mac-address>_CiscoDev.xml

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device  xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <flat-profile>

        <!--
        GUI SCREEN: Voice Tab->System Tab
        -->

        <!-- DNS Settings-->
        <Primary_DNS ua="rw">%DNS_SERVER_1%</Primary_DNS>
        <Secondary_DNS ua="rw">%DNS_SERVER_2%</Secondary_DNS>

        <!--
        GUI SCREEN: Voice Tab->SIP Tab
        -->

        <!-- SIP Parameters -->
        <SIP_TCP_Port_Min
ua="na">%SIP_TCP_MIN%</SIP_TCP_Port_Min>
        <SIP_TCP_Port_Max
ua="na">%SIP_TCP_MAX%</SIP_TCP_Port_Max>


        <!-- Profile Rule Resync Timers -->
        <Resync_On_Reset ua="na">Yes</Resync_On_Reset>
        <Resync_At__HHmm_
ua="na">%RESYNC_TIME%</Resync_At__HHmm_>
        <Resync_At_Random_Delay
ua="na">%RESYNC_AT_RANDOM_DELAY%</Resync_At_Random_Delay>

        <Resync_Periodic
ua="na">%RESYNC_PERIODIC%</Resync_Periodic>
        <Resync_Error_Retry_Delay
ua="na">%RESYNC_ERROR%</Resync_Error_Retry_Delay>
        <Forced_Resync_Delay
ua="na">%RESYNC_FORCED%</Forced_Resync_Delay>
```

```
        <!--
**************************************************************
-->
        <!-- Broadsoft XSI Directory and CallLog
-->
        <!--
**************************************************************
-->
        <Login_User_ID ua="na">%BWLOGIN-ID-1%</Login_User_ID>
        <Login_Password ua="na">%XSIPASSWORD-
1%</Login_Password>

        <SIP_Auth_ID ua="na">%BWAUTHUSER-1%</SIP_Auth_ID>
        <SIP_Password ua="na">%BWAUTHPASSWORD-
1%</SIP_Password>

        <!-- Broadsoft XMPP -->
        <XMPP_Server ua="na">%BW_IMP_SERVICE_NET_ADDRESS-
1%</XMPP_Server>
        <XMPP_Port ua="na">%BW_IMP_SERVICE_PORT-1%</XMPP_Port>
        <XMPP_User_ID ua="na">%BW_USER_IMP_ID-
1%</XMPP_User_ID>
        <XMPP_Password ua="na">%BW_USER_IMP_PWD-
1%</XMPP_Password>

        <!--
        GUI SCREEN: Voice Tab->Provisioning Tab
        -->

        <!-- Profile Rule Resync Timers -->


        <!--
        GUI SCREEN: Voice Tab->Regional Tab
        -->

        <!-- Time Zone -->
        <Time_Zone ua="na">%BWTIMEZONE-1%</Time_Zone>

        <!-- Daylight Savings Time -->
        <Daylight_Saving_Time_Rule
ua="na">%DAYLIGHT_SAVING_TIME%</Daylight_Saving_Time_Rule> <!-
- options: Setting for North America Only; Refer to Admin
Guide for setting in your region -->
        <Daylight_Saving_Time_Enable
ua="na">%DAYLIGHT_SAVING_TIME_ENABLE%</Daylight_Saving_Time_En
able>

        <Language_Selection ua="na">%BWLANGUAGE-
1%</Language_Selection>

        <!-- Vertical Service Activation Codes -->
        <!-- Exec Admin -->
        <Exec_Assistant_Call_Initiate_Code
ua="na">%Exec_Assistant_Call_Initiate_Code%</Exec_Assistant_Ca
ll_Initiate_Code>
        <Exec_Call_Filter_Act_Code
ua="na">%Exec_Call_Filter_Act_Code%</Exec_Call_Filter_Act_Code
>
        <Exec_Call_Filter_Deact_Code
ua="na">%Exec_Call_Filter_Deact_Code%</Exec_Call_Filter_Deact_
Code>
```

```
        <Exec_Assistant_Call_Push_Code
ua="na">%Exec_Assistant_Call_Push_Code%</Exec_Assistant_Call_P
ush_Code>
        <Exec_Call_Retrieve_Code
ua="na">%Exec_Call_Retrieve_Code%</Exec_Call_Retrieve_Code>
        <Exec_Call_Bridge_Code
ua="na">%Exec_Call_Bridge_Code%</Exec_Call_Bridge_Code>

        <!--
        GUI SCREEN: Voice Tab->Phone Tab
        -->

        <!-- Audio Settings -->
        <Tune_speaker ua="rw">%Tune_speaker%</Tune_speaker>
        <Microphone_Gain
ua="rw">%Microphone_Gain%</Microphone_Gain>
        <Sidetone ua="rw">%Sidetone%</Sidetone>

        <!-- General -->
        <Station_Display_Name ua="na">%BWNAME-
1%</Station_Display_Name>

        <!-- Voicemail Number-->
        <Voice_Mail_Number ua="na">%BWVOICE-PORTAL-NUMBER-
1%</Voice_Mail_Number>

        <!-- Call Appearances Per Line -->
        <Call_Appearances_Per_Line
ua="na">%CALL_APPEARANCE%</Call_Appearances_Per_Line>

        <!--
        GUI SCREEN: Voice Tab->Ext1 Tab
        -->

        <!-- LINE1 SIP Settings -->
        <SIP_Transport_1_ ua="na">%SIP_TRANSPORT-
1%</SIP_Transport_1_>
        <SIP_UDP_Port_1_ ua="na">%SIP_UDP_PORT-
1%</SIP_UDP_Port_1_>

        <!-- LINE1 Share Line Appearance -->
        <Share_Ext_1_ ua="na">%BWSHAREDLINE-ENABLED-
1%</Share_Ext_1_>
        <Shared_User_ID_1_ ua="na">%BWLINEPORT-
1%</Shared_User_ID_1_>
        <Subscription_Expires_1_
ua="na">3600</Subscription_Expires_1_>

        <!-- LINE1 Call Feature Settings -->
        <Feature_Key_Sync_1_ ua="na">%BWDFS-ENABLED-
1%</Feature_Key_Sync_1_>
        <Auto_Ans_Page_On_Active_Call_1_
ua="na">%AUTO_ANS_ON_CALL-1%</Auto_Ans_Page_On_Active_Call_1_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE1 Proxy and Registration -->
        <Proxy_1_ ua="na">%BWHOST-1%</Proxy_1_>

