



Cisco BroadWorks

Partner Configuration Guide

Cisco Multi-Platform Phones

December 2024
Document Version 1.42

Copyright Notice

Copyright© 2024 Cisco Systems, Inc. All rights reserved.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <https://www.cisco.com/c/en/us/about/legal/trademarks.html>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

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 <code><mac-address>_CiscoDev.xml</code> 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.
1.26	Edited changes and published the document.

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.
1.31	Updated document for Cisco MPP Series version 12.0.4 validation with Cisco BroadWorks Release RI. This version includes Cloud Onboarding of MPP phones.
1.32	Edited changes and published the document.
1.33	Updated document for Cisco Desk Phone 9800 Series version PhoneOS 3.0.1.
1.34	Edited changes and published the document.
1.35	Updated document for Cisco Desk Phone 9800 Series version PhoneOS 3.1.1.
1.36	Edited changes and published the document.
1.37	Updated document for Cisco MPP Series version 12.0.5 validation with Cisco BroadWorks Release RI.
1.38	Edited changes and published the document.
1.39	Updated document for Cisco MPP Series version 12.0.6 validation with Cisco BroadWorks Release RI.
1.40	Edited changes and published the document.
1.41	Updated document for Cisco Desk Phone 9800 Series version PhoneOS 3.2.1
1.42	Edited changes and published the document.

Table of Contents

1	Overview.....	10
2	Interoperability Status.....	11
2.1	Verified Versions	11
2.2	Interface Capabilities Supported	12
2.2.1	SIP Interface Capabilities.....	13
2.2.2	Other Interface Capabilities.....	18
2.3	Known Issues.....	20
3	Cisco BroadWorks Configuration	22
3.1	Cisco BroadWorks Device Profile Type Configuration	22
3.2	Cisco BroadWorks Configuration Steps	23
4	MPP Series Configuration	24
4.1	Configuration Method	24
4.2	System Level Configuration.....	25
4.3	Subscriber Level Configuration	31
4.4	SIP Advanced Feature Configuration.....	32
4.4.1	Shared Call Appearance Configuration	32
4.4.2	Hybrid Key System Configuration	39
4.4.3	Busy Lamp Field Configuration.....	41
4.4.4	Feature Key Synchronization Configuration.....	43
4.4.5	Call Center Feature Configuration	44
4.4.6	Hoteling Feature Configuration	54
4.4.7	Call Park Feature Configuration.....	56
4.4.8	Accessibility with Voice Feedback Configuration	59
4.4.9	Call Recording Feature Configuration.....	62
4.4.10	Multicast Paging.....	63
4.4.11	Executive/Executive-Assistant Feature.....	64
4.4.12	OPUS Codec Narrowband	71
4.4.13	Enable SIP 110rel without Enabling Preconditions	71
4.4.14	Synchronization of Call Waiting and Anonymous Call Rejection Through XSI Service.....	72
4.4.15	Action Button Configuration	74
4.4.16	Power Saving Configuration (Office Hours)	76
4.4.17	Webex Calendar Service	82
4.4.18	Help Desk Configuration	83
4.4.19	Header and Line Session Display.....	84
4.4.20	Line Key LED Behavior Customization	85
4.4.21	Key Expansion Module (9800 only)	89
4.4.22	Security Classification Feature Configuration	94
4.4.23	Emergency Call Configuration	94
4.4.24	Advice of Charge Configuration	94

4.4.25	Conference Event Configuration	94
4.5	Extended Services Interface Feature Configuration	94
4.5.1	XSI Authentication Method	94
4.5.2	XSI Single Sign-On Feature Configuration	97
4.5.3	Cisco BroadWorks User Service Configuration	100
4.5.4	Cisco BroadWorks Call Logs Configuration	102
4.5.5	Cisco BroadWorks Directory Configuration	103
4.5.6	DND and Call Forwarding Status Sync via XSI Service	111
4.5.7	Cisco BroadWorks Visual Voice Mail Configuration	114
4.6	Instant Message and Presence Configuration	114
4.7	Phone Onboarding to Cloud	115
4.7.1	Enable Phone Onboarding to Cloud	115
4.7.1	Phone Issues Reporting from Control Hub	116
4.7.2	Phone Reboot from Control Hub	118
4.7.3	Webex Contact Support Configuration	118
4.7.4	Webex Call Log Configuration	119
5	Device Management	121
5.1	Device Management Capabilities Supported	121
5.2	Device Management Configuration	123
5.2.1	Configure Cisco BroadWorks Tags	123
5.2.2	Configure Cisco BroadWorks Device Profile Type	143
5.2.3	Create Device Profile Instance	164
5.2.4	Configure Cisco BroadWorks User	164
5.2.5	Customize Tags	165
5.2.6	File Authentication Using MAC Address from Client Certificate	166
5.2.7	Configure Cisco MPP Series	168
5.3	Upgrade from Previous CPE Kits	174
	Appendix A: Reference MPP Series Configuration Files	175
	References	234

Table of Figures

Figure 1 Device Identity/Profile Type	23
Figure 2 Shared Call Appearance Configuration	33
Figure 3 Shared Line Park	35
Figure 4 Shared Call Appearance (Multiple Call Arrangement)	39
Figure 5 Line Key Mapping	40
Figure 6 Line ID Mapping	40
Figure 7 Busy Lamp Field Configuration – Server	42
Figure 8 Busy Lamp Field Configuration – Device	43
Figure 9 Call Control → Call Center Page	44
Figure 10 Cisco MPP Series BroadSoft ACD	44
Figure 11 ACD Status on Web User Interface	45
Figure 12 Phone ACD Status Available	46
Figure 13 ACD Status to Unavailable	46
Figure 14 ACD Status (Last Local Status)	46
Figure 15 Call Information Enable	46
Figure 16 Disposition Code	47
Figure 17 Trace Enable	48
Figure 18 Emergency Escalation	49
Figure 19 Queue Status	50
Figure 20 Set Auto Available After Sign-in	51
Figure 21 ACD State to Sign-Out	52
Figure 22 ACD Status (Before AgtSignin Press)	53
Figure 23 ACD Status (On AgtSignin Press)	53
Figure 24 ACD State Updates to Available	53
Figure 25 ACD Unavailable Reason	53
Figure 26 Call Control → Hoteling Guest	55
Figure 27 Cisco MPP Series BroadSoft Hoteling	55
Figure 28 Cisco MPP Series Call Park Service	56
Figure 29 Cisco MPP Series Call Park Feature Access Code	57
Figure 30 One-button Call Park	58
Figure 31 One-button Call Park from Web	58
Figure 32 Configure Voice Feedback	60
Figure 33 Cisco MPP Series Call Recording Protocol	62
Figure 34 Cisco MPP Series Call Recording Serv	62
Figure 35 Multicast Paging	63
Figure 36 Cisco BroadWorks Executive Service	64
Figure 37 Cisco BroadWorks Executive-Assistant	65
Figure 38 Cisco BroadWorks Exec Admin – Assign Assistant to Exec	65
Figure 39 Exec Admin Feature Key Sync	65
Figure 40 Exec Admin Programmable Softkeys	66
Figure 41 Exec Admin Feature Access Code	66
Figure 42 Exec Admin Dial Plan	66
Figure 43 Feature Key Sync Enabling	68
Figure 44 XSI Host Server Synchronization	68
Figure 45 Assistant Call Filter	68
Figure 46 Assign Executive Service	69
Figure 47 Assistants to an Executive	70
Figure 48 Configure Call Filtering	70
Figure 49 Executive-assistant Service	70
Figure 50 Executive-assistant Configuration	70
Figure 51 Executive Settings Modification	71
Figure 52 OPUS Codec Narrowband	71
Figure 53 Preconditions Feature Configuration	72

Figure 54	Call Waiting.....	72
Figure 55	Anonymous Call Rejection.....	73
Figure 56	Anonymous Call Rejection and Call Waiting Enabling.....	73
Figure 57	XSI Host Server Synchronization	73
Figure 58:	Action Button Configuration	74
Figure 59:	Office Hours Enable.....	76
Figure 60	LED Indicator In Display Off Mode	81
Figure 61:	Webex Calendar.....	82
Figure 62	Line Key LED Behavior	86
Figure 63	Att Console LED Behavior	87
Figure 64	Cisco MPP Series XSI Authentication SIP Credentials	95
Figure 65	XSI Authentication Login Credentials	96
Figure 66	Profile Account Authentication on Cisco BroadWorks Server.....	98
Figure 67	Cisco MPP Series Profile Authentication Type.....	98
Figure 68	XSI Host Server and XSI Authentication Type Configuration	99
Figure 69	BroadWorks Anywhere Service for User	100
Figure 70	BroadWorks Anywhere Password Page	100
Figure 71	BroadWorks Anywhere Authentication Page.....	100
Figure 72	BroadWorks Anywhere XSI Authentication – Login Credentials.....	101
Figure 73	BroadWorks Anywhere XSI Authentication – SIP Credentials	101
Figure 74	Cisco MPP Series Call Log Enabled	102
Figure 75	Configure Enterprise and Enterprise Common Directory.....	105
Figure 76	Configure Group Directory Contacts.....	105
Figure 77	Add Users to Group Directory.....	106
Figure 78	Configuring Group Common Directory	106
Figure 79	Configure Personal Directory.....	107
Figure 80	User Credentials	107
Figure 81	Directory Service MPP Phones	107
Figure 82	Directory Service 8875 abd 9800	107
Figure 83	XSI Login Credentials with Cisco BroadWorks.....	112
Figure 84	XSI SIP Credentials with Cisco BroadWorks.....	112
Figure 85	DND and Call Forwarding Status Synchronization	113
Figure 86	DND Call Forwarding for 9800 Series	113
Figure 87	Cisco MPP Series XMPP Settings	114
Figure 88	Webex Onboarding of Phone	115
Figure 89	PRT Upload to Cloud.....	116
Figure 90	Webex Contacts Support.....	119
Figure 91	Webex Call Log Support.....	120
Figure 92	System Default Tag Settings	124
Figure 93	Device Type-specific Tag Settings.....	142
Figure 94	Device Access FQDN.....	144
Figure 95	CiscoDev-3PCC_Bootstrap.xml File Settings.....	148
Figure 96	<MAC>_CiscoDev.xml File Setting.....	149
Figure 97	Upload File Settings.....	150
Figure 98	Static Load File	152
Figure 99	Language File.....	162
Figure 100	Language File – Language Selection	162
Figure 101	Cisco BroadWorks User Language Definition	163
Figure 102	Device Profile Instance	164
Figure 103	Device Profile Type Update for MAC-Based Auth Using Client Certificate.....	167
Figure 104	Authentication Mode set to MAC-Based and Sourced from Client Certificate	167
Figure 105	Example Update Screen.....	168
Figure 106	Device Access FQDN.....	169
Figure 107	Default Device Profile Type	170
Figure 108	Configure Advanced Options.....	170

Figure 109 Device Management Options Settings	172
Figure 110 Default 7841-3PCC.xml	173

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
- DP-9841
- DP-9851
- DP-9861
- DP-9871

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 Desk Phone with Multiplatform Firmware (MPP) — Administration Guide*, *Cisco IP Conference Phone Multiplatform Phone Administration Guide*, and *Help articles for IP Phone 9800 Series* from <https://help.webex.com/en-us/landing/ld-n0mkkj8-CiscoDeskPhone9800Series/BroadWorks> 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
12/2024	Release RI	12.0.6 3.2.1	Any maintenance release of the verified versions.
09/2024	Release RI	12.0.5 3.1.1	Any maintenance release of the verified versions.
03/2024	Release RI	12.0.4	Any maintenance release of the verified 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.

Verified Versions			
Date (mm/yyyy)	Cisco BroadWorks Release	MPP Series Verified Version	MPP Series Compatible 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.
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	
	Third-Party Call Control – Advanced	Yes	
	Voice Message Deposit/Retrieval	Yes	
	Message Waiting Indicator – Unsolicited	Yes	
	Message Waiting Indicator – Solicited	Yes	
	Message Waiting Indicator – Detail	Yes	
	Voice Portal Outcall	Yes	
	Advanced Alerting – Ringing	Yes	
	Advanced Alerting – Call Waiting	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Advanced Alerting – Ring Splash	Yes	
	Advanced Alerting – Silent Alerting	Yes	
	Calling Line ID	Yes	
	Calling Line ID with Unicode Characters	Yes	
	Connected Line ID	Yes	
	Connected Line ID with Unicode Characters	Yes	
	Connected Line ID on UPDATE	Yes	
	Connected Line ID on Re-INVITE	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	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
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	
	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 Except 9800 phones
	Call Center Agent Unavailable Code	Yes	Except for the 8875 phones Except 9800 phone
	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	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	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, 9800 series
	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	
	Network-Based Conference Creator	No	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Advanced Phone Services – Conference Event	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	
SBC/ALG – Failover/Failback	Register Failover/Failback	Yes	
	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	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	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
	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	Except 8875 and 9800 Series
	Simultaneous Ringing	No	
	Caller ID Blocking	Yes	
	Call Forwarding Always	Yes	
	Call Forwarding Busy	Yes	
	Call Forwarding No Answer	Yes	
	Do Not Disturb	Yes	
	Enterprise Directory	Yes	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
Xsi Features – Directories	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	Except 8875 and 9800 Series
	Received Calls	Yes	
	Missed Calls	Yes	
	All Calls	Yes	
	Sort by Name	Yes	
Xsi Features – Visual Voice Mail	View Messages	No	Except 8875 and 9800 Series
	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	Except 8875 and 9800 Series
	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	Except 8875 and 9800 Series
	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	Except 8875 and 9800 Series
	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	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
	Start Recording During Call Setup with Record Mode set to On Demand	No	
	Perform User Initiated Start with Record Mode set to On Demand	No	
	Perform Mid-Call Start Recording after Placing Call on Hold	No	
	Perform Mid-Call Change to Call Recording Mode	No	
	Record Local Three-Way Call	No	
	Record Network Three-Way Call	No	
XMPP Features – Contact/Buddy List	Contacts	Yes	Except 8875 and 9800 Series.
	Favorites	Yes	
	Groups	Yes	
	Non-XMPP Contacts	Yes	
	Conferences	No	
XMPP Features – Presence	Login Invisible	Yes	Except 8875 and 9800 Series.
	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	2.3.1	3.1.1

	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 PhoneOS-MPP(98-88-78-68xx) 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	16
CP-8861-3PCC	16
CP-8865-3PCC	16
CP-8875	16
CP-8832-3PCC	1
DP-9841	4
DP-9851	6
DP-9861	10

Identity/Device Profile Type Modify

Modify an existing identity/device profile type.

OK Apply Delete Export Cancel

Identity/Device Profile Type: Cisco-CP-78xx-88xx-68xx-3PCC
 Signaling Address Type: Intelligent Proxy Addressing
☐ Obsolete

Standard Options

Number of Ports: ☐ Unlimited ☒ Limited To

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

Authentication: ☒ Enabled
☐ Disabled

Hold Normalization: ☐ Unspecified Address
☐ Inactive
☒ RFC3264

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

Advanced Options

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

Reset Event: ☒ reSync ☐ checkSync ☐ Not Supported

Trunk Mode: ☒ User ☐ Pilot ☐ Proxy

Hold Announcement Method: ☐ Inactive ☒ Bandwidth Attributes

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

Web Based Configuration URL Extension:

Device Configuration Options: ☐ Not Supported ☒ Device Management ☐ Legacy

Figure 1 Device Identity/Profile Type

3.2 Cisco BroadWorks Configuration Steps

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
<i>CiscoDev_Type68xx.xml</i>	Per-Type	Contains the 6800 family-specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type6821.xml</i>	Per-Type	Contains the 6821 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type6861.xml</i>	Per-Type	Contains the 6861 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type6871.xml</i>	Per-Type	Contains the 6871 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type78xx.xml</i>	Per-Type	Contains the 7800 family-specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type7832.xml</i>	Per-Type	Contains model 7832 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type88xx.xml</i>	Per-Type	Contains the 8800 family-specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type88x5.xml</i>	Per-Type	Contains model 88x5 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type8875.xml</i>	Per-Type	Contains model 8875 specific configurable parameters that apply to Upgrade rule.
<i>CiscoDev_Type8832.xml</i>	Per-Type	Contains model 8832 specific configurable parameters that apply to Upgrade rule, logo download.
<i>CiscoDev_Type9841.xml</i>	Per-Type	Contains the 9841 specific configurable parameters that apply to Upgrade rule.
<i>CiscoDev_Type9851.xml</i>	Per-Type	Contains the 9851 specific configurable parameters that apply to Upgrade rule.
<i>CiscoDev_Type9861.xml</i>	Per-Type	Contains the 9861 specific configurable parameters that apply to Upgrade rule.

<i>CiscoDev_Type9871.xml</i>	Per-Type	Contains the 9871 specific configurable parameters that apply to Upgrade rule.
<i>CiscoDev_System.xml</i>	Per-Type	System-level settings of device type.
<i>CiscoDev-3PCC_Bootstrap.xml</i>	Per-Type	These files are referred to as the default template files. They contain the Profile Rule settings for the MPP-3PCC phone models.
<i>%BWMACADDRESS%_CiscoDev.xml</i>	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	<p>Set the DNS Settings.</p> <p>Web :</p> <p><u>System Tab:</u></p> <p>Primary DNS = 8.8.8.8</p> <p>Secondary DNS = 8.8.4.4</p> <p>XML :</p> <pre><Primary_DNS ua="rw">8.8.8.8</Primary_DNS> <Secondary_DNS ua="rw">8.8.4.4</Secondary_DNS></pre>	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	<p>Set the Profile Resync Timers.</p> <p>Web :</p> <p><u>System Tab:</u></p> <p>Resync At Random Delay: 1</p> <p>Resync Periodic: 60 (1 minutes/60 seconds)</p> <p>Resync Error Retry Delay: 300</p> <p>Forced Resync Delay: 600</p> <p>XML :</p> <pre><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_D elay> <Forced_Resync_Delay ua="na">600</Forced_Resync_Delay></pre>	<p>Sets the MPP Series Profile Resync values to a minimum value.</p> <p>This allows for instantaneous loading of the configuration files.</p>

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

Step	Command	Description
System Configuration File <CiscoDev_System.xml>		
Step 1	<p>Set the SIP Proxy/Domain.</p> <p>Web :</p> <p><u>Ext 1 Tab:</u></p> <p>Proxy = as.broadworks.net</p> <p>XML :</p> <pre><Proxy_1_ ua="na">as.broadworks.net</Proxy_ 1_></pre> <p>Optional SRST Proxy Config</p> <p>Web :</p> <p><u>Ext Tab -> Proxy and Registration:</u></p> <p>Alternate Proxy = 192.168.1.1</p> <p>Dual Registration = Yes</p> <p>XML Example:</p> <pre><Alternate_Proxy_1_ ua="na">192.168.1.1</Alternate_Pr oxy_1_> <Dual_Registration_1_ ua="na">Yes</Dual_Registration_1_ ></pre>	<p>Sets the MMP series phone SIP Proxy to the Fully Qualified Domain Name (FQDN) for the Cisco BroadWorks Application Server cluster.</p> <p>The domain must match the domain configured for the Cisco BroadWorks subscriber's line/port domain.</p> <p>For more information, see the <i>Cisco 3PCC IP Phone Administration Guide</i>.</p>
Step 2	<p>Configure the Outbound Proxy/SBC.</p> <p>Web :</p> <p><u>Voice Tab->Extension Tab:</u></p> <p>Outbound</p> <p>Proxy=sbciop1.broadworks.net</p> <p>Outbound Proxy=199.19.193.9</p> <p>XML :</p> <pre><Outbound_Proxy_1_ ua="na">%SBC_ADDRESS_1%</Outbound_ Proxy_1_> <Alternate_Outbound_Proxy_ 1_ ua="na">%SBC_ADDRESS_2%</Alternat e_Outbound_Proxy_1_></pre>	<p>Sets the Outbound Proxy/SBC if one is used between Cisco BroadWorks and Cisco MMP Series.</p> <p>If the SBC is redundant, use an FQDN to represent the SBC cluster within the Outbound Proxy field.</p> <p>Otherwise, enter the Primary SBC for custom tag SBC_ADDRESS_1 and the Secondary SBC for custom tag SBC_ADDRESS_2.</p>
Step 3	<p>Enable the DNS SRV lookup.</p> <p>Web :</p> <p><u>Ext 1 Tab:</u></p> <p>Use DNS SRV = "Yes"</p> <p>XML :</p> <pre><Use_DNS_SRV_1_ ua="na">Yes</Use_DNS_SRV_1_></pre>	<p>Enable the DNS SRV lookup when deploying redundant SBC/Cisco BroadWorks Application Servers.</p>

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

Step	Command	Description
Step 8	<p>Configure dial plan.</p> <p>Web :</p> <p><u>Ext 1 Tab:</u></p> <pre>Dial_Plan = ([2346789]11S0 [0-1][2-9]11S0 0 00S0 01[2-9]xx. [*#]xx[*#] *xx. *xxxxxxS0 *xxxxxxxxxxxx [2-9]# 011x. [0-1]xxxxxxxx [0-1][2-9]xxxxxxxxS0 [2-9]xxxxxxxxS0 [2- 9]xxxxxx 101xxxx. 11S0 [2-9]x.)</pre> <p>XML :</p> <pre><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]xxxxxxxx [0-1][2- 9]xxxxxxxxS0 [2-9]xxxxxxxxS0 [2- 9]xxxxxx 101xxxx. 11S0 [2-9]x.) </Dial_Plan_1_></pre>	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	<p>Enable supplementary services.</p> <p>Web :</p> <p>Phone Tab:</p> <p>Conference Serv = "yes"</p> <p>Attn Transfer Serv = "yes"</p> <p>Blind Transfer Serv = "yes"</p> <p>XML :</p> <pre><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></pre>	Enables Conference, Attended Transfer, and Blind Transfer services.
Step 10	<p>Enable reliable redundancy.</p> <p>Web :</p> <p><u>Ext 1 Tab:</u></p> <p>Proxy Fallback Intvl = 1800</p> <p>XML :</p> <pre><Proxy_Fallback_Intvl_1_ ua="na">1800</Proxy_Fallback_Intv l_1_></pre>	Setting forces fallback of redundant registration, overriding any value received from Cisco BroadWorks Application Server.
Step 11	<p>Schedule Profile Rule Resynchronize Time.</p> <p>Web :</p> <p>Provisioning Tab->"Configuration Profile Section"</p> <p>Field: "Resync At (HHmm):"</p> <p>XML Example:</p> <pre><Resync_At__HHmm_ ua="na">0200</Resync_At__HHmm_></pre>	The value is in 24-hour format.

Step	Command	Description
Step 12	<p>Configure the Calls Appearances/Line.</p> <p>Web Example:</p> <p>Phone Tab->Miscellaneous Line Key Settings->Call Appearance Per Line: 3</p> <p>XML Example:</p> <pre><Call_Appearances_Per_Line group="Phone/Miscellaneous_Line_Key_Settings">10</Call_Appearance_Per_Line> <!-- options: 2-10 --></pre>	Appearances/Line value can be set to any value between 1 and 10.
Step 13	<p>Configure NAT Support.</p> <pre><!-- 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></pre>	<p>Optional:</p> <p>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.</p>
Step 14	<p>Configure for Solicited VM.</p> <p>Web:</p> <p><i>Example:</i></p> <p><u>Ext 1 Tab</u></p> <p>"Call Feature Settings"</p> <p>Voice Mail Server = 1111@as.mycompany.com</p> <p>Voice Mail Subscribe Interval = "3600"</p> <p>XML:</p> <p><i>Example:</i></p> <pre><Voice_Mail_Server_1_ ua="na"></Voice_Mail_Server_1_> <Voice_Mail_Subscribe_Interval_1_ ua="na">3600</Voice_Mail_Subscribe_Interval_1_></pre>	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	<p>Enable phone lines.</p> <p>Web :</p> <p><u>Ext 1 Tab</u></p> <p>Line Enable = "Yes"</p> <p>XML :</p> <p>Example:</p> <pre><Line_Enable_1_ ua="na">Yes </Line_Enable_1_></pre>	Enables each line on the Cisco IP Phones in use.
Step 2	<p>Configure SIP UA credentials.</p> <p>Web :</p> <p><u>Voice->Extension</u></p> <p>Proxy: as.mycompany.com</p> <p>UserID: 1111</p> <p>XML :</p> <pre><Proxy_1_ ua="na">as.mycompany.com</Proxy_1_> <User_ID_1_ ua="na">1111</User_ID_1_></pre>	Configures the Extension UserID and Proxy values to match the Cisco BroadWorks Application Server line/port setting.
Step 3	<p>Enable SIP Authentication for each line.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab</u></p> <p>Auth_ID = "1111@as.mycompany.com"</p> <p>Password = "welcome"</p> <p>XML :</p> <p><u>Ext1/Line1</u></p> <pre><Auth_ID_1_ ua="na">1111@as.mycompany.com</Auth_ID_1_> <Password_1_ ua="na">welcome </Password_1_></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.
Step 4	<p>Configure display name for each line.</p> <p>Web :</p> <p><u>Ext 1 Tab</u></p> <p>Display_Name = "Claire Smith"</p> <p>XML :</p> <p><u>Ext1/Line1</u></p> <pre><Display_Name_1_ ua="na">Claire Smith</Display_Name_1_></pre>	For each line, configure the name to be displayed on the device.

Step	Command	Description
Step 5	<p>Configure for N-Way Calling.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab</u></p> <p>Conference Bridge URL = conference@broadworks.net</p> <p>XML :</p> <pre><Conference_Bridge_URL_1_ua="na">conference@broadworks.net</Conference_Bridge_URL_1_></pre>	This setting within the Subscriber level configuration allows for network-based conference calls instead of device-based conference.
Step 6	<p>Configure for Solicited VM.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab</u></p> <p>"Call Feature Settings"</p> <p>Voice Mail Server = 1111@as.mycompany.com</p> <p>Voice Mail Subscribe Interval = "3600"</p> <p>XML :</p> <p>Example:</p> <pre><Voice_Mail_Server_1_ua="na"></Voice_Mail_Server_1_> <Voice_Mail_Subscribe_Interval_1_ua="na">3600</Voice_Mail_Subscribe_Interval_1_></pre>	Optional: This setting within the Subscriber level configuration allows for Solicited Voicemail Updates.
Step 7	<p>Configure PTT/Intercom Extensions.</p> <p>Web :</p> <p>Ext Tab->Call Feature Settings</p> <p>Auto Ans Page On Active Call: no</p> <p>XML :</p> <pre><Auto_Ans_Page_On_Active_Call_N_ua="na">Yes</Auto_Ans_Page_On_Active_Call_N_></pre> <p>Example :</p> <pre><Auto_Ans_Page_On_Active_Call_1_ua="na">Yes</Auto_Ans_Page_On_Active_Call_1_></pre>	<p>Optional: Applicable to Extension/Lines configured with the BroadWorks PTT feature with Auto Answer = yes.</p> <p>Subsequent call attempts to that extension will be treated as a call waiting scenario.</p> <p>Note that the N=1-16 depends on the phone's supported number of lines.</p>

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>).

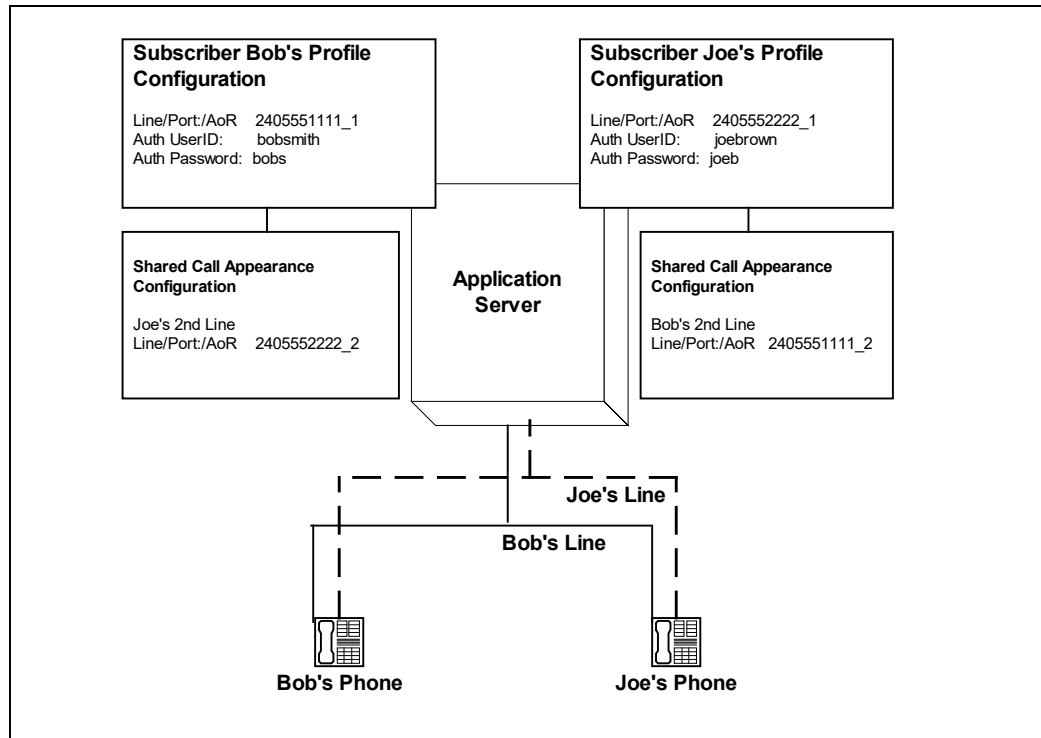


Figure 2 Shared Call Appearance Configuration

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	<p>Configure line 1 as shared.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>"Line Key 1"</p> <p>Share Call Appearance = "shared"</p> <p><u>Ext 1:</u></p> <p>"Share Line Appearance"</p> <p>Share Ext = "Yes"</p> <p>XML :</p> <p>Example:</p> <pre><Share_Call_Appearance_1_ua="na">shared</Share_Call_Appearance_1_> <Share_Ext_1_ua="na">Yes Share_Ext_1_></pre>	Configures the line as "shared" (as opposed to "private").
Step 2	<p>Set Register User ID.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>User ID = "2405551111_1"</p> <p>XML :</p> <p>Example:</p> <pre><User_ID_1_ua="na">2405551111_1 </User_ID_1_></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	<p>Enable SIP Authentication.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Auth_ID = "bobsmith"</p> <p>Password = "bobs"</p> <p>XML :</p> <p>Example:</p> <pre>< Auth_ID_1_ua="na">bobsmith </Auth_ID_1_> <Password_1_ua="na">bobs </Password_1_></pre>	<p>If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.</p> <p>This line rings when Bob is called, and it has Bob's authentication information.</p>
Step 4	<p>Configure display name.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Display Name = "Bob Smith"</p> <p>XML :</p> <p>Example:</p> <pre><Display_Name_1_ua="na">Bob Smith </Display_Name_1_></pre>	Configure the name to be displayed on the device for this line.

Step	Command	Purpose
Configuration File <mac-address>_CiscoDev.xml		
Step 5	<p>Enable Call Park.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>Extension 2: Disabled</p> <p>Extended Function 2:</p> <pre>fnc=prk;sub=4085282222a@\$PROXY;nm e=Park;orbit=4085282222</pre> <p>XML :</p> <p>Example:</p> <pre>Extension_2_>Disabled</Extension_ 3> Extended_Function_2_> fnc=prk;sub=4085282222a@\$PROXY;nm e=Park;orbit=4085282222</Extended _Function_2_></pre>	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*.

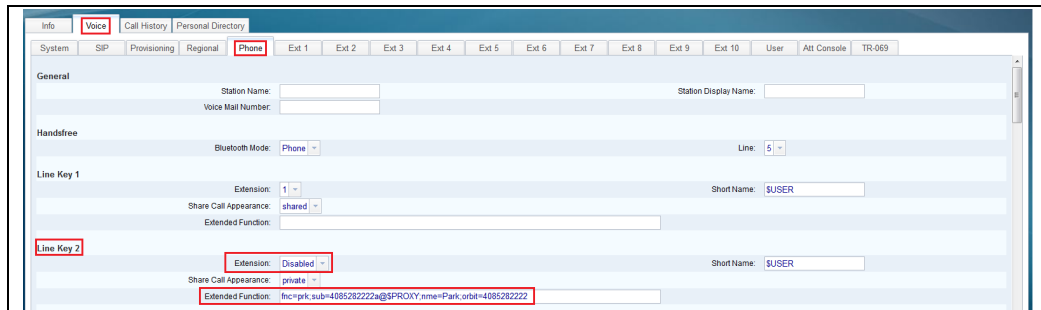


Figure 3 Shared Line Park

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	<p>Configure line 2 as shared.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>"Line Key 2"</p> <p>Share Call Appearance = "shared"</p> <p><u>Ext 2:</u></p> <p>"Share Line Appearance"</p> <p>Share Ext = "Yes"</p> <p>XML :</p> <p>Example:</p> <pre><Share_Call_Appearance_2_ua="na">shared</Share_Call_Appearance_2_> <Share_Ext_2_ua="na">Yes Share_Ext_2_></pre>	Configures the line as "shared" (as opposed to "private").
Step 2	<p>Set Register User ID.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 2 Tab:</u></p> <p>User ID = "2405551111_2"</p> <p>XML :</p> <p>Example:</p> <pre><User_ID_2_ua="na">2405551111_2 </User_ID_2_></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	<p>Enable SIP Authentication.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Auth_ID = "joebrown"</p> <p>Password = "joeb"</p> <p>XML :</p> <p>Example:</p> <pre><Auth_ID_1_ua="na">joebrown </Auth_ID_1_> <Password_1_ua="na">joeb </Password_1_></pre>	<p>If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.</p> <p>This line rings when Joe is called, and it has Joe's authentication information.</p>
Step 4	<p>Configure display name.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Display Name = "Joe Brown"</p> <p>XML :</p> <p>Example:</p> <pre><Display_Name_1_ua="na">Joe Brown</Display_Name_1_></pre>	Configures the name to be displayed on the device for this line.

Step	Command	Purpose
Step 5	<p>Enable Call Park.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>Extension 2: Disabled</p> <p>Extended Function 2:</p> <p>fnc=prk;sub=4085282222b@\$PROXY;nm e=Park;orbit=4085282222</p> <p>XML :</p> <p>Example:</p> <p>Extension_2_>Disabled</Extension_2_></p> <p>Extended_Function_2_> fnc=prk;sub=4085282222b@\$PROXY;nm e=Park;orbit=4085282222 </Extended_Function_2_></p>	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	<p>Configure line as shared.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>"Line Key 1"</p> <p>Share Call Appearance = "shared"</p> <p><u>Ext 1:</u></p> <p>"Share Line Appearance"</p> <p>Share Ext = "Yes"</p> <p>XML :</p> <p>Example:</p> <p><Share_Call_Appearance_1_ua="na">shared</Share_Call_Appearance_1_></p> <p><Share_Ext_1_ua="na">Yes Share_Ext_1_></p>	Configures the line as "shared" (as opposed to "private").
Step 2	<p>Set Register User ID.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>User ID = "2405552222_1"</p> <p>XML :</p> <p>Example:</p> <p><User_ID_1_ua="na">2405552222_1</User_ID_1_></p>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	<p>Enable SIP Authentication.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Auth_ID = "joebrown"</p> <p>Password = "joeb"</p> <p>XML :</p> <p>Example:</p> <pre><Auth_ID_1_ ua="na">joebrown </Auth_ID_1_> <Password_1_ ua="na">joeb </Password_1_></pre>	<p>If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.</p> <p>This line rings when Joe is called, and it has Joe's authentication information.</p>
Step 4	<p>Configure display name.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 1 Tab:</u></p> <p>Display Name = "Joe Brown"</p> <p>XML :</p> <p>Example:</p> <pre><Display_Name_1_ ua="na">Joe Brown</Display_Name_1_></pre>	<p>Configure the name to be displayed on the device for this line.</p>

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	<p>Configure line as shared.</p> <p>Web :</p> <p>Example:</p> <p><u>Phone Tab:</u></p> <p>"Line Key 2"</p> <p>Share Call Appearance = "shared"</p> <p><u>Ext 2:</u></p> <p>"Share Line Appearance"</p> <p>Share Ext = "Yes"</p> <p>XML :</p> <p>Example:</p> <pre><Share_Call_Appearance_2_ ua="na">shared</Share_Call_Appear ance_2_> <Share_Ext_2_ ua="na">Yes Share_Ext_2_></pre>	<p>Configure the line as "shared" (as opposed to "private").</p>
Step 2	<p>Set Register User ID.</p> <p>Web :</p> <p>Example:</p> <p><u>Ext 2 Tab:</u></p> <p>User ID = "2405552222_2"</p> <p>XML :</p> <p>Example:</p> <pre><User_ID_2_ ua="na">2405552222_2</User_ID_2_></pre>	<p>The register user ID must correspond with the line/port setting on Cisco BroadWorks.</p>

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

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.