        <!-- LINE1 Subscriber Information -->
        <Display_Name_1_ ua="na">%BWNAME-1%</Display_Name_1_>
        <User_ID_1_ ua="na">%BWLINEPORT-1%</User_ID_1_>
        <Password_1_ ua="na">%BWAUTHPASSWORD-1%</Password_1_>
```

```
        <Auth_ID_1_ ua="na">%BWAUTHUSER-1%</Auth_ID_1_>
        <Reversed_Auth_Realm_1_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_1_>

        <!-- LINE1 Call Feature Settings -->
        <Conference_Bridge_URL_1_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-1%</Conference_Bridge_URL_1_>
        <Broadsoft_ACD_1_ ua="na">%BROADSOFT_ACD_ENABLE-
1%</Broadsoft_ACD_1_>
        <Enable_Broadsoft_Hoteling_1_
ua="na">%BROADSOFT_HOTELING_ENABLE-
1%</Enable_Broadsoft_Hoteling_1_>

        <!-- XSI Line Service -->
        <Login_User_ID_1_ ua="na"/>
        <Login_Password_1_ ua="na"/>

        <!-- RTP TOS Settings -->
        <Video_RTP_TOS_DiffServ_Value_1_
ua="na">%Video_RTP_TOS_DiffServ_Value_1_%</Video_RTP_TOS_DiffS
erv_Value_1_>

        <!--
        GUI SCREEN: Voice Tab->Ext2 Tab
        -->

        <!-- LINE2 SIP Settings -->
        <SIP_Transport_2_ ua="na">%SIP_TRANSPORT-
2%</SIP_Transport_2_>
        <SIP_UDP_Port_2_ ua="na">%SIP_UDP_PORT-
2%</SIP_UDP_Port_2_>

        <!-- LINE2 Share Line Appearance -->
        <Share_Ext_2_ ua="na">%BWSHAREDLINE-ENABLED-
2%</Share_Ext_2_>
        <Shared_User_ID_2_ ua="na">%BWLINEPORT-
2%</Shared_User_ID_2_>
        <Subscription_Expires_2_
ua="na">3600</Subscription_Expires_2_>

        <!-- LINE2 Call Feature Settings -->
        <Feature_Key_Sync_2_ ua="na">%BWDFS-ENABLED-
2%</Feature_Key_Sync_2_>
        <Auto_Ans_Page_On_Active_Call_2_
ua="na">%AUTO_ANS_ON_CALL-2%</Auto_Ans_Page_On_Active_Call_2_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE2 Proxy and Registration -->
        <Proxy_2_ ua="na">%BWHOST-2%</Proxy_2_>

        <!-- LINE2 Subscriber Information -->
        <Display_Name_2_ ua="na">%BWNAME-2%</Display_Name_2_>
        <User_ID_2_ ua="na">%BWLINEPORT-2%</User_ID_2_>
        <Password_2_ ua="na">%BWAUTHPASSWORD-2%</Password_2_>
        <Auth_ID_2_ ua="na">%BWAUTHUSER-2%</Auth_ID_2_>
        <Reversed_Auth_Realm_2_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_2_>

        <!-- LINE2 Call Feature Settings -->
        <Conference_Bridge_URL_2_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-2%</Conference_Bridge_URL_2_>
```

```
        <Broadsoft_ACD_2_ ua="na">%BROADSOFT_ACD_ENABLE-
2%</Broadsoft_ACD_2_>
        <Enable_Broadsoft_Hoteling_2_
ua="na">%BROADSOFT_HOTELING_ENABLE-
2%</Enable_Broadsoft_Hoteling_2_>

        <!--
        GUI SCREEN: Voice Tab->Ext3 Tab
        -->

        <!-- LINE3 SIP Settings -->
        <SIP_Transport_3_ ua="na">%SIP_TRANSPORT-
3%</SIP_Transport_3_>
        <SIP_UDP_Port_3_ ua="na">%SIP_UDP_PORT-
3%</SIP_UDP_Port_3_>

        <!-- LINE3 Share Line Appearance -->
        <Share_Ext_3_ ua="na">%BWSHAREDLINE-ENABLED-
3%</Share_Ext_3_>
        <Shared_User_ID_3_ ua="na">%BWLINEPORT-
3%</Shared_User_ID_3_>
        <Subscription_Expires_3_
ua="na">3600</Subscription_Expires_3_>

        <!-- LINE3 Call Feature Settings -->
        <Feature_Key_Sync_3_ ua="na">%BWDFS-ENABLED-
3%</Feature_Key_Sync_3_>
        <Auto_Ans_Page_On_Active_Call_3_
ua="na">%AUTO_ANS_ON_CALL-3%</Auto_Ans_Page_On_Active_Call_3_>

        <!-- LINE3 Proxy and Registration -->
        <Proxy_3_ ua="na">%BWHOST-3%</Proxy_3_>

        <!-- LINE3 Subscriber Information -->
        <Display_Name_3_ ua="na">%BWNAME-3%</Display_Name_3_>
        <User_ID_3_ ua="na">%BWLINEPORT-3%</User_ID_3_>
        <Password_3_ ua="na">%BWAUTHPASSWORD-3%</Password_3_>
        <Auth_ID_3_ ua="na">%BWAUTHUSER-3%</Auth_ID_3_>
        <Reversed_Auth_Realm_3_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_3_>

        <!-- LINE3 Call Feature Settings -->
        <Conference_Bridge_URL_3_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-3%</Conference_Bridge_URL_3_>
        <Broadsoft_ACD_3_ ua="na">%BROADSOFT_ACD_ENABLE-
3%</Broadsoft_ACD_3_>
        <Enable_Broadsoft_Hoteling_3_
ua="na">%BROADSOFT_HOTELING_ENABLE-
3%</Enable_Broadsoft_Hoteling_3_>

        <!--
        GUI SCREEN: Voice Tab->Ext4 Tab
        -->

        <!-- LINE4 SIP Settings -->
        <SIP_Transport_4_ ua="na">%SIP_TRANSPORT-
4%</SIP_Transport_4_>
        <SIP_UDP_Port_4_ ua="na">%SIP_UDP_PORT-
4%</SIP_UDP_Port_4_>

        <!-- LINE4 Share Line Appearance -->
```

```
        <Share_Ext_4_ ua="na">%BWSHAREDLINE-ENABLED-
4%</Share_Ext_4_>
        <Shared_User_ID_4_ ua="na">%BWLINEPORT-
4%</Shared_User_ID_4_>
        <Subscription_Expires_4_
ua="na">3600</Subscription_Expires_4_>

        <!-- LINE4 Call Feature Settings -->
        <Feature_Key_Sync_4_ ua="na">%BWDFS-ENABLED-
4%</Feature_Key_Sync_4_>
        <Auto_Ans_Page_On_Active_Call_4_
ua="na">%AUTO_ANS_ON_CALL-4%</Auto_Ans_Page_On_Active_Call_4_>

        <!-- LINE4 Proxy and Registration -->
        <Proxy_4_ ua="na">%BWHOST-4%</Proxy_4_>

        <!-- LINE4 Subscriber Information -->
        <Display_Name_4_ ua="na">%BWNAME-4%</Display_Name_4_>
        <User_ID_4_ ua="na">%BWLINEPORT-4%</User_ID_4_>
        <Password_4_ ua="na">%BWAUTHPASSWORD-4%</Password_4_>
        <Auth_ID_4_ ua="na">%BWAUTHUSER-4%</Auth_ID_4_>
        <Reversed_Auth_Realm_4_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_4_>

        <!-- LINE4 Call Feature Settings -->
        <Conference_Bridge_URL_4_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-4%</Conference_Bridge_URL_4_>
        <Broadsoft_ACD_4_ ua="na">%BROADSOFT_ACD_ENABLE-
4%</Broadsoft_ACD_4_>
        <Enable_Broadsoft_Hoteling_4_
ua="na">%BROADSOFT_HOTELING_ENABLE-
4%</Enable_Broadsoft_Hoteling_4_>

        <!--
        GUI SCREEN: Voice Tab->Ext5 Tab
        -->

        <!-- LINE5 SIP Settings -->
        <SIP_Transport_5_ ua="na">%SIP_TRANSPORT-
5%</SIP_Transport_5_>
        <SIP_UDP_Port_5_ ua="na">%SIP_UDP_PORT-
5%</SIP_UDP_Port_5_>

        <!-- LINE5 Share Line Appearance -->
        <Share_Ext_5_ ua="na">%BWSHAREDLINE-ENABLED-
5%</Share_Ext_5_>
        <Shared_User_ID_5_ ua="na">%BWLINEPORT-
5%</Shared_User_ID_5_>
        <Subscription_Expires_5_
ua="na">3600</Subscription_Expires_5_>

        <!-- LINE5 Call Feature Settings -->
        <Feature_Key_Sync_5_ ua="na">%BWDFS-ENABLED-
5%</Feature_Key_Sync_5_>
        <Auto_Ans_Page_On_Active_Call_5_
ua="na">%AUTO_ANS_ON_CALL-5%</Auto_Ans_Page_On_Active_Call_5_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE5 Proxy and Registration -->
        <Proxy_5_ ua="na">%BWHOST-5%</Proxy_5_>

        <!-- LINE5 Subscriber Information -->
```

```
                <Display_Name_5_ ua="na">%BWNAME-5%</Display_Name_5_>
                <User_ID_5_ ua="na">%BWLINEPORT-5%</User_ID_5_>
                <Password_5_ ua="na">%BWAUTHPASSWORD-5%</Password_5_>
                <Auth_ID_5_ ua="na">%BWAUTHUSER-5%</Auth_ID_5_>
                <Reversed_Auth_Realm_5_
        ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_5_>

                <!-- LINE5 Call Feature Settings -->
                <Conference_Bridge_URL_5_ ua="na">%BWNETWORK-
        CONFERENCE-SIPURI-5%</Conference_Bridge_URL_5_>
                <Broadsoft_ACD_5_ ua="na">%BROADSOFT_ACD_ENABLE-
        5%</Broadsoft_ACD_5_>
                <Enable_Broadsoft_Hoteling_5_
        ua="na">%BROADSOFT_HOTELING_ENABLE-
        5%</Enable_Broadsoft_Hoteling_5_>

                <!--
                GUI SCREEN: Voice Tab->Ext6 Tab
                -->

                <!-- LINE6 SIP Settings -->
                <SIP_Transport_6_ ua="na">%SIP_TRANSPORT-
        6%</SIP_Transport_6_>
                <SIP_UDP_Port_6_ ua="na">%SIP_UDP_PORT-
        6%</SIP_UDP_Port_6_>

                <!-- LINE6 Share Line Appearance -->
                <Share_Ext_6_ ua="na">%BWSHAREDLINE-ENABLED-
        6%</Share_Ext_6_>
                <Shared_User_ID_6_ ua="na">%BWLINEPORT-
        6%</Shared_User_ID_6_>
                <Subscription_Expires_6_
        ua="na">3600</Subscription_Expires_6_>

                <!-- LINE6 Call Feature Settings -->
                <Feature_Key_Sync_6_ ua="na">%BWDFS-ENABLED-
        6%</Feature_Key_Sync_6_>
                <Auto_Ans_Page_On_Active_Call_6_
        ua="na">%AUTO_ANS_ON_CALL-6%</Auto_Ans_Page_On_Active_Call_6_>
        <!-- Enable Yes for Advanced Call Control Hands free mode -->

                <!-- LINE6 Proxy and Registration -->
                <Proxy_6_ ua="na">%BWHOST-6%</Proxy_6_>

                <!-- LINE6 Subscriber Information -->
                <Display_Name_6_ ua="na">%BWNAME-6%</Display_Name_6_>
                <User_ID_6_ ua="na">%BWLINEPORT-6%</User_ID_6_>
                <Password_6_ ua="na">%BWAUTHPASSWORD-6%</Password_6_>
                <Auth_ID_6_ ua="na">%BWAUTHUSER-6%</Auth_ID_6_>
                <Reversed_Auth_Realm_6_
        ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_6_>

                <!-- LINE6 Call Feature Settings -->
                <Conference_Bridge_URL_6_ ua="na">%BWNETWORK-
        CONFERENCE-SIPURI-6%</Conference_Bridge_URL_6_>
                <Broadsoft_ACD_6_ ua="na">%BROADSOFT_ACD_ENABLE-
        6%</Broadsoft_ACD_6_>
                <Enable_Broadsoft_Hoteling_6_
        ua="na">%BROADSOFT_HOTELING_ENABLE-
        6%</Enable_Broadsoft_Hoteling_6_>

                <!--
```

```
        GUI SCREEN: Voice Tab->Ext7 Tab
        -->

        <!-- LINE7 SIP Settings -->
        <SIP_Transport_7_ ua="na">%SIP_TRANSPORT-
7%</SIP_Transport_7_>
        <SIP_UDP_Port_7_ ua="na">%SIP_UDP_PORT-
7%</SIP_UDP_Port_7_>