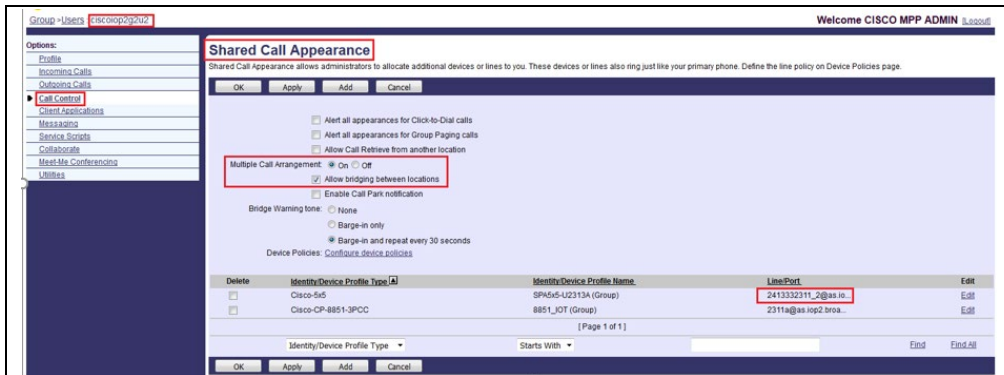


Figure 4 Shared Call Appearance (Multiple Call Arrangement)

Enable Hybrid Key System on phone.

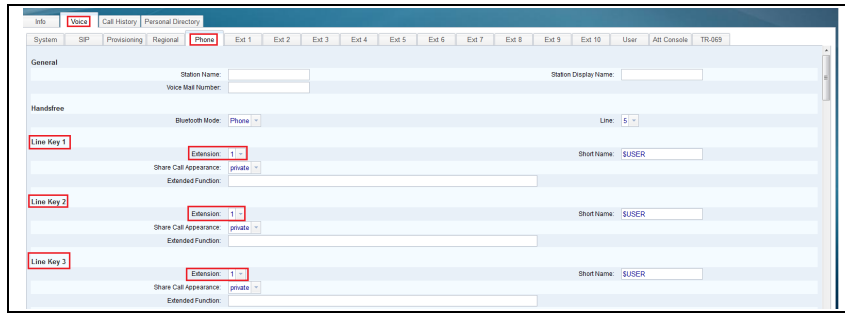


Figure 5 Line Key Mapping

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	<p>Configure the phone to enable line keys and associate them with the registering line.</p> <p>1) Web Portal -> Phone Tab</p> <p>Line Key 1:</p> <p>Extension: 1</p> <p>Share Call Appearance: Shared</p> <p>Line Key 2:</p> <p>Extension: 1</p> <p>Share Call Appearance: Shared</p> <p>2) XML</p> <pre><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_> <Share_Call_Appearance_2_ua="na">%BWSHAREDLINE-2%</Share_Call_Appearance_2_></pre> <p>Example:</p>	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		
	<pre> <Extension_1_ ua="na">1</Extension_1_> <Share_Call_Appearance_1_ ua="na">shared</Share_Call_Appea rance_1_> <Extension_2_ ua="na">1</Extension_2_> <Share_Call_Appearance_2_ ua="na">shared</Share_Call_Appea rance_2_> </pre>	
Step 2	<p>Configure phone for Line ID mapping.</p> <p>Web Portal Voice -> Phone Tab</p> <p>Line ID Mapping: Vertical</p>	<p>Phone behavior for incoming calls.</p> <p>Vertical: First incoming call on first line key and second incoming call on second line key.</p> <p>Horizontal: Incoming calls will display on line key 1 until it reaches call appearance.</p>

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	<p>Set the BLF List URI for the primary line.</p> <p>Example:</p> <p>1) Web Portal -> Att Console Tab</p> <p>BLF List URI: CiscoBLFList@as.iopl.broadworks.net</p> <p>2) XML</p> <pre> <BLF_List_URI ua="na">%BWBLF- URI-1%</BLF_List_URI> <BLF_List_URI ua="na">CiscoBLFList@as.iopl.broa dworks.net</BLF_List_URI> </pre>	<p>The BLF List URI must be configured to match the Cisco BroadWorks User settings.</p>

On the Cisco BroadWorks server, configure as follows:

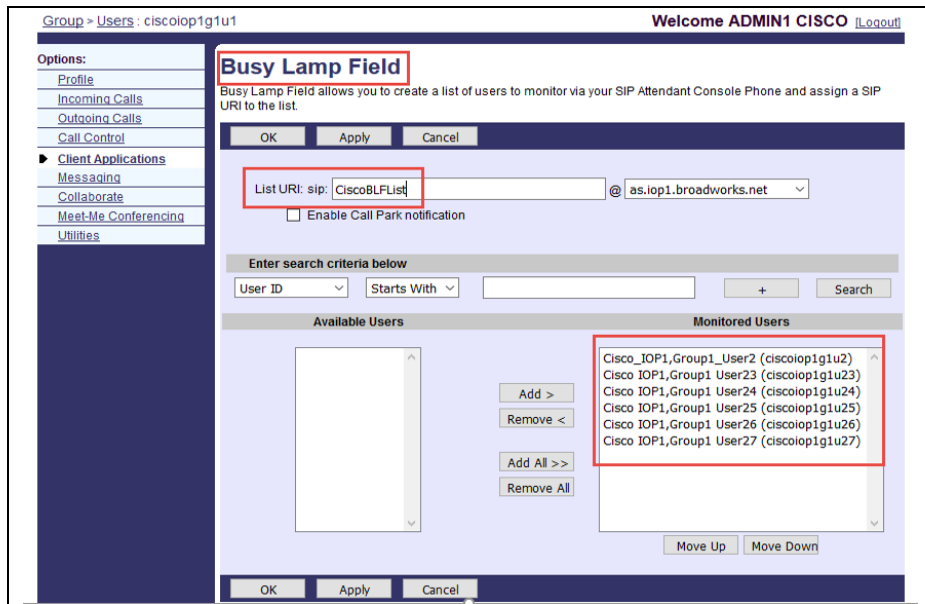


Figure 7 Busy Lamp Field Configuration – Server

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

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

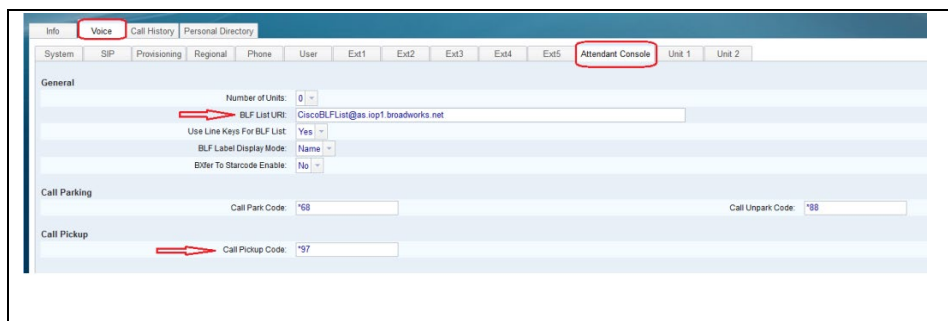


Figure 8 Busy Lamp Field Configuration – Device

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	<p>Configure Feature Key Sync.</p> <p>Web : Example: <u>Ext X:->Call Feature Settings</u> Feature Key Sync: Yes</p> <p>XML : Example: <Feature Sync 1 ua="na">Yes</Feature_Sync_1_></p>	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.

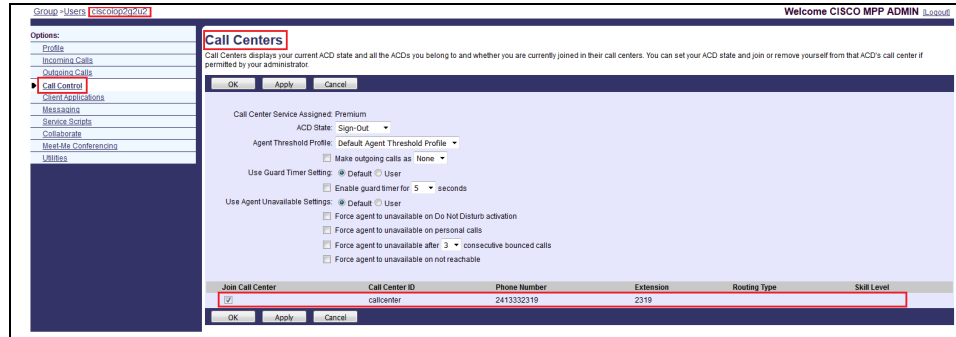


Figure 9 Call Control → Call Center Page

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

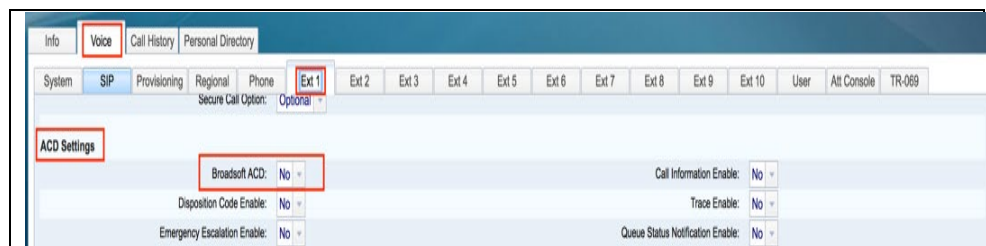


Figure 10 BroadSoft ACD

4.4.5.1 Configuration of Call Center Web Interface

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Enable BroadSoft ACD on phone.</p> <p>Web:</p> <p>Example:</p> <p>Voice -> Ext Tab -> ACD Settings</p> <p>BroadSoft ACD: Yes</p> <p>XML:</p> <pre><Broadsoft_ACD_1_ua="na">%BRADSOFT_ACD_ENABLE-1%</Broadsoft_ACD_1_></pre> <p>Example:</p> <pre><Broadsoft_ACD_1_ua="na">Yes</Broadsoft_ACD_1_></pre>	<p>Enables BroadSoft_ACD on the phone. LCD shows the Agent Sign-in softkey.</p>

4.4.5.2 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	<p>Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No</p> <p>XML: <Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n_> Where n=1-16</p> <p>Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No</p> <p>Example: <Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></p>	Enables BroadSoft ACD on the phone. Options: Yes No Default value: No
Step 2	<p>Web Portal: Voice → Ext(n) → ACD Settings. ACD Status: Sync From Local</p> <p>XML: <ACD_Status_n_ua="na">%ACD_STATUS_n%</ACD_Status_n_> Where n=1-16</p> <p>Note: %ACD_STATUS_n% has two options: Sync From Server Sync From Local</p> <p>Example: <ACD_Status_1_ua="na">Sync From Local</ACD_Status_1_></p>	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.

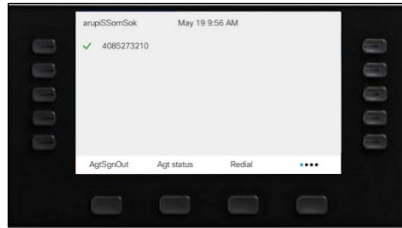


Figure 12 Phone ACD Status Available

- 3) Power down the phone.
- 4) On the Cisco BroadWorks server, browse to the *Call Centers* configuration page as follows and set *Call Centers ACD State* to “Unavailable”.

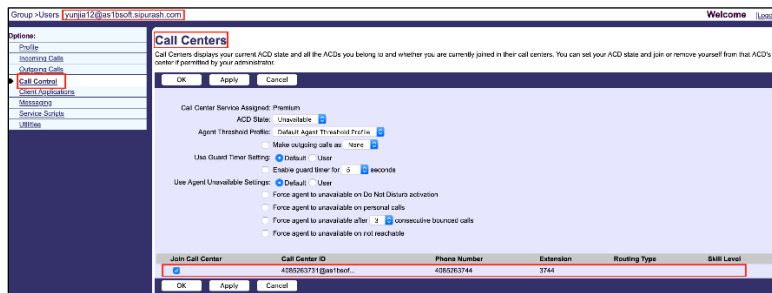


Figure 13 ACD Status to Unavailable

- 5) Power up the phone.
- The phone uses the last local status as the ACD initial value.

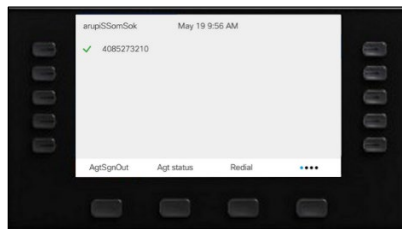


Figure 14 ACD Status (Last Local Status)

4.4.5.3 Call Center Call Details

This section provides information on how to enable a phone to display details of a call center call.

To configure the Call Information Enable from the web user interface, see the following figure.

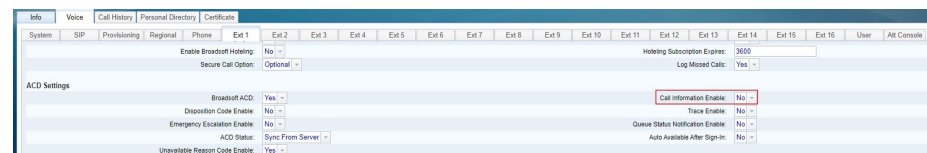


Figure 15 Call Information Enable

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n) → ACD Settings. Call Information Enable: Yes XML: <pre><Call_Information_Enable_n_ua="na"></pre> <pre>%Call_Information_Enable_n_%</Call_Information_Enable_n_></pre> Where n=1-16 Note: %Call_Information_Enable_n_% has two options: Yes No Example: <pre><Call_Information_Enable_n_ua="na">Yes</Call_Information_Enable_n_></pre>	Enables the phone to display details of a call center call. Options: Yes/No Yes: Enables the phone to display details of a call center call. No: Phone retains the old behavior. Default value: No

4.4.5.4 Disposition Code Addition

This section provides information on how to enable a call center phone with disposition code.

To configure the Disposition Code Enable from the web user interface, see the following figure.

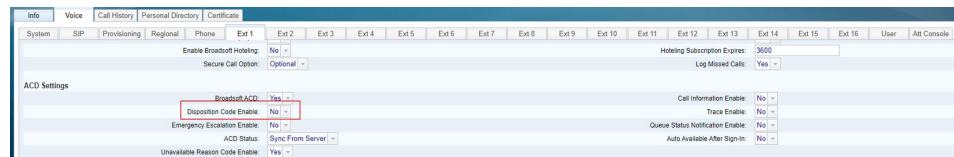


Figure 16 Disposition Code

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n) → ACD Settings. Disposition Code Enable: Yes XML: <pre><Disposition_Code_Enable_n_ua="na">%Disposition_Code_Enable_n%</Disposition_Code_Enable_n_></pre> Where n=1-16 Note: %Disposition_Code_Enable_n% has two options: Yes No Example: <pre><Disposition_Code_Enable_n_ua="na">Yes</Disposition_Code_Enable_n_></pre>	Enables the call center phone to add disposition code. Options: Yes/No Yes: Enables the phone to add disposition code. No: Phone retains the old behavior. Default value: No

4.4.5.5 Trace Enable

This section provides information on how to enable the call center phone to trace last incoming call.

To configure the Trace Enable from the web user interface, see the following figure.

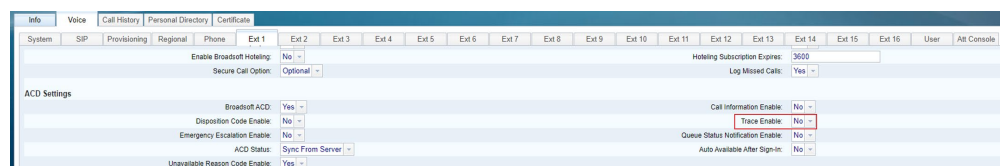


Figure 17 Trace Enable

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n) → ACD Settings. Trace Enable: Yes XML: <pre><Trace_Enable_n_ua="na">%Trace_Enable_n%</Trace_Enable_n></pre> Where n=1-16 Note: %Trace_Enable_n% has two options: Yes No Example: <pre><Trace_Enable_n_ua="na">Yes</Trace_Enable_n_></pre>	Enables the call center phone to trace the last incoming call. Options: Yes/No Yes: Enables the phone to trace last incoming call. No: Phone retains the old behavior. Default value: No

4.4.5.6 Emergency Escalation

This section provides information on how to enable the call center phone to escalate a call to a supervisor in case of emergency.

To configure the Emergency Escalation Enable from the web user interface, see the following figure.

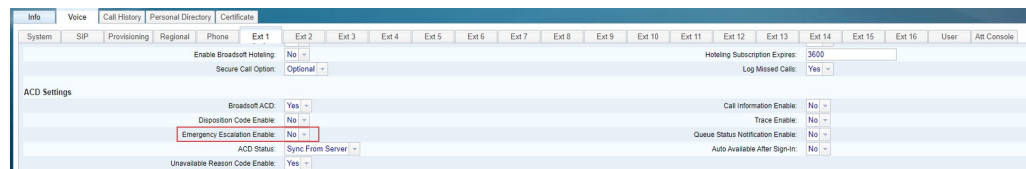


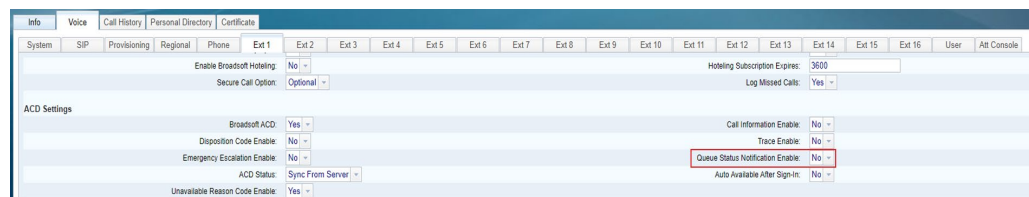
Figure 18 Emergency Escalation

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n) → ACD Settings. Emergency Escalation Enable: Yes XML: <pre><Emergency_Escalation_Enable_n_ua="na"></pre> <pre>%Emergency_Escalation_Enable_n%</Emergency_Escalation_Enable_n></pre> Where n=1-16 Note: %Emergency_Escalation_Enable_n% has two options: Yes No Example: <pre><Emergency_Escalation_Enable_n_ua="na">Yes</Emergency_Escalation_Enabl</pre> <pre>e_n_></pre>	Enables the call center phone to escalate an emergency call to the supervisor. Options: Yes/No Yes: Enables the phone to escalate a call. No: Phone retains the old behavior. Default value: No

4.4.5.7 Queue Status Notification

This section provides information on how to enable a call center phone to display the call center status and the agent status.

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



The screenshot shows the Cisco WUI configuration page for ACD Settings. The 'Queue Status Notification Enable' checkbox is highlighted with a red box. Other settings include 'BroadSoft ACD' (Yes), 'Disposition Code Enable' (No), 'Emergency Escalation Enable' (No), 'ACD Status' (Sync From Server), 'Unavailable Reason Code Enable' (Yes), 'Call Information Enable' (No), 'Trace Enable' (No), and 'Auto Available After Sign-in' (No).


Figure 19 Queue Status

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n) → ACD Settings. Queue Status Notification Enable: Yes XML: <pre><Queue_Status_Notification_Enable_1_ua="na">%Queue_Status_Notification_Enable_n%</Queue_Status_Notification_Enable_1_></pre> Where n=1-16 Note: %Queue_Status_Notification_Enable_n% has two options: Yes No Example: <pre><Queue_Status_Notification_Enable_1_ua="na">Yes</Queue_Status_Notification_Enable_1_></pre>	Displays the call center status and the agent status. Yes: Enables the phone to display the status. No: Phone retains the old behavior. Default value: No

4.4.5.8 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.



The screenshot shows the 'ACD Settings' page in the CUCM web interface. The 'Broadsoft ACD' dropdown is set to 'Yes'. The 'Queue Status Notification Enable' dropdown is set to 'Yes'. The 'Auto Available After Sign-In' dropdown is set to 'No'. Other settings like 'Disposition Code Enable', 'Emergency Escalation Enable', 'Call Information Enable', 'Trace Enable', and 'Queue Status Notification Enable' are all set to 'No'.

Figure 20 Set Auto Available After Sign-in

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	<p>Web Portal: Voice → Ext (n) → ACD Settings. BroadSoft ACD: No</p> <p>XML: <Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n> Where n=1-16</p> <p>Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No</p> <p>Example: <Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></p>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	<p>Web Portal: Voice → Ext (n) → ACD Settings. Auto Available After Sign-in: Yes</p> <p>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</p> <p>Note: %AUTO_AVAILABLE_AFTER_SIGN-IN_n% has two options: Yes No</p> <p>Example: <Auto_Available_After_Sign-In_1_ua="na">Yes</Auto_Available_After_Sign-In_1_></p>	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”.

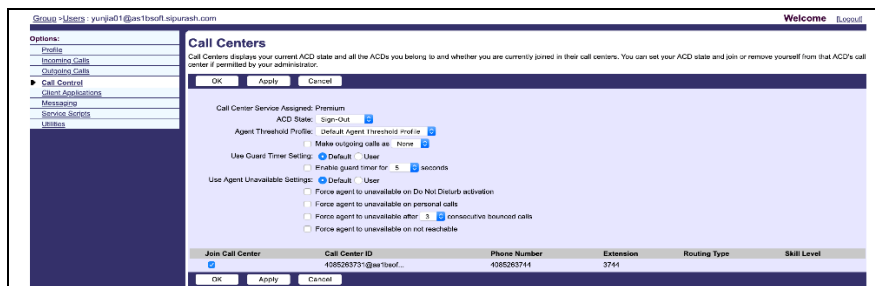


Figure 21 ACD State to Sign-Out

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

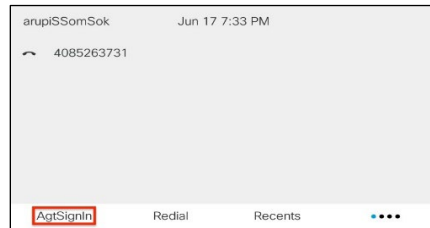


Figure 22 ACD Status (Before AgtSignin Press)



Figure 23 ACD Status (On AgtSignin Press)

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

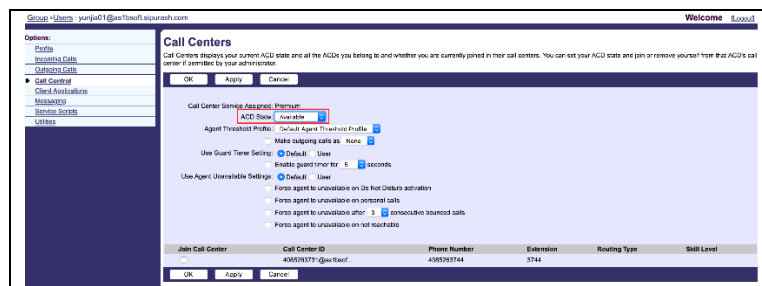


Figure 24 ACD State Updates to Available

4.4.5.9 ACD Unavailable Reason Code

This section provides information on how to display the text box to enter the ACD unavailable reason code.

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

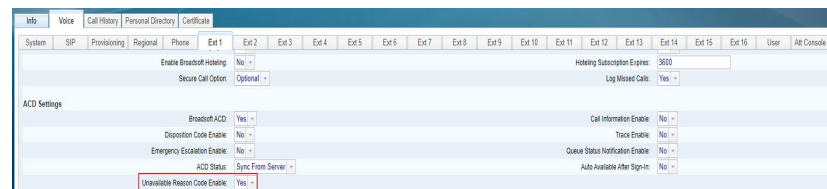


Figure 25 ACD Unavailable Reason

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	Web Portal: Voice → Ext(n)→ ACD Settings. BroadSoft ACD: No XML: <pre><Broadsoft_ACD_n_ua="na">%BROADSOFT_ACD_ENABLE-n%</Broadsoft_ACD_n></pre> Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <pre><Broadsoft_ACD_1_ua="na">No</Broadsoft_ACD_1_></pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	Web Portal: Voice → Ext(n)→ ACD Settings. Unavailable Reason Code Enable: Yes XML: <pre><Unavailable_Reason_Code_Enable_n_ua="na">%Unavailable_Reason_Code_Enable_n_%</Unavailable_Reason_Code_Enable_n_></pre> Where n=1-16 Note: %Unavailable_Reason_Code_Enable_n_% has two options: Yes No Example: <pre><Unavailable_Reason_Code_Enable_n_ua="na">Yes</Unavailable_Reason_Cod_e_Enable_n_></pre>	Displays the ACD unavailable reason code edit box in phone LCD. Options: Yes/No Yes: Displays the text box. No: Phone retains the old behavior. Default value: Yes

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.

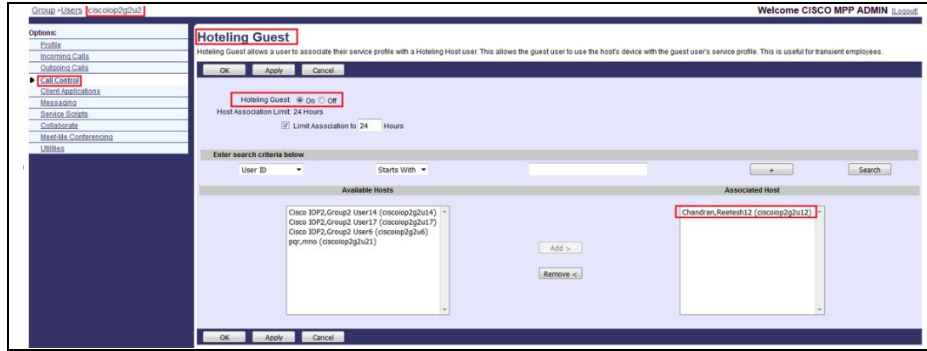


Figure 26 Call Control → Hoteling Guest

Enable Hoteling on phone.

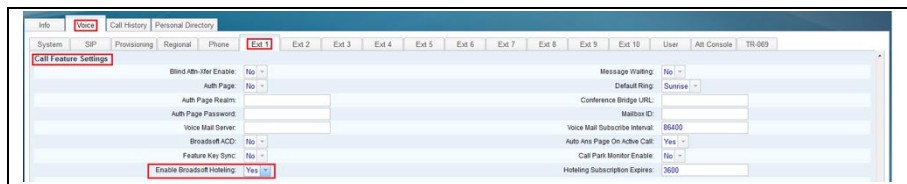
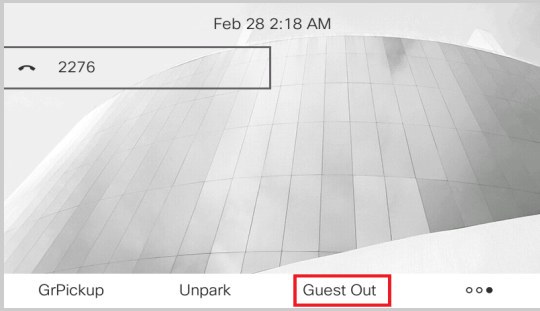


Figure 27 Cisco MPP Series BroadSoft Hoteling

2) To configure BroadSoft Hoteling feature.

Step	Command	Purpose
Step 1	<p>Guest Sign-in.</p>	<p>Sign in as a Guest. Using the guest extension and voice portal password.</p>

Step	Command	Purpose
Step 2	<p>Guest Sign-out.</p> 	Signing out the guest from Host phone.

Configuration of Hoteling feature on phone.

Step	Command	Description
Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Enable BroadSoft Hoteling on phone.</p> <p>Web :</p> <p>Voice -> Ext Tab -> call feature Settings</p> <p>Enable BroadSoft Hoteling: Yes</p> <p>XML :</p> <pre><Enable_Broadsoft_Hoteling_1_ua="na">%BROADSOFT_HOTELING_ENABLE-1%</Enable_Broadsoft_Hoteling_1_></pre> <p>Example :</p> <pre><Enable_Broadsoft_Hoteling_1_ua="na">Yes</Enable_Broadsoft_Hoteling_1_></pre>	<p>Enables BroadSoft Hoteling on the phone.</p> <p>LCD will show Guest-in softkey.</p>

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 28 Cisco MPP Series Call Park Service

4.4.7.1 Configure Call Park Feature Access Code

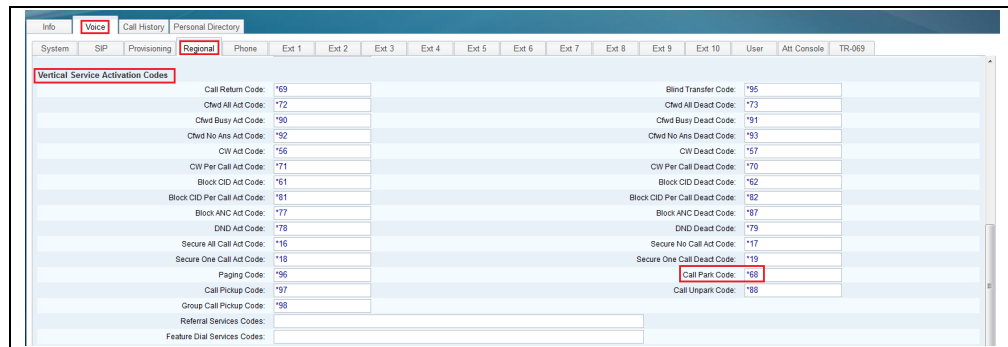


Figure 29 Cisco MPP Series Call Park Feature Access Code

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Enable Call Park service: Web Portal Voice → Phone Tab → Supplementary Services</p> <p>Call Park Serv: Yes</p> <p>XML</p> <pre><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_></pre> <p>Example:</p> <pre><Call_Park_Code ua="na">*68</Call_Park_Code> <Call_Park_Serv ua="na">Yes</Call_Park_Serv></pre>	<p>Enables Call Park service. Default value: Yes.</p>

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.

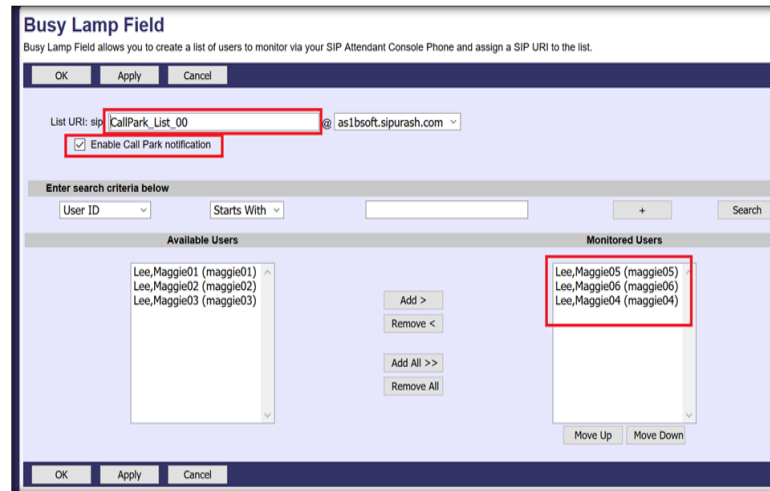


Figure 30 One-button Call Park

- 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.

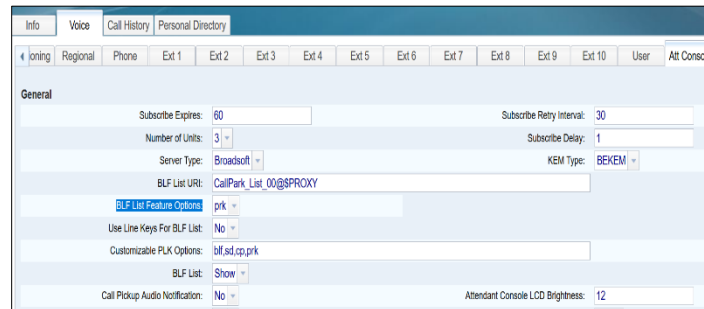


Figure 31 One-button Call Park from Web

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

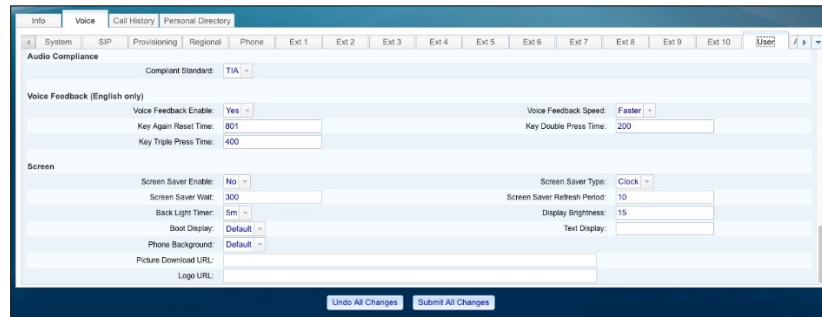
4.4.8 Accessibility with Voice Feedback Configuration

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

NOTE: The Cisco Video Phone 8875 does not support this feature.

NOTE: The Cisco Desk Phone 9841, 9851, 9861 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.



The screenshot shows the 'Voice' configuration page in the Cisco Unified Communications Manager Administration Console. The 'Voice Feedback (English only)' section is active, showing settings for 'Voice Feedback Enable' (Yes), 'Voice Feedback Speed' (Faster), 'Key Again Reset Time' (801), and 'Key Double Press Time' (200). The 'Screen' section shows settings for 'Screen Saver Enable' (No), 'Screen Saver Wait' (300), 'Screen Saver Type' (Clock), 'Screen Saver Refresh Period' (10), 'Back Light Timer' (5m), 'Display Brightness' (15), 'Boot Display' (Default), 'Phone Background' (Default), 'Text Display', 'Picture Download URL', and 'Logo URL'. The 'Compliant Standard' is set to 'TIA'. At the bottom, there are buttons for 'Undo All Changes' and 'Submit All Changes'.

Section	Parameter	Value
Voice Feedback (English only)	Voice Feedback Enable	Yes
	Voice Feedback Speed	Faster
	Key Again Reset Time	801
	Key Double Press Time	200
Screen	Screen Saver Enable	No
	Screen Saver Wait	300
	Screen Saver Type	Clock
	Screen Saver Refresh Period	10
	Back Light Timer	5m
	Display Brightness	15
	Boot Display	Default
	Phone Background	Default
	Text Display	
	Picture Download URL	
Logo URL		

Figure 32 Configure Voice Feedback

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Enable Voice Feedback:</p> <p>Web Portal</p> <p>Voice → User → Voice Feedback (English Only)</p> <p>Voice Feedback Enable: Yes</p> <p>Voice Feedback Speed: Slowest/Slower/Normal/Faster/Fastest</p> <p>Key Again Reset Time: 100-2000</p> <p>Key Double Press Time: 100-2000</p> <p>Key Triple Press Time: 100-2000</p> <p>Voice Feedback Volume: Lowest/Low/Normal/High/Highest</p> <p>XML</p> <pre><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 --></pre> <p>Example:</p> <pre><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 --></pre>	<p>Enables accessibility with voice feedback.</p> <p>Default values are as follows:</p> <p>Voice Feedback: No</p> <p>Voice Feedback Speed: Normal</p> <p>Key Again Reset Time: 1200</p> <p>Key Double Press Time: 600</p> <p>Key Triple Press Time: 1000</p> <p>Voice Feedback Volume: Normal</p>

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.

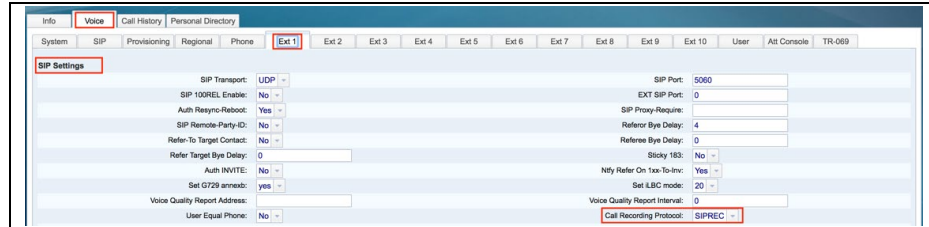


Figure 33 Cisco MPP Series Call Recording Protocol




Figure 34 Cisco MPP Series Call Recording Serv

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Enable Call Recording:</p> <p>Web Portal Voice → Ext 1 → SIP Settings</p> <p>Call Recording Protocol: SIPREC</p> <p>Web Portal Voice → Phone → Supplementary Services</p> <p>Call Recording Serv: No</p> <p>XML</p> <pre><Call_Recording_Protocol_1_ua="na">SIPREC</Call_Recording_Protocol_1_> <Call_Recording_Serv ua="na">No</Call_Recording_Serv></pre> <p>Example:</p> <pre><Call_Recording_Protocol_1_ua="na">SIPREC</Call_Recording_Protocol_1_> <Call_Recording_Serv ua="na">No</Call_Recording_Serv></pre>	<p>Enable Call Recording.</p> <p>Default value: SIPREC</p> <p>Default value: No</p> <p>To enable: Yes</p>

4.4.10 Multicast Paging

This section provides configuration instructions to configure multicast paging. You can set up multicast paging to allow users to send paging messages to other phones. The page can go to all phones or a group of phones in the same network. Any phone in the group can initiate a multicast paging session. The page is received only by the phones that are set to listen for the paging group. A phone can be added to up to 10 paging groups. Each paging group has a unique multicast port and number. The phones within a paging group must subscribe to the same multicast IP address, port, and multicast number.

To configure the multicast paging from the web user interface, see the following figure.