        <!-- LINE7 Share Line Appearance -->
        <Share_Ext_7_ ua="na">%BWSHAREDLINE-ENABLED-
7%</Share_Ext_7_>
        <Shared_User_ID_7_ ua="na">%BWLINEPORT-
7%</Shared_User_ID_7_>
        <Subscription_Expires_7_
ua="na">3600</Subscription_Expires_7_>

        <!-- LINE7 Call Feature Settings -->
        <Feature_Key_Sync_7_ ua="na">%BWDFS-ENABLED-
7%</Feature_Key_Sync_7_>
        <Auto_Ans_Page_On_Active_Call_7_
ua="na">%AUTO_ANS_ON_CALL-7%</Auto_Ans_Page_On_Active_Call_7_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE7 Proxy and Registration -->
        <Proxy_7_ ua="na">%BWHOST-7%</Proxy_7_>

        <!-- LINE7 Subscriber Information -->
        <Display_Name_7_ ua="na">%BWNAME-7%</Display_Name_7_>
        <User_ID_7_ ua="na">%BWLINEPORT-7%</User_ID_7_>
        <Password_7_ ua="na">%BWAUTHPASSWORD-7%</Password_7_>
        <Auth_ID_7_ ua="na">%BWAUTHUSER-7%</Auth_ID_7_>
        <Reversed_Auth_Realm_7_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_7_>

        <!-- LINE7 Call Feature Settings -->
        <Conference_Bridge_URL_7_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-7%</Conference_Bridge_URL_7_>
        <Broadsoft_ACD_7_ ua="na">%BROADSOFT_ACD_ENABLE-
7%</Broadsoft_ACD_7_>
        <Enable_Broadsoft_Hoteling_7_
ua="na">%BROADSOFT_HOTELING_ENABLE-
7%</Enable_Broadsoft_Hoteling_7_>

        <!--
        GUI SCREEN: Voice Tab->Ext8 Tab
        -->

        <!-- LINE8 SIP Settings -->
        <SIP_Transport_8_ ua="na">%SIP_TRANSPORT-
8%</SIP_Transport_8_>
        <SIP_UDP_Port_8_ ua="na">%SIP_UDP_PORT-
8%</SIP_UDP_Port_8_>

        <!-- LINE8 Share Line Appearance -->
        <Share_Ext_8_ ua="na">%BWSHAREDLINE-ENABLED-
8%</Share_Ext_8_>
        <Shared_User_ID_8_ ua="na">%BWLINEPORT-
8%</Shared_User_ID_8_>
        <Subscription_Expires_8_
ua="na">3600</Subscription_Expires_8_>
```

```
        <!-- LINE8 Call Feature Settings -->
        <Feature_Key_Sync_8_ ua="na">%BWDFS-ENABLED-
8%</Feature_Key_Sync_8_>
        <Auto_Ans_Page_On_Active_Call_8_
ua="na">%AUTO_ANS_ON_CALL-8%</Auto_Ans_Page_On_Active_Call_8_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE8 Proxy and Registration -->
        <Proxy_8_ ua="na">%BWHOST-8%</Proxy_8_>

        <!-- LINE8 Subscriber Information -->
        <Display_Name_8_ ua="na">%BWNAME-8%</Display_Name_8_>
        <User_ID_8_ ua="na">%BWLINEPORT-8%</User_ID_8_>
        <Password_8_ ua="na">%BWAUTHPASSWORD-8%</Password_8_>
        <Auth_ID_8_ ua="na">%BWAUTHUSER-8%</Auth_ID_8_>
        <Reversed_Auth_Realm_8_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_8_>

        <!-- LINE8 Call Feature Settings -->
        <Conference_Bridge_URL_8_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-8%</Conference_Bridge_URL_8_>
        <Broadsoft_ACD_8_ ua="na">%BROADSOFT_ACD_ENABLE-
8%</Broadsoft_ACD_8_>
        <Enable_Broadsoft_Hoteling_8_
ua="na">%BROADSOFT_HOTELING_ENABLE-
8%</Enable_Broadsoft_Hoteling_8_>

        <!--
        GUI SCREEN: Voice Tab->Ext9 Tab
        -->

        <!-- LINE9 SIP Settings -->
        <SIP_Transport_9_ ua="na">%SIP_TRANSPORT-
9%</SIP_Transport_9_>
        <SIP_UDP_Port_9_ ua="na">%SIP_UDP_PORT-
9%</SIP_UDP_Port_9_>

        <!-- LINE9 Share Line Appearance -->
        <Share_Ext_9_ ua="na">%BWSHAREDLINE-ENABLED-
9%</Share_Ext_9_>
        <Shared_User_ID_9_ ua="na">%BWLINEPORT-
9%</Shared_User_ID_9_>
        <Subscription_Expires_9_
ua="na">3600</Subscription_Expires_9_>

        <!-- LINE9 Call Feature Settings -->
        <Feature_Key_Sync_9_ ua="na">%BWDFS-ENABLED-
9%</Feature_Key_Sync_9_>
        <Auto_Ans_Page_On_Active_Call_9_
ua="na">%AUTO_ANS_ON_CALL-9%</Auto_Ans_Page_On_Active_Call_9_>
<!-- Enable Yes for Advanced Call Control Hands free mode -->

        <!-- LINE9 Proxy and Registration -->
        <Proxy_9_ ua="na">%BWHOST-9%</Proxy_9_>

        <!-- LINE9 Subscriber Information -->
        <Display_Name_9_ ua="na">%BWNAME-9%</Display_Name_9_>
        <User_ID_9_ ua="na">%BWLINEPORT-9%</User_ID_9_>
        <Password_9_ ua="na">%BWAUTHPASSWORD-9%</Password_9_>
        <Auth_ID_9_ ua="na">%BWAUTHUSER-9%</Auth_ID_9_>
        <Reversed_Auth_Realm_9_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_9_>
```

```
        <!-- LINE9 Call Feature Settings -->
        <Conference_Bridge_URL_9_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-9%</Conference_Bridge_URL_9_>
        <Broadsoft_ACD_9_ ua="na">%BROADSOFT_ACD_ENABLE-
9%</Broadsoft_ACD_9_>
        <Enable_Broadsoft_Hoteling_9_
ua="na">%BROADSOFT_HOTELING_ENABLE-
9%</Enable_Broadsoft_Hoteling_9_>