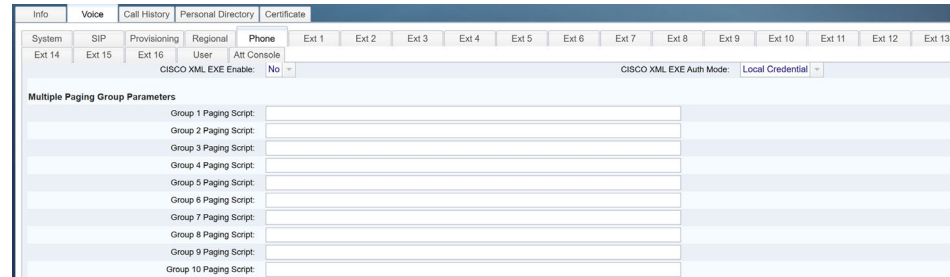


Figure 35 Multicast Paging

Step	Command	Purpose
System Configuration File _<CiscoDev_System.xml>		
Step 1	<p>Web Portal:</p> <p>Voice → Phone → Multiple Paging Group Parameters</p> <p>Group n Paging Script: String</p> <p>XML:</p> <pre><Group_n_Paging_Script>%PAGING_GRP_n%</Group_n_Paging_Script></pre> <p>Note:</p> <p>For multicast paging:</p> <pre>%PAGING_GRP_n% = pggrp=<multicast-address>:<port>;<name=group_name>;<num=multicast_number>;<listen=boolean_value>;<pri=priority_level>;<codec=codec_name>;</pre> <p>For multicast paging with XML application support:</p> <pre>pggrp=<multicast-address>:<port>;<name=group_name>;<num=multicast_number>;<listen=boolean_value>;<pri=priority_level>;<codec=codec_name>;<xmlapp=boolean_value>;<timeout=seconds></pre> <p>Example:</p> <pre><Group_1_Paging_Script>pggrp=224.168.168.168:34560;name=Group_1;num=800;listen=yes;pri=1;</Group_1_Paging_Script></pre>	<p>Enables multicast paging on the phone.</p> <p>Options: String</p> <p>Default value: Empty</p>

4.4.11 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.

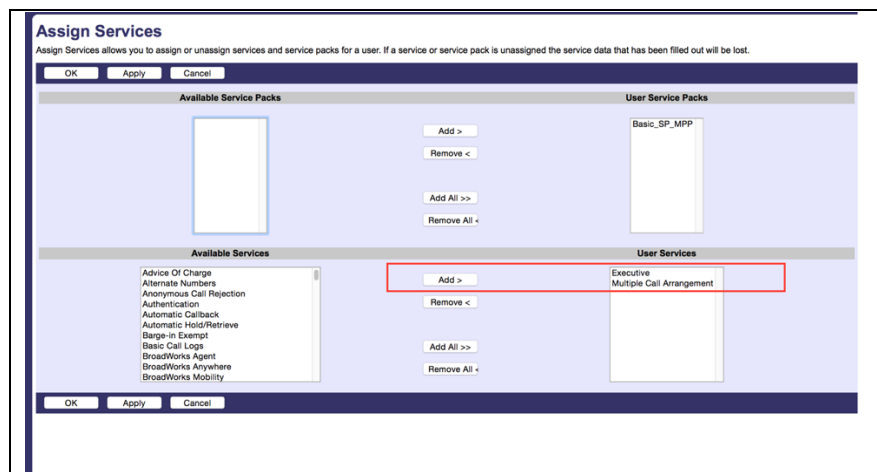


Figure 36 Cisco BroadWorks Executive Service

- 2) Configure Executive-Assistant service for the user.

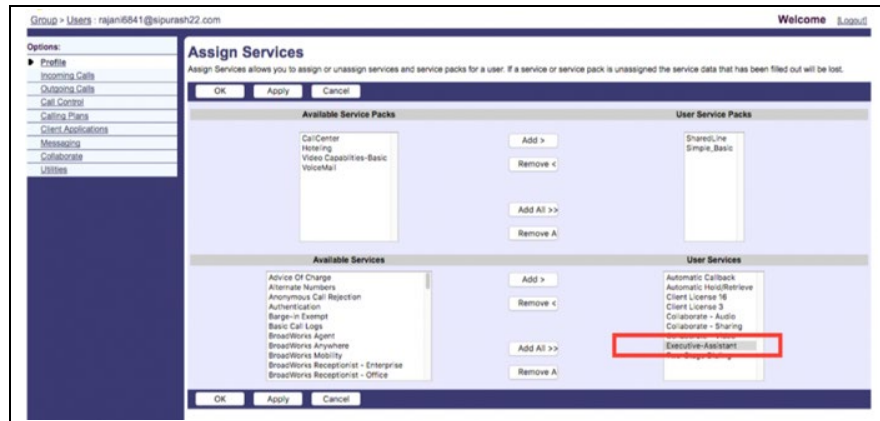


Figure 37 Cisco BroadWorks Executive-Assistant

3) Configure Assistant to an Executive.

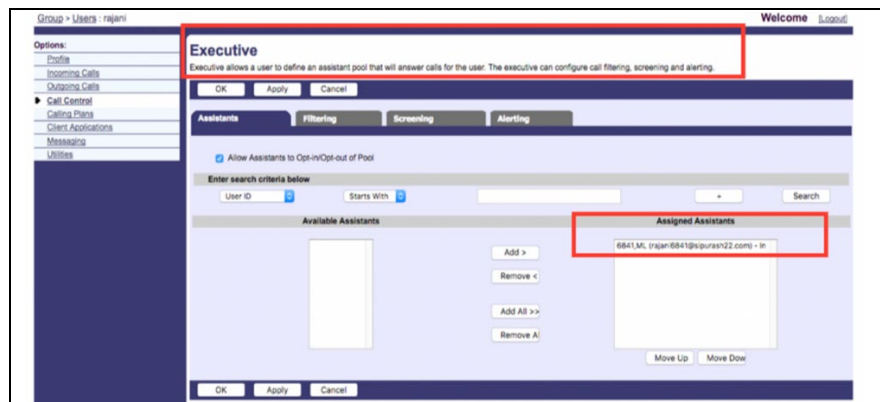


Figure 38 Cisco BroadWorks Exec Admin – Assign Assistant to Exec

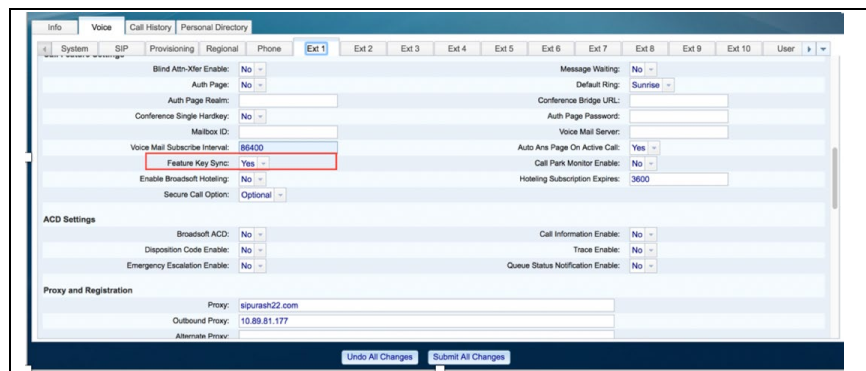


Figure 39 Exec Admin Feature Key Sync

Figure 40 Exec Admin Programmable Softkeys

Figure 41 Exec Admin Feature Access Code

Dial Plan

Dial Plan: (*xx|[3469]11|0|00|[2-9]xxxxxx|1xxx(2-9)xxxxxxS0)xxxxxxxxxxxxxx,##xx|##xx+xxxxxxxxxxxxxx*xxxxxxxxxxxxxx)

Figure 42 Exec Admin Dial Plan

Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Enable Feature Key Sync.</p> <p>Web Portal Voice → Ext 1 → Call Feature Settings</p> <p>Feature Key Sync: Yes</p> <p>Example:</p> <pre><Feature_Key_Sync_1_ua="na">Yes</Feature_Key_Sync_1_></pre> <p>For PLK setup</p> <p>Voice→Phone→ Line Key <#> → Extended Function</p>	<p>Enable Feature Key Sync.</p> <p>Default value: No</p> <p>To enable: Yes</p>

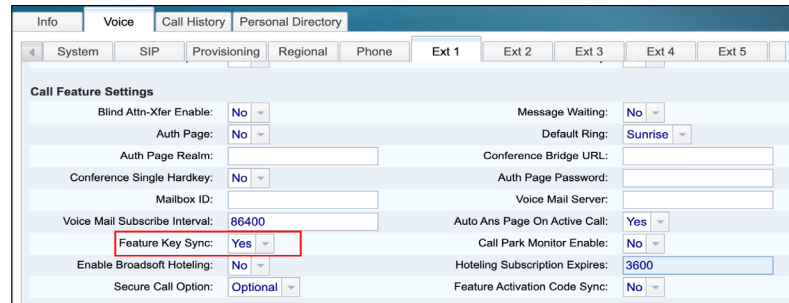
Step	Command	Purpose
System Configuration File <mac-address_CiscoDev>.xml		
	<p>Syntax for PLK - "fnc=bw-exec-assist"</p> <p>Programmable softkeys config</p> <p>Voice->Phone->Programmable Softkeys</p> <p>Check Figure 21 Programmable Softkeys</p> <p>Feature Access code</p> <p>Voice->Regional</p> <p>Check Figure 22 Feature Access Code</p> <p>Update the dial plan</p> <p>Check Figure 23 Dial Plan</p> <p>XML</p> <pre> <Exec_Assistant_Call_Initiate_Code ua="na">%Exec_Assistant_Call_Initia te_Code%</Exec_Assistant_Call_Initi ate_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_Cod e%</Exec_Call_Filter_Deact_Code> <Exec_Assistant_Call_Push_Code ua="na">%Exec_Assistant_Call_Push_C ode%</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%</Ex ec_Call_Bridge_Code> <Exec_Assistant_Key_List ua="na">%Exec_Assistant_Key_List%</ Exec_Assistant_Key_List> </pre> <p>Example:</p> <pre> <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</Ex ec_Call_Bridge_Code> <Exec_Assistant_Key_List ua="na">pro xycall 2;divert 3;</Exec_Assistant_K ey_List> </pre>	

4.4.11.1 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:

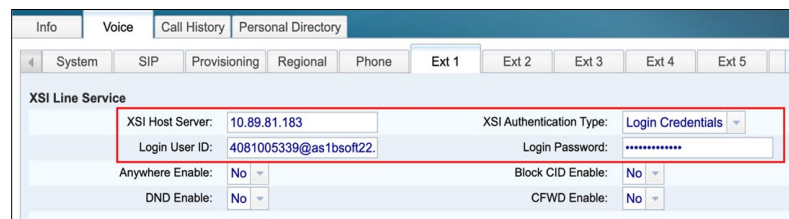
1) Enable Feature Key Sync:



The screenshot shows the 'Call Feature Settings' page in the Cisco Dev System web interface. The 'Feature Key Sync' option is highlighted with a red box and set to 'Yes'. Other settings include 'Blind Attn-Xfer Enable' (No), 'Auth Page' (No), 'Auth Page Realm' (empty), 'Conference Single Hardkey' (No), 'Mailbox ID' (empty), 'Voice Mail Subscribe Interval' (86400), 'Enable Broadsoft Hoteling' (No), 'Secure Call Option' (Optional), 'Message Waiting' (No), 'Default Ring' (Sunrise), 'Conference Bridge URL' (empty), 'Auth Page Password' (empty), 'Voice Mail Server' (empty), 'Auto Ans Page On Active Call' (Yes), 'Call Park Monitor Enable' (No), 'Hoteling Subscription Expires' (3600), and 'Feature Activation Code Sync' (No).

Figure 43 Feature Key Sync Enabling

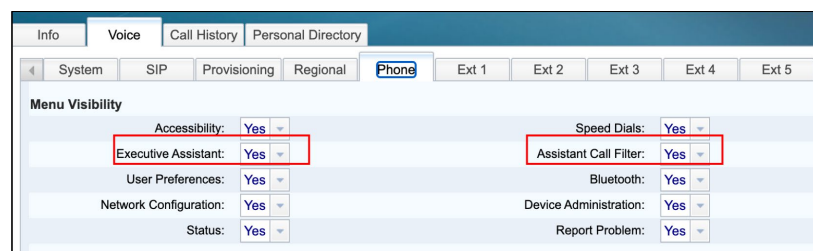
2) Synchronize XSI host server.



The screenshot shows the 'XSI Line Service' page in the Cisco Dev System web interface. The 'XSI Host Server' (10.89.81.183) and 'Login User ID' (4081005339@as1bsoft22) fields are highlighted with a red box. Other settings include 'XSI Authentication Type' (Login Credentials), 'Login Password' (empty), 'Anywhere Enable' (No), 'DND Enable' (No), 'Block CID Enable' (No), and 'CFWD Enable' (No).

Figure 44 XSI Host Server Synchronization

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



The screenshot shows the 'Menu Visibility' page in the Cisco Dev System web interface. The 'Executive Assistant' and 'Assistant Call Filter' options are highlighted with red boxes and set to 'Yes'. Other settings include 'Accessibility' (Yes), 'Speed Dials' (Yes), 'User Preferences' (Yes), 'Network Configuration' (Yes), 'Status' (Yes), 'Bluetooth' (Yes), 'Device Administration' (Yes), and 'Report Problem' (Yes).

Figure 45 Assistant Call Filter

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice</i> → <i>Ext(n)</i> → <i>Call Feature Settings</i></p> <p>Feature Key Sync: Yes</p> <p>XML :</p> <p>Example:</p> <pre><Feature_Key_Sync_1_ ua="na">Yes</Feature_Key_Sync_1_></pre>	<p>Enables feature key sync.</p> <p>Options: Yes and No</p> <p>Default value: No</p>

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 2	<p>Set XSI Host Server, XSI Authentication Type, Login User ID, Login Password parameters to configure the XSI host server for the line.</p> <p>For more information, see Figure 50 XSI Host Server Synchronization.</p>	
Step 3	<p>Web Portal Voice → Phone → Menu Visibility</p> <p>Executive Assistant: No Assistant Call Filter: No</p> <p>XML</p> <pre><Assistant_Call_Filter ua="na">Yes</Assistant_Call_Filter></pre>	<p>Controls Assistant – Call filter menu in Assistant menu on the phone.</p> <p>Executive Assistant</p> <p>Options:</p> <p>Yes: Show the Executive-Assistant menu in Setting menu list.</p> <p>No: Hide the Executive-Assistant menu in Setting menu list.</p> <p>Assistant Call Filter</p> <p>Options:</p> <p>Yes: Show the Assistant - Call Filter menu in Assistant menu.</p> <p>No: Hide the Assistant - Call Filter menu in Assistant menu.</p> <p>Default value: Yes</p>

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](#).

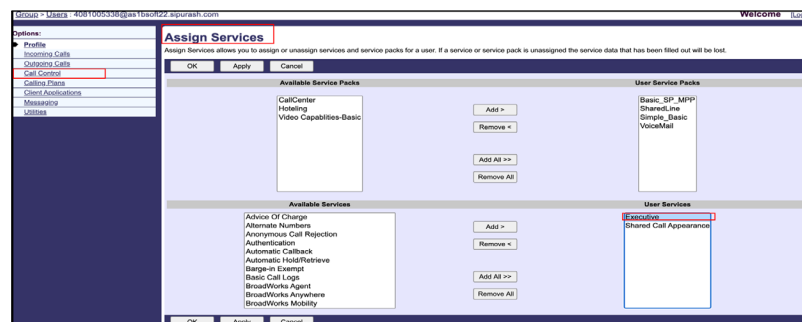


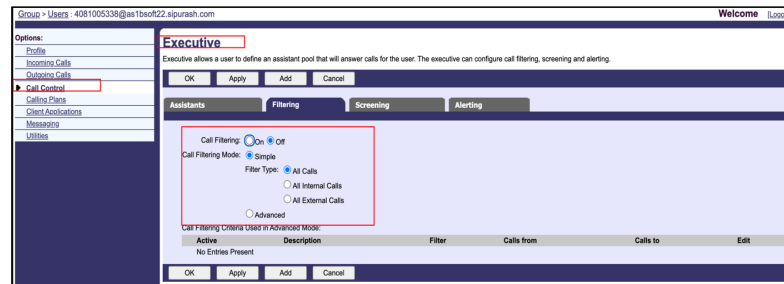
Figure 46 Assign Executive Service

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



Figure 47 Assistants to an Executive

3) Configure call filtering.



Executive

Executive allows a user to define an assistant pool that will answer calls for the user. The executive can configure call filtering, screening and alerting.

OK Apply Add Cancel

Call Filtering ☐ On ☐ Off

Call Filtering Mode: ☒ Simple ☐ Advanced

Filter Type: ☒ All Calls ☐ All Internal Calls ☐ All External Calls

Call Filtering Criteria Used in Advanced Mode:

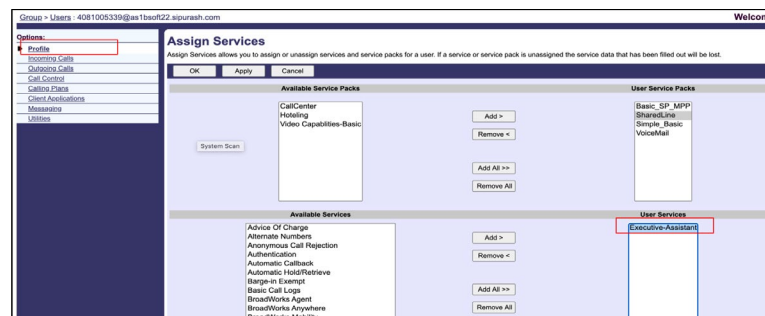
Active	Description	Filter	Calls from	Calls to	Edit
No Entries Present					

OK Apply Add Cancel

Figure 48 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.



Assign Services

Assign Services allows you to assign or unassign services and service packs for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.

OK Apply Cancel

Available Service Packs

- CallCenter
- Holding
- Video Capabilities-Basic

User Service Packs

- Basic_SP_MPP
- SharedLine
- Simple_Basic
- VoiceMail

Available Services

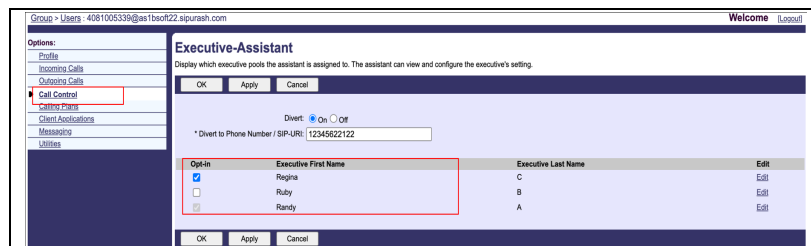
- Advice Of Charge
- Alternate Numbers
- Anonymous Call Rejection
- Authentication
- Automatic Callback
- Automatic Hold/Retrieve
- Charge-in Exempt
- Basic Call Logs
- BroadWorks Agent
- BroadWorks Anywhere
- BroadWorks Mobility

User Services

- Executive-Assistant

Figure 49 Executive-assistant Service

5) Configure executive – assistant feature.



Executive-Assistant

Display which executive pools the assistant is assigned to. The assistant can view and configure the executive's setting.

OK Apply Cancel

Divert: ☒ On ☐ Off

* Divert to Phone Number / SIP-URI: 123456789

Opt-in	Executive First Name	Executive Last Name	Edit
<input checked="" type="checkbox"/>	Regina	C	Edit
<input type="checkbox"/>	Ruby	B	Edit
<input checked="" type="checkbox"/>	Randy	A	Edit

OK Apply Cancel

Figure 50 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**.

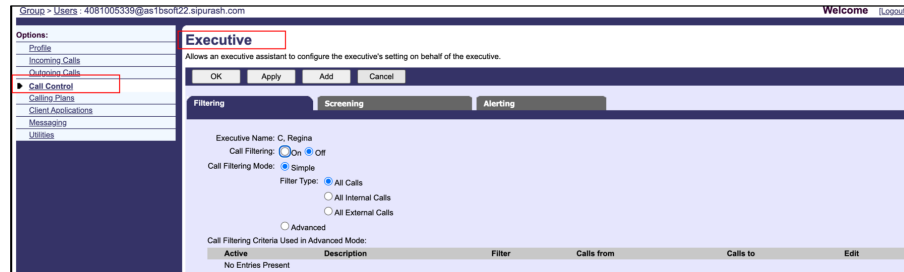


Figure 51 Executive Settings Modification

4.4.12 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.

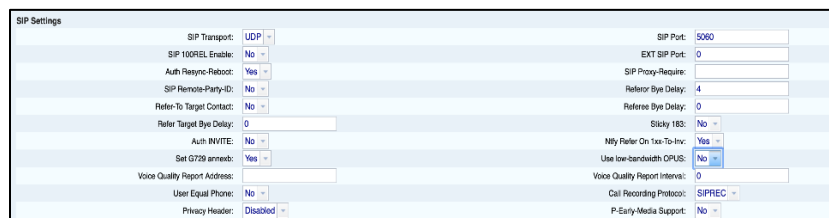


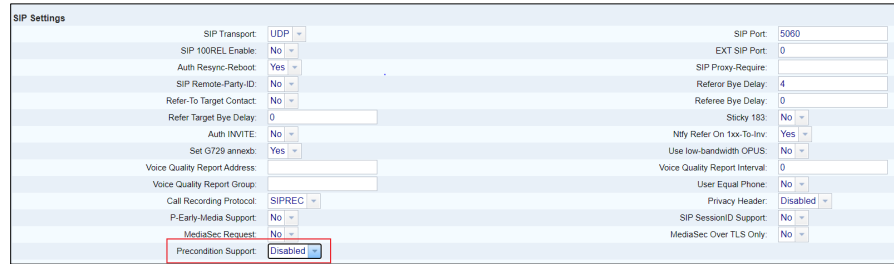
Figure 52 OPUS Codec Narrowband

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice</i> → <i>Ext(n)</i> → <i>SIP Settings</i></p> <p>Use low-bandwidth OPUS: No</p> <p>XML</p> <pre><Use_low-bandwidth_OPUS_#_ua="na">%USE_LOW_BANDWIDTH_OPUS_#%</Use_low-bandwidth_OPUS_#_></pre> <p>Note: %USE_LOW_BANDWIDTH_OPUS_#% has two options: Yes and No.</p> <p>Example:</p> <pre><Use_low-bandwidth_OPUS_#_ua="na">No</Use_low-bandwidth_OPUS_#_></pre>	<p>Used to select low-bandwidth OPUS for phone calls. It saves on network bandwidth.</p> <p>Options: Yes and No</p> <p>Default value: No</p>

4.4.13 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.



The image shows the 'SIP Settings' configuration page. The 'Precondition Support' option is highlighted with a red box and is set to 'Disabled'.

Figure 53 Preconditions Feature Configuration

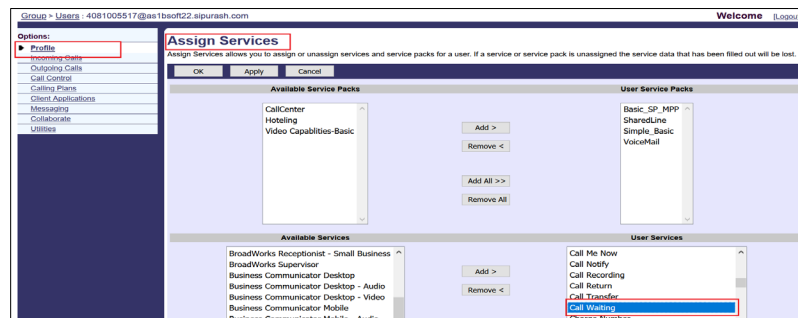
Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → Ext(n) → SIP Settings</p> <p>Precondition Support: Disabled</p> <p>XML</p> <pre><Precondition_Support_x_ua="na">%PRECONDITION_SUPPORT_x%/Precondition_Support_x_></pre> <p>Where, x=extension line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

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

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

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.



The image shows the 'Assign Services' configuration page. The 'Call Waiting' service is highlighted with a red box in the 'User Services' list.

Figure 54 Call Waiting

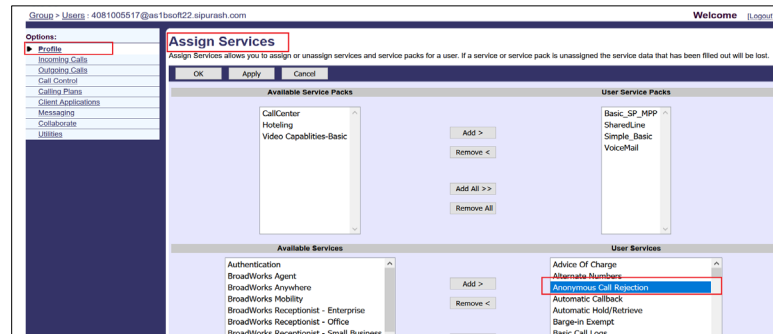


Figure 55 Anonymous Call Rejection

- 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 56 Anonymous Call Rejection and Call Waiting Enabling

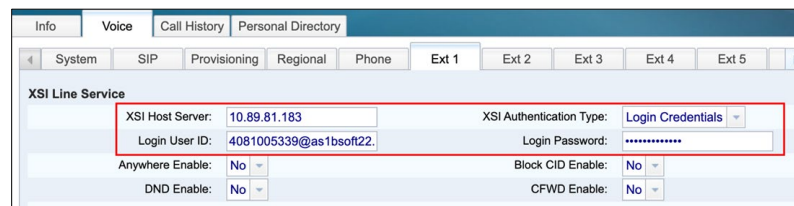


Figure 57 XSI Host Server Synchronization

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice</i> → <i>Ext(n)</i> → <i>XSI Line Service</i></p> <p>Block Anonymous Call Enable: No Call Waiting Enable: No</p> <p>XML</p> <pre><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_></pre> <p>Where, n=extension line number from 1-16</p> <p>Note: %Block_Anonymous_Call_Enable_n%: Yes and No. %Call_Waiting_Enable_n%: Yes and No</p> <p>Example:</p> <pre><Block_Anonymous_Call_Enable_x_ua="na">No</Block_Anonymous_Call_Enable_x_> <Call_Waiting_Enable_n_ua="na">No</Call_Waiting_Enable_n_></pre>	<p>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</p> <p>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</p>
Step 2	<p>Set <i>XSI Host Server</i>, <i>XSI Authentication Type</i>, <i>Login User ID</i>, <i>Login Password</i> parameters to configure the XSI host server for the line.</p> <p>For more information, see Figure 50.</p>	

4.4.15 Action Button Configuration

NOTE: The Cisco Desk Phone 9800 Series supports this feature.

Action button allows phone users to quickly access the designated service, such as emergency service. You can associate the button with a service for users. The Action button can be found as the red button located at the top-right of the phone.

To configure the Action button from the web user interface, see the following figure.

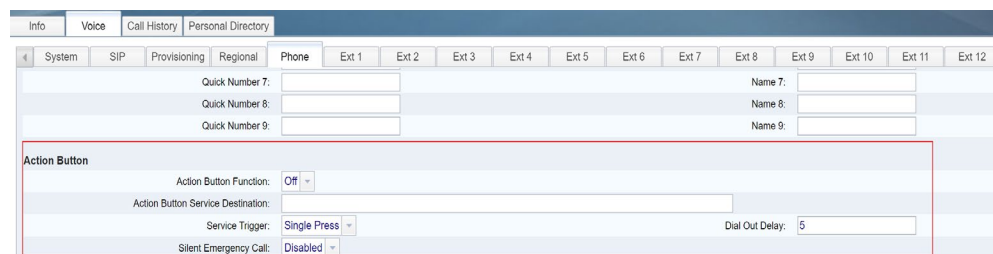


Figure 58: Action Button Configuration

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → Phone → Action Button</p> <p>Action Button Function: Off</p> <p>XML:</p> <pre><Action_Button_Function ua="na">%ACTION_BUTTON_FUNCTION%/Action_Button_Function> %ACTION_BUTTON_FUNCTION% has options: Off and Emergency Call</pre> <p>Example:</p> <pre><Action_Button_Function ua="na">Off</Action_Button_Function></pre>	<p>Allows users to quickly access the designated service.</p> <p>Options:</p> <p>Emergency Call:</p> <ul style="list-style-type: none"> When you set the field to Emergency Call, make sure that you enter the phone number or URI of the emergency service. <p>Off:</p> <ul style="list-style-type: none"> When set to Off, the Action button doesn't function. <p>Default: Off</p>
	<p>Action Button Service Destination: Empty</p> <p>XML:</p> <pre><Action_Button_Service_Destination ua="na">%ACTION_BUTTON_SERVICE_DEST%/Action_Button_Service_Destination></pre> <p>Example:</p> <pre><Action_Button_Service_Destination ua="na">Empty</Action_Button_Service_Destination></pre>	<p>Provide the phone number or the URI for the service.</p> <p>If you enable the Action button without setting the service destination, the user on the phone will see a message prompting for configuration. After the user closes this notification, the warning icon will persist in the header of the phone screen until the button is properly configured or disabled.</p>
	<p>Service Trigger: Single Press</p> <p>XML:</p> <pre><Service_Trigger ua="na">%ACTION_BUTTON_SERVICE_TRIGGER%/Service_Trigger> %ACTION_BUTTON_SERVICE_TRIGGER% has options: Single Press Long Press Press 3 times</pre> <p>Example:</p> <pre><Service_Trigger ua="na">Single Press</Service_Trigger></pre>	<p>Choose how users can initiate a service call using the phone's Action button.</p> <p>Options:</p> <p>Single Press: Press the Action button once.</p> <p>Long Press: Press the Action button down for at least 2 seconds to make a call.</p> <p>Press 3 times: Press the Action button three times with intervals of less than 2 seconds between each press.</p> <p>Default: Single Press</p>
	<p>Dial Out Delay : 5</p> <p>XML:</p> <pre><Dial_Out_Delay ua="na">%ACTION_BUTTON_DIAL_DELAY%/Dial_Out_Delay></pre> <p>%ACTION_BUTTON_DIAL_DELAY% ranges from 0 to 30</p> <p>Example:</p> <pre><Dial_Out_Delay ua="na">5</Dial_Out_Delay></pre>	<p>Sets the timeout period, in seconds, for the phone to initiate the service call after the Action button is pressed.</p> <p>Set it to 0 if you prefer the phone to place the call immediately upon detecting the trigger, as specified by a single press, long press, or triple press on the button.</p> <p>Default: 5 seconds</p>

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	Silent Emergency Call : Disabled XML : <pre><Silent_Emergency_Call ua="na">%ACTION_BUTTON_SILENT_EMERGENCY_CALL%</Silent_Emergency_Call> %ACTION_BUTTON_SILENT_EMERGENCY_CALL% options are: Enabled Disabled</pre>	This setting works only when the Action Button Function is set to Emergency Call. Silent emergency call is designed for discreet assistance in dangerous situations. It enables users to seek help without making any noise. Default: Disabled. Options: Enabled: Users can place one-way calls with the Action button. Disabled: The emergency call functions as a two-way call, similar to other outgoing calls.

4.4.16 Power Saving Configuration (Office Hours)

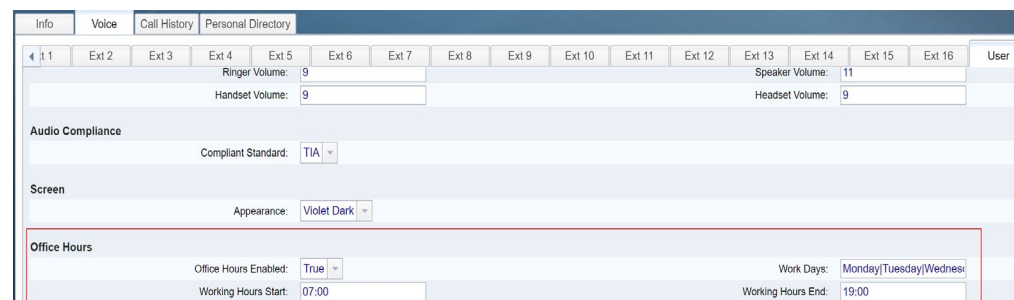
NOTE: The Cisco Desk Phone 9800 Series supports this feature.

To reduce power consumption during periods of inactivity, two power-saving options available on the phone.

- Deep Sleep Mode
- Display-Off Mode

By default, the Office Hours feature is enabled on your phone. The default office hours are set to 7:00 to 19:00 from Monday to Friday. The phone turns off the screen outside of the designated hours. You can customize working hours, workdays, and the power-saving mode outside of office hours.

To customize working hours and workdays to reflect the business hours of your users, configure the Office hours from the web user interface, see the following figure.



The screenshot shows the Cisco web user interface with the 'Office Hours' section highlighted. The 'Office Hours Enabled' checkbox is checked. The 'Working Hours Start' is set to 07:00 and the 'Working Hours End' is set to 19:00. The 'Work Days' are set to Monday, Tuesday, Wednesday, Thursday, and Friday. Other visible settings include Ringer Volume (9), Handset Volume (9), Speaker Volume (11), Headset Volume (9), Audio Compliance (TIA), and Screen Appearance (Violet Dark).

Figure 59: Office Hours Enable

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → User → Office Hours</p> <p>Office Hours Enabled: True</p> <p>XML:</p> <pre><Office_Hours_Enabled ua="na">%OFFICE_HOURS_ENABLED%/Office_Hours_Enabled> %OFFICE_HOURS_ENABLED% has options: False True</pre> <p>Example:</p> <pre><Office_Hours_Enabled ua="na">True</Office_Hours_Enabled></pre>	<p>Enables the Office Hours feature for Cisco Desk Phone 9800 Series.</p> <p>Options:</p> <p>True: Enables Office hours.</p> <p>False: Disables the feature.</p> <p>Default: True</p> <p>Office Hours, when enabled, minimizes power usage during inactivity periods on the phone. You can configure the phone to automatically turn off the screen (Display-Off Mode) or power off (Deep Sleep Mode) outside of the designated working periods.</p>
	<p>Work Days: Monday through Friday</p> <p>XML</p> <pre><Work_Days ua="na">%WORK_DAYS%/Work_Days></pre> <p>%WORK_DAYS% ranges from Monday through Friday</p> <p>Example:</p> <pre><Work_Days ua="na">Monday</Work_Days></pre>	<p>Customize the workdays by specifying the desired days.</p> <p>During non-workdays, the phone will automatically turn off the screen. By default, workdays are set from Monday to Friday.</p> <p>This also applies to Deep Sleep Mode, if enabled. If you choose to enable Deep Sleep Mode exclusively for non-workdays, the phone will power off during those days. If you enable Deep Sleep Mode for all days, the phone will power off during both non-workdays and non-working hours on workdays.</p> <p>Sets working hours for workdays using the Working Hours Start and Working Hours End fields.</p> <p>Default: Monday through Friday</p>
	<p>Working Hours Start: 07:00</p> <p>XML:</p> <pre><Working_Hours_Start ua="na">%WORKING_HOURS_START%/Working_Hours_Start></pre> <p>%WORKING_HOURS_START% can be any hours of the day in 24-hour format</p> <p>Example:</p> <pre><Working_Hours_Start ua="na">07:00</Working_Hours_Start></pre>	<p>Set the start time for working hours using the 24-hour format.</p> <p>Outside of the specified working hours, the phone will automatically turn off the screen, or enter Deep Sleep Mode only when Deep Sleep Enabled is set to All Days.</p> <p>Examples: 09:00 for 09:00 am; 17:30 for 05:30 pm</p> <p>Default: 07:00</p>
	<p>Working Hours End : 19:00</p> <p>XML:</p> <pre><Working_Hours_End ua="na">%WORKING_HOURS_End%/Working_Hours_End></pre> <p>%WORKING_HOURS_End% can be any hours of the day in 24-hour format</p>	<p>Set the start time for working hours using the 24-hour format.</p> <p>Outside of the specified working hours, the phone will automatically turn off the screen, or enter Deep Sleep Mode only when Deep Sleep Enabled is set to All Days.</p>

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	Example: <pre><Working_Hours_End ua="na">19:00</Working_Hours_End></pre>	Examples: 09:00 for 09:00 am; 17:30 for 05:30 pm Default: 19:00 Ensure that the interval between the start and end time longer than 60 minutes.

4.4.16.1 Outside Office Hours (Deep Sleep) Configuration

You can customize the settings for non-working hours. You can customize the Deep Sleep Mode settings as needed.

To configure Outside Office Hours from the web user interface, see the following figure.

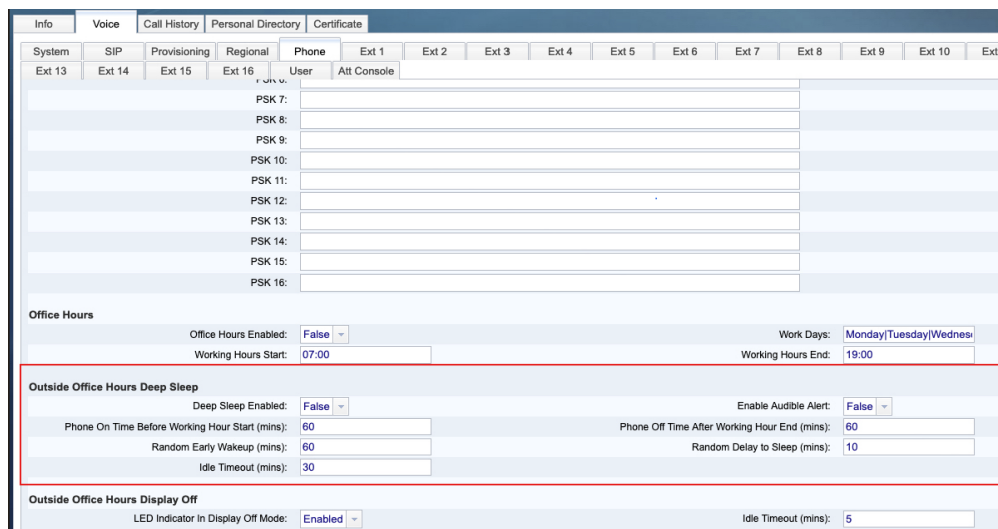


Figure 60 Outside Office Hours Deep Sleep

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	Web Portal Voice → User → Outside Office Hours Deep Sleep Deep Sleep Enabled: False XML: <pre><Deep_Sleep_Enabled ua="rw">%Deep_Sleep_ENABLED%</Deep_Sleep_Enabled></pre> %Deep_Sleep_ENABLED% has options: False Non-work Day Only All Days Example: <pre><Deep_Sleep_Enabled ua="rw">False</Deep_Sleep_Enabled></pre>	Enable or disable Deep Sleep Mode on the phone. When enabled, this feature automatically powers off the phone outside of the designated office hours. This option works only when you enable the Office Hours. Options: False: The phone will not enter into Deep Sleep Mode. Non-work Day Only: The phone powers off on non-workdays. For the specified workdays, the phone will turn off the screen outside of the specified working hours. All Days: The phone powers off during both non-workdays and non-working hours on workdays. Default: False

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
		Set working hours for workdays using the Working Hours Start and Working Hours End fields.
	Phone Off Time After Working Hour End : 60 XML <pre><Phone_Off_Time_After_Working_Hour_End_mins_ua="rw">%Phone_Off_Time_After_Working_Hour_End_mins%/Phone_Off_Time_After_Working_Hour_End_mins_></pre> <p>%Phone_Off_Time_After_Working_Hour_End_mins% ranges from 0 to 360 minutes</p> Example : <pre><Phone_Off_Time_After_Working_Hour_End_mins_ua="rw">60</Phone_Off_Time_After_Working_Hour_End_mins_></pre>	Set the timeout period, in minutes, for the phone to automatically power off after the time specified in the Working Hours End field. If you want the phone to enter Deep Sleep Mode immediately after working hours, set it to 0. Default: 60 minutes
	Phone Off Time After Working Hour Start : 60 XML <pre><Phone_Off_Time_After_Working_Hour_Start_mins_ua="rw">%Phone_Off_Time_After_Working_Hour_Start_mins%/Phone_Off_Time_After_Working_Hour_Start_mins_></pre> <p>%Phone_Off_Time_After_Working_Hour_Start_mins% ranges from 0 to 360 minutes</p> Example : <pre><Phone_Off_Time_After_Working_Hour_Start_mins_ua="rw">60</Phone_Off_Time_After_Working_Hour_Start_mins_></pre>	Set the timeout period for the phone to wake up from Deep Sleep Mode before the time specified in the Working Hours Start field. If you want the phone to wake up until working hours start, set it to 0. Default: 60 minutes
	Enable Audible Alert : False XML : <pre><Enable_Audiable_Alert ua="rw">%Enable_Audiable_Alert%/></pre> <p>%Enable_Audiable_Alert% has options False True</p> Example : <pre><Enable_Audiable_Alert ua="rw">False</Enable_Audiable_Alert></pre>	Enable or disable the phone to play audio tone to alert the user before it enters Deep Sleep Mode. Options: True: Enables the audio tone alert. False: Disables the audio tone alert. Default: False

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<p>Idle Timeout (mins): 30 (for Deep Sleep Mode)</p> <p>XML:</p> <pre><Idle_Timeout__mins_ ua="rw">%Idle_Timeout__mins%</Idle_Ti meout__mins_></pre> <p>%Idle_Timeout__mins% ranges from 1 to 60 minutes</p> <p>Example:</p> <pre><Idle_Timeout__mins_ ua="rw">60</Idle_Timeout__mins_></pre>	<p>This setting applies to the following two scenarios:</p> <p>Before the phone enters a scheduled Deep Sleep Mode</p> <p>Ten minutes before the scheduled deep sleep, a message pops up to notify the user that the phone will power off in ten minutes, and a countdown starts. When it times out, the phone powers off.</p> <p>During the countdown period, if there is any activity such as an incoming call, firmware upgrade, or provisioning resync, the countdown will restart. For example, if you have set this field to 20, the countdown will restart in 20 minutes after the activities are completed.</p> <p>After being manually awakened from Deep Sleep Mode</p> <p>For example, if you have set this field to 20, after being idle for 20 minutes, a message pops up to notify the user that the phone will power off in ten minutes, and a countdown starts. When it times out, the phone powers off.</p> <p>During the countdown period, if there is any activity such as an incoming call, firmware upgrade, or provisioning resync, the countdown will restart in 20 minutes after the activities are completed.</p> <p>If a user interacts with the phone during the countdown period, such as answering or declining calls or pressing keys, the phone will not enter Deep Sleep Mode for the rest of the day.</p>

4.4.16.2 Outside Office Hours Display Off Configuration

You can set up the idle timeout for Display-Off Mode.

To configure Outside Office Hours for display-off mode from the web user interface, see the following figure.

Info	Voice	Call History	Personal Directory
Ext 1	Ext 2	Ext 3	Ext 4
Ext 5	Ext 6	Ext 7	Ext 8
Ext 9	Ext 10	Ext 11	Ext 12
Ext 13	Ext 14	Ext 15	Ext 16
<div> <div> Ringer Volume: 9 </div> <div> Speaker Volume: 11 </div> </div> <div> <div> Handset Volume: 9 </div> <div> Headset Volume: 9 </div> </div>			
Audio Compliance Compliant Standard: TIA			
Screen Appearance: Violet Dark			
Office Hours Office Hours Enabled: True Working Hours Start: 07:00 Work Days: MondayTuesdayWednes Working Hours End: 19:00			
Outside Office Hours Deep Sleep Deep Sleep Enabled: False Phone On Time Before Working Hour Start (mins): 60 Idle Timeout (mins): 5 Enable Audible Alert: False Phone Off Time After Working Hour End (mins): 60			
Outside Office Hours Display Off Idle Timeout (mins): 5			

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	Web Portal Voice → User →Outside Office Hours Display Off Idle Timeout (mins): 5 (for Display-Off Mode) XML : <pre><Idle_Timeout_mins_ua="rw">%Idle_Timeout_mins%</Idle_Timeout_mins_></pre> %Idle_Timeout_mins% ranges from 1 to 60 minutes Example: <pre><Idle_Timeout_mins_ua="rw">5</Idle_Timeout_mins_></pre>	Set the timeout period in minutes for the phone to automatically turn off the screen after being awakened during Display-Off Mode . Default: 5 minutes

4.4.16.3 LED Indicator In Display Off Mode

This section provides configuration instructions to turn off or turn on the Front Arc LED when the phone enters Display Off Mode.

To configure the LED Indicator In Display Off Mode from the web user interface, see the following figure.

Info	Voice	Call History	Personal Directory	Certificate
System	SIP	Provisioning	Regional	Phone
Ext 13	Ext 14	Ext 15	Ext 16	User
<div> <div> PSK 7: </div> <div> PSK 8: </div> <div> PSK 9: </div> <div> PSK 10: </div> <div> PSK 11: </div> <div> PSK 12: </div> <div> PSK 13: </div> <div> PSK 14: </div> <div> PSK 15: </div> <div> PSK 16: </div> </div>				
Office Hours Office Hours Enabled: False Working Hours Start: 07:00 Work Days: MondayTuesdayWednes Working Hours End: 19:00				
Outside Office Hours Deep Sleep Deep Sleep Enabled: False Phone On Time Before Working Hour Start (mins): 60 Random Early Wakeup (mins): 60 Idle Timeout (mins): 30 Enable Audible Alert: False Phone Off Time After Working Hour End (mins): 60 Random Delay to Sleep (mins): 10				
Outside Office Hours Display Off LED Indicator In Display Off Mode: Enabled Idle Timeout (mins): 5				

Figure 61 LED Indicator In Display Off Mode

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → User → Outside Office Hours Display Off</p> <p>LED Indicator In Display Off Mode</p> <p>XML:</p> <pre><LED_Indicator_In_Display_Off_Mode ua="na">%LED_INDICATOR_IN_DISPLAY_OFF _OUTSIDE_OFFICE_HOURS%/LED_Indicator _In_Display_Off_Mode></pre> <p>%LED_INDICATOR_IN_DISPLAY_OFF_OUTSIDE _OFFICE_HOURS% : Enabled Disabled</p> <p>Example:</p> <pre><LED_Indicator_In_Display_Off_Mode ua="na">Enabled</LED_Indicator_In_ Display_Off_Mode></pre>	<p>Determines whether to turn off the Front Arc LED when the phone enters Display Off Mode. When set to enabled, the Front Arc LED is off during non-working hours. When set to disabled, the Front Arc LED remains illuminated after the phone enters Display Off Mode.</p> <p>Default: Enabled</p>

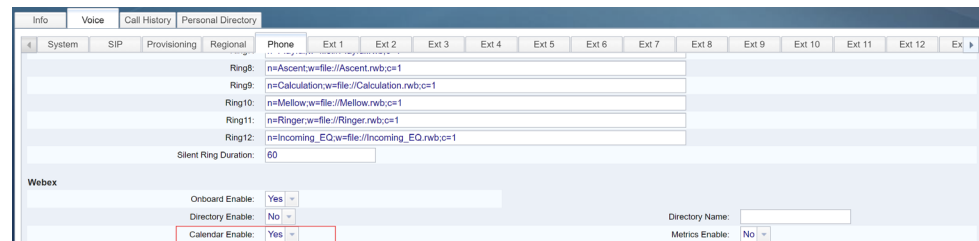
4.4.17 Webex Calendar Service

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 does not support this feature.

This feature enables users to join Webex calendar meetings.

To configure the Webex calendar service from the web user interface, see the following figure.



The screenshot shows the Cisco Webex configuration interface. The 'Webex' section is expanded, showing the following settings:

- Onboard Enable: Yes
- Directory Enable: No
- Calendar Enable: Yes (highlighted with a red box)
- Directory Name: (empty field)
- Metrics Enable: No

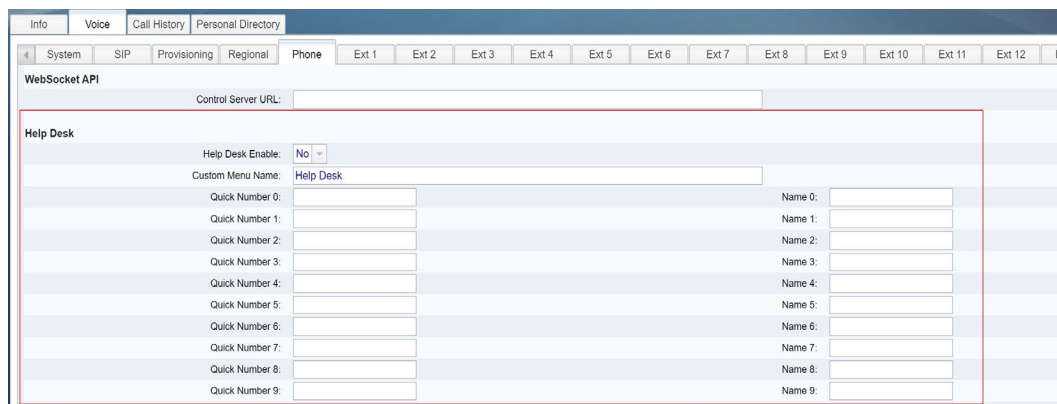
Figure 62: Webex Calendar

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → Phone → Webex Calendar Enable: Yes</p> <p>XML:</p> <pre><Webex_Calendar_Enable ua="na">%Webex_Calendar_Enable%/Webe x_Calendar_Enable> %Webex_Calendar_Enable% has options: Yes and No</pre> <p>Example:</p> <pre><Webex_Calendar_Enable ua="na">Yes</Webex_Calendar_Enable></pre>	<p>Allows users to quickly access Webex calendar meetings.</p> <p>Options: Yes No</p> <p>Yes: Enables the feature.</p> <p>No: Disables the feature.</p> <p>Default: Yes</p>

4.4.18 Help Desk Configuration

This feature enables users to quickly dial out the quick numbers by using the Favorite button.

To configure Help Desk from the web user interface, see the following figure.



Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>Web Portal Voice → Phone → Help Desk</p> <p>Help Desk Enable: No</p> <p>XML:</p> <pre><Help_Desk_Enable ua="na"> %Help_Desk_Enable%/Help_Desk_Enable> %Help_Desk_Enable% has options Yes No</pre> <p>Example:</p> <pre><Help_Desk_Enable ua="na">No</Help_Desk_Enable></pre>	<p>Enables the Help Desk feature.</p> <p>Options: Yes and No</p> <p>Default: No</p>

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<p>Custom Menu Name: Empty</p> <p>XML:</p> <pre><Custom_Menu_Name ua="na"> %Custom_Menu_Name% </Custom_Menu_Name></pre> <p>%Custom_Menu_Name% represents a string</p> <p>Example:</p> <pre><Custom_Menu_Name ua="na">Help Desk</Custom_Menu_Name></pre>	<p>Customizes the help desk display name.</p> <p>Default: Empty.</p> <p>If the parameter is empty, the display name is "Help Desk".</p>
	<p>Quick Number (n)</p> <p>XML:</p> <pre><Quick_Number_1_Number ua="na">Name 1</Quick_Number_1_Number></pre> <pre><Quick_Number_2_Name ua="na"></Quick_Number_2_Name></pre>	<p><n> represents the sequence number of the number.</p> <p><n> ranges from 0 to 10.</p> <p>If the name is empty and only the quick number is configured, the phone will repeatedly display the quick number as the name.</p>

4.4.19 Header and Line Session Display

NOTE: The Cisco Desk Phone 9800 Series supports this feature.

You can customize the phone to display the header and the line label.

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

Info	Voice	Call History	Personal Directory
System	SIP	Provisioning	Regional
Phone	Ext 1	Ext 2	Ext 3
Ext 4	Ext 5	Ext 6	Ext 7
Ext 8	Ext 9	Ext 10	Ext 11
Ext 12			

General	
Station Name:	DBUS automation: No
Station Display Name: pingmodelc1 Wang	Voice Mail Number:
Line Key 1	
Extension: 1	Short Name: pingmodelc1 Wang
Share Call Appearance: shared	Line Label: +441293906727
Extended Function:	
Line Key 2	
Extension: Disabled	Short Name:
Share Call Appearance: private	Line Label:
Extended Function:	
Line Key 3	
Extension: Disabled	Short Name:

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	Web Portal Voice → Phone →Line Key [n] XML : <Line_Label_2_ua="na">%LINE_LABEL-(n)%</Line_Label_2_> %LINE_LABEL-(n)% can be user phone number or location number Example : <Line_Label_2_ua="na">408902345</Line_Label_2_>	Displays header and line session.

4.4.20 Line Key LED Behavior Customization

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 Series does not support this feature.

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.

Line Key LED Pattern	
Custom LED Type: Preset 1	Disabled LED: <input type="text" value="c=o"/>
Idle LED: <input type="text" value="c=o"/>	Remote Undefined LED: <input type="text" value="c=o"/>
Local Seized LED: <input type="text" value="c=g"/>	Remote Seized LED: <input type="text" value="c=r"/>
Local Progressing LED: <input type="text" value="c=g"/>	Remote Progressing LED: <input type="text" value="c=r"/>
Local Ringing LED: <input type="text" value="c=a;p=b"/>	Remote Ringing LED: <input type="text" value="c=a;p=b"/>
Local Active LED: <input type="text" value="c=g"/>	Remote Active LED: <input type="text" value="c=r"/>
Local Held LED: <input type="text" value="c=g;p=b"/>	Remote Held LED: <input type="text" value="c=r;p=b"/>
Register Failed LED: <input type="text" value="c=o"/>	Registering LED: <input type="text" value="c=o"/>

Figure 63 Line Key LED Behavior

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice → Phone → Line Key LED Pattern</i></p> <p>Custom LED Type: Default</p> <p>XML</p> <pre><Custom_LED_Type ua="na">%CUSTOM_LED_TYPE%</Custom_LED_Type></pre> <p>Example:</p> <pre><Custom_LED_Type ua="na">Default</Custom_LED_Type></pre>	<p>Used to customize LED behavior.</p> <p>Options:</p> <p>Default:</p> <ul style="list-style-type: none"> 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. <p>Preset 1:</p> <ul style="list-style-type: none"> Choose this option to retain the pre-configured settings. After the web page refreshes, all fields are populated with preset values. <p>Custom:</p> <ul style="list-style-type: none"> Choose this option if you want to customize the LED behavior. Any field that you leave blank uses the system default. <p>Default value: Default</p>
	<p>XML</p> <pre><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></pre>	<p>Customizes LED behavior.</p> <p>Options:</p> <ul style="list-style-type: none"> blank string_pattern <p>String_pattern format is:</p> <ul style="list-style-type: none"> c=<COLOR> [: p=<PATTERN>] <p>COLOR choices are:</p> <ul style="list-style-type: none"> o is OFF g is GREEN r is RED a is AMBER <p>PATTERN choices are:</p> <p>n is for no blink with solid color.</p> <p>b is for blink with color (equivalent of system default "slow blink").</p> <p>Example:</p> <p>LED shows solid red:</p> <p>c=r;p=n or c=r</p>

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<pre> <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> </pre>	<p>LED shows blinking amber: c=a;p=b</p> <p>LED turns off: c=o</p>

4.4.20.1 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.

Att Console Key LED Pattern

Application LED:	<input type="text" value="c=o"/>	Serv Subscribe Failed LED:	<input type="text" value="c=o"/>
Serv Subscribing LED:	<input type="text" value="c=o"/>	Parking Lot Idle LED:	<input type="text" value="c=o"/>
Parking Lot Busy LED:	<input type="text" value="c=r"/>	BLF Idle LED:	<input type="text" value="c=o"/>
BLF Ringing LED:	<input type="text" value="c=a;p=b"/>	BLF Busy LED:	<input type="text" value="c=r"/>
BLF Held LED:	<input type="text" value="c=r"/>		

Figure 64 Att Console LED Behavior

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice → Att Console → Att Console Key LED Pattern</i></p> <p>Custom LED Type: Default</p> <p>XML</p> <pre> <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> </pre>	<p>Used to view key expansion module LED behavior.</p> <p>Options:</p> <ul style="list-style-type: none"> blank string_pattern <p>String_pattern format is:</p> <ul style="list-style-type: none"> c=<COLOR> [: p=<PATTERN>] <p>COLOR choices are:</p> <ul style="list-style-type: none"> o is OFF g is GREEN r is RED a is AMBER <p>PATTERN choices are:</p> <ul style="list-style-type: none"> n is for no blink with solid color.

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
	<pre> <Parking_Lot_Idle_LED ua="na">%PARKING_LOT_IDLE_LED%/Par king_Lot_Idle_LED> <Parking_Lot_Busy_LED ua="na">%PARKING_LOT_BUSY_LED%/Par king_Lot_Busy_LED> <BLF_Idle_LED ua="na">%BLF_IDLE_LED%/BLF_Idle_LE D> <BLF_Ringing_LED ua="na">%BLF_RINGING_LED%/BLF_Ring ing_LED> <BLF_Busy_LED ua="na">%BLF_BUSY_LED%/BLF_Busy_LE D> <BLF_Held_LED ua="na">%BLF_HELD_LED%/BLF_Held_LE D> </pre>	<ul style="list-style-type: none"> ▪ b is for blink with color (equivalent of system default "slow blink"). <p>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</p>

4.4.20.2 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:

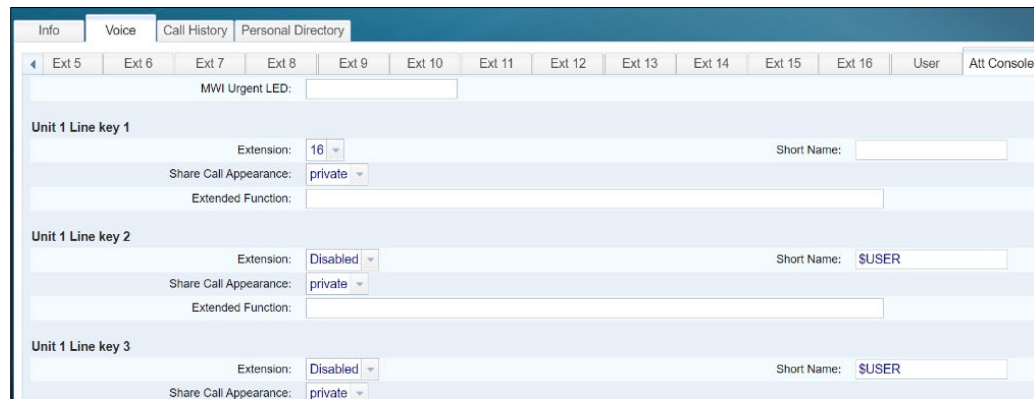


Figure 54 KEM Key

Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice → Att Console → Unit [m] Line key [n]</i></p> <p>XML</p> <pre><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_></pre> <p>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).</p>	<p>Use the KEM Line Key for SIP line. Options:</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Disabled</p> <p>The maximum number of KEM that phone supports is 2 for 8851 and 3 for 8861 and 8865. Default: Disabled.</p>

4.4.21 Key Expansion Module (9800 only)

Cisco Desk Phone 9800 Series when registered to Cisco BroadWorks, supports the following number of attached Key Expansion Modules (KEM).

Phone\KEM number	0 KEM	1 KEM	2 KEMs	3 KEMs
9851	6	46	Not support	Not support
9861	10	50	90	130
9871(4 lines on phone)	16	44	84	124
9871(8 lines on phone)	16	48	88	128

You can follow the information in this section to set up the attached Key Expansion Modules.

4.4.21.1 Enable or Disable a KEM for the Phone

You can specify the number of KEMs that can be used on the 9861 and 9871 phones. You can also disable the attached KEMs.

To enable a KEM from the web interface, see the following figure.



Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice → Att Console → General</i></p> <p>Number of Units: 1 (for 9851) Number of Units: 3 (for 9861/9871)</p> <p>XML</p> <pre><Number_of_Units ua="na">% Number_of_Units%</Number_of_Units> % Number_of_Units% has options for 9851: 0,1 Options for 9861 and 9871: 0,1,2,3 <Number_of_Units ua="na">3</Number_of_Units></pre>	<p>Specify the number of KEMs that can be used on the 9861 and 9871 phones.</p> <p>Options: 9851: 0 1 9861/9871: 0 1 2 3</p> <p>Setting the value to 0 disables all the connected KEMs. Setting the value to 2 for a phone with three KEMs disables the third KEM.</p>

4.4.21.2 Move Additional Lines to KEM (9871 only)

If KEM is connected, the lines after the fourth line or the eighth line will be moved to KEM. The lines are moved after fourth or eighth is depending on number of phone lines.

To enable the feature to move additional lines to KEM from the Web interface, see the following figure.



The screenshot shows the 'General' configuration page for a phone. The 'Number of Units' is set to 3. The 'Number of Phone Lines' is set to 4, which is highlighted with a red box. Other settings include 'Subscribe Expires' (3600), 'Subscribe Retry Interval' (90), 'Subscribe Delay' (1), 'Server Type' (Broadsoft), 'BLF List URI' (blf+sd+cp), 'Use Line Keys For BLF List' (Yes), 'Customizable PLK Options' (sd), 'BLF List' (Show), 'Call Pickup Audio Notification' (No), 'BXfer On Speed Dial Enable' (Yes), 'BLF Label Display Mode' (Name), 'BLF Callpark On Line Key Enable' (No), 'BXfer To Starcode Enable' (No), 'BXfer To Remote Party Number Enable' (No), and 'Wake up phone screen when BLF pickup is ringing' (No).

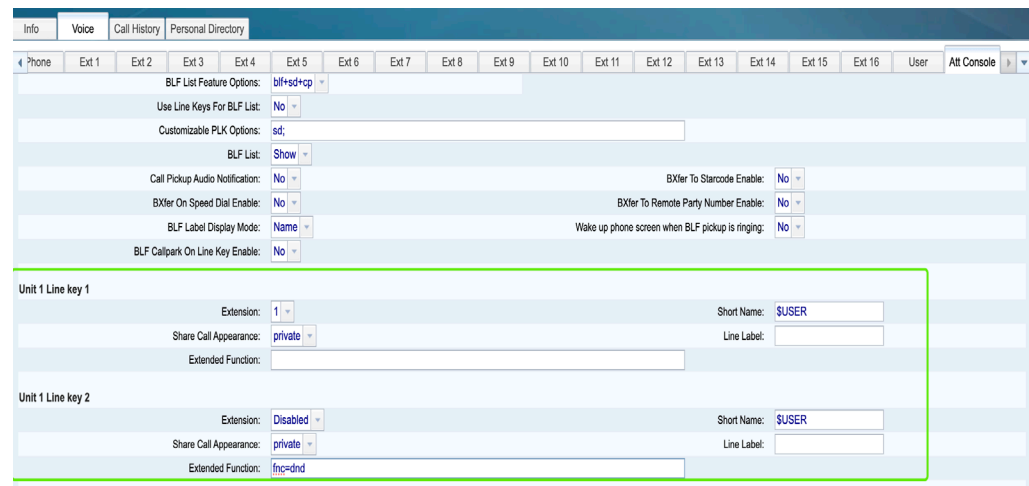
Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p><i>Web Portal Voice → Att Console → General</i></p> <p>Number of Phone Lines: 4</p> <p>XML</p> <pre><Number_of_Phone_Lines ua="na"> %Number_of_Phone_Lines% </Number_of_Phone_Lines> %Number_of_Phone_Lines% has options 4 8 <Number_of_Phone_Lines ua="na">4</Number_of_Phone_Lines></pre>	<p>Moves the additional lines after the fourth line or the eighth line to KEM</p> <p>Options: 4 8</p> <p>Default: 4</p>

4.4.21.3 Assign an Extension Number to a Line Key on KEM

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. It supports up to 16 SIP lines on a phone. You can configure a line key as the primary line or as a shared line that shares a SIP number with other line keys.

To assign an extension number from Web interface, see the following figure.

For 9851/9861



The screenshot shows the Cisco Web interface for configuring line keys on a 9851/9861 device. The interface has tabs for Info, Voice, Call History, and Personal Directory. Under the Voice tab, there are sections for BLF List Feature Options, Use Line Keys For BLF List, Customizable PLK Options, BLF List, Call Pickup Audio Notification, BXfer On Speed Dial Enable, BLF Label Display Mode, and BLF Callpark On Line Key Enable. Below these, there are sections for Unit 1 Line key 1 and Unit 1 Line key 2. Each section has fields for Extension, Short Name, Share Call Appearance, Line Label, and Extended Function. The Unit 1 Line key 1 section is highlighted with a green box.

For 9871

Info	Voice	Call History	Personal Directory
System	SIP	Provisioning	Regional
Phone	Ext 1	Ext 2	Ext 3
Ext 4	Ext 5	Ext 6	Ext 7
Ext 8	Ext 9	Ext 10	Ext

Line Key 5 (kem Unit 1 line key 1)	
Extension: Disabled	Short Name: 1
Share Call Appearance: private	Line Label:
Extended Function: fnc=sd,ext=11@\$PROXY,nme=1;	
Line Key 6 (kem Unit 1 line key 2)	
Extension: Disabled	Short Name: 2
Share Call Appearance: private	Line Label:
Extended Function: fnc=sd,ext=22@\$PROXY,nme=2;	
Line Key 7 (kem Unit 1 line key 3)	
Extension: Disabled	Short Name: 3
Share Call Appearance: private	Line Label:
Extended Function: fnc=sd,ext=33@\$PROXY,nme=3;	
Line Key 8 (kem Unit 1 line key 4)	
Extension: Disabled	Short Name: 4
Share Call Appearance: private	Line Label:
Extended Function: fnc=sd,ext=44@\$PROXY,nme=4;	

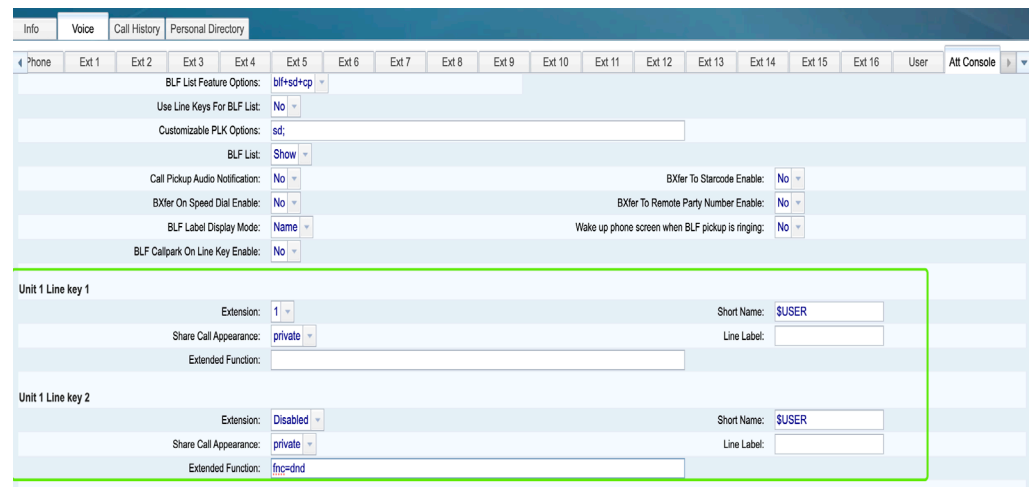
Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>For 9851/9861: <i>Web Portal Voice → Att Console → Kem line key section that you want to configure</i></p> <p>For 9871: <i>Voice → Phone→ Kem line key section that you want to configure</i></p> <p>Extension: Disabled</p> <p>XML</p> <p>For 9851/9861:</p> <pre><Unit_n_Extension_m_ ua="na"> %Unit_n_Extension_m_%</Unit_n_Extension_m_> %Unit_n_Extension_m_% has options Disabled 1-16 where, replace the n and m with the corresponding unit number and line key number.</pre> <p>Example:</p> <pre><Unit_n_Extension_m_ ua="na"> %Unit_n_Extension_m_%</Unit_n_Extension_m_></pre> <p>For 9871:</p> <pre><Extension_n_ ua="na"> %Extension_n_%</Extension_n_> %Extension_n_% has option Disabled 1-16 where, n is the line key number.</pre> <p>Example: <Extension_n_ ua="na"> Disabled</Extension_n_></p>	<p>Assigns an extension number to a line key.</p> <p>Options: Disabled 1-16</p>

4.4.21.4 Shut Down a Line Key on KEM

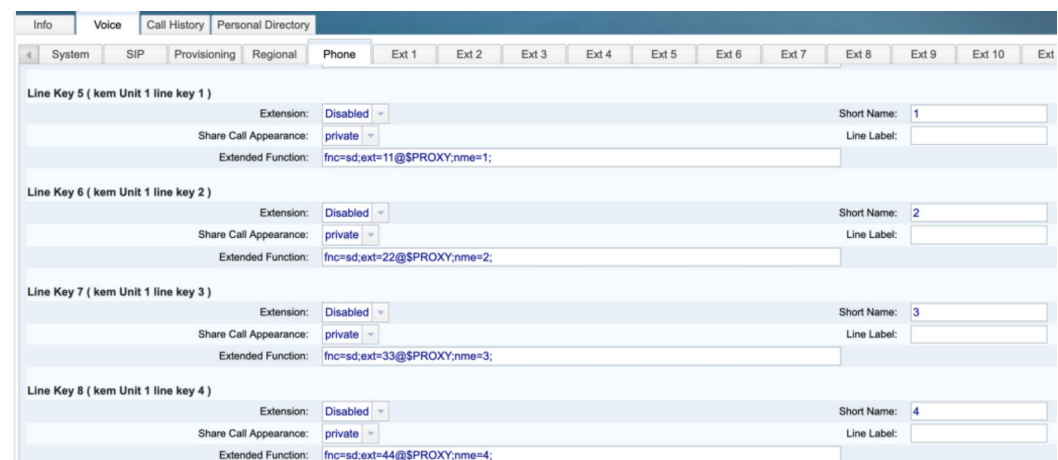
You can shut down a line key on a KEM by setting it to Inert mode. When a KEM line key is in Inert mode, it is completely disabled. For example, the LED on the line key is turned off, no icons or text are displayed next to the line key, and the line button is unresponsive. In short, it is completely unavailable.

To shut down a line key on KEM from Web interface, see the following figure.

For 9851/9861



For 9871



Step	Command	Purpose
System Configuration File CiscoDev_System.xml.template		
Step 1	<p>For 9851/9861: <i>Web Portal Voice → Att Console → Kem line key section that you want to configure</i></p> <p>For 9871: <i>Voice → Phone → Kem line key section that you want to configure</i></p> <p>Extended Function: Empty</p> <p>XML</p> <p>For 9851/9861: <Unit_n_Key_m_ua="na">fnc=inert</Unit_n_Key_m_> where, replace the <i>n</i> and <i>m</i> with the corresponding unit number and line key number.</p> <p>For 9871: <Extended_Function_n_ua="na">fnc=inert</Extended_Function_n_> where, <i>n</i> is the line key number.</p>	Disables the line key of the KEM.

4.4.22 Security Classification Feature Configuration

Cisco MPP Series currently does not support this feature.

4.4.23 Emergency Call Configuration

Cisco MPP Series currently does not support this feature.

4.4.24 Advice of Charge Configuration

Cisco MPP Series currently does not support this feature.

4.4.25 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.



The image shows a web-based configuration interface for a Cisco MPP Series device. The top navigation bar includes tabs for 'Info', 'Voice', 'Call History', and 'Personal Directory'. The 'Voice' tab is selected. Below the navigation bar, there are sub-tabs for 'System', 'SIP', 'Provisioning', 'Regional', and 'Phone'. The 'Phone' sub-tab is selected. The main content area is titled 'XSI Service'. It contains several configuration fields: 'XSI Host Server' (text input), 'XSI Authentication Type' (dropdown menu set to 'SIP Credentials'), 'Login User ID' (text input), 'Login Password' (text input), 'SIP Auth ID' (text input), 'SIP Password' (text input), 'Directory Enable' (checkbox set to 'No'), 'Directory Name' (text input), 'Directory Type' (dropdown menu set to 'Enterprise'), and 'CallLog Enable' (checkbox set to 'No').

Figure 65 Cisco MPP Series XSI Authentication SIP Credentials

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Set XSI Authentication Type: Web Portal Voice → Phone Tab → XSI Service</p> <p>XSI Authentication Type: SIP Credentials</p> <p>XML</p> <pre><XSI_Authentication_Type ua="na">SIP Credentials</XSI_Authentication_Typ e></pre> <p>Example :</p> <pre><XSI_Authentication_Type ua="na">SIP Credentials</XSI_Authentication_Typ e></pre>	<p>Sets the XSI Authentication Type. Default value: Login Credentials.</p>

2) Authenticate with Cisco BroadWorks User Login Credentials.



Figure 66 XSI Authentication Login Credentials

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Set XSI Authentication Type: Web Portal Voice → Phone Tab → XSI Service</p> <p>XSI Authentication Type: Login Credentials</p> <p>XML</p> <pre><XSI_Authentication_Type ua="na">Login Credentials</XSI_Authentication_Type></pre> <p>Example:</p> <pre><XSI_Authentication_Type ua="na">Login Credentials</XSI_Authentication_Type></pre>	<p>Set the XSI Authentication Type. Default value: Login Credentials.</p>

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.

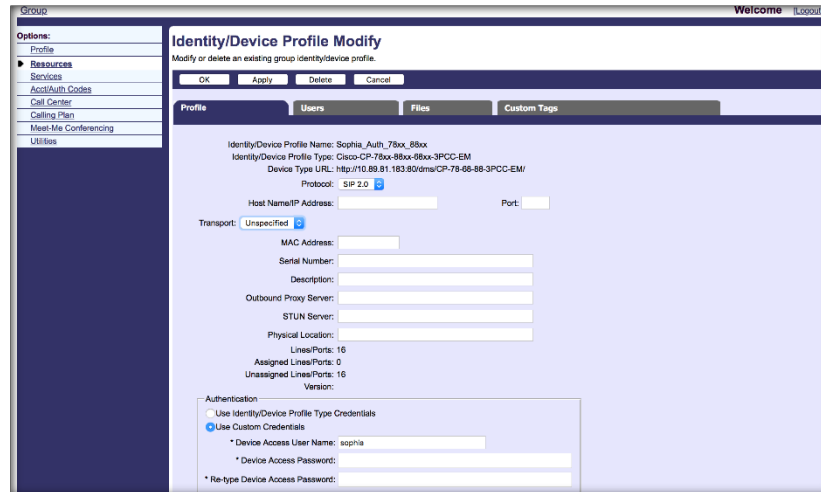


Figure 67 Profile Account Authentication on Cisco BroadWorks Server

- 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.