        <!--
        GUI SCREEN: Voice Tab->Ext10 Tab
        -->

        <!-- LINE10 SIP Settings -->
        <SIP_Transport_10_ ua="na">%SIP_TRANSPORT-
10%</SIP_Transport_10_>
        <SIP_UDP_Port_10_ ua="na">%SIP_UDP_PORT-
10%</SIP_UDP_Port_10_>

        <!-- LINE10 Share Line Appearance -->
        <Share_Ext_10_ ua="na">%BWSHAREDLINE-ENABLED-
10%</Share_Ext_10_>
        <Shared_User_ID_10_ ua="na">%BWLINEPORT-
10%</Shared_User_ID_10_>
        <Subscription_Expires_10_
ua="na">3600</Subscription_Expires_10_>

        <!-- LINE10 Call Feature Settings -->
        <Feature_Key_Sync_10_ ua="na">%BWDFS-ENABLED-
10%</Feature_Key_Sync_10_>
        <Auto_Ans_Page_On_Active_Call_10_
ua="na">%AUTO_ANS_ON_CALL-
10%</Auto_Ans_Page_On_Active_Call_10_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE10 Proxy and Registration -->
        <Proxy_10_ ua="na">%BWHOST-10%</Proxy_10_>

        <!-- LINE10 Subscriber Information -->
        <Display_Name_10_ ua="na">%BWNAME-
10%</Display_Name_10_>
        <User_ID_10_ ua="na">%BWLINEPORT-10%</User_ID_10_>
        <Password_10_ ua="na">%BWAUTHPASSWORD-
10%</Password_10_>
        <Auth_ID_10_ ua="na">%BWAUTHUSER-10%</Auth_ID_10_>
        <Reversed_Auth_Realm_10_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_10_>

        <!-- LINE10 Call Feature Settings -->
        <Conference_Bridge_URL_10_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-10%</Conference_Bridge_URL_10_>
        <Broadsoft_ACD_10_ ua="na">%BROADSOFT_ACD_ENABLE-
10%</Broadsoft_ACD_10_>
        <Enable_Broadsoft_Hoteling_10_
ua="na">%BROADSOFT_HOTELING_ENABLE-
10%</Enable_Broadsoft_Hoteling_10_>

        <!--
        GUI SCREEN: Voice Tab->Ext11 Tab
        -->
```

```
        <!-- LINE11 SIP Settings -->
        <SIP_Transport_11_ ua="na">%SIP_TRANSPORT-
11%</SIP_Transport_11_>
        <SIP_UDP_Port_11_ ua="na">%SIP_UDP_PORT-
11%</SIP_UDP_Port_11_>

        <!-- LINE11 Share Line Appearance -->
        <Share_Ext_11_ ua="na">%BWSHAREDLINE-ENABLED-
11%</Share_Ext_11_>
        <Shared_User_ID_11_ ua="na">%BWLINEPORT-
11%</Shared_User_ID_11_>
        <Subscription_Expires_11_
ua="na">3600</Subscription_Expires_11_>

        <!-- LINE11 Call Feature Settings -->
        <Feature_Key_Sync_11_ ua="na">%BWDFS-ENABLED-
11%</Feature_Key_Sync_11_>
        <Auto_Ans_Page_On_Active_Call_11_
ua="na">%AUTO_ANS_ON_CALL-
11%</Auto_Ans_Page_On_Active_Call_11_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE11 Proxy and Registration -->
        <Proxy_11_ ua="na">%BWHOST-11%</Proxy_11_>

        <!-- LINE11 Subscriber Information -->
        <Display_Name_11_ ua="na">%BWNAME-
11%</Display_Name_11_>
        <User_ID_11_ ua="na">%BWLINEPORT-11%</User_ID_11_>
        <Password_11_ ua="na">%BWAUTHPASSWORD-
11%</Password_11_>
        <Auth_ID_11_ ua="na">%BWAUTHUSER-11%</Auth_ID_11_>
        <Reversed_Auth_Realm_11_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_11_>

        <!-- LINE11 Call Feature Settings -->
        <Conference_Bridge_URL_11_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-11%</Conference_Bridge_URL_11_>
        <Broadsoft_ACD_11_ ua="na">%BROADSOFT_ACD_ENABLE-
11%</Broadsoft_ACD_11_>
        <Enable_Broadsoft_Hoteling_11_
ua="na">%BROADSOFT_HOTELING_ENABLE-
11%</Enable_Broadsoft_Hoteling_11_>

        <!--
        GUI SCREEN: Voice Tab->Ext12 Tab
        -->

        <!-- LINE2 SIP Settings -->
        <SIP_Transport_12_ ua="na">%SIP_TRANSPORT-
12%</SIP_Transport_12_>
        <SIP_UDP_Port_12_ ua="na">%SIP_UDP_PORT-
12%</SIP_UDP_Port_12_>

        <!-- LINE12 Share Line Appearance -->
        <Share_Ext_12_ ua="na">%BWSHAREDLINE-ENABLED-
12%</Share_Ext_12_>
        <Shared_User_ID_12_ ua="na">%BWLINEPORT-
12%</Shared_User_ID_12_>
        <Subscription_Expires_12_
ua="na">3600</Subscription_Expires_12_>
```

```
        <!-- LINE12 Call Feature Settings -->
        <Feature_Key_Sync_12_ ua="na">%BWDFS-ENABLED-
12%</Feature_Key_Sync_12_>
        <Auto_Ans_Page_On_Active_Call_12_
ua="na">%AUTO_ANS_ON_CALL-
12%</Auto_Ans_Page_On_Active_Call_12_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE12 Proxy and Registration -->
        <Proxy_12_ ua="na">%BWHOST-12%</Proxy_12_>

        <!-- LINE12 Subscriber Information -->
        <Display_Name_12_ ua="na">%BWNAME-
12%</Display_Name_12_>
        <User_ID_12_ ua="na">%BWLINEPORT-12%</User_ID_12_>
        <Password_12_ ua="na">%BWAUTHPASSWORD-
12%</Password_12_>
        <Auth_ID_12_ ua="na">%BWAUTHUSER-12%</Auth_ID_12_>
        <Reversed_Auth_Realm_12_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_12_>

        <!-- LINE12 Call Feature Settings -->
        <Conference_Bridge_URL_12_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-12%</Conference_Bridge_URL_12_>
        <Broadsoft_ACD_12_ ua="na">%BROADSOFT_ACD_ENABLE-
12%</Broadsoft_ACD_12_>
        <Enable_Broadsoft_Hoteling_12_
ua="na">%BROADSOFT_HOTELING_ENABLE-
12%</Enable_Broadsoft_Hoteling_12_>