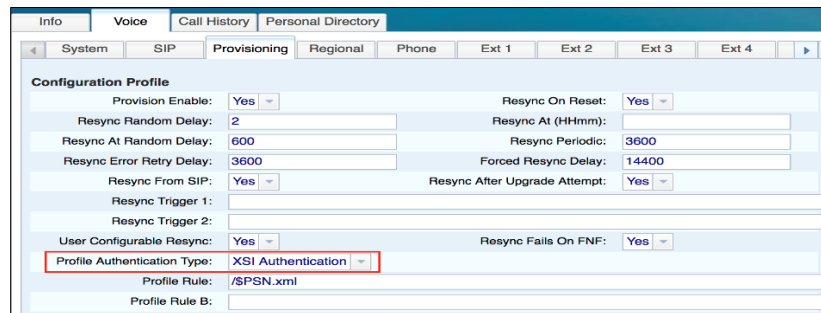


Figure 68 Cisco MPP Series Profile Authentication Type

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Set Profile Authentication Type: Web Portal Voice → Provisioning → Configuration Profile Profile Authentication Type: XSI Authentication</p> <p>XML</p> <pre><Profile_Authentication_Type ua="na">%PROFILE_AUTH_TYPE%</Profile_Authentication_Type></pre> <p>Note: %Profile_AUTH_Type% have three types: Disabled, Basic HTTP Authentication, XSI Authentication</p> <p>Example:</p> <pre><Profile_Authentication_Type ua="na">XSI Authentication</Profile_Authentication_Type></pre>	<p>Set the Profile Authentication Type Default value: Basic HTTP Authentication</p>

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



Figure 69 XSI Host Server and XSI Authentication Type Configuration

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Set XSI Host Server. Web Portal Voice → Phone → XSI Host Server XSI Host Server: xsp.broadworks.net</p>	<p>Sets the XSI Host Server.</p>
Step 2	<p>Set XSI Authentication Type. Web Portal Voice → Phone → XSI Host Server XSI Authentication Types:</p> <ol style="list-style-type: none"> 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. 	<p>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.</p>

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*.

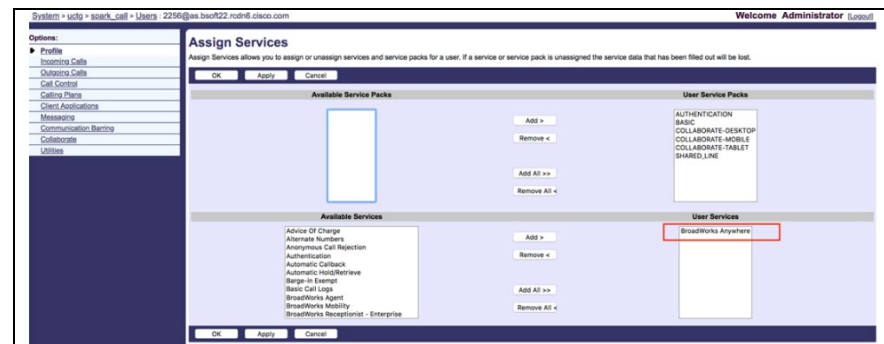


Figure 70 BroadWorks Anywhere Service for User

- 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 71 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.

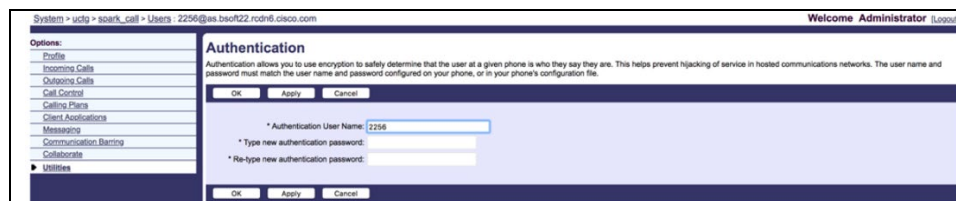
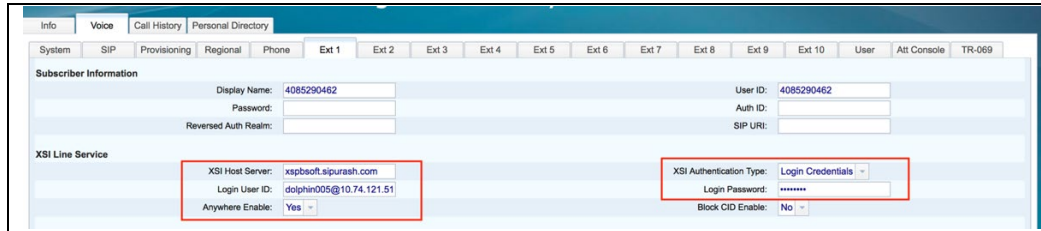


Figure 72 BroadWorks Anywhere Authentication Page

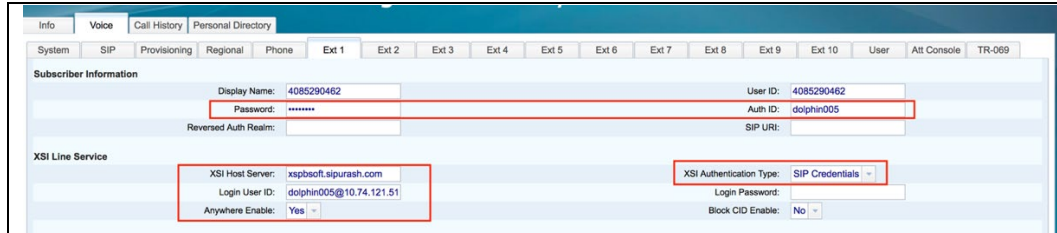
Device Webpage Configuration



The screenshot shows the 'XSI Line Service' configuration page. The 'XSI Authentication Type' is set to 'Login Credentials'. The 'Login User ID' is 'dolphins005@10.74.121.51'. The 'Login Password' is masked with asterisks. The 'Block CID Enable' checkbox is unchecked.

Field	Value
Display Name	4085290462
User ID	4085290462
Password	*****
Auth ID	
SIP URI	
XSI Host Server	xspbssoft.sipurash.com
Login User ID	dolphins005@10.74.121.51
Anywhere Enable	Yes
XSI Authentication Type	Login Credentials
Login Password	*****
Block CID Enable	No

Figure 73 BroadWorks Anywhere XSI Authentication – Login Credentials



The screenshot shows the 'XSI Line Service' configuration page. The 'XSI Authentication Type' is set to 'SIP Credentials'. The 'Login User ID' is 'dolphins005@10.74.121.51'. The 'Login Password' is masked with asterisks. The 'Block CID Enable' checkbox is unchecked.

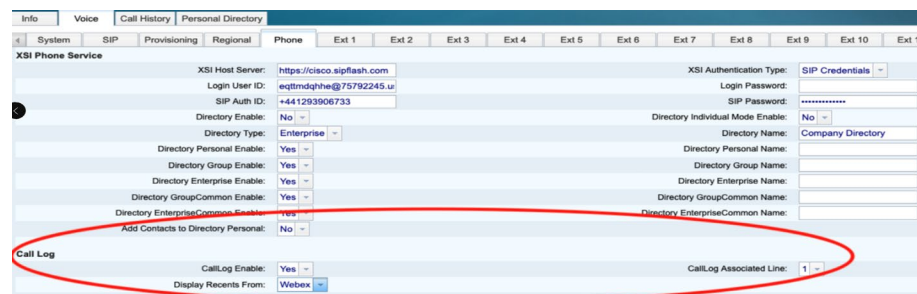
Field	Value
Display Name	4085290462
User ID	4085290462
Password	*****
Auth ID	dolphins005
SIP URI	
XSI Host Server	xspbssoft.sipurash.com
Login User ID	dolphins005@10.74.121.51
Anywhere Enable	Yes
XSI Authentication Type	SIP Credentials
Login Password	*****
Block CID Enable	No

Figure 74 BroadWorks Anywhere XSI Authentication – SIP Credentials

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Set the "Anywhere Enable". Voice Tab → Ext <#>: Anywhere Enable to yes</p> <p>Set "XSI Host Server" Voice Tab → Ext <#> → XSI Line Settings: Check Figure 29 and Figure 30</p> <p>Set "Login User ID" Voice Tab → Ext <#> → XSI Line Settings: Check Figure 29 and Figure 30</p> <p>XML</p> <pre><XSI_Host_Server_1_ua="na">% XSI_Host_Server_1_%</XSI_Host_ Server_1_> <XSI_Authentication_Type_1_ ua="na">% XSI_Authentication_Type_1_%</X SI_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_Pass word_1_> <Anywhere_Enable_1_ua="na">% Anywhere_Enable_1_%</Anywhere_ Enable_1_></pre>	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.



The screenshot shows the 'XSI Phone Service' configuration page. The 'Call Log' section is circled in red, indicating the configuration for call logs. The 'CallLog Enable' checkbox is checked (Yes), and the 'CallLog Associated Line' is set to '1'. Other visible settings include XSI Host Server, Login User ID, SIP Auth ID, Directory Enable, and various directory options.

Figure 75 Cisco MPP Series Call Log Enabled

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
Step 1	<p>Set Cisco BroadWorks Call Log</p> <p>Web Example:</p> <p>Phone Tab → Call Log:</p> <p>CallLog Enable: Yes</p> <p>XML</p> <pre><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> XML Example: <CallLog_Enable ua="na">Yes</CallLog_Enable> <CallLog_Associated_Line ua="na">1</CallLog_Associated_Line> <Display_Recents_From ua="na">Server</Display_Recents_From> <Exec_Call_Bridge_Code ua="na">*15</Exec_Call_Bridge_Code></pre>	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	<p>Set BroadSoft Directory Settings.</p> <p>Web Example:</p> <p><u>Phone Tab:</u></p> <p>Directory Enable: Yes</p> <p>XSI Host Server: xsp.broadworks.net</p> <p>Directory Name: Broadsoft</p> <p>XML:</p> <pre><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></pre>	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.

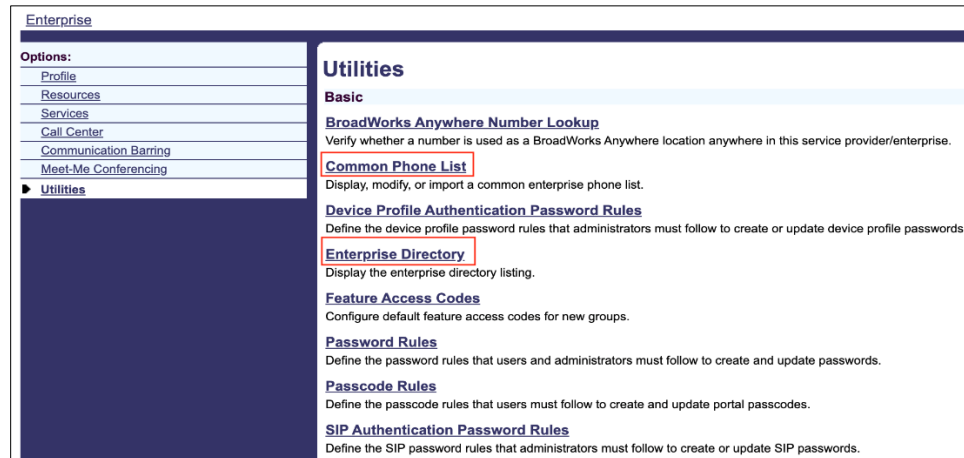


Figure 76 Configure Enterprise and Enterprise Common Directory

- 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.

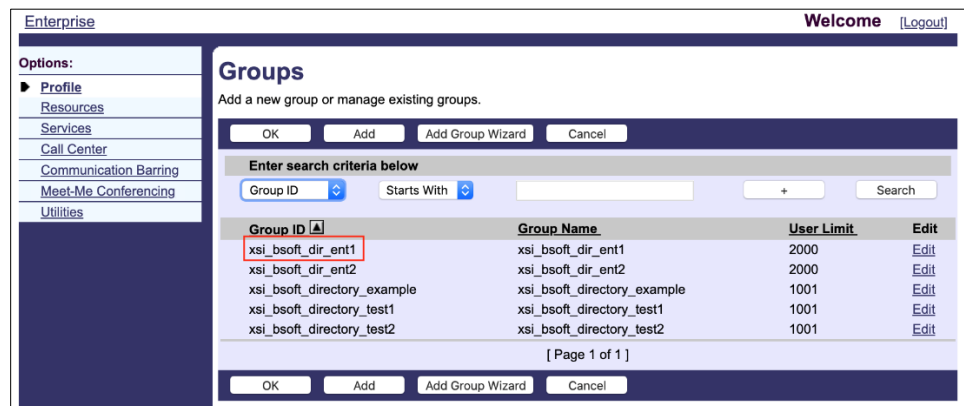


Figure 77 Configure Group Directory Contacts

- 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.

Enterprise > xsi_bsoft_dir_ent1

Options:
[Profile](#)
[Resources](#)
[Services](#)
[Call Center](#)
[Communication Barring](#)
[Meet-Me Conferencing](#)
[Utilities](#)

Users

Add a new user or manage existing users in your department or group.

OK Add Cancel

Enter search criteria below

User ID Starts With

User ID	Last Name	First Name	Phone Number	Extension
AveryGee@sipurash22.com	Avery	Gee	+1-5081001010	1010
<u>bsdirtest@sipurash22.com</u>	test	bsdir	+1-5081001018	1018
Hamilton@sipurash22.com	Hamilton	Alexander	+1-5081001090	1090
skasisub@sipurash22.com	Subramanian	Kasi Subramanian	+1-5081001043	1043
tcuibertEnterprise6851@sipurash22.com	Cuibertson	Tony	+1-5081001003	
tcuibertEnterprise8851@sipurash22.com	Cuibertson	Tony	+1-5081001001	1001
tfloryan8851HE@sipurash22.com	Group	John	+1-5081001040	1040
tfloryan8851WE@sipurash22.com	Bellon	Lorraine	+1-5081001041	1041
tfloryanHost@sipurash22.com	Floryanzia	Tyrone	+1-5081001042	1042
willalex@sipurash22.com	Alexander	William	+1-5081001047	1047
wmoorefield@sipurash22.com	Moorefield	Wayne	+1-5081001015	1015

[Page 1 of 1]

OK Add Cancel

Figure 78 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 68](#).

Select *Enterprise* → *xsi_bsoft_dir_ent1* → *Utilities*.

Enterprise > xsi_bsoft_dir_ent1

Options:
[Profile](#)
[Resources](#)
[Services](#)
[Call Center](#)
[Communication Barring](#)
[Meet-Me Conferencing](#)
Utilities

Utilities

Basic

BroadWorks Anywhere Number Lookup

Verify whether a number is used as a BroadWorks Anywhere location in this group.

Common Phone List

Display or modify common group phone lists.

Custom Contact Directories

Define new custom contact directories that contain a subset of the users in the group or enterprise.

Figure 79 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*.

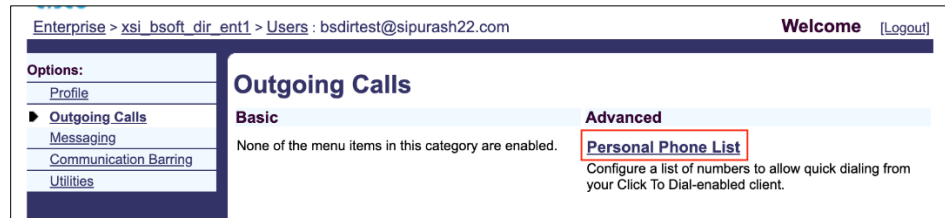


Figure 80 Configure Personal Directory

You can configure personal directory here.

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

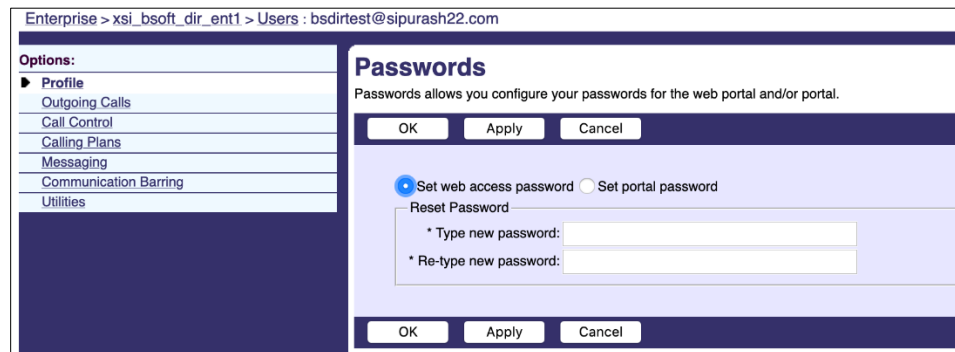


Figure 81 User Credentials

The user account is created.

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

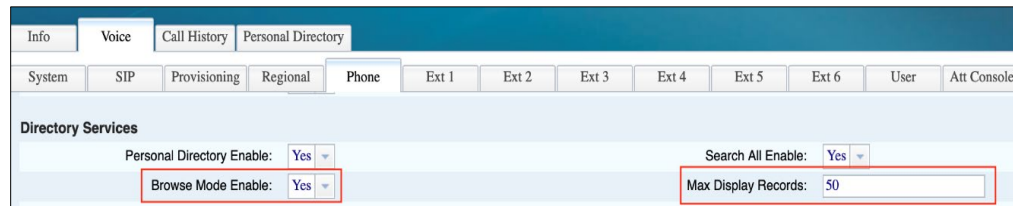


Figure 82 Directory Service MPP Phones

To configure the Directory services of Cisco Video Phone 8875 and Cisco Desk Phone 9800 Series from the phone web interface, see the following figure.

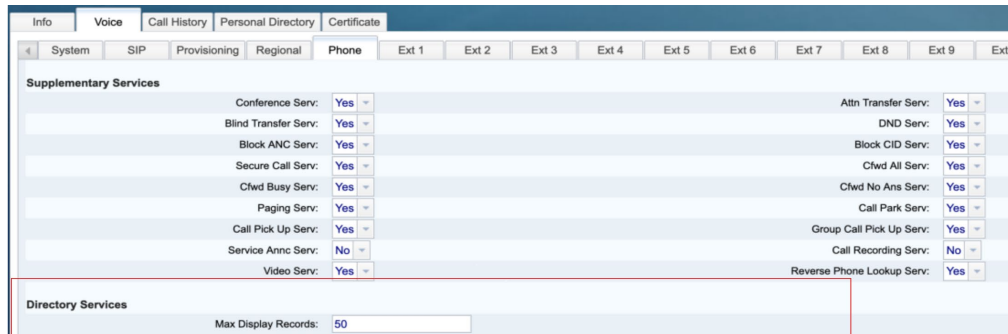


Figure 83 Directory Service 8875 abd 9800

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

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

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
	<p>Directory Enterprise Enable: No</p> <p>XML:</p> <pre><XsiDir_Enterprise_Enable ua="na">%XSIDIR_ENTERPRISE_EN ABLE%</XsiDir_Enterprise_Enab le></pre> <p>Note:</p> <p>%XSIDIR_ENTERPRISE_ENABLE% has two options: Yes and No</p> <p>XML Example:</p> <pre><XsiDir_Enterprise_Enable ua="na">No</XsiDir_Enterprise _Enable></pre>	<p>Enables the Cisco BroadWorks enterprise directory for the phone user.</p> <p>The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual Mode Enable</i> are set to "Yes".</p> <p>Default: No</p>
	<p>Directory Enterprise Name: Empty</p> <p>XML:</p> <pre><XsiDir_Enterprise_Name ua="na">%XSIDIR_ENTERPRISE_NA ME%</XsiDir_Enterprise_Name></pre> <p>XML Example:</p> <pre><XsiDir_Enterprise_Name ua="na">DirenterpriseName</Xs iDir_Enterprise_Name></pre>	<p>Name of the Cisco BroadWorks enterprise directory. Displays on the phone as a directory choice.</p> <p>Default: Empty.</p> <p>If the value is empty, the directory name is "Enterprise" on the phone.</p>
	<p>Directory GroupCommon Enable: No</p> <p>XML:</p> <pre><XsiDir_GroupCommon_Enable ua="na">%XSIDIR_GROUPCOMMON_E NABLE%</XsiDir_GroupCommon_En able></pre> <p>Note:</p> <p>%XSIDIR_GROUPCOMMON_ENABLE% has two options: Yes and No</p> <p>XML Example:</p> <pre><XsiDir_GroupCommon_Enable ua="na">No</XsiDir_GroupCommo n_Enable></pre>	<p>Enables the Cisco BroadWorks GroupCommon directory for the phone user.</p> <p>The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual Mode Enable</i> are set to "Yes".</p> <p>Default: No</p>
	<p>Directory GroupCommon Name: DirGroupCommon</p> <p>XML:</p> <pre><XsiDir_GroupCommon_Name ua="na">%XSIDIR_GROUPCOMMON_N AME%</XsiDir_GroupCommon_Name ></pre> <p>XML Example:</p> <pre><XsiDir_GroupCommon_Name ua="na"> DirGroupCommon </XsiDir_GroupCommon_Name></pre>	<p>Name of the Cisco BroadWorks Group Common directory.</p> <p>Displays on the phone as a directory choice.</p> <p>Default: Empty</p> <p>If the value is empty, the directory name is "Group Common" on the phone.</p>

Step	Command	Description
Configuration File <mac-address_CiscoDev>.xml		
	<pre>Directory EnterpriseCommon Enable</pre> <p>XML:</p> <pre><XsiDir_EnterpriseCommon_Enab le ua="na">%XSIDIR_ENTERPRISECOM MON_ENABLE%</XsiDir_Enterpris eCommon_Enable></pre> <p>Note:</p> <pre>%XSIDIR_ENTERPRISECOMMON_ENAB LE% has two options: Yes and No</pre> <p>XML Example:</p> <pre><XsiDir_EnterpriseCommon_Enab le ua="na">No</XsiDir_Enterprise Common_Enable></pre>	<p>Enables the Cisco BroadWorks EnterpriseCommon directory for the phone user.</p> <p>The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual Mode Enable</i> are set to "Yes".</p> <p>Default: No</p>
	<pre>Directory EnterpriseCommon Name: DirEnterpriseComm</pre> <p>XML:</p> <pre><XsiDir_EnterpriseCommon Name ua="na">%XSIDIR_ENTERPRISECOM MON_NAME%</XsiDir_EnterpriseC ommon_Name></pre> <p>XML Example:</p> <pre><XsiDir_EnterpriseCommon_Name ua="na">DirEnterpriseComm </XsiDir_EnterpriseCommon_Nam e></pre>	<p>Name of the Cisco BroadWorks Enterprise Common directory.</p> <p>Displays on the phone as a directory choice.</p> <p>Default: Empty</p> <p>If the value is empty, the directory name is "Enterprise Common" on the phone.</p>

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.

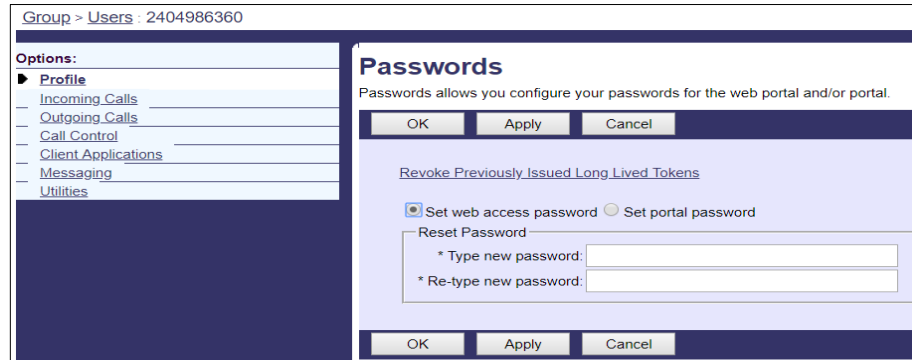


Figure 84 XSI Login Credentials with Cisco BroadWorks

- 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 73](#).
- 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.

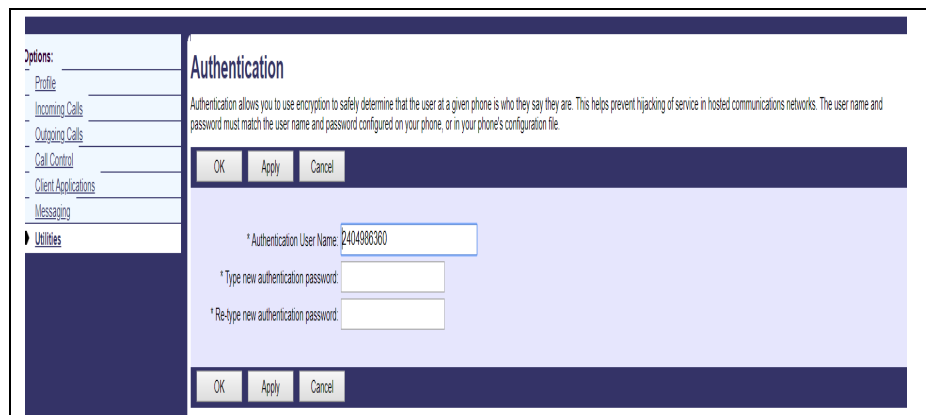


Figure 85 XSI SIP Credentials with Cisco BroadWorks

- 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 74](#).

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

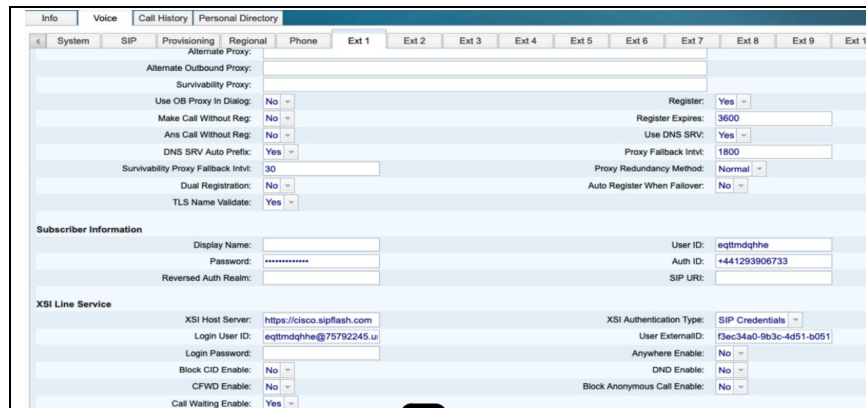


Figure 86 DND and Call Forwarding Status Synchronization

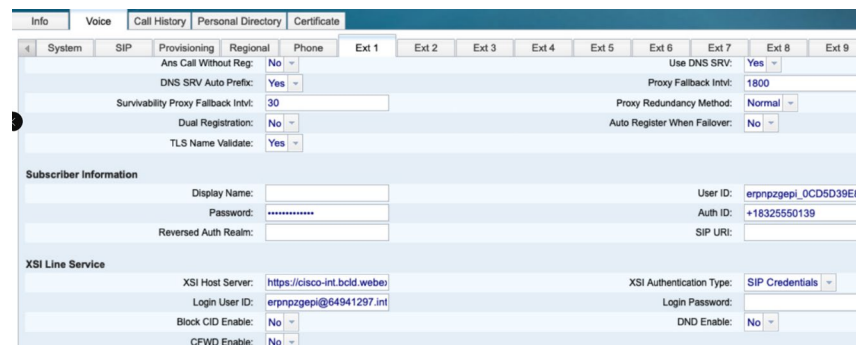


Figure 87 DND Call Forwarding for 9800 Series

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 1	<p>Set XSI Host Server and XSI Authentication Type:</p> <p>Set XSI host server:</p> <p>Web Portal Voice → Ext(n) → XSI Line Service</p> <p>XSI Authentication Type: Login Credentials or SIP Credentials</p> <p>Authentication with Login Credentials:</p> <p>Web Portal Voice → Ext(n) → XSI Line Service</p> <p>Login User ID and Login Password</p> <p>OR</p> <p>Authenticate with SIP Credentials:</p> <p>Web Portal Voice → Ext(n) → Subscriber Information</p> <p>Auth ID and Password</p>	Set the XSI Host Server and XSI Authentication Type.

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev.xml		
Step 2	<p>Enable Call Forward and DND Status Sync via XSI Service:</p> <p>Web Portal Voice → Ext(n) → XSI Line Service</p> <p>DND Enable: Yes/No</p> <p>CFWD Enable: Yes/No</p> <p>XML</p> <pre><DND_Enable_1_ua="na">%XSI_DND_ENABLE_N%/DND_Enable_1_> <CFWD_Enable_1_ua="na">%XSI_CFWD_ENABLE_N%/CFWD_Enable_1_></pre> <p>Tags:</p> <p>%XSI_DND_ENABLE_N%</p> <p>%XSI_CFWD_ENABLE_N%</p> <p>Range of N% is 1-16</p>	<p>Enable Call Forwarding and DND Status Sync via XSI Service.</p> <p>Default Value: No.</p>

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

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 Series does not support this feature.

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

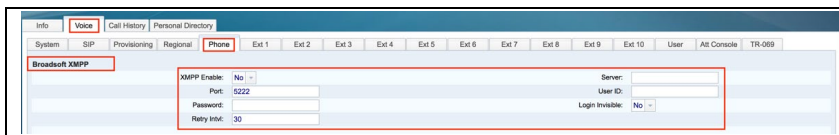


Figure 88 Cisco MPP Series XMPP Settings

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

Step	Command	Description
Step 1	<p>Set BroadSoft XMPP.</p> <p>Web Example:</p> <p><u>Phone Tab:</u></p> <p>XMPP Enable: Yes</p> <p>Server: xsp.broadworks.net</p> <p>Port: Broadsoft</p> <p>UserID: user1</p> <p>Password: password</p> <p>Login Invisible: No</p> <p>Retry Intvl: 50</p> <p>XML Example:</p> <p>XML Example</p> <pre><!-- Broadsoft XMPP --> <XMPP_Enable ua="na">Yes</XMPP_Enable> <XMPP_Server ua="na">%BW_IMP_SERVICE_NET_AD DRESS-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></pre>	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).

For more information on phone (excluding 8875 and 9800 series) 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.



The screenshot shows the Cisco BroadWorks web user interface. At the top, there are tabs for 'Info', 'Voice', 'Call History', and 'Personal Directory'. Under the 'Voice' tab, there are sub-tabs for 'System', 'SIP', 'Provisioning', 'Regional', and 'Phone'. The 'Phone' sub-tab is selected. Below the sub-tabs, there is a 'Webex' section. In this section, there are two dropdown menus: 'Onboard Enable' set to 'Yes' and 'Directory Enable' set to 'No'. To the right of these dropdowns is a text field labeled 'Directory Name'.

Figure 89 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 <pre><Webex_Onboard_Enable ua="na">%WEBEX_ONBOARD_ENABLE%</Web ex_Onboard_Enable></pre> Note: %WEBEX_ONBOARD_ENABLE% has two types: Yes or No Example: <pre><Webex_Onboard_Enable ua="na">Yes</Webex_Onboard_Enable></pre>	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

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 does not support this feature.

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.

Problem Report Tool	
PRT Upload Rule:	<input type="text" value="https://cisco-int.bcld.webex.com/dms/spa8841-3PCC/"/>
PRT Upload Method:	<input type="text" value="PUT"/> <input type="text" value="PRT Max Timer:"/>
PRT Name:	<input type="text" value="prt-log"/>
PRT HTTP Header:	<input type="text"/>
PRT HTTP Header Value:	<input type="text"/>

Figure 90 PRT Upload to Cloud

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

4.7.2 Phone Reboot from Control Hub

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 does not support this feature.

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*
- *Cisco IP Phone 9800 Series* <https://help.webex.com/en-us/landing/ld-n0mkkj8-CiscoDeskPhone9800Series/BroadWorks#Administration>

4.7.3 Webex Contact Support Configuration

NOTE: The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 does not support this feature.

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 synced 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.

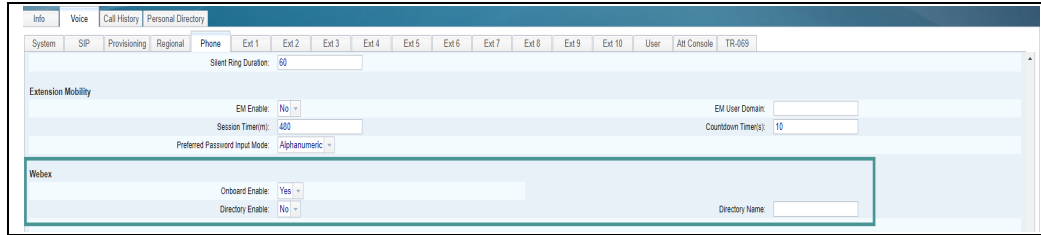


Figure 91 Webex Contacts Support

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

4.7.4 Webex Call Log Configuration

- NOTE:** The Cisco Desk Phone 9800 Series does not support this feature.

NOTE: The Cisco Video Phone 8875 does not support this feature.

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.

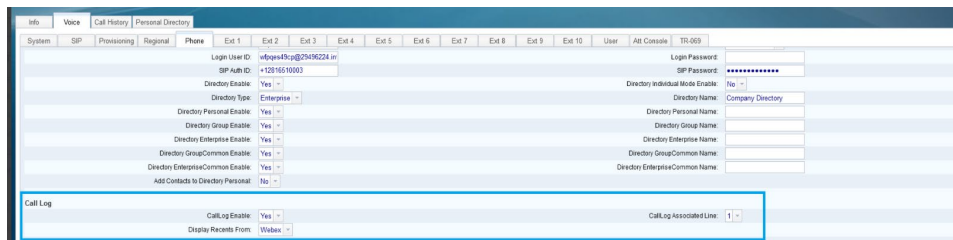


Figure 92 Webex Call Log Support

Step	Command	Purpose
System Configuration File <mac-address>_CiscoDev_System.xml		
Step 1	<p>Enable Webex call logs:</p> <p>Web Portal Voice → Phone → Call Log</p> <p>CallLog Enable: Yes or No</p> <p>CallLog Associated Line: 1 to 10</p> <p>Display Recents From: Phone or Server or Webex</p> <p>XML</p> <pre><CallLog_Enable ua="na"> %CallLog_Enable%</CallLog_Enable> <CallLog_Associated_Line ua="na">%C allLog_Associated_Line% </CallLog_Associated_Line> <Display_Recents_From ua="na">% Display_Recents_From %</Display_Recents_From></pre> <p>Example:</p> <pre><CallLog_Enable ua="na">Yes</CallLo g_Enable> <CallLog_Associated_Line ua="na">1< /CallLog_Associated_Line> <Display_Recents_From ua="na">Webex</Display_Recents_From ></pre>	<p>Enables the phone to support Webex call logs.</p> <p>CallLog Enable: Allows the user to use call logs from the Xsi server or Webex.</p> <p>Default: No.</p> <p>CallLog Associated Line: Allows you to select a phone line for which you want to display the recent call logs.</p> <p>Default: 1.</p> <p>Display Recents From: To enable Webex Call log, set the value as Webex.</p> <p>In the XML configuration file, set the <i>Display_Recents_From</i> parameter to "Webex".</p> <p>Default: Phone.</p>

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*. 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.
Flexible Seating	Network-Based Conference	Yes	
	Association via Voice Portal	Yes	
No Touch Provisioning	Association via Phone	Yes	Except lock and unlock.
	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

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.

Tag Set: System Default

Delete	Tag Name	Tag Value
<input type="checkbox"/>	%APPLICATION_DOMAIN%	as.iop2.broadworks.net
<input type="checkbox"/>	%DNS_SERVER_1%	199.19.193.13
<input type="checkbox"/>	%DNS_SERVER_2%	199.19.193.29
<input type="checkbox"/>	%DNS_SERVER%	199.19.193.12
<input type="checkbox"/>	%KWS300_XSP_PATH%	http://xsp1.iop2.broadworks.net/dms/kws300
<input type="checkbox"/>	%SBC_ADDRESS%	199.19.193.9
<input type="checkbox"/>	%SBC_PORT%	5060
<input type="checkbox"/>	%SIP_TRANSPORT%	0
<input type="checkbox"/>	%SNTP_SERVER_1%	time.nist.gov
<input type="checkbox"/>	%SNTP_SERVER_2%	time.windows.com
<input type="checkbox"/>	%SNTP_SERVER%	time-b.nist.gov
<input type="checkbox"/>	%SNTP_SERVERIP%	192.5.41.41
<input type="checkbox"/>	%USE_SBC_BOOL%	true
<input type="checkbox"/>	%USE_SBC_BOOLEAN%	1
<input type="checkbox"/>	%XSP_ADDRESS_XSI_ACTIONS%	xsp1.iop2.broadworks.net
<input type="checkbox"/>	%XSP_ADDRESS%	xsp1.iop2.broadworks.net

Figure 93 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 3 rd 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: <ul style="list-style-type: none"> 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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%CONFERENCING_KEY_LIST%	Default: hold 1;endcall 2;join 4	PSK settings for "Conferencing" call state. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%RELEASING_KEY_LIST%	Default: endcall 2;home;	PSK settings for "Connected" call state.

Tag Name	Valid Settings	Description
%CONNECTED_MEETING_LIST%	Default: endcall 2;home 3;	PSK settings for "Connected" call state. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%DAYLIGHT_SAVING_TIME_ENABLE%	Yes/No	Enable/Yes to observe daylight savings time.
%DAYLIGHT_SAVING_TIME%	Default: start=3/-1/7/2;end=10/-1/7/2;save=1	Daylight Savings Settings. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%DIAL_PLAN%	= ([2346789]11S0 [0- 1][2-9]11S0 0 00S0 01[2-9]xx. [*#]xx[*#] *xx. *xxxxxxS0 *xxxxxxxxxxxx [2-9]# 011x. [0-1]xxxxxxxx [0-1][2-9]xxxxxxxxS0 [2-9]xxxxxxxxS0 [2- 9]xxxxxxxx 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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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.

Tag Name	Valid Settings	Description
%FAILBACK_INTVL%	Default: 3600	Interval to force SIP Registration failback. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%INVITE_RETRY_ATTEMPTS%	String (0-6) Recommend: 3	Number of re-transmissions of Call Requests.
%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_C P-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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .

Tag Name	Valid Settings	Description
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%ON_HOOK_DIAL_KEY_LIST%	Default: cancel 1;call 2;delchar 3;	PSK settings for "On Hook" call state. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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: <ul style="list-style-type: none"> PLK-1 PLK-2 Note: "x" represents the number of lines supported on the device. <ul style="list-style-type: none"> 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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%RFC_2543_HOLD%	Default: No Options: Yes/No	Ability to support RFC 2543 Hold.
%SCREEN_SAVER_ENAB LED%	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_REFR ESH_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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%SHARED-LINE-DND-CFWD-ENABLE%	Default: Yes Options: Yes/No	Enable/Disable the ability to display DND/CFWD soft keys.

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: <ul style="list-style-type: none"> SIP_TRANSPORT-1 SIP_TRANSPORT-2 Note: x represents number of lines supported on device. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SIP_UDP_PORT-1 SIP_UDP_PORT-2 Note: x represents number of lines supported on device.
%START-CONF_KEY_LIST%	Default: hold 1;endcall 2;conf 3;toggle;	PSK settings for "Conference Call" call state. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%START-XFER_KEY_LIST%	Default: hold 1;endcall 2;xfer 4;toggle;	PSK settings for "Call Transfer" call state. For more information, see the <i>Cisco IP Phone MPP Series Multiplatform Phones Administration Guide</i> .
%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 3 rd 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_CODECS_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_C P-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_C P-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_C P-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_C P-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_C P-8875-3PCC%	File name of the loads file	Firmware load filename: Example: sip8875_135bb96c52dev.pkg Note: Firmware files cannot be renamed.
%FIRMWARE_VERSION_D P-9800%	File name of the loads file	Firmware load filename: Example: PHONEOS.3-1-1-0004-36.loads 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_FR OM%	Options: Phone/Server	Shows CallLog Recents from.
%LOG_MISSED_CALLS_x %	X Ranges from 1 to 16	Shows missed calls list.
%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 <i>Settings → Executive menu</i> .
%EXEC_CALL_BRIDGE_C ODE%	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_AC T_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_DE ACT_CODE%	The # or * code that you want to be used for the function. Default: #62	For executives who have assistants: Deactivates call filtering.

Tag Name	Valid Settings	Description
%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.
%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 <i>Cisco IP Phone 8800 Series Multiplatform Phone Administration Guide</i> .
%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	

Tag Name	Valid Settings	Description
%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_C P-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.
%FIRMWARE_VERSION_C P-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_C P-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_C P-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).

Tag Name	Valid Settings	Description
%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	
%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	

Tag Name	Valid Settings	Description
%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	
%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	

Tag Name	Valid Settings	Description
%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	
%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_ENABLE_D%	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	
%ACTION_BUTTON_FUNCTION%	Options: Off, Emergency Calls	
%ACTION_BUTTON_SERVICE_TRIGGER%	Options: Single Press Long Press Press 3 times Default: Single press	Choose how users can initiate a service call using the phone's Action button.

Tag Name	Valid Settings	Description
%ACTION_BUTTON_DIAL_DELAY%	Ranges from 0 to 30 seconds Default: 5 secs	Sets the timeout period, in seconds, for the phone to initiate the service call after the Action button is pressed.
%ACTION_BUTTON_SILENT_EMERGENCY_CALL%	Options: Enabled Disabled Default: Disabled	This setting works only when the Action Button Function is set to Emergency Call.
%ACTION_BUTTON_SERVICE_DEST%	Phone number or URI. Default: Empty	Provide the phone number or the URI for the service.
%OFFICE_HOURS_ENABLED%	Options: True, False	9800 Series only
%WORK_DAYS%	Options: Monday through Friday	9800 Series only
%WORKING_HOURS_START%	Options: Any hours of the day in 24-hour format	9800 Series only
%WORKING_HOURS_END%	Options: Any hours of the day in 24-hour format	9800 Series only
%DEEP_SLEEP_ENABLED%	Options: False, Non-work Day Only, All Days	9800 Series only
%Phone_OFF_TIME_AFTER_WORKING_HOURS%	Options: 0 to 360 minutes	9800 Series only
%PHONE_ON_TIME_BEFORE_WORKING_HOURS%	Options: 0 to 360 minutes	9800 Series only
%ENABLE_AUDIBLE_ALERT_WHEN_DEEP_SLEEP%	Options: True, False	9800 Series only
%IDLE_TIMEOUT_FOR_DEEP_SLEEP_OUTSIDE_OFFICE_HOURS%	Options: 0 to 60 minutes	9800 Series only
%IDLE_TIMEOUT_FOR_DISPLAY_OFF_OUTSIDE_OFFICE_HOURS%	Options: 0 to 60 minutes	9800 Series only
%HELP_DESK_ENABLE%	Options: Yes, No	9800 Series only
%HELP_DESK_QUICK_NUMBER_X%	Ranges from 0 to 9	9800 Series only
%HELP_DESK_NAME_X%	Ranges from 0 to 9	
%HELP_DESK_CUSTOM_MENU_NAME%	Options: Any string	
%LINE_LABEL-n%	n ranges from 1 to 6	
%Webex_Calendar_Enable%	Options: Yes No	9800 Series only
%LED_INDICATOR_IN_DISPLAY_OFF_OUTSIDE_OFFICE_HOURS%	Options: Enabled Disabled	



Tag Name	Valid Settings	Description
%Call_Information_Enable_n%	Options: Yes No	
%Disposition_Code_Enable_n%	Options: Yes No	
%Trace_Enable_n%	Options: Yes No	

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.

OKApplyAddCancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name(A)	Tag Value	Edit
<input type="checkbox"/>	%3rd_Party_CA_ROOT%		Edit
<input type="checkbox"/>	%3RD_PARTY_CA_ROOT%		Edit
<input type="checkbox"/>	%6800_LOGO_PIC_URL%		Edit
<input type="checkbox"/>	%7800_WALLPAPER_PIC_URL%		Edit
<input type="checkbox"/>	%6800_LOGO_PIC%		Edit
<input type="checkbox"/>	%ACCESS_PROTOCOL%	http://	Edit
<input type="checkbox"/>	%AMRWB_ENABLE%	Yes	Edit
<input type="checkbox"/>	%AUTH_INVITE%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-1%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-10%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-11%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-12%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-13%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-14%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-15%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-16%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-2%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-3%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-4%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-5%	No	Edit

[Page 1 of 10]

NextLast

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.

OKApplyAddCancel

* Tag Set Name: Cisco-3PCC-Tags

Delete	Tag Name(A)	Tag Value	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-6%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-7%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-8%	No	Edit
<input type="checkbox"/>	%AUTO_ANS_ON_CALL-9%	No	Edit
<input type="checkbox"/>	%AUTO_ANSWER_PAGE%	No	Edit
<input type="checkbox"/>	%BLF_DISPLAY_MODE%	BOTH	Edit
<input type="checkbox"/>	%BLOCK_ANC_ACTIVATE%	*001	Edit
<input type="checkbox"/>	%BLOCK_ANC_DEACTIVATE%	*002	Edit
<input type="checkbox"/>	%BLOCK_CID_ACTIVATE%	*003	Edit
<input type="checkbox"/>	%BLOCK_CID_DEACTIVATE%	*004	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-1%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-10%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-11%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-12%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-13%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-14%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-15%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-16%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-2%	No	Edit
<input type="checkbox"/>	%BROADSOFT_ACD_ENABLE-3%	No	Edit

FirstPrevious[Page 2 of 10]NextLast

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.

* Tag Set Name:

Delete	Tag Name	Tag Value	Edit
<input type="checkbox"/>	%DICTIONARY_SERVER_SCRIPT%	d1=English;x1=en-US.xml;d2=Spanish;x2=es-ES.xml;d3=French;x3=fr-FR.xml;	Edit
<input type="checkbox"/>	%DISPLAY_DIVERSION_INFO%	Yes	Edit
<input type="checkbox"/>	%DND_ENABLE_1_%	Yes	Edit
<input type="checkbox"/>	%DND_ENABLE_16_%	No	Edit
<input type="checkbox"/>	%DND_ENABLE_2_%	No	Edit
<input type="checkbox"/>	%DND_ENABLE_3_%	No	Edit
<input type="checkbox"/>	%DNS_CACHE_TTL%	Yes	Edit
<input type="checkbox"/>	%DNS_SERVER_1%	10.89.81.187	Edit
<input type="checkbox"/>	%DNS_SERVER_ORDER%	Manual-Dhcp	Edit
<input type="checkbox"/>	%EM_ENABLED%	No	Edit
<input type="checkbox"/>	%EMERGENCY_NUMBER%	911	Edit
<input type="checkbox"/>	%FAILBACK_INTVL%	3600	Edit
<input type="checkbox"/>	%FIRMWARE_VERSION_CP-6800-3PCC%	sp68bx.11-0-2MPP-55dev.loads	Edit
<input type="checkbox"/>	%FIRMWARE_VERSION_CP-7800-3PCC%		Edit
<input type="checkbox"/>	%FIRMWARE_VERSION_CP-8800-3PCC%	sp88bx.11-1-1MSR1-1.loads	Edit
<input type="checkbox"/>	%G711A_ENABLE%	Yes	Edit
<input type="checkbox"/>	%G711U_ENABLE%	Yes	Edit
<input type="checkbox"/>	%G722_ENABLE%	Yes	Edit
<input type="checkbox"/>	%G728A_ENABLE%	Yes	Edit
<input type="checkbox"/>	%HOLD_KEY_LIST%	resume 1 endcall 2 newcall 3 redial dir cfdw dnd	Edit

[First](#)
[Previous](#)
[Page 5 of 10]
[Next](#)
[Last](#)

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.

* Tag Set Name:

Delete	Tag Name [A]	Tag Value	Edit
<input type="checkbox"/>	%IDLE_KEY_LIST%	redial 1:newcall 2:dnd 3:unpark 4:pickup 5:cfwd 6	Edit
<input type="checkbox"/>	%KOM_HTTP_ENCRYPT_CONTENT%		Edit
<input type="checkbox"/>	%LBC_ENABLE%	No	Edit
<input type="checkbox"/>	%INVITE_RETRY_ATTEMPTS%	3	Edit
<input type="checkbox"/>	%KEY_AGAIN_RESET_TIME%	800	Edit
<input type="checkbox"/>	%KEY_DOUBLE_PRESS_TIME%	200	Edit
<input type="checkbox"/>	%KEY_TRIPLE_PRESS_TIME%	400	Edit
<input type="checkbox"/>	%LINE_ID_MAPPING%	Vertical First	Edit
<input type="checkbox"/>	%NEW_CALL_RECENTS_KEY_LIST%	cancel 1:call 2:	Edit
<input type="checkbox"/>	%NON-INVITE_RETRY_ATTEMPTS%	3	Edit
<input type="checkbox"/>	%OFF_HOOK_CONSULT_KEY_LIST%	redial 1:cancel 2:	Edit
<input type="checkbox"/>	%OFF_HOOK_KEY_LIST%	redial 1:dnd 2:cfwd 3:dnd 4:lor 5:unpark 6:pickup 7:gcipickup 8:starcode 11:alpha 12	Edit
<input type="checkbox"/>	%ON_HOOK_DIAL_KEY_LIST%	cancel 1:call 2:delchar 3:	Edit
<input type="checkbox"/>	%OPUS_ENABLE%	Yes	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_1%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_10%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_11%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_12%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_13%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_14%	No	Edit

[First](#)
[Previous](#)
[Page 6 of 10]
[Next](#)
[Last](#)

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.

* Tag Set Name:

Delete	Tag Name [A]	Tag Value	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_15%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_16%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_2%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_3%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_4%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_5%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_6%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_7%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_8%	No	Edit
<input type="checkbox"/>	%P_EARLY_MEDIA_SUPPORT_9%	No	Edit
<input type="checkbox"/>	%P_TIME%	0.020	Edit
<input type="checkbox"/>	%PERIODIC_UPLOAD_TO_SERVER%	3600	Edit
<input type="checkbox"/>	%PLK1%	1	Edit
<input type="checkbox"/>	%PLK2%	2	Edit
<input type="checkbox"/>	%PREFERRED_CODEC%	G722	Edit
<input type="checkbox"/>	%PROCESSING_KEY_LIST%	endcall 2	Edit
<input type="checkbox"/>	%PROFILE_AUTH_TYPE%	Basic Http Authentication	Edit
<input type="checkbox"/>	%PROFILE_AUTHENTICATION_TYPE%	Basic Http Authentication	Edit
<input type="checkbox"/>	%PSK_ENABLED%	Yes	Edit
<input type="checkbox"/>	%REPORT_TO_SERVER%	On Request	Edit

[First](#)
[Previous](#)
[Page 7 of 10]
[Next](#)
[Last](#)

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.

* Tag Set Name:

Delete	Tag Name [A]	Tag Value	Edit
<input type="checkbox"/>	%RESYNC_AT_RANDOM_DELAY%	600	Edit
<input type="checkbox"/>	%RESYNC_ERROR%		Edit
<input type="checkbox"/>	%RESYNC_FORCED%	14400	Edit
<input type="checkbox"/>	%RESYNC_PERIODIC%	3600	Edit
<input type="checkbox"/>	%RESYNC_RANDOM%	2	Edit
<input type="checkbox"/>	%RESYNC_TIME%	0100	Edit
<input type="checkbox"/>	%RETRY_REG_RSC%	555.555	Edit
<input type="checkbox"/>	%RFC_2543_HOLD%	No	Edit
<input type="checkbox"/>	%RINGING_KEY_LIST%	answer 1:ignore 2:toggle 4	Edit
<input type="checkbox"/>	%SBC_ADDRESS_1%	10.89.81.177	Edit
<input type="checkbox"/>	%SBC_ADDRESS_2%	10.89.81.178	Edit
<input type="checkbox"/>	%SCREEN_SAVER_ENABLED%	Yes	Edit
<input type="checkbox"/>	%SCREEN_SAVER_ICON%	Clock	Edit
<input type="checkbox"/>	%SCREEN_SAVER_REFRESH_PERIOD%	6	Edit
<input type="checkbox"/>	%SCREEN_SAVER_WAIT%	300	Edit
<input type="checkbox"/>	%SECOND_PREFERRED_CODEC%	G722	Edit
<input type="checkbox"/>	%SHARED_ACTIVE_KEY_LIST%	newcall 1:barge 2:cfwd 3:dnd 4	Edit
<input type="checkbox"/>	%SHARED_HELD_KEY_LIST%	resume 1:barge 2:cfwd 3:dnd 4	Edit
<input type="checkbox"/>	%SHARED-LINE-OND-CFWD-ENABLE%	Yes	Edit
<input type="checkbox"/>	%SIP_AUTH_REALM%		Edit

[First](#)
[Previous](#)
[Page 8 of 10]
[Next](#)
[Last](#)

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 (A)	Tag Value	Edit
<input type="checkbox"/>	%SIP_T1%	4	Edit
<input type="checkbox"/>	%SIP_T2%	4	Edit
<input type="checkbox"/>	%SIP_T4%	4	Edit
<input type="checkbox"/>	%SIP_TCP_MAX%	5080	Edit
<input type="checkbox"/>	%SIP_TCP_MIN%	5080	Edit
<input type="checkbox"/>	%SIP_TIMER_B%	4	Edit
<input type="checkbox"/>	%SIP_TIMER_F%	4	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-1%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-10%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-2%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-3%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-4%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-6%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-6%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-7%	UDP	Edit
<input type="checkbox"/>	%SIP_TRANSPORT-8%	UDP	Edit
<input type="checkbox"/>	%SIP_UDF_PORT-1%		Edit
<input type="checkbox"/>	%SIP_UDF_PORT-2%		Edit
<input type="checkbox"/>	%START-CONF_KEY_LIST%	hold[1;endcall[2;conf[3;toggle;	Edit

First

Previous

(Page 9 of 10)

Next

Last

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 (A)	Tag Value	Edit
<input type="checkbox"/>	%START-XFER_KEY_LIST%	hold[1;endcall[2;xfer[4;toggle;	Edit
<input type="checkbox"/>	%STUN_SERVER%		Edit
<input type="checkbox"/>	%SYSLOG_IDENTIFIER%	None	Edit
<input type="checkbox"/>	%TEXT_LOGO%		Edit
<input type="checkbox"/>	%THIRD_PREFERRED_CODEC%	G711u	Edit
<input type="checkbox"/>	%TRY_BACKUP_RSC%	555.655	Edit
<input type="checkbox"/>	%UPLOAD_DELAY_ON_LOCAL_CHANGE%	60	Edit
<input type="checkbox"/>	%USE_LINE_KEYS_FOR_BLF%	Yes	Edit
<input type="checkbox"/>	%USE_PREFERRED_CODEC_ONLY%	No	Edit
<input type="checkbox"/>	%VM_SUBSCRIBE_INTERVAL%	1800	Edit
<input type="checkbox"/>	%VOICE_Feedback_Enable%	No	Edit
<input type="checkbox"/>	%VOICE_FEEDBACK_ENABLE%	Yes	Edit
<input type="checkbox"/>	%VOICE_FEEDBACK_SPEED%	Normal	Edit
<input type="checkbox"/>	%XSL_CFWO_ENABLE_1%	No	Edit
<input type="checkbox"/>	%XSL_CND_ENABLE_1%	No	Edit
<input type="checkbox"/>	%XSL_HOST_SERVER%	10.89.81.183	Edit
<input type="checkbox"/>	%XSL_SERVER%	10.89.81.183	Edit
<input type="checkbox"/>	%XSIPASSWORD-1%	Cisco123!	Edit

First

Previous

(Page 10 of 10)

Figure 94 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

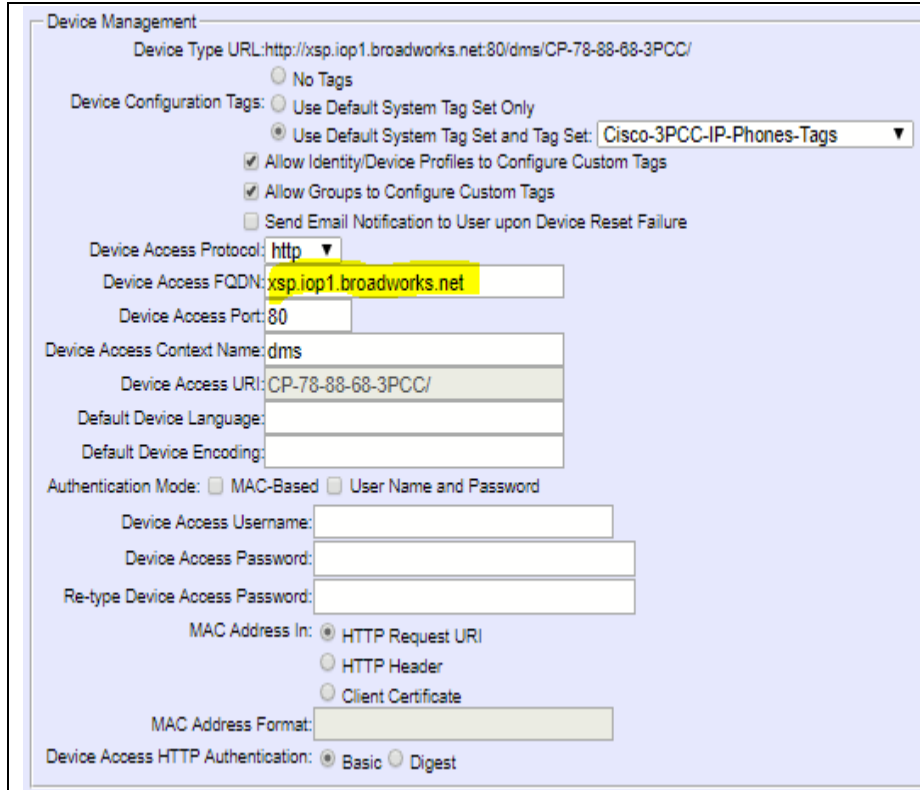
This section identifies the steps necessary to make use of the Device Management import feature to configure Cisco BroadWorks to add the Cisco MPP Series as a Device Management-enabled device type. Also, see the *Cisco BroadWorks CPE Kit Usage Guide* [2].

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.



Device Management

Device Type URL: <http://xsp.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/>

Device Configuration Tags: ☐ No Tags
☐ Use Default System Tag Set Only
☒ Use Default System Tag Set and Tag Set: **Cisco-3PCC-IP-Phones-Tags**

☒ Allow Identity/Device Profiles to Configure Custom Tags
☒ Allow Groups to Configure Custom Tags
☐ Send Email Notification to User upon Device Reset Failure

Device Access Protocol: **http**

Device Access FQDN: **xsp.iop1.broadworks.net**

Device Access Port: 80

Device Access Context Name: dms

Device Access URI: CP-78-88-68-3PCC/

Default Device Language:

Default Device Encoding:

Authentication Mode: ☐ MAC-Based ☐ User Name and Password

Device Access Username:

Device Access Password:

Re-type Device Access Password:

MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate

MAC Address Format:

Device Access HTTP Authentication: ☒ Basic ☐ Digest

Figure 95 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 [5.2.2.2.6.1 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
<i>CiscoDev-3PCC_Bootstrap.xml</i>	<i>CiscoDev-3PCC_Bootstrap.xml</i>	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
<i>CiscoDev_Type<Family>.xml</i>	<i>CiscoDev_Type68xx.xml</i> <i>CiscoDev_Type6821.xml</i> <i>CiscoDev_Type6861.xml</i> <i>CiscoDev_Type6871.xml</i> <i>CiscoDev_Type78xx.xml</i> <i>CiscoDev_Type7832.xml</i> <i>CiscoDev_Type88xx.xml</i> <i>CiscoDev_Type8832.xml</i> <i>CiscoDev_Type88x5.xml</i> <i>CiscoDev_Type8875.xml</i> <i>CiscoDev_Type9841.xml</i> <i>CiscoDev_Type9851.xml</i> <i>CiscoDev_Type9861.xml</i> <i>CiscoDev_Type9871.xml</i>	Family/System-level	These files contain the family-specific parameters. This includes the upgrade rule.
<i>CiscoDev_System.xml</i>	<i>CiscoDev_System.xml</i>	System-level	These files are referred to as the system template files. They contain the system settings common to the phone model type.
<i>%BWMACADDRESS%_CiscoDev.xml</i>	<i><MAC>_CiscoDev.xml</i>	Device-specific	<p>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.</p> <p>These files are referred to as the line key template files. They contain the line key data for the specific phone.</p>
<i>TimeZoneAliasLabels_<model>.properties</i>	<i>TimeZoneAliasLabels_ - CiscoDev.properties</i>	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.
<i>%BWMACADDRESS%-confup.xml</i>	<i><MAC>-confup.xml</i>	Device-specific	<p>The device-specific file documents the current settings used by the phone.</p> <p>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>.</p>
<i>prt-%BWMACADDRESS%-up.tar.gz</i>	<i>prt-<MAC>-up.tar.gz</i>	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.

5.2.2.2.1 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*
- *CiscoDev_Type9841.xml*
- *CiscoDev_Type9851.xml*
- *CiscoDev_Type9861.xml*
- *CiscoDev_Type9871.xml*

Add the system files to the device profile type with the settings shown in [Figure 84](#).

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.



Identity/Device Profile Type File Modify
Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access File Format: CiscoDev-3PCC_Bootstrap.xml
Repository File Format: CiscoDev-3PCC_Bootstrap-%BWTIMESTAMP%.xml
Access File: http://xsp.1001.broadworks.net:80/dms/CP-78-88-68-3PCC/CiscoDev-3PCC_Bootstrap.xml
Repository File:
Template File: [Download](#)
File Category: ☐ Static ☒ Dynamic Per-Type ☐ Dynamic Per-Device
File Customization: Administrator
☒ Enable caching

Assign File
☐ Manual
☒ Custom
Upload File: [Choose File](#) No file chosen

Currently using configuration file:
`/var/broadworks/lpDeviceConfig/type/Cisco-CP-78xx-88xx-68xx-3PCC/CiscoDev-3PCC_Bootstrap.xml.template`

```
<?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
    -->
```

File Authentication
Authentication Mode: ☐ MAC-Based ☐ User Name and Password
MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
MAC Address Format:
Device Access HTTP Authentication: ☒ Basic ☐ Digest
Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Figure 96 CiscoDev-3PCC_Bootstrap.xml File Settings

5.2.2.2.2.2 Device-Specific Files

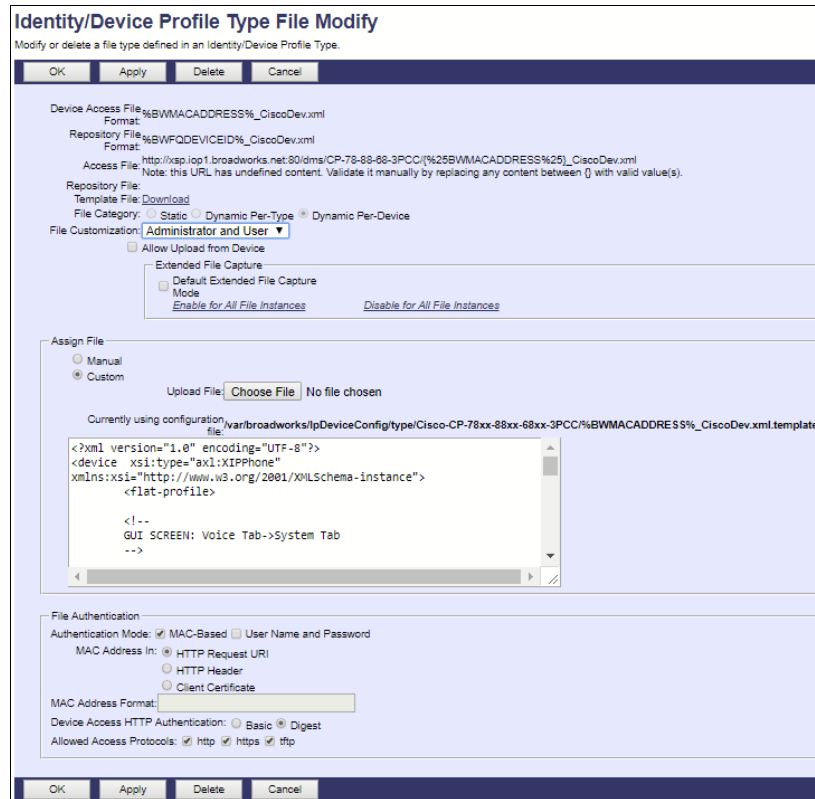
This section identifies the device-specific files used by Cisco MPP Series and provides instructions for defining and uploading the files for Device Management.

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 85](#).

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.



Identity/Device Profile Type File Modify
Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access File: %BWMACADDRESS%_CiscoDev.xml
Format: %BWMACADDRESS%_CiscoDev.xml

Repository File: %BWMACADDRESS%_CiscoDev.xml
Format: %BWMACADDRESS%_CiscoDev.xml

Access File: http://isp.log1.broadworks.net:80/dms/CP-78-88-68-3PCC(%25BWMACADDRESS%25)_CiscoDev.xml
(Note: this URL has undefined content. Validate it manually by replacing any content between {} with valid value(s).)

Repository File: [Download](#)

Template File: [Download](#)

File Category: ☐ Static ☐ Dynamic Per-Type ☒ Dynamic Per-Device

File Customization: [Administrator and User](#)

☐ Allow Upload from Device

Extended File Capture
☐ Default Extended File Capture
Mode: [Enable for All File Instances](#) [Disable for All File Instances](#)

Assign File
☐ Manual
☒ Custom
Upload File: [Choose File](#) No file chosen

Currently using configuration file: /var/broadworks/lpDeviceConfig/type/Cisco-CP-78xx-88xx-68xx-3PCC/%BWMACADDRESS%_CiscoDev.xml.template

```
<?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
    -->
```

File Authentication
Authentication Mode: ☒ MAC-Based ☐ User Name and Password
MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
MAC Address Format:
Device Access HTTP Authentication: ☐ Basic ☒ Digest
Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Figure 97 <MAC>_CiscoDev.xml File Setting

5.2.2.2.3 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.

Identity/Device Profile Type File Modify

Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access: %BWMACADDRESS%-confup.xml
 File Format: %BWMACADDRESS%-confup.xml
 Repository: %BWMACADDRESS%-confup.xml
 File Format: %BWMACADDRESS%-confup.xml
 Access File: http://10.89.81.183:80/dms/CP-78-68-68-3PCC/{%25BWMACADDRESS%25}-confup.xml
 Note: this URL has undefined content. Validate it manually by replacing any content between {} with valid value(s).
 Repository: %BWMACADDRESS%-confup.xml
 File: %BWMACADDRESS%-confup.xml
 Template File: %BWMACADDRESS%-confup.xml
 File Category: ☐ Static ☐ Dynamic Per-Type ☐ Dynamic Per-Device
 File: Administrator
 Customization: ☒ Allow Upload from Device
 Extended File Capture
☐ Default Extended File Capture Mode
 Enable for All File Instances Disable for All File Instances

Assign File
☒ Manual
☐ Custom
 Upload File: Browse... No file selected.

File Authentication
 Authentication Mode: ☒ MAC-Based ☐ User Name and Password
 MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
 MAC Address Format:
 Device Access HTTP Authentication: ☒ Basic ☐ Digest
 Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Identity/Device Profile Type File Modify

Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access: prt-%BWMACADDRESS%-up.tar.gz
 File Format: prt-%BWMACADDRESS%-up.tar.gz
 Repository: prt-%BWMACADDRESS%-up.tar.gz
 File Format: prt-%BWMACADDRESS%-up.tar.gz
 Access File: http://10.89.81.183:80/dms/CP-78-68-68-3PCC/prt-{%25BWMACADDRESS%25}-up.tar.gz
 Note: this URL has undefined content. Validate it manually by replacing any content between {} with valid value(s).
 Repository: prt-%BWMACADDRESS%-up.tar.gz
 File: prt-%BWMACADDRESS%-up.tar.gz
 Template File: prt-%BWMACADDRESS%-up.tar.gz
 File Category: ☐ Static ☐ Dynamic Per-Type ☐ Dynamic Per-Device
 File: Administrator
 Customization: ☒ Allow Upload from Device
 Extended File Capture
☐ Default Extended File Capture Mode
 Enable for All File Instances Disable for All File Instances

Assign File
☒ Manual
☐ Custom
 Upload File: Browse... No file selected.

File Authentication
 Authentication Mode: ☒ MAC-Based ☐ User Name and Password
 MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
 MAC Address Format:
 Device Access HTTP Authentication: ☒ Basic ☐ Digest
 Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Figure 98 Upload File Settings

5.2.2.2.4 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.12-0-6MPP0001-65.loads (for the 6800 Devices)
- sip6821.12-0-6MPP0001-65.loads (for the 6821 Devices)
- sip78xx.12-0-6MPP0001-65.loads (for the 7800 Devices)
- sip7832.12-0-6MPP0001-65.loads (for the 7832 Devices)
- sip88xx.12-0-6MPP0001-65.loads (for the 8800 Devices)
- sip8845_65.12-0-6MPP0001-65.loads (for the 8845 and 8865 Devices)
- PHONEOS-8875.3-2-1-0002-28.loads (for Cisco Video Phone 8875)
- PHONEOS-8875.3-2-1-0002-28.pkg (for Cisco Video Phone 8875)
- sip8832.12-0-6MPP0001-65.loads (for the 8832 Devices)
- PHONEOS.3-2-1-0002-28.loads (for Cisco Desk Phone 9800 Series)

Add the static files to the device profile type with the settings shown in [Figure 87](#).

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://help.webex.com/en-us/article/4j1p14/Release-Notes-for-Cisco-Video-Phone-8875-on-Webex-Calling-or-BroadWorks#task-template_d9b3d079-b100-4293-a10a-a10387ee87f9
- Cisco IP Phone 9800 Series: https://help.webex.com/en-us/article/n1trwjh/Release-Notes-for-Cisco-Desk-Phone-9800-Series#task-template_e3253095-4716-4259-b84c-efb2cc6e7668

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



Identity/Device Profile Type File Modify
Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access File Format: [sip78xx.11-1-1MPP-897.loads](#)
Repository File Format: [sip78xx.11-1-1MPP-897.loads](#)
Access File: [http://osp.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/sip78xx.11-1-1MPP-897.loads](#)
Repository File: [Download](#)
Template File: [Download](#)
File Category: ☒ Static ☐ Dynamic Per-Type ☐ Dynamic Per-Device
File Customization: [Administrator](#)
☒ Enable caching

Assign File
☐ Manual
☒ Custom
Upload File: [Choose File](#) No file chosen

Currently using configuration file: [/var/broadworks/tpDeviceConfig/type/Cisco-CP-78xx-88xx-68xx-3PCC/sip78xx.11-1-1MPP-897.loads.template](#)

***** Temporary File *****
The Content of this file should be obtained from the vendor.

File Authentication
Authentication Mode: ☐ MAC-Based ☐ User Name and Password
MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
MAC Address Format:
Device Access HTTP Authentication: ☒ Basic ☐ Digest
Allowed Access Protocols: ☒ http ☒ https ☒ ttp

OK Apply Delete Cancel

Figure 99 Static Load File

Note that Cisco MPP Series also requires the following static files. Download the files from the above links.

- [kernel6821.12-0-6MPP0001-65.sbn](#)
- [miniroot6821.12-0-6MPP0001-65.sbn](#)
- [prelo6821.AL128m-01-03P.sbn](#)
- [rootfs6821.12-0-6MPP0001-65.sbn](#)
- [sboot6821.AL-01-10P.sbn](#)
- [kernel2.68xx.12-0-6MPP0001-65.sbn](#)
- [kernel2.6861.12-0-6MPP0001-65.sbn](#)
- [kernel2.6871.12-0-6MPP0001-65.sbn](#)
- [rootfs2.68xx.12-0-6MPP0001-65.sbn](#)
- [rootfs2.6861.12-0-6MPP0001-65.sbn](#)
- [rootfs2.6871.12-0-6MPP0001-65.sbn](#)
- [sboot2.68xx.12-0-6MPP0001-65.sbn](#)
- [sboot2.6861.12-0-6MPP0001-65.sbn](#)
- [sboot2.6871.12-0-6MPP0001-65.sbn](#)

- kernel2.78xx.12-0-6MPP0001-65.sbn
- rootfs2.78xx.12-0-6MPP0001-65.sbn
- sboot2.78xx.12-0-6MPP0001-65.sbn
- kernel7832.12-0-6MPP0001-65.sbn
- prelo7832.BR-01-06P.sbn
- rootfs7832.12-0-6MPP0001-65.sbn
- sboot7832.BR-01-11P.sbn
- boot1288xx.BE-01-007P.sbn
- fbi88xx.BE-01-011P.sbn
- kern88xx.12-0-6MPP0001-65.sbn
- kernel288xx.12-0-6MPP0001-65.sbn
- kernel388xx.12-0-6MPP0001-65.sbn
- m0patch288xx.BE-01-001P.sbn
- preloader88xx.BE-01-008P.sbn
- rootfs88xx.12-0-6MPP0001-65.sbn
- rootfs288xx.12-0-6MPP0001-65.sbn
- rootfs388xx.12-0-6MPP0001-65.sbn
- sb288xx.BE-01-028P.sbn
- sb2288xx.BE-01-015P.sbn
- sb2388xx.BE-01-032P.sbn
- ssb288xx.BE-01-007P.sbn
- vc488xx.12-0-6MPP0001-65.sbn
- fbi8845_65.BEV-01-006P.sbn
- kern8845_65.12-0-6MPP0001-65.sbn
- rootfs8845_65.12-0-6MPP0001-65.sbn
- sb28845_65.BEV-01-020P.sbn
- vc48845_65.12-0-6MPP0001-65.sbn
- firmware28832.12-0-6MPP0001-65.sbn
- kernel8832.12-0-6MPP0001-65.sbn
- kernel28832.12-0-6MPP0001-65.sbn
- key28832.12-0-6MPP0001-65.sbn
- loader8832.VO-01-004P.sbn
- loader28832.VO0-00-003P.sbn
- oemloader28832.12-0-6MPP0001-65.sbn
- rootfs8832.12-0-6MPP0001-65.sbn
- rootfs28832.12-0-6MPP0001-65.sbn

- sb28832.VO-01-015P.sbn
- sb228832.12-0-6MPP0001-65.sbn
- trustzone28832.12-0-6MPP0001-65.sbn

Note that the Cisco Desk Phone 9800 Series also requires the following static files.
Download the files from the above links.