        <!--
        GUI SCREEN: Voice Tab->Ext13 Tab
        -->

        <!-- LINE13 SIP Settings -->
        <SIP_Transport_13_ ua="na">%SIP_TRANSPORT-
13%</SIP_Transport_13_>
        <SIP_UDP_Port_13_ ua="na">%SIP_UDP_PORT-
13%</SIP_UDP_Port_13_>

        <!-- LINE13 Share Line Appearance -->
        <Share_Ext_13_ ua="na">%BWSHAREDLINE-ENABLED-
13%</Share_Ext_13_>
        <Shared_User_ID_13_ ua="na">%BWLINEPORT-
13%</Shared_User_ID_13_>
        <Subscription_Expires_13_
ua="na">3600</Subscription_Expires_13_>

        <!-- LINE13 Call Feature Settings -->
        <Feature_Key_Sync_13_ ua="na">%BWDFS-ENABLED-
13%</Feature_Key_Sync_13_>
        <Auto_Ans_Page_On_Active_Call_13_
ua="na">%AUTO_ANS_ON_CALL-
13%</Auto_Ans_Page_On_Active_Call_13_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE13 Proxy and Registration -->
        <Proxy_13_ ua="na">%BWHOST-13%</Proxy_13_>

        <!-- LINE13 Subscriber Information -->
        <Display_Name_13_ ua="na">%BWNAME-
13%</Display_Name_13_>
```

```
        <User_ID_13_ ua="na">%BWLINEPORT-13%</User_ID_13_>
        <Password_13_ ua="na">%BWAUTHPASSWORD-
13%</Password_13_>
        <Auth_ID_13_ ua="na">%BWAUTHUSER-13%</Auth_ID_13_>
        <Reversed_Auth_Realm_13_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_13_>

        <!-- LINE13 Call Feature Settings -->
        <Conference_Bridge_URL_13_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-13%</Conference_Bridge_URL_13_>
        <Broadsoft_ACD_13_ ua="na">%BROADSOFT_ACD_ENABLE-
13%</Broadsoft_ACD_13_>
        <Enable_Broadsoft_Hoteling_13_
ua="na">%BROADSOFT_HOTELING_ENABLE-
13%</Enable_Broadsoft_Hoteling_13_>

        <!--
        GUI SCREEN: Voice Tab->Ext14 Tab
        -->

        <!-- LINE14 SIP Settings -->
        <SIP_Transport_14_ ua="na">%SIP_TRANSPORT-
14%</SIP_Transport_14_>
        <SIP_UDP_Port_14_ ua="na">%SIP_UDP_PORT-
14%</SIP_UDP_Port_14_>

        <!-- LINE14 Share Line Appearance -->
        <Share_Ext_14_ ua="na">%BWSHAREDLINE-ENABLED-
14%</Share_Ext_14_>
        <Shared_User_ID_14_ ua="na">%BWLINEPORT-
14%</Shared_User_ID_14_>
        <Subscription_Expires_14_
ua="na">3600</Subscription_Expires_14_>

        <!-- LINE14 Call Feature Settings -->
        <Feature_Key_Sync_14_ ua="na">%BWDFS-ENABLED-
14%</Feature_Key_Sync_14_>
        <Auto_Ans_Page_On_Active_Call_14_
ua="na">%AUTO_ANS_ON_CALL-
14%</Auto_Ans_Page_On_Active_Call_14_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE14 Proxy and Registration -->
        <Proxy_14_ ua="na">%BWHOST-14%</Proxy_14_>

        <!-- LINE14 Subscriber Information -->
        <Display_Name_14_ ua="na">%BWNAME-
14%</Display_Name_14_>
        <User_ID_14_ ua="na">%BWLINEPORT-14%</User_ID_14_>
        <Password_14_ ua="na">%BWAUTHPASSWORD-
14%</Password_14_>
        <Auth_ID_14_ ua="na">%BWAUTHUSER-14%</Auth_ID_14_>
        <Reversed_Auth_Realm_14_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_14_>

        <!-- LINE14 Call Feature Settings -->
        <Conference_Bridge_URL_14_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-14%</Conference_Bridge_URL_14_>
        <Broadsoft_ACD_14_ ua="na">%BROADSOFT_ACD_ENABLE-
14%</Broadsoft_ACD_14_>
```

```
        <Enable_Broadsoft_Hoteling_14_
ua="na">%BROADSOFT_HOTELING_ENABLE-
14%</Enable_Broadsoft_Hoteling_14_>

        <!--
        GUI SCREEN: Voice Tab->Ext15 Tab
        -->

        <!-- LINE15 SIP Settings -->
        <SIP_Transport_15_ ua="na">%SIP_TRANSPORT-
15%</SIP_Transport_15_>
        <SIP_UDP_Port_15_ ua="na">%SIP_UDP_PORT-
15%</SIP_UDP_Port_15_>

        <!-- LINE15 Share Line Appearance -->
        <Share_Ext_15_ ua="na">%BWSHAREDLINE-ENABLED-
15%</Share_Ext_15_>
        <Shared_User_ID_15_ ua="na">%BWLINEPORT-
15%</Shared_User_ID_15_>
        <Subscription_Expires_15_
ua="na">3600</Subscription_Expires_15_>

        <!-- LINE15 Call Feature Settings -->
        <Feature_Key_Sync_15_ ua="na">%BWDFS-ENABLED-
15%</Feature_Key_Sync_15_>
        <Auto_Ans_Page_On_Active_Call_15_
ua="na">%AUTO_ANS_ON_CALL-
15%</Auto_Ans_Page_On_Active_Call_15_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE15 Proxy and Registration -->
        <Proxy_15_ ua="na">%BWHOST-15%</Proxy_15_>

        <!-- LINE15 Subscriber Information -->
        <Display_Name_15_ ua="na">%BWNAME-
15%</Display_Name_15_>
        <User_ID_15_ ua="na">%BWLINEPORT-15%</User_ID_15_>
        <Password_15_ ua="na">%BWAUTHPASSWORD-
15%</Password_15_>
        <Auth_ID_15_ ua="na">%BWAUTHUSER-15%</Auth_ID_15_>
        <Reversed_Auth_Realm_15_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_15_>