- kernel-9841_51.3-2-1-0002-28.sbn
- PHONEOS-9861.3-2-1-0002-28.pkg
- PHONEOS-9871.3-2-1-0002-28.pkg
- preloader-9841_51.EM-01-007.sbn
- rootfs-9841_51.3-2-1-0002-28.sbn
- sb2-9841_51.EM-01-037.sbn

5.2.2.2.5 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-12.0.6.0002.ttf (Arabic)
- ar-SA_78xx_68xx-12.0.6.0002.xml (Arabic)
- ar-SA_78xx_BMP-12.0.6.0002.ttf (Arabic)
- ar-SA_6821-12.0.6.0002.ttf (Arabic)
- ar-SA_6821-12.0.6.0002.xml (Arabic)
- ar-SA_6861-12.0.6.0002.ttf (Arabic)
- bg-BG_78xx_68xx-12.0.6.0002.xml (Bulgarian)
- bg-BG_6821-12.0.6.0002.xml (Bulgarian)
- ca-ES_78xx_68xx-12.0.6.0002.xml (Catalan-Spain)
- ca-ES_6821-12.0.6.0002.xml (Catalan-Spain)
- cs-CZ_78xx_68xx-12.0.6.0002.xml (Czech)
- cs-CZ_6821-12.0.6.0002.xml (Czech)
- da-DK_78xx_68xx-12.0.6.0002.xml (Dutch)
- da-DK_6821-12.0.6.0002.xml (Dutch)
- de-DE_78xx_68xx-12.0.6.0002.xml (German)
- de-DE_6821-12.0.6.0002.xml (German)
- el-GR_78xx_68xx-12.0.6.0002.xml (Greek)
- el-GR_6821-12.0.6.0002.xml (Greek)

- en-GB_78xx_68xx-12.0.6.0002.xml (English-UK)
- en-GB_6821-12.0.6.0002.xml (English-UK)
- en-US_78xx_68xx-12.0.6.0002.xml (English-US)
- en-US_6821-12.0.6.0002.xml (English-US)
- es-CO_78xx_68xx-12.0.6.0002.xml (Spanish-Colombia)
- es-CO_6821-12.0.6.0002.xml (Spanish-Colombia)
- es-ES_78xx_68xx-12.0.6.0002.xml (Spanish-Spain)
- es-ES_6821-12.0.6.0002.xml (Spanish-Spain)
- fi-FI_78xx_68xx-12.0.6.0002.xml (Finnish)
- fi-FI_6821-12.0.6.0002.xml (Finnish)
- fr-CA_78xx_68xx-12.0.6.0002.xml (French-Canada)
- fr-CA_6821-12.0.6.0002.xml (French-Canada)
- fr-FR_78xx_68xx-12.0.6.0002.xml (French)
- fr-FR_6821-12.0.6.0002.xml (French)
- he-IL_78xx_68xx-12.0.6.0002.ttf (Hebrew)
- he-IL_78xx_BMP-12.0.6.0002.ttf (Hebrew)
- he-IL_78xx_68xx-12.0.6.0002.xml (Hebrew)
- he-IL_6821-12.0.6.0002.ttf (Hebrew)
- he-IL_6821-12.0.6.0002.xml (Hebrew)
- he-IL_6861-12.0.6.0002.ttf (Hebrew)
- hr_HR_78xx_68xx-12.0.6.0002.xml (Croatia)
- hr_HR_6821-12.0.6.0002.xml (Croatia)
- hu-HU_78xx_68xx-12.0.6.0002.xml (Hungarian)
- hu-HU_6821-12.0.6.0002.xml (Hungarian)
- it-IT_78xx_68xx-12.0.6.0002.xml (Italian)
- it-IT_6821-12.0.6.0002.xml (Italian)
- ja-JP_78xx_68xx-12.0.6.0002.ttf (Japanese)
- ja-JP_78xx_68xx-12.0.6.0002.xml (Japanese)
- ja-JP_78xx_BMP-12.0.6.0002.ttf (Japanese)
- ja-JP_6821-12.0.6.0002.ttf (Japanese)
- ja-JP_6821-12.0.6.0002.xml (Japanese)
- ja-JP_6861-12.0.6.0002.ttf (Japanese)
- ko-KR_78xx_BMP-12.0.6.0002.ttf (Korean)
- ko-KR_78xx_68xx-12.0.6.0002.ttf (Korean)
- ko-KR_78xx_68xx-12.0.6.0002.xml (Korean)
- ko-KR_6821-12.0.6.0002.ttf (Korean)

- ko-KR_6861-12.0.6.0002.ttf (Korean)
- ko-KR_6821-12.0.6.0002.xml (Korean)
- nb-NO_78xx_68xx-12.0.6.0002.xml (Norwegian)
- nb-NO_6821-12.0.6.0002.xml (Norwegian)
- nl-NL_78xx_68xx-12.0.6.0002.xml (Netherlands)
- nl-NL_6821-12.0.6.0002.xml (Netherlands)
- pl-PL_78xx_68xx-12.0.6.0002.xml (Polish)
- pl-PL_6821-12.0.6.0002.xml (Polish)
- pt-PT_78xx_68xx-12.0.6.0002.xml (Portuguese)
- pt-PT_6821-12.0.6.0002.xml (Portuguese)
- ru-RU_78xx_68xx-12.0.6.0002.xml (Russian)
- ru-RU_6821-12.0.6.0002.xml (Russian)
- sk-SK_78xx_68xx-12.0.6.0002.xml (Slovakian)
- sk-SK_6821-12.0.6.0002.xml (Slovakian)
- sl-SI_78xx_68xx-12.0.6.0002.xml (Slovenian)
- sl-SI_6821-12.0.6.0002.xml (Slovenian)
- sv-SE_78xx_68xx-12.0.6.0002.xml (Swedish)
- sv-SE_6821-12.0.6.0002.xml (Swedish)
- tr-TR_78xx_68xx-12.0.6.0002.xml (Turkey)
- tr-TR_6821-12.0.6.0002.xml (Turkey)
- uk-UA_78xx_68xx-12.0.6.0002.xml (Ukraine)
- uk-UA_6821-12.0.6.0002.xml (Ukraine)
- zh-CN_78xx_68xx-12.0.6.0002.ttf (Mandarin)
- zh-CN_78xx_68xx-12.0.6.0002.xml (Mandarin)
- zh-CN_78xx_BMP-12.0.6.0002.ttf (Mandarin)
- zh-CN_6821-12.0.6.0002.ttf (Mandarin)
- zh-CN_6821-12.0.6.0002.xml (Mandarin)
- zh-CN_6861-12.0.6.0002.ttf (Mandarin)
- zh-HK_78xx_68xx-12.0.6.0002.ttf ((Cantonese)
- zh-HK_78xx_68xx-12.0.6.0002.xml (Cantonese)
- zh-HK_78xx_BMP-12.0.6.0002.ttf (Cantonese)
- zh-HK_6821-12.0.6.0002.xml (Cantonese)
- zh-HK_6821-12.0.6.0002.ttf (Cantonese)
- zh-HK_6861-12.0.6.0002.ttf (Cantonese)

The following are example language files for 88xx:

- ar-SA_88xx-12.0.6.0002.ttf (Arabic)

- ar-SA_88xx-12.0.6.0002.xml (Arabic)
- bg-BG_88xx-12.0.6.0002.xml (Bulgarian)
- ca-ES_88xx-12.0.6.0002.xml (Catalan-Spain)
- cs-CZ_88xx-12.0.6.0002.xml (Czech)
- cs-DZ_88xx-12.0.6.0002.xml (Czech)
- da-DK_88xx-12.0.6.0002.xml (Dutch)
- de-DE_88xx-12.0.6.0002.xml (German)
- el-GR_88xx-12.0.6.0002.xml (Greek)
- en-GB_88xx-12.0.6.0002.xml (English-UK)
- en-US_88xx-12.0.6.0002.xml (English-US)
- es-CO_88xx-12.0.6.0002.xml (Spanish)
- es-ES_88xx-12.0.6.0002.xml (Spanish-Spain)
- fi-FI_88xx-12.0.6.0002.xml (Finnish)
- fr-CA_88xx-12.0.6.0002.xml (French-Canada)
- fr-FR_88xx-12.0.6.0002.xml (French)
- he-IL_88xx-12.0.6.0002.ttf (Hebrew)
- he-IL_88xx-12.0.6.0002.xml (Hebrew)
- hr_HR_88xx-12.0.6.0002.xml (Croatia)
- hu-HU_88xx-12.0.6.0002.xml (Hungarian)
- it-IT_88xx-12.0.6.0002.xml (Italian)
- ja-JP_88xx-12.0.6.0002.ttf (Japanese)
- ja-JP_88xx-12.0.6.0002.xml (Japanese)
- ko-KR_88xx-12.0.6.0002.ttf (Korean)
- ko-KR_88xx-12.0.6.0002.xml (Korean)
- nb-NO_88xx-12.0.6.0002.xml (Norwegian)
- nl-NL_88xx-12.0.6.0002.xml (Netherlands)
- pl-PL_88xx-12.0.6.0002.xml (Polish)
- pt-PT_88xx-12.0.6.0002.xml (Portuguese)
- ru-RU_88xx-12.0.6.0002.xml (Russian)
- sk-SK_88xx-12.0.6.0002.xml (Slovakian)
- sl-SI_88xx-12.0.6.0002.xml (Slovenian)
- sv-SE_88xx-12.0.6.0002.xml (Swedish)
- tr-TR_88xx-12.0.6.0002.xml (Turkey)
- uk-UA_88xx-12.0.6.0002.xml (Ukraine)
- zh-CN_88xx-12.0.6.0002.ttf (Mandarin)
- zh-CN_88xx-12.0.6.0002.xml (Mandarin)

- zh-HK_88xx-12.0.6.0002.ttf (Cantonese)
- zh-HK_88xx-12.0.6.0002.xml (Cantonese)

The following are example language files for Cisco Video Phone 8875 and Cisco Desk Phone 9800 Series:

- ar-SA_8875_9861_9871-3.2.1.0011.xml (Arabic)
- ar-SA_9841_9851-3.2.1.0011 (Arabic)
- ca-ES_9841_9851-3.2.1.0011.xml (Catalan-Spain)
- ca-ES_8875_9861_9871-3.2.1.0011.xml (Catalan-Spain)
- cs-CZ_9841_9851-3.2.1.0011.xml (Czech)
- cs-CZ_8875_9861_9871-3.2.1.0011.xml (Czech)
- da-DK_9841_9851-3.2.1.0011.xml (Dutch)
- da-DK_8875_9861_9871-3.2.1.0011.xml (Dutch)
- de-DE_9841_9851-3.2.1.0011.xml (German)
- de-DE_8875_9861_9871-3.2.1.0011.xml (German)
- el-GR_9841_9851-3.2.1.0011.xml (Greek)
- el-GR_8875_9861_9871-3.2.1.0011.xml (Greek)
- en-GB_9841_9851-3.2.1.0011.xml (English-UK)
- en-GB_8875_9861_9871-3.2.1.0011.xml (English-UK)
- en-US_9841_9851-3.2.1.0011.xml (English-US)
- en-US_8875_9861_9871-3.2.1.0011.xml (English-US)
- es-CO_9841_9851-3.2.1.0011.xml (Spanish-Colombia)
- es-CO_8875_9861_9871-3.2.1.0011.xml (Spanish-Colombia)
- es-ES_9841_9851-3.2.1.0011.xml (Spanish-Spain)
- es-ES_8875_9861_9871-3.2.1.0011.xml (Spanish-Spain)
- fi-FI_9841_9851-3.2.1.0011.xml (Finnish)
- fi-FI_8875_9861_9871-3.2.1.0011.xml (Finnish)
- fr-CA_9841_9851-3.2.1.0011.xml (French-Canada)
- fr-CA_8875_9861_9871-3.2.1.0011.xml (French-Canada)
- fr-FR_9841_9851-3.2.1.0011.xml (French)
- fr-FR_8875_9861_9871-3.2.1.0011.xml (French)
- hu-HU_9841_9851-3.2.1.0011.xml (Hungarian)
- hu-HU_8875_9861_9871-3.2.1.0011.xml (Hungarian)
- it-IT_9841_9851-3.2.1.0011.xml (Italian)
- it-IT_8875_9861_9871-3.2.1.0011.xml (Italian)
- ja-JP_9841_9851-3.2.1.0011.xml (Japanese)
- ja-JP_8875_9861_9871-3.2.1.0011.xml (Japanese)
- ja-JP_9841_9851-3.2.1.0011.ttf (Japanese)

- ja-JP_8875_9861_9871-3.2.1.0011.ttf (Japanese)
- ko-KR_9841_9851-3.2.1.0011.xml (Korean)
- ko-KR_8875_9861_9871-3.2.1.0011.xml (Korean)
- ko-KR_9841_9851-3.2.1.0011.ttf (Korean)
- ko-KR_8875_9861_9871-3.2.1.0011.ttf (Korean)
- nb-NO_9841_9851-3.2.1.0011.xml (Norwegian)
- nb-NO_8875_9861_9871-3.2.1.0011.xml (Norwegian)
- nl-NL_9841_9851-3.2.1.0011.xml (Dutch-Netherlands)
- nl-NL_8875_9861_9871-3.2.1.0011.xml (Dutch-Netherlands)
- pl-PL_9841_9851-3.2.1.0011.xml (Polish)
- pl-PL_8875_9861_9871-3.2.1.0011.xml (Polish)
- pt-BR_9841_9851-3.2.1.0011.xml (Portuguese-Brazil)
- pt-BR_8875_9861_9871-3.2.1.0011.xml (Portuguese-Brazil)
- pt-PT_9841_9851-3.2.1.0011.xml (Portuguese-Portugal)
- pt-PT_8875_9861_9871-3.2.1.0011.xml (Portuguese-Portugal)
- ru-RU_9841_9851-3.2.1.0011.xml (Russian)
- ru-RU_8875_9861_9871-3.2.1.0011.xml (Russian)
- sv-SE_9841_9851-3.2.1.0011.xml (Swedish)
- sv-SE_8875_9861_9871-3.2.1.0011.xml (Swedish)
- tr-TR_9841_9851-3.2.1.0011.xml (Turkish)
- tr-TR_8875_9861_9871-3.2.1.0011.xml (Turkish)
- uk-UA_9841_9851-3.2.1.0011.xml (Ukrainian)
- uk-UA_8875_9861_9871-3.2.1.0011.xml (Ukrainian)
- zh-CN_9841_9851-3.2.1.0011.xml (Mandarin)
- zh-CN_8875_9861_9871-3.2.1.0011.xml (Mandarin)
- zh-CN_9841_9851-3.2.1.0011.ttf (Mandarin)
- zh-CN_8875_9861_9871-3.2.1.0011.ttf (Mandarin)
- zh-HK_9841_9851-3.2.1.0011.xml (Cantonese)
- zh-HK_8875_9861_9871-3.2.1.0011.xml (Cantonese)
- zh-HK_9841_9851-3.2.1.0011.ttf (Cantonese)
- zh-HK_8875_9861_9871-3.2.1.0011.ttf (Cantonese)
- zh-TW_9841_9851-3.2.1.0011.xml (Chinese-Taiwan)
- zh-TW_8875_9861_9871-3.2.1.0011.xml (Chinese-Taiwan)
- zh-TW_9841_9851-3.2.1.0011.ttf (Chinese-Taiwan)
- zh-TW_8875_9861_9871-3.2.1.0011.ttf (Chinese-Taiwan)

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.

Identity/Device Profile Type File Modify

Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access File Format: ca-ES_6821-11.2.3.0009.xml
 Repository File Format: ca-ES_6821-11.2.3.0009.xml
 Access File: http://xsp.10p1.broadworks.net:80/dms/CP-78-88-68-3PCC/ca-ES_6821-11.2.3.0009.xml
 Repository File: [Download](#)
 Template File: [Download](#)
 File Category: ☒ Static ☐ Dynamic Per-Type ☐ Dynamic Per-Device
 File Customization:
☒ Enable caching

Assign File
☐ Manual
☒ Custom
 Upload File: No file chosen

Currently using configuration file: /var/broadworks/lpDeviceConfig/type/Cisco-CP-78xx-88xx-68xx-3PCC/ca-ES_6821-11.2.3.0009.xml.template

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Max number of parsable phrases is capped at 4096 in csstringrepo.c -->
<phrases>
<trkLocaleName>AnglÃ's_Estats_Units</trkLocaleName>
<trkBaseClearcaseVersion></trkBaseClearcaseVersion>
<trkTranslationVersion></trkTranslationVersion>

<!-- ##### Conference Microphones ##### -->

<phrase i="L_WirelessPairing_info" t="Manteniu premuda la tecla de silenci al
```

File Authentication
 Authentication Mode: ☐ MAC-Based ☐ User Name and Password
 MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
 MAC Address Format:
 Device Access HTTP Authentication: ☒ Basic ☐ Digest
 Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Figure 100 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.

Info Voice Call History Personal Directory

System SIP Provisioning **Register** Phone Ext 1 Ext 2 Ext 3 Ext 4 User All Configs TR 000

Feature Dial Services Codes

Vertical Service Announcement Codes
 Service Area Base Number
 Service Area Extension Codes

Outbound Call Codes Selection Codes

Prefix	OT11a Code	OT11b Code	OT11c Code	OT11d Code	OT11e Code	OT11f Code	OT11g Code	OT11h Code	OT11i Code	OT11j Code	OT11k Code	OT11l Code	OT11m Code	OT11n Code	OT11o Code	OT11p Code	OT11q Code	OT11r Code	OT11s Code	OT11t Code	OT11u Code	OT11v Code	OT11w Code	OT11x Code	OT11y Code	OT11z Code
Prefix OT11a Code	Y07110	Y07111	Y07112	Y07113	Y07114	Y07115	Y07116	Y07117	Y07118	Y07119	Y07120	Y07121	Y07122	Y07123	Y07124	Y07125	Y07126	Y07127	Y07128	Y07129	Y07130	Y07131	Y07132	Y07133	Y07134	Y07135
Prefix OT11b Code	Y07136	Y07137	Y07138	Y07139	Y07140	Y07141	Y07142	Y07143	Y07144	Y07145	Y07146	Y07147	Y07148	Y07149	Y07150	Y07151	Y07152	Y07153	Y07154	Y07155	Y07156	Y07157	Y07158	Y07159	Y07160	
Prefix OT11c Code	Y07161	Y07162	Y07163	Y07164	Y07165	Y07166	Y07167	Y07168	Y07169	Y07170	Y07171	Y07172	Y07173	Y07174	Y07175	Y07176	Y07177	Y07178	Y07179	Y07180	Y07181	Y07182	Y07183	Y07184	Y07185	
Prefix OT11d Code	Y07186	Y07187	Y07188	Y07189	Y07190	Y07191	Y07192	Y07193	Y07194	Y07195	Y07196	Y07197	Y07198	Y07199	Y07200	Y07201	Y07202	Y07203	Y07204	Y07205	Y07206	Y07207	Y07208	Y07209	Y07210	
Prefix OT11e Code	Y07211	Y07212	Y07213	Y07214	Y07215	Y07216	Y07217	Y07218	Y07219	Y07220	Y07221	Y07222	Y07223	Y07224	Y07225	Y07226	Y07227	Y07228	Y07229	Y07230	Y07231	Y07232	Y07233	Y07234	Y07235	
Prefix OT11f Code	Y07236	Y07237	Y07238	Y07239	Y07240	Y07241	Y07242	Y07243	Y07244	Y07245	Y07246	Y07247	Y07248	Y07249	Y07250	Y07251	Y07252	Y07253	Y07254	Y07255	Y07256	Y07257	Y07258	Y07259	Y07260	
Prefix OT11g Code	Y07261	Y07262	Y07263	Y07264	Y07265	Y07266	Y07267	Y07268	Y07269	Y07270	Y07271	Y07272	Y07273	Y07274	Y07275	Y07276	Y07277	Y07278	Y07279	Y07280	Y07281	Y07282	Y07283	Y07284	Y07285	
Prefix OT11h Code	Y07286	Y07287	Y07288	Y07289	Y07290	Y07291	Y07292	Y07293	Y07294	Y07295	Y07296	Y07297	Y07298	Y07299	Y07300	Y07301	Y07302	Y07303	Y07304	Y07305	Y07306	Y07307	Y07308	Y07309	Y07310	
Prefix OT11i Code	Y07311	Y07312	Y07313	Y07314	Y07315	Y07316	Y07317	Y07318	Y07319	Y07320	Y07321	Y07322	Y07323	Y07324	Y07325	Y07326	Y07327	Y07328	Y07329	Y07330	Y07331	Y07332	Y07333	Y07334	Y07335	
Prefix OT11j Code	Y07336	Y07337	Y07338	Y07339	Y07340	Y07341	Y07342	Y07343	Y07344	Y07345	Y07346	Y07347	Y07348	Y07349	Y07350	Y07351	Y07352	Y07353	Y07354	Y07355	Y07356	Y07357	Y07358	Y07359	Y07360	
Prefix OT11k Code	Y07361	Y07362	Y07363	Y07364	Y07365	Y07366	Y07367	Y07368	Y07369	Y07370	Y07371	Y07372	Y07373	Y07374	Y07375	Y07376	Y07377	Y07378	Y07379	Y07380	Y07381	Y07382	Y07383	Y07384	Y07385	
Prefix OT11l Code	Y07386	Y07387	Y07388	Y07389	Y07390	Y07391	Y07392	Y07393	Y07394	Y07395	Y07396	Y07397	Y07398	Y07399	Y07400	Y07401	Y07402	Y07403	Y07404	Y07405	Y07406	Y07407	Y07408	Y07409	Y07410	
Prefix OT11m Code	Y07411	Y07412	Y07413	Y07414	Y07415	Y07416	Y07417	Y07418	Y07419	Y07420	Y07421	Y07422	Y07423	Y07424	Y07425	Y07426	Y07427	Y07428	Y07429	Y07430	Y07431	Y07432	Y07433	Y07434	Y07435	
Prefix OT11n Code	Y07436	Y07437	Y07438	Y07439	Y07440	Y07441	Y07442	Y07443	Y07444	Y07445	Y07446	Y07447	Y07448	Y07449	Y07450	Y07451	Y07452	Y07453	Y07454	Y07455	Y07456	Y07457	Y07458	Y07459	Y07460	
Prefix OT11o Code	Y07461	Y07462	Y07463	Y07464	Y07465	Y07466	Y07467	Y07468	Y07469	Y07470	Y07471	Y07472	Y07473	Y07474	Y07475	Y07476	Y07477	Y07478	Y07479	Y07480	Y07481	Y07482	Y07483	Y07484	Y07485	
Prefix OT11p Code	Y07486	Y07487	Y07488	Y07489	Y07490	Y07491	Y07492	Y07493	Y07494	Y07495	Y07496	Y07497	Y07498	Y07499	Y07500	Y07501	Y07502	Y07503	Y07504	Y07505	Y07506	Y07507	Y07508	Y07509	Y07510	
Prefix OT11q Code	Y07511	Y07512	Y07513	Y07514	Y07515	Y07516	Y07517	Y07518	Y07519	Y07520	Y07521	Y07522	Y07523	Y07524	Y07525	Y07526	Y07527	Y07528	Y07529	Y07530	Y07531	Y07532	Y07533	Y07534	Y07535	
Prefix OT11r Code	Y07536	Y07537	Y07538	Y07539	Y07540	Y07541	Y07542	Y07543	Y07544	Y07545	Y07546	Y07547	Y07548	Y07549	Y07550	Y07551	Y07552	Y07553	Y07554	Y07555	Y07556	Y07557	Y07558	Y07559	Y07560	
Prefix OT11s Code	Y07561	Y07562	Y07563	Y07564	Y07565	Y07566	Y07567	Y07568	Y07569	Y07570	Y07571	Y07572	Y07573	Y07574	Y07575	Y07576	Y07577	Y07578	Y07579	Y07580	Y07581	Y07582	Y07583	Y07584	Y07585	
Prefix OT11t Code	Y07586	Y07587	Y07588	Y07589	Y07590	Y07591	Y07592	Y07593	Y07594	Y07595	Y07596	Y07597	Y07598	Y07599	Y07600	Y07601	Y07602	Y07603	Y07604	Y07605	Y07606	Y07607	Y07608	Y07609	Y07610	
Prefix OT11u Code	Y07611	Y07612	Y07613	Y07614	Y07615	Y07616	Y07617	Y07618	Y07619	Y07620	Y07621	Y07622	Y07623	Y07624	Y07625	Y07626	Y07627	Y07628	Y07629	Y07630	Y07631	Y07632	Y07633	Y07634	Y07635	
Prefix OT11v Code	Y07636	Y07637	Y07638	Y07639	Y07640	Y07641	Y07642	Y07643	Y07644	Y07645	Y07646	Y07647	Y07648	Y07649	Y07650	Y07651	Y07652	Y07653	Y07654	Y07655	Y07656	Y07657	Y07658	Y07659	Y07660	
Prefix OT11w Code	Y07661	Y07662	Y07663	Y07664	Y07665	Y07666	Y07667	Y07668	Y07669	Y07670	Y07671	Y07672	Y07673	Y07674	Y07675	Y07676	Y07677	Y07678	Y07679	Y07680	Y07681	Y07682	Y07683	Y07684	Y07685	
Prefix OT11x Code	Y07686	Y07687	Y07688	Y07689	Y07690	Y07691	Y07692	Y07693	Y07694	Y07695	Y07696	Y07697	Y07698	Y07699	Y07700	Y07701	Y07702	Y07703	Y07704	Y07705	Y07706	Y07707	Y07708	Y07709	Y07710	
Prefix OT11y Code	Y07711	Y07712	Y07713	Y07714	Y07715	Y07716	Y07717	Y07718	Y07719	Y07720	Y07721	Y07722	Y07723	Y07724	Y07725	Y07726	Y07727	Y07728	Y07729	Y07730	Y07731	Y07732	Y07733	Y07734	Y07735	
Prefix OT11z Code	Y07736	Y07737	Y07738	Y07739	Y07740	Y07741	Y07742	Y07743	Y07744	Y07745	Y07746	Y07747	Y07748	Y07749	Y07750	Y07751	Y07752	Y07753	Y07754	Y07755	Y07756	Y07757	Y07758	Y07759	Y07760	

Time
 Set Local Date (mm/dd/yyyy):
 Time Zone: GMT-08:00
 Ignore DHCP Time Offset: Yes -
 Daylight Saving Time Rule: start=3/1/02,end=10/1/02,usast1
 Daylight Saving Time Enable: Yes -

Language
 Dictionary Server Script: serv=http://10.0.0.0:801/103dms/CP-78-88-68-3PCC/d1=Spanish,x1=ca-ES_78xx_88xx-11.1.1.1002.xml,
 Language Selection: Spanish
 Locale: ca-ES

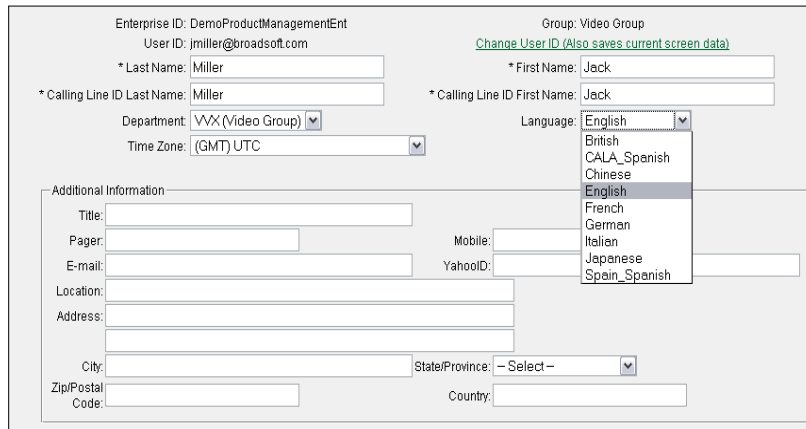
Figure 101 Language File – Language Selection

5.2.2.2.6.1 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.



The screenshot shows the 'Cisco BroadWorks User's Profile' page. At the top, it displays 'Enterprise ID: DemoProductManagementEnt' and 'User ID: jmillar@broadsoft.com'. Below this, there are fields for 'Last Name' (Miller), 'First Name' (Jack), 'Calling Line ID Last Name' (Miller), and 'Calling Line ID First Name' (Jack). The 'Department' is set to 'VXX (Video Group)' and the 'Time Zone' is '(GMT) UTC'. A 'Language' dropdown menu is open, showing options: English (selected), British, CALA_Spanish, Chinese, French, German, Italian, Japanese, and Spain_Spanish. Below the language menu, there is an 'Additional Information' section with fields for Title, Pager, E-mail, Location, Address, City, State/Province (a dropdown menu), Zip/Postal Code, Mobile, YahooID, and Country.

Figure 102 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 91](#) example.

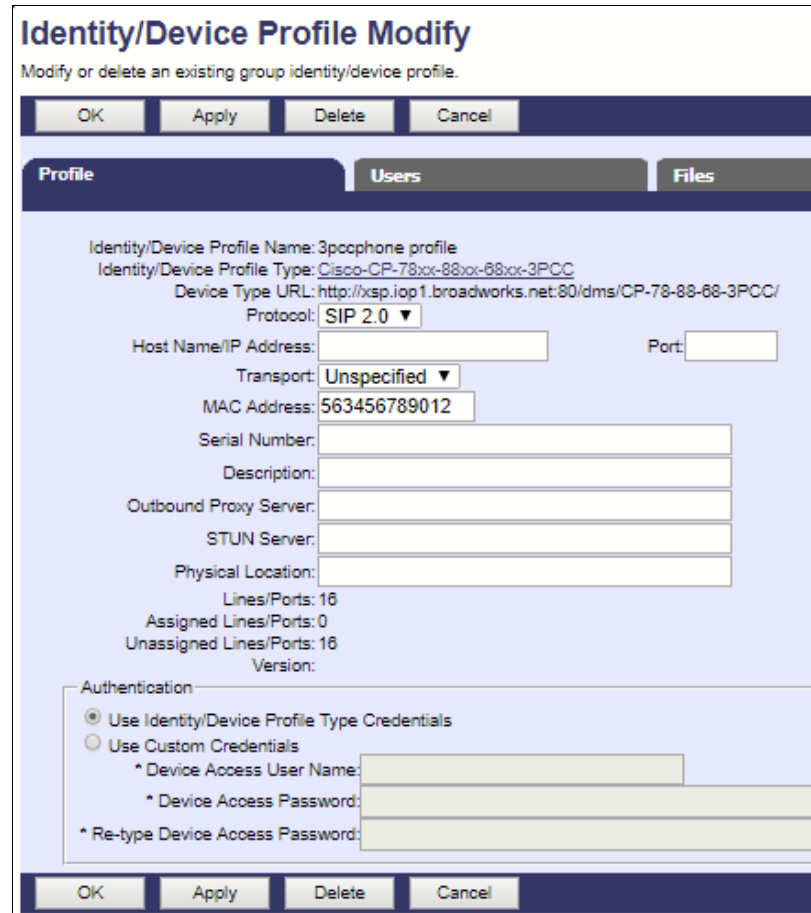


Figure 103 Device Profile Instance

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.

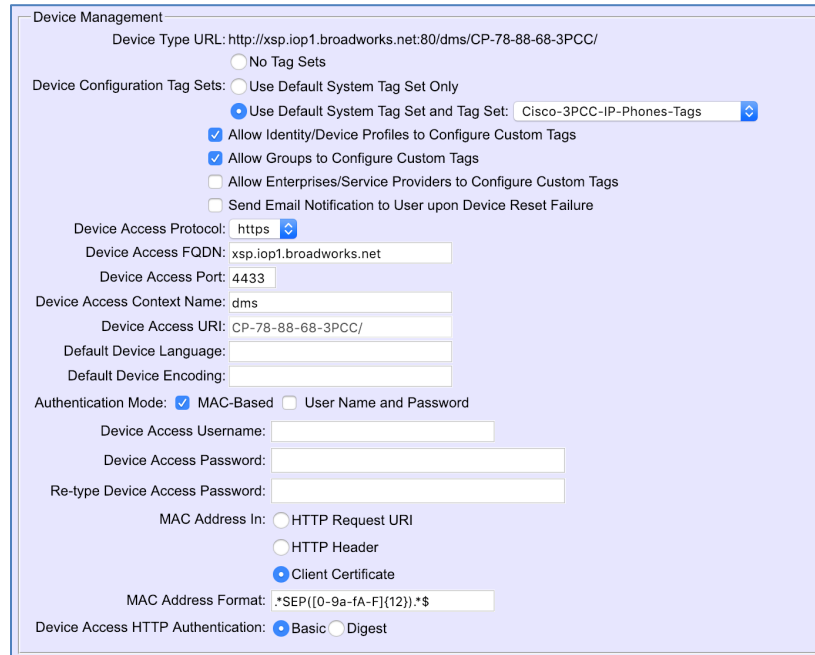


Figure 104 Device Profile Type Update for MAC-Based Auth Using Client Certificate

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}).*\$

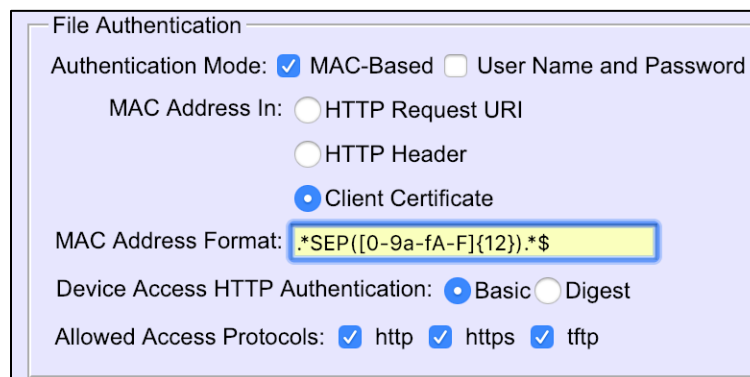


Figure 105 Authentication Mode set to MAC-Based and Sourced from Client Certificate

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: https://xsp-alpha.broadcloudpbx.net/CommPilot/Operator/System/DeviceType/Modify/index.jsp?key=Cisco-PhoneOS311-MPP1205-98-88-78-68xx&name=DeviceTeamReseller_r24	Configure Profile Rule field with DM URL address for downloading <i>CiscoDev-3PCC_Bootstrap.xml</i> .

- 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.

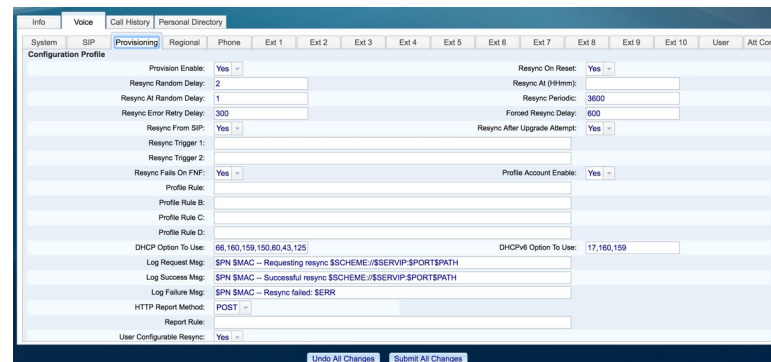


Figure 106 Example Update Screen

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.

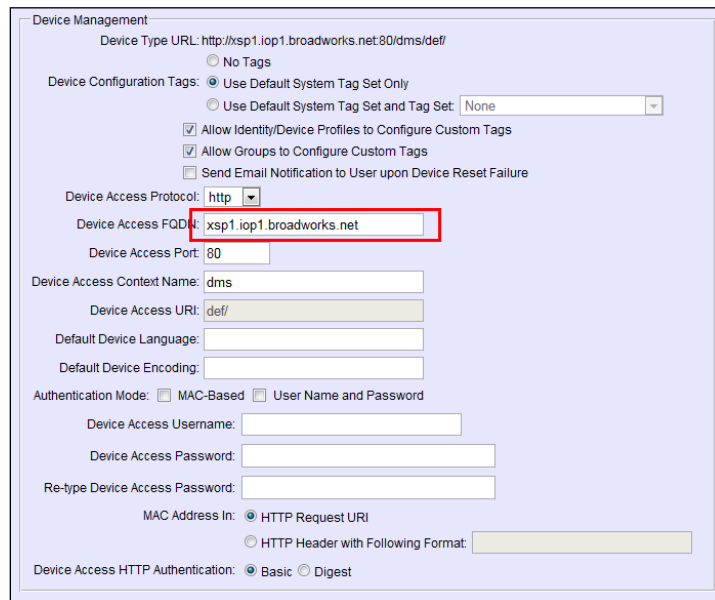
Download the Cisco MPP Series CPE kit from Cisco at cisco.com. Extract the *DeviceManagementDefaults.DTAF.zip* file from the CPE kit. This is the import file.

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:



The screenshot shows the 'Device Management' configuration page. The 'Device Type URL' is set to 'http://xsp1.iop1.broadworks.net:80/dms/def/'. Under 'Device Configuration Tags', 'Use Default System Tag Set Only' is selected. 'Allow Identity/Device Profiles to Configure Custom Tags' and 'Allow Groups to Configure Custom Tags' are checked. 'Device Access Protocol' is set to 'http'. The 'Device Access FQDN' field is highlighted with a red box and contains 'xsp1.iop1.broadworks.net'. Other fields include 'Device Access Port' (80), 'Device Access Context Name' (dms), 'Device Access URI' (def/), 'Default Device Language', 'Default Device Encoding', 'Authentication Mode' (MAC-Based and User Name and Password), 'Device Access Username', 'Device Access Password', 'Re-type Device Access Password', 'MAC Address In' (HTTP Request URI), and 'Device Access HTTP Authentication' (Basic).

Figure 107 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.

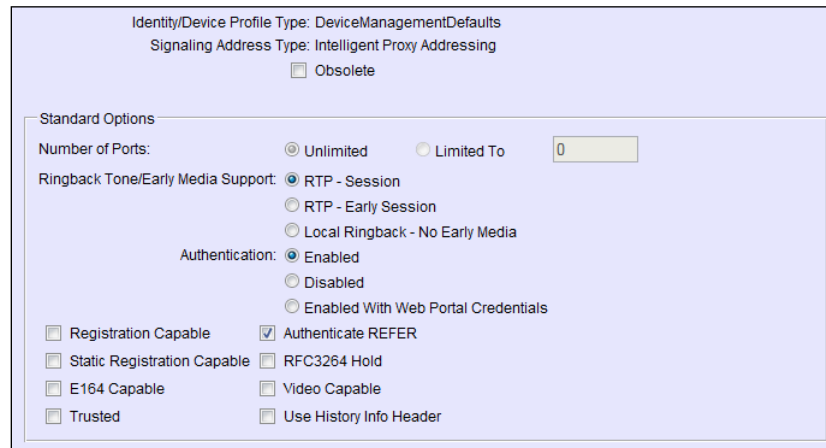
5.2.7.2.1.2.1 Create Default Device Profile Type

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.



Identity/Device Profile Type: DeviceManagementDefaults
 Signaling Address Type: Intelligent Proxy Addressing
☐ Obsolete

Standard Options

Number of Ports: ☒ Unlimited ☐ Limited To

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

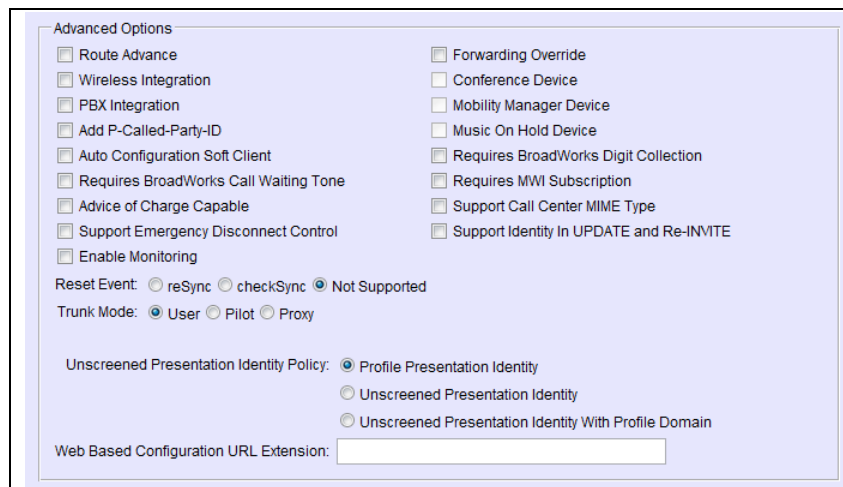
Authentication: ☒ Enabled
☐ Disabled
☐ Enabled With Web Portal Credentials

☐ Registration Capable ☒ Authenticate REFER
☐ Static Registration Capable ☐ RFC3264 Hold
☐ E164 Capable ☐ Video Capable
☐ Trusted ☐ Use History Info Header

Figure 108 Default Device Profile Type

5.2.7.2.1.2.1.2 Configure Advanced Options

All settings can be left with their default values.



Advanced Options

☐ Route Advance ☐ Forwarding Override
☐ Wireless Integration ☐ Conference Device
☐ PBX Integration ☐ Mobility Manager Device
☐ Add P-Called-Party-ID ☐ Music On Hold Device
☐ Auto Configuration Soft Client ☐ Requires BroadWorks Digit Collection
☐ Requires BroadWorks Call Waiting Tone ☐ Requires MWI Subscription
☐ Advice of Charge Capable ☐ Support Call Center MIME Type
☐ Support Emergency Disconnect Control ☐ Support Identity In UPDATE and Re-INVITE
☐ Enable Monitoring

Reset Event: ☐ reSync ☐ checkSync ☒ Not Supported

Trunk Mode: ☒ User ☐ Pilot ☐ Proxy

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

Web Based Configuration URL Extension:

Figure 109 Configure Advanced Options

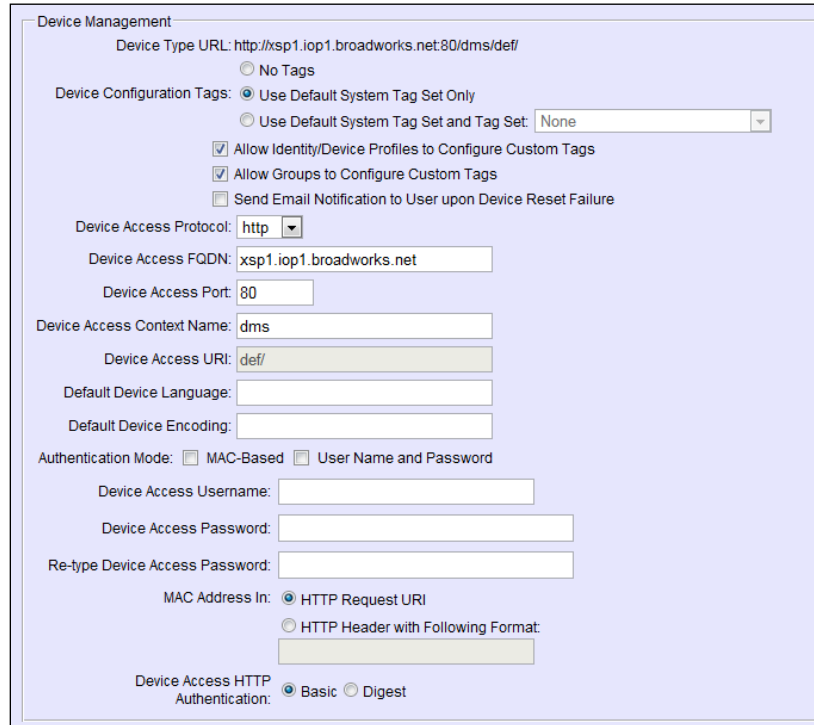
5.2.7.2.1.2.1.3 Configure Device Management Options

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:



Device Management

Device Type URL:

☐ No Tags

Device Configuration Tags: ☒ Use Default System Tag Set Only

☐ Use Default System Tag Set and Tag Set:

☒ Allow Identity/Device Profiles to Configure Custom Tags

☒ Allow Groups to Configure Custom Tags

☐ Send Email Notification to User upon Device Reset Failure

Device Access Protocol:

Device Access FQDN:

Device Access Port:

Device Access Context Name:

Device Access URI:

Default Device Language:

Default Device Encoding:

Authentication Mode: ☐ MAC-Based ☐ User Name and Password

Device Access Username:

Device Access Password:

Re-type Device Access Password:

MAC Address In: ☒ HTTP Request URI

☐ HTTP Header with Following Format:

Device Access HTTP Authentication: ☒ Basic ☐ Digest

Figure 110 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:

- *CiscoDev_Type6821.xml*
- *CiscoDev_Type68xx.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*
- *CiscoDev-3PCC_Bootstrap.xml*
- *CiscoDev_Type9841.xml*
- *CiscoDev_Type9851.xml*
- *CiscoDev_Type9861.xml*

■ CiscoDev_Type9871.xml

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



Identity/Device Profile Type File Modify
Modify or delete a file type defined in an Identity/Device Profile Type.

OK Apply Delete Cancel

Device Access File Format: 7841-3PCC.xml
Repository File Format: 7841-3PCC-%BWTIMESTAMP%.xml
Access File: <http://xsp1.iop1.broadworks.net/80/dms/def/7841-3PCC.xml>
Repository File: [Download](#)
Template File: [Download](#)
File Category: ☐ Static ☒ Dynamic Per-Type ☐ Dynamic Per-Device
File Customization: [Disallow](#)
☒ Enable caching

Assign File
☐ Manual
☒ Custom
Upload File: Browse...
Currently using configuration file: /var/broadworks/lpDeviceConfig/type/DeviceManagementDefaults/7841-3PCC.xml.template