        <!-- LINE15 Call Feature Settings -->
        <Conference_Bridge_URL_15_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-15%</Conference_Bridge_URL_15_>
        <Broadsoft_ACD_15_ ua="na">%BROADSOFT_ACD_ENABLE-
15%</Broadsoft_ACD_15_>
        <Enable_Broadsoft_Hoteling_15_
ua="na">%BROADSOFT_HOTELING_ENABLE-
15%</Enable_Broadsoft_Hoteling_15_>

        <!--
        GUI SCREEN: Voice Tab->Ext16 Tab
        -->

        <!-- LINE16 SIP Settings -->
        <SIP_Transport_16_ ua="na">%SIP_TRANSPORT-
16%</SIP_Transport_16_>
        <SIP_UDP_Port_16_ ua="na">%SIP_UDP_PORT-
16%</SIP_UDP_Port_16_>
```

```
        <!-- LINE16 Share Line Appearance -->
        <Share_Ext_16_ ua="na">%BWSHAREDLINE-ENABLED-
16%</Share_Ext_16_>
        <Shared_User_ID_16_ ua="na">%BWLINEPORT-
16%</Shared_User_ID_16_>
        <Subscription_Expires_16_
ua="na">3600</Subscription_Expires_16_>

        <!-- LINE16 Call Feature Settings -->
        <Feature_Key_Sync_16_ ua="na">%BWDFS-ENABLED-
16%</Feature_Key_Sync_16_>
        <Auto_Ans_Page_On_Active_Call_16_
ua="na">%AUTO_ANS_ON_CALL-
16%</Auto_Ans_Page_On_Active_Call_16_ <!-- Enable Yes for
Advanced Call Control Hands free mode -->

        <!-- LINE16 Proxy and Registration -->
        <Proxy_16_ ua="na">%BWHOST-16%</Proxy_16_>

        <!-- LINE16 Subscriber Information -->
        <Display_Name_16_ ua="na">%BWNAME-
16%</Display_Name_16_>
        <User_ID_16_ ua="na">%BWLINEPORT-16%</User_ID_16_>
        <Password_16_ ua="na">%BWAUTHPASSWORD-
16%</Password_16_>
        <Auth_ID_16_ ua="na">%BWAUTHUSER-16%</Auth_ID_16_>
        <Reversed_Auth_Realm_16_
ua="na">%SIP_AUTH_REALM%</Reversed_Auth_Realm_16_>

        <!-- LINE16 Call Feature Settings -->
        <Conference_Bridge_URL_16_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-16%</Conference_Bridge_URL_16_>
        <Broadsoft_ACD_16_ ua="na">%BROADSOFT_ACD_ENABLE-
16%</Broadsoft_ACD_16_>
        <Enable_Broadsoft_Hoteling_16_
ua="na">%BROADSOFT_HOTELING_ENABLE-
16%</Enable_Broadsoft_Hoteling_16_>

        <!--
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
Start of Keys
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%-->

        <!--
        GUI SCREEN: Voice Tab->System Tab
        -->


        <!--
        GUI SCREEN: Voice Tab->SIP Tab
        -->


        <!--
        GUI SCREEN: Voice Tab->Regional Tab
        -->

        <!--
        GUI SCREEN: Voice Tab->Phone Tab
        -->

        <!-- Programmable Line Keys (PLK)
```

```
                    Note: Line Keys can be assigned as a
                            1) Extension/Multiple Line Appearance
Key
                            2) Function Key
                                    A) Speed Dial
                                            Example)

fnc=sd;ext=*55@$PROXY;nme=Direct VM Transfer
                                    B) BLF
                                    C) Monitored Call Park
        -->

        <!-- Line Key 1 -->
        <Extension_1_ ua="na">%PLK-1%</Extension_1_> <!--
options: 1/2/Disabled -->
        <!--Short_Name_1_ ua="na">%BWEXTENSION-
1%</Short_Name_1_-->
        <Short_Name_1_ ua="na">$USER</Short_Name_1_>
        <Share_Call_Appearance_1_ ua="na">%BWSHAREDLINE-
1%</Share_Call_Appearance_1_> <!-- options: private/shared -->
        <Extended_Function_1_ ua="na">%LINE_FUNCTION-
1%</Extended_Function_1_>


        <!-- Miscellaneous Line Key Settings -->
        <Line_ID_Mapping
ua="na">%LINE_ID_MAPPING%</Line_ID_Mapping> <!-- Options:
Veritical/Horizontal -->

        <!-- Shared Call Appearance Barge-in; Based Upon Ext1
User Settings. Change Index if required -->
        <SCA_Barge-In_Enable ua="na">%BWSCA-BRIDGING-ENABLED-
1%</SCA_Barge-In_Enable>

        <!-- Programmable Soft Keys (PSK)
                Note: PSK Keys can be assigned as a
                        1) Speed Dial

                        Example)
                                PSK_1:

fnc=sd;ext=*55@PROXY;nme="VM Xfer"
        -->

        <!-- Extension Mobility-->
        <EM_Enable ua="na">%EM_ENABLED%</EM_Enable>

        <!-- Programmable Soft-Keys (PSK) -->
        <Programmable_Softkey_Enable
ua="na">%PSK_ENABLE%</Programmable_Softkey_Enable>

        <!-- PSK CallState List -->
        <Idle_Key_List ua="na">%IDLE_KEY_LIST%</Idle_Key_List>
        <Dialing_Input_Key_List
ua="na">%DIALING_INPUT_KEY_LIST%</Dialing_Input_Key_List>
        <Progressing_Key_List
ua="na">%PROGRESSING_KEY_LIST%</Progressing_Key_List>
        <Connected_Key_List
ua="na">%CONNECTED_KEY_LIST%</Connected_Key_List>
        <Start-Xfer_Key_List ua="na">%START-
XFER_KEY_LIST%</Start-Xfer_Key_List>
```

```
        <Start-Conf_Key_List ua="na">%START-
CONF_KEY_LIST%</Start-Conf_Key_List>
        <Conferencing_Key_List
ua="na">%CONFERENCING_KEY_LIST%</Conferencing_Key_List>
        <Hold_Key_List ua="na">%HOLD_KEY_LIST%</Hold_Key_List>
        <Ringing_Key_List
ua="na">%RINGING_KEY_LIST%</Ringing_Key_List>
        <Shared_Active_Key_List
ua="na">%SHARED_ACTIVE_KEY_LIST%</Shared_Active_Key_List>
        <Shared_Held_Key_List
ua="na">%SHARED_HELD_KEY_LIST%</Shared_Held_Key_List>
        <Off_Hook_Key_List
ua="na">%OFF_HOOK_KEY_LIST%</Off_Hook_Key_List>
        <New_Call_Recents_Key_List
ua="na">%NEW_CALL_RECENTS_KEY_LIST%</New_Call_Recents_Key_List
>
        <On_Hook_Dial_Key_List
ua="na">%ON_HOOK_DIAL_KEY_LIST%</On_Hook_Dial_Key_List>

        <!-- Custom PSK Functions -->
        <PSK_1 ua="na">%PSK-1%</PSK_1>
        <PSK_2 ua="na">%PSK-2%</PSK_2>
        <PSK_3 ua="na">%PSK-3%</PSK_3>
        <PSK_4 ua="na">%PSK-4%</PSK_4>
        <PSK_5 ua="na">%PSK-5%</PSK_5>
        <PSK_6 ua="na">%PSK-6%</PSK_6>
        <PSK_7 ua="na">%PSK-7%</PSK_7>
        <PSK_8 ua="na">%PSK-8%</PSK_8>
        <PSK_9 ua="na">%PSK-9%</PSK_9>
        <PSK_10 ua="na">%PSK-10%</PSK_10>
        <PSK_11 ua="na">%PSK-11%</PSK_11>
        <PSK_12 ua="na">%PSK-12%</PSK_12>
        <PSK_13 ua="na">%PSK-13%</PSK_13>
        <PSK_14 ua="na">%PSK-14%</PSK_14>
        <PSK_15 ua="na">%PSK-15%</PSK_15>
        <PSK_16 ua="na">%PSK-16%</PSK_16>

        <!--
        GUI SCREEN: Voice Tab->User Tab
        -->
        <Auto_Answer_Page
ua="na">%AUTO_ANSWER_PAGE%</Auto_Answer_Page>

        <!-- Shared Line - Hide DND/CFWD SoftKeys (Optional) -
->
        <Shared_Line_DND_Cfwd_Enable ua="na">%SHARED-LINE-DND-
CFWD-ENABLE%</Shared_Line_DND_Cfwd_Enable>


        <!--
        GUI SCREEN: Voice Tab->Ext1 Tab
        -->

        <!--
        GUI SCREEN: Voice Tab->Ext2 Tab
        -->

        <!--
        GUI SCREEN: Voice Tab->Att Console Tab
        -->

        <!-- BLF LIST Management -->
```

```
        <BLF_List_URI ua="na">%BWBLF-URI-1%</BLF_List_URI>
        <Use_Line_Keys_For_BLF_List
ua="na">%USE_LINE_KEYS_FOR_BLF%</Use_Line_Keys_For_BLF_List>
        <BLF_Label_Display_Mode
ua="na">%BLF_DISPLAY_MODE%</BLF_Label_Display_Mode> <!--
Options: Name, Ext, Both -->

        <!-- Call Parking -->
        <Call_Park_Code ua="rw">%BWFAC-CALL-PARK-
1%</Call_Park_Code>
        <Call_Unpark_Code ua="rw">%BWFAC-CALL-PARK-RETRIEVE-
1%</Call_Unpark_Code>
        <!-- Call Pickup -->
        <Call_Pickup_Code ua="rw">%BWFAC-CALL-PICKUP-
1%</Call_Pickup_Code>


    </flat-profile>
</device>
```

System File: Default <model>-3PCC.xml

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device  xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <flat-profile>

    <!--
        GUI SCREEN: Voice Tab - Provisioning Tab
    -->

    <!-- Profile Rule Resync Timers -->
    <Resync_On_Reset ua="na">Yes</Resync_On_Reset>
    <Resync_At__HHmm_ ua="na"></Resync_At__HHmm_>
    <Resync_At_Random_Delay ua="na">2</Resync_At_Random_Delay>
    <Resync_Periodic ua="na">300</Resync_Periodic>
    <Resync_Error_Retry_Delay
ua="na">600</Resync_Error_Retry_Delay>
    <Forced_Resync_Delay ua="na">1800</Forced_Resync_Delay>

    <!-- Profile Rule -->
    <Profile_Rule
ua="na">http://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDM
SCONTEXT%/CP-78-88-68-3PCC/CiscoDev-
3PCC_Bootstrap.xml</Profile_Rule>

    </flat-profile>
</device>
```

System File: Default CiscoDev-3PCC_Bootstrap_def.xml

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device  xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <flat-profile>


        <!--
            GUI SCREEN: Voice Tab - Provisioning Tab
        -->

        <!-- Profile Rule Resync Timers -->
        <Resync_On_Reset ua="na">Yes</Resync_On_Reset>
        <Resync_At_Random_Delay
ua="na">600</Resync_At_Random_Delay>


        <Resync_At_Random_Delay
ua="na">1</Resync_At_Random_Delay>
        <Resync_Periodic ua="na">60</Resync_Periodic>
        <Resync_Error_Retry_Delay
ua="na">300</Resync_Error_Retry_Delay>
        <Forced_Resync_Delay ua="na">600</Forced_Resync_Delay>


        <!-- Configuration Profile current -->
        <!-- ex:        http://10.89.81.183:80/dms/Cisco-CP-
78xx-88xx-68xx-3PCC/CiscoDev-3PCC_Bootstrap.xml -->
        <Profile_Rule
ua="na">https://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWD
MSCONTEXT%/CP-78-88-68-3PCC/CiscoDev-
3PCC_Bootstrap.xml</Profile_Rule>

        <!-- 3rd Party ROOT CA Settings: (HTTPS/TLS/SRTP) -
OPTIONAL -->
        <!--
        <Custom_CA_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%3RD_PARTY_CA_ROOT%</Cu
stom_CA_Rule>
        -->


        </flat-profile>
</device>t-profile>
</device>
```

References

[1] Cisco Systems, Inc. 2022. *Cisco IP Phone 6800/7800/8800 Series Multiplatform Phones Administration Guide.* Available from Cisco at cisco.com.

[2] Cisco Systems, Inc. 2022. *Cisco BroadWorks Device Management Configuration Guide*, *Release 23.0*. Available from Cisco at BW-DeviceManagementConfigGuide.

[3] Cisco Systems, Inc. 2022. *Cisco BroadWorks Redundancy Guide, Release 22.0*. Available from Cisco at BW-RedundancyGuide.

[4] Cisco Systems, Inc. 2022. *Cisco BroadWorks CPE Kit Usage Guide*, *Release 22.0*. Available from Cisco by request.