```
<?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-->
```

File Authentication
Authentication Mode: ☐ MAC-Based ☐ User Name and Password
MAC Address In: ☒ HTTP Request URI
☐ HTTP Header
☐ Client Certificate
MAC Address Format:
Device Access HTTP Authentication: ☒ Basic ☐ Digest
Allowed Access Protocols: ☒ http ☒ https ☒ tftp

OK Apply Delete Cancel

Figure 111 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: [Cisco-PhoneOS311-MPP1205-98-88-78-68xx](#)

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://software.cisco.com/software/cda/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: CiscoDev-3PCC_Bootstrap.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">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_Delay>
        <Forced_Resync_Delay
ua="na">14400</Forced_Resync_Delay>
        <!-- Configuration Profile current -->

        <GPP_C
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
CEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%Cisco
Dev_Type9871.xml</GPP_C>
        <GPP_D
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
CEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%Cisco
Dev_Type9861.xml</GPP_D>
        <GPP_E
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
CEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%Cisco
Dev_Type9851.xml</GPP_E>
        <GPP_F
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
CEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%Cisco
Dev_Type9841.xml</GPP_F>
        <GPP_G
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
```

```

CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type8875.xml</GPP_G>
    <GPP_H
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type6871.xml</GPP_H>
    <GPP_I
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type6861.xml</GPP_I>
    <GPP_J
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type8832.xml</GPP_J>
    <GPP_K
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type78xx.xml</GPP_K>
    <GPP_L
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type7832.xml</GPP_L>
    <GPP_M
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type88xx.xml</GPP_M>
    <GPP_N
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type68xx.xml</GPP_N>
    <GPP_O
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type88x5.xml</GPP_O>
    <GPP_P
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_Type6821.xml</GPP_P>
    <Profile_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%%BWDEVI
CEACCESSPORT%%BWDMSCONTEXT%%BWDEVICEACCESSURI%Cisco
Dev_System.xml</Profile_Rule>
        <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 "8865NR-3PCC") ? $O | ($PSN eq "8875") ? $G
| ($PSN eq "8875NR") ? $G | ($PSN eq "9841") ? $F |
($PSN eq "9851") ? $E | ($PSN eq "9861") ? $D | ($PSN
eq "9861NR") ? $D | ($PSN eq "9871") ? $C | ($PSN eq
"9871NR") ? $C | $M</Profile Rule B>

```

```

    <Profile_Rule_C
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVI
CEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_C
iscoDev.xml</Profile_Rule_C>
    <!-- 3rd Party ROOT CA Settings:
(HTTP/SSL/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: CiscoDev_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>

  <!-- Supplementary Services -->
  <Secure_Call_Serv
ua="na">%SECURE_CALL_SERVICE%/Secure_Call_Serv>

  <!-- 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>

  <!-- NAT Support Parameters -->
  <ICE_STUN_Enable
ua="na">%ICE_STUN_ENABLED%/ICE_STUN_Enable>

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

  <!--
*****
-->
  <!-- Webex On-boarding, Directory and CallLog
-->
  <!--
*****
-->
  <!-- Optional: Webex Features Settings -->
  <Webex_Onboard_Enable
ua="na">%WEBEX_ONBOARD_ENABLE%/Webex_Onboard_Enable>
  <Webex_Directory_Enable
ua="na">%WEBEX_DIRECTORY_ENABLE%/Webex_Directory_Enable>
  <Webex_Directory_Name
ua="na">%WEBEX_DIRECTORY_NAME%/Webex_Directory_Name>

  <!-- 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>
  <Browse_Mode_Enable
ua="na">%BROWSE_MODE_ENABLE%/Browse_Mode_Enable>
  <Max_Display_Records
ua="na">%MAX_DISPLAY_RECORDS%/Max_Display_Records>
  <XsiDir_Individual_Mode_Enable
ua="na">%XSIDIR_INDIVIDUAL_MODE_ENABLE%/XsiDir_Individual_Mod
e_Enable>
  <XsiDir_Personal_Enable
ua="na">%XSIDIR_PERSONAL_ENABLE%/XsiDir_Personal_Enable>

```

```

        <XsiDir_Group_Enable
ua="na">%XSIDIR_GROUP_ENABLE%/XsiDir_Group_Enable>
        <XsiDir_Enterprise_Enable
ua="na">%XSIDIR_ENTERPRISE_ENABLE%/XsiDir_Enterprise_Enable>
        <XsiDir_GroupCommon_Enable
ua="na">%XSIDIR_GROUPCOMMON_ENABLE%/XsiDir_GroupCommon_Enable
>
        <XsiDir_EnterpriseCommon_Enable
ua="na">%XSIDIR_ENTERPRISECOMMON_ENABLE%/XsiDir_EnterpriseCom
mon_Enable>
        <XsiDir_Personal_Name
ua="na">%XSIDIR_ENTERPRISE_NAME%/XsiDir_Personal_Name>
        <XsiDir_Group_Name
ua="na">%XSIDIR_GROUP_NAME%/XsiDir_Group_Name>
        <XsiDir_Enterprise_Name
ua="na">%XSIDIR_ENTERPRISE_NAME%/XsiDir_Enterprise_Name>
        <XsiDir_GroupCommon_Name
ua="na">%XSIDIR_GROUPCOMMON_NAME%/XsiDir_GroupCommon_Name>
        <XsiDir_EnterpriseCommon_Name
ua="na">%XSIDIR_ENTERPRISECOMMON_NAME%/XsiDir_EnterpriseCommo
n_Name>
        <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>

        <!-- 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>

  <!-- Help Desk -->
  <Help_Desk_Enable
ua="na">%HELP_DESK_ENABLE%</Help_Desk_Enable>
  <Custom_Menu_Name
ua="na">%HELP_DESK_CUSTOM_MENU_NAME%</Custom_Menu_Name>
  <Quick_Number_0_Number
ua="na">%HELP_DESK_QUICK_NUMBER_0%</Quick_Number_0_Number>
  <Quick_Number_0_Name
ua="na">%HELP_DESK_NAME_0%</Quick_Number_0_Name>
  <Quick_Number_1_Number
ua="na">%HELP_DESK_QUICK_NUMBER_1%</Quick_Number_1_Number>
  <Quick_Number_1_Name
ua="na">%HELP_DESK_NAME_1%</Quick_Number_1_Name>
  <Quick_Number_2_Number
ua="na">%HELP_DESK_QUICK_NUMBER_2%</Quick_Number_2_Number>
  <Quick_Number_2_Name
ua="na">%HELP_DESK_NAME_2%</Quick_Number_2_Name>
  <Quick_Number_3_Number
ua="na">%HELP_DESK_QUICK_NUMBER_3%</Quick_Number_3_Number>
  <Quick_Number_3_Name
ua="na">%HELP_DESK_NAME_3%</Quick_Number_3_Name>
  <Quick_Number_4_Number
ua="na">%HELP_DESK_QUICK_NUMBER_4%</Quick_Number_4_Number>
  <Quick_Number_4_Name
ua="na">%HELP_DESK_NAME_4%</Quick_Number_4_Name>
  <Quick_Number_5_Number
ua="na">%HELP_DESK_QUICK_NUMBER_5%</Quick_Number_5_Number>
  <Quick_Number_5_Name
ua="na">%HELP_DESK_NAME_5%</Quick_Number_5_Name>

```

```

        <Quick_Number_6_Number
ua="na">%HELP_DESK_QUICK_NUMBER_6%/Quick_Number_6_Number>
        <Quick_Number_6_Name
ua="na">%HELP_DESK_NAME_6%/Quick_Number_6_Name>
        <Quick_Number_7_Number
ua="na">%HELP_DESK_QUICK_NUMBER_7%/Quick_Number_7_Number>
        <Quick_Number_7_Name
ua="na">%HELP_DESK_NAME_7%/Quick_Number_7_Name>
        <Quick_Number_8_Number
ua="na">%HELP_DESK_QUICK_NUMBER_8%/Quick_Number_8_Number>
        <Quick_Number_8_Name
ua="na">%HELP_DESK_NAME_8%/Quick_Number_8_Name>
        <Quick_Number_9_Number
ua="na">%HELP_DESK_QUICK_NUMBER_9%/Quick_Number_9_Number>
        <Quick_Number_9_Name
ua="na">%HELP_DESK_NAME_9%/Quick_Number_9_Name>

        <!-- Action Button -->
        <Action_Button_Function
ua="na">%ACTION_BUTTON_FUNCTION%/Action_Button_Function>
        <!-- available options: Emergency Call|Off -->
        <Action_Button_Service_Destination
ua="na">%ACTION_BUTTON_SERVICE_DEST%/Action_Button_Service_De
stination>
        <Service_Trigger
ua="na">%ACTION_BUTTON_SERVICE_TRIGGER%/Service_Trigger>
        <!-- available options: Single Press|Long Press|Press
3 times -->
        <Dial_Out_Delay
ua="na">%ACTION_BUTTON_DIAL_DELAY%/Dial_Out_Delay>
        <Silent_Emergency_Call
ua="na">%ACTION_BUTTON_SILENT_EMERGENCY_CALL%/Silent_Emergenc
y_Call>
        <!-- available options: Enabled|Disabled -->

        <!-- Office Hours -->
        <Office_Hours_Enabled
ua="na">%OFFICE_HOURS_ENABLED%/Office_Hours_Enabled>
        <!-- available options: False|True -->
        <Work_Days ua="na">%WORK_DAYS%/Work_Days>
        <!-- available options:
Saturday|Sunday|Monday|Tuesday|Wednesday|Thursday|Friday -->
        <Working_Hours_Start
ua="na">%WORKING_HOURS_START%/Working_Hours_Start>
        <Working_Hours_End
ua="na">%WORKING_HOURS_END%/Working_Hours_End>

        <!-- Outside Office Hours Deep Sleep -->
        <Deep_Sleep_Enabled
ua="na">%DEEP_SLEEP_ENABLED%/Deep_Sleep_Enabled>
        <!-- available options: False|Non-work Day Only|All
Days -->
        <Enable_Audible_Alert
ua="na">%ENABLE_AUDIBLE_ALERT_WHEN_DEEP_SLEEP%/Enable_Audible
_Alert>
        <!-- available options: False|True -->
        <Phone_On_Time_Before_Working_Hour_Start_mins_
ua="na">%PHONE_ON_TIME_BEFORE_WORKING_HOURS%/Phone_On_Time_Be
fore_Working_Hour_Start_mins_>
        <Phone_Off_Time_After_Working_Hour_End_mins_
ua="na">%PHONE_OFF_TIME_AFTER_WORKING_HOURS%/Phone_Off_Time_A
fter_Working_Hour_End_mins_>

```

```

        <Idle_Timeout_mins_
ua="na">%IDLE_TIMEOUT_FOR_DEEP_SLEEP_OUTSIDE_OFFICE_HOURS%/Id
le_Timeout_mins_>

        <!-- Outside Office Hours Display Off -->
        <Display_Off_Idle_Timeout_mins_
ua="na">%IDLE_TIMEOUT_FOR_DISPLAY_OFF_OUTSIDE_OFFICE_HOURS%/D
isplay_Off_Idle_Timeout_mins_>

        <!-- 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_>
    <Precondition_Support_1_
ua="na">%PRECONDITION_SUPPORT_1%/Precondition_Support_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_>
<Log_Missed_Calls_1_
ua="na">%LOG_MISSED_CALLS_1%</Log_Missed_Calls_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 -->
<Broadsoft_ACD_1_ ua="na">%BROADSOFT_ACD_ENABLE-
1%</Broadsoft_ACD_1_>
<ACD_Status_1_ ua="na">%ACD_STATUS_1%</ACD_Status_1_>
<Auto_Available_After_Sign-In_1_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_1%</Auto_Available_After_Sign-In_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_1_>
    <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_>
    <Precondition_Support_2_
ua="na">%PRECONDITION_SUPPORT_2%</Precondition_Support_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_>
    <Log_Missed_Calls_2_
ua="na">%LOG_MISSED_CALLS_2%</Log_Missed_Calls_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_Prefered_Codec_2_
ua="na">%SECOND_PREFERRED_CODEC%</Second_Prefered_Codec_2_>
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
<Third_Prefered_Codec_2_
ua="na">%THIRD_PREFERRED_CODEC%</Third_Prefered_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 -->
<Broadsoft_ACD_2_ ua="na">%BROADSOFT_ACD_ENABLE-
2%</Broadsoft_ACD_2_>
<ACD_Status_2_ ua="na">%ACD_STATUS_2%</ACD_Status_2_>
<Auto_Available_After_Sign-In_2_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_2%</Auto_Available_After_Sign-In_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_>
<Precondition_Support_3_
ua="na">%PRECONDITION_SUPPORT_3%</Precondition_Support_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_>

<Log_Missed_Calls_3_
ua="na">%LOG_MISSED_CALLS_3%</Log_Missed_Calls_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 -->
<Broadsoft_ACD_3_ ua="na">%BROADSOFT_ACD_ENABLE-
3%</Broadsoft_ACD_3_>
<ACD_Status_3_ ua="na">%ACD_STATUS_3%</ACD_Status_3_>
<Auto_Available_After_Sign-In_3_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_3%</Auto_Available_After_Sign-In_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_
        <Precondition_Support_4_
ua="na">%PRECONDITION_SUPPORT_4%</Precondition_Support_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_>
        <Log_Missed_Calls_4_
ua="na">%LOG_MISSED_CALLS_4%</Log_Missed_Calls_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 -->
        <Broadsoft_ACD_4_ ua="na">%BROADSOFT_ACD_ENABLE-
4%</Broadsoft_ACD_4_>
        <ACD_Status_4_ ua="na">%ACD_STATUS_4%</ACD_Status_4_>

```

```

        <Auto_Available_After_Sign-In_4_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_4%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_5_
ua="na">%PRECONDITION_SUPPORT_5%</Precondition_Support_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_>
        <Log_Missed_Calls_5_
ua="na">%LOG_MISSED_CALLS_5%</Log_Missed_Calls_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/G729ab/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 -->
        <Broadsoft_ACD_5_ ua="na">%BROADSOFT_ACD_ENABLE-
5%/Broadsoft_ACD_5_>
        <ACD_Status_5_ ua="na">%ACD_STATUS_5%/ACD_Status_5_>
        <Auto_Available_After_Sign-In_5_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_5%/Auto_Available_After_Sign-In_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_>
        <Precondition_Support_6_
ua="na">%PRECONDITION_SUPPORT_6%/Precondition_Support_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_>

```

```

        <Log_Missed_Calls_6_
ua="na">%LOG_MISSED_CALLS_6%</Log_Missed_Calls_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 -->
        <Broadsoft_ACD_6_ ua="na">%BROADSOFT_ACD_ENABLE-
6%</Broadsoft_ACD_6_>
        <ACD_Status_6_ ua="na">%ACD_STATUS_6%</ACD_Status_6_>
        <Auto_Available_After_Sign-In_6_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_6%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_7_
ua="na">%PRECONDITION_SUPPORT_7%</Precondition_Support_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_>
    <Log_Missed_Calls_7_
ua="na">%LOG_MISSED_CALLS_7%/Log_Missed_Calls_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 -->
    <Broadsoft_ACD_7_ua="na">%BROADSOFT_ACD_ENABLE-
7%/Broadsoft_ACD_7_>
    <ACD_Status_7_ua="na">%ACD_STATUS_7%/ACD_Status_7_>
    <Auto_Available_After_Sign-In_7_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_7%/Auto_Available_After_Sign-In_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_>
        <Precondition_Support_8_
ua="na">%PRECONDITION_SUPPORT_8%</Precondition_Support_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_>
        <Log_Missed_Calls_8_
ua="na">%LOG_MISSED_CALLS_8%</Log_Missed_Calls_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_CODEEC%</Preferred_Codec_8_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second_PREFERRED_Codec_8_
ua="na">%SECOND_PREFERRED_CODEEC%</Second Preferred Codec_8_>
        <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_PREFERRED_Codec_8_
ua="na">%THIRD_PREFERRED_CODEEC%</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 -->
        <Broadsoft_ACD_8_ ua="na">%BROADSOFT_ACD_ENABLE-
8%</Broadsoft_ACD_8_>
        <ACD_Status_8_ ua="na">%ACD_STATUS_8%</ACD_Status_8_>
        <Auto_Available_After_Sign-In_8_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_8%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_9_
ua="na">%PRECONDITION_SUPPORT_9%</Precondition_Support_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_>
        <Log_Missed_Calls_9_
ua="na">%LOG_MISSED_CALLS_9%</Log_Missed_Calls_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_>

        <!-- LINE9 ACD Settings -->
        <Broadsoft_ACD_9_ ua="na">%BROADSOFT_ACD_ENABLE-
9%</Broadsoft_ACD_9_>
        <ACD_Status_9_ ua="na">%ACD_STATUS_9%</ACD_Status_9_>
        <Auto_Available_After_Sign-In_9_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_9%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_10_
ua="na">%PRECONDITION_SUPPORT_10%</Precondition_Support_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_>
  <Log_Missed_Calls_10_
ua="na">%LOG_MISSED_CALLS_10%/Log_Missed_Calls_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 -->
  <Broadsoft_ACD_10_ ua="na">%BROADSOFT_ACD_ENABLE-
10%/Broadsoft_ACD_10_>
  <ACD_Status_10_
ua="na">%ACD_STATUS_10%/ACD_Status_10_>
  <Auto_Available_After_Sign-In_10_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_10%/Auto_Available_After_Sign-In_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_>
        <Precondition_Support_11_
ua="na">%PRECONDITION_SUPPORT_11%</Precondition_Support_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_>
        <Log_Missed_Calls_11_
ua="na">%LOG_MISSED_CALLS_11%</Log_Missed_Calls_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 -->
        <Broadsoft_ACD_11_ ua="na">%BROADSOFT_ACD_ENABLE-
11%</Broadsoft_ACD_11_>
        <ACD_Status_11_
ua="na">%ACD_STATUS_11%</ACD_Status_11_>
        <Auto_Available_After_Sign-In_11_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_11%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_12_
ua="na">%PRECONDITION_SUPPORT_12%</Precondition_Support_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_>
        <Log_Missed_Calls_12_
ua="na">%LOG_MISSED_CALLS_12%</Log_Missed_Calls_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 -->
        <Broadsoft_ACD_12_ ua="na">%BROADSOFT_ACD_ENABLE-
12%</Broadsoft_ACD_12_>
        <ACD_Status_12_
ua="na">%ACD_STATUS_12%</ACD_Status_12_>
        <Auto_Available_After_Sign-In_12_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_12%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_13_
ua="na">%PRECONDITION_SUPPORT_13%</Precondition_Support_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_>
    <Log_Missed_Calls_13_
ua="na">%LOG_MISSED_CALLS_13%</Log_Missed_Calls_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 -->
    <Broadsoft_ACD_13_ ua="na">%BROADSOFT_ACD_ENABLE-
13%</Broadsoft_ACD_13_>
    <ACD_Status_13_
ua="na">%ACD_STATUS_13%</ACD_Status_13_>
    <Auto_Available_After_Sign-In_13_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_13%</Auto_Available_After_Sign-In_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_>
        <Precondition_Support_14_
ua="na">%PRECONDITION_SUPPORT_14%/Precondition_Support_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_>
        <Log_Missed_Calls_14_
ua="na">%LOG_MISSED_CALLS_14%/Log_Missed_Calls_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 -->
        <Broadsoft_ACD_14_ ua="na">%BROADSOFT_ACD_ENABLE-
14%/Broadsoft_ACD_14_>
        <ACD_Status_14_
ua="na">%ACD_STATUS_14%/ACD_Status_14_>
        <Auto_Available_After_Sign-In_14_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_14%/Auto_Available_After_Sign-In_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_>
        <Precondition_Support_15_
ua="na">%PRECONDITION_SUPPORT_15%/Precondition_Support_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_>
        <Log_Missed_Calls_15_
ua="na">%LOG_MISSED_CALLS_15%/Log_Missed_Calls_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 -->
        <Broadsoft_ACD_15_ ua="na">%BROADSOFT_ACD_ENABLE-
15%/Broadsoft_ACD_15_>
        <ACD_Status_15_
ua="na">%ACD_STATUS_15%/ACD_Status_15_>
        <Auto_Available_After_Sign-In_15_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_15%/Auto_Available_After_Sign-In 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_>
        <Precondition_Support_16_
ua="na">%PRECONDITION_SUPPORT_16%</Precondition_Support_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
_>

        <!-- LINE16 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_16_
ua="na">%VM_SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_16_>
        <Log_Missed_Calls_16_
ua="na">%LOG_MISSED_CALLS_16%</Log_Missed_Calls_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 -->
        <Broadsoft_ACD_16_ ua="na">%BROADSOFT_ACD_ENABLE-
16%</Broadsoft_ACD_16_>

```

```

        <ACD_Status_16_
ua="na">%ACD_STATUS_16%</ACD_Status_16_
        <Auto_Available_After_Sign-In_16_
ua="na">%AUTO_AVAILABLE_AFTER_SIGN-
IN_16%</Auto_Available_After_Sign-In_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_Type9841.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
        -->

        <!-- NAT Support Parameters -->
        <ICE_STUN_Enable
ua="na">%BB_ICE_STUN_ENABLED%</ICE_STUN_Enable>

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

        <!-- Device Profile Folder (Opt1) -->
        <Upgrade_Rule
ua="na">%ACCESS_PROTOCOL%BWDEVICEACCESSFQDN%:BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%FIRMWARE_VERSION_DP-
9800%</Upgrade_Rule>
        <Profile_Rule_C
ua="na">%ACCESS_PROTOCOL%BWDEVICEACCESSFQDN%:BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_CiscoDev.xml</Profi
le_Rule_C>

```

```

        <!-- 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_9800%</Dictionary_Server_Script>

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

            <!-- Vertical Service Activation Codes -->

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

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

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

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

        </flat-profile>
    </device>

```

Family-Specific-file: CiscoDev_Type9851.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
        -->

        <!-- NAT Support Parameters -->
        <ICE_STUN_Enable
        ua="na">%BB ICE STUN_ENABLED%</ICE_STUN_Enable>

```

```

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

<!-- Device Profile Folder (Opt1) -->
<Upgrade_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%FIRMWARE_VERSION_DP-
9800%/Upgrade_Rule>
<Profile_Rule_C
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_CiscoDev.xml</Profi
le_Rule_C>

<!-- 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_9800%/Dictionary_Server_Script>

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

<!-- Vertical Service Activation Codes -->

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

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

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

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

```

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

Family-Specific-file: CiscoDev_Type9861.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
    -->

    <!-- NAT Support Parameters -->
    <ICE_STUN_Enable
ua="na">%BB_ICE_STUN_ENABLED%/ICE_STUN_Enable>

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

    <!-- Device Profile Folder (Opt1) -->
    <Upgrade_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCES
SPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%FIRMWARE_VERSION_D
P-9800%/Upgrade_Rule>
    <Profile_Rule_C
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCES
SPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_CiscoDev.xml</P
rofile_Rule_C>

    <!-- 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%/%BWDMSCON
TEXT%/%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%:%BWDEVICEACCESSPORT%
/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%;%DICTIONARY_SERVER_SCRIPT_9800%</Di
ctionary_Server_Script>

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

    <!-- Vertical Service Activation Codes -->

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

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

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

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

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

Family-Specific-file: CiscoDev_Type9871.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
    -->

    <!-- NAT Support Parameters -->
    <ICE_STUN_Enable
ua="na">%BB_ICE_STUN_ENABLED%/ICE_STUN_Enable>

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

    <!-- Device Profile Folder (Opt1) -->
    <Upgrade_Rule
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCES
SPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%FIRMWARE_VERSION_D
P-9800%/Upgrade_Rule>
    <Profile_Rule_C
ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCES
SPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA_CiscoDev.xml</P
rofile_Rule_C>

    <!-- 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%:%BWDEVICEACCESSPORT%
/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%;%DICTIONARY_SERVER_SCRIPT_9800%</Di
ctionary_Server_Script>

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

<!-- Vertical Service Activation Codes -->

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

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

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

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

</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>

        <!--
*****
-->
        <!-- Broadsoft XSI Directory
-->
        <!--
*****
-->
        <!-- Optional: Broadsoft Directory Settings -->
        <Directory_Type
ua="na">%DIRECTORY_TYPE%/Directory_Type>

        <!--
        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_HH:mm_
ua="na">%RESYNC_TIME%/Resync_At_HH:mm_>
        <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
-->

    <!-- Call Parking -->
    <Call_Park_Code ua="na">%BWFAC-CALL-PARK-
1%</Call_Park_Code>
    <Call_Unpark_Code ua="na">%BWFAC-CALL-PARK-RETRIEVE-
1%</Call_Unpark_Code>
    <!-- Call Pickup -->
    <Call_Pickup_Code ua="na">%BWFAC-DIRECTED-CALL-PICKUP-
1%</Call_Pickup_Code>
    <Group_Call_Pickup_Code ua="na">%BWFAC-CALL-PICKUP-
1%</Group_Call_Pickup_Code>
    <!-- Secure Call -->
    <Secure_Call_Option_1_ ua="na">%SECURE_CALL_OPTION-
1%</Secure_Call_Option_1_> <!-- Options:
Optional|Required|Strict -->

    <!-- 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">%BWLLANGUAGE-
1%</Language_Selection> <!-- 88xx/78xx/68xx -->

```

```

        <Phone_Language ua="na">%BWLLANGUAGE-
1%</Phone_Language>
        <!-- available options:
Catalan|Chinese|Chinese_HongKong|Chinese_Taiwan|Czech|Danish|D
utch|English|English-US|Finnish|French|French_Canada|German

|Greek_Greece|Hungarian|Italian|Japanese|Korean|Norwegian|Poli
sh|Portuguese|Portuguese_Brazil|Russian|Spanish|Spanish_Colomb
ia|Swedish|Turkish|Ukrainian -->

        <!-- 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">%BWNWORK-
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">%BWSHAREDLIN-ENABLED-
4%</Share_Ext_4_>
<Shared_User_ID_4_ ua="na">%BWLINPORT-
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">%BWLINPORT-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">%BWNWORK-
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">%BWNWORK-
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">%BNAME-
10%/Display_Name_10_>
        <User_ID_10_ ua="na">%BLINEPORT-10%/User_ID_10_>
        <Password_10_ ua="na">%BAUTHPASSWORD-
10%/Password_10_>
        <Auth_ID_10_ ua="na">%BAUTHUSER-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">%BNETWORK-
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">%BLINEPORT-
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">%BNAME-
11%/Display_Name_11_>
        <User_ID_11_ ua="na">%BLINEPORT-11%/User_ID_11_>
        <Password_11_ ua="na">%BAUTHPASSWORD-
11%/Password_11_>
        <Auth_ID_11_ ua="na">%BAUTHUSER-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">%BNETWORK-
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
        -->

        <!-- LINE12 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">%BWNWORK-
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">%BWNWORK-
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">%BWSHAREDLIN-ENABLED-
16%</Share_Ext_16_>
    <Shared_User_ID_16_ ua="na">%BWLIN-PORT-
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">%BWLIN-PORT-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">%BWNWORK-
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_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
<Short_Name_1_ ua="na">$USER</Short_Name_1_>
<Line_Label_1_ ua="na">%LINE_LABEL-1%/Line_Label_1_>
<Share_Call_Appearance_1_ ua="na">%BWSHAREDLINE-
1%/Share_Call_Appearance_1_> <!-- options: private/shared -->
<Extended_Function_1_ ua="na">%LINE_FUNCTION-
1%/Extended_Function_1_>
<!-- Line Key 2 -->
<Extension_2_ ua="na">%PLK-2%/Extension_2_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
<Short_Name_2_ ua="na">$USER</Short_Name_2_>
<Line_Label_2_ ua="na">%LINE_LABEL-2%/Line_Label_2_>
<Share_Call_Appearance_2_ ua="na">%BWSHAREDLINE-
2%/Share_Call_Appearance_2_> <!-- options: private/shared -->
<Extended_Function_2_ ua="na">%LINE_FUNCTION-
2%/Extended_Function_2_>
<!-- Line Key 3 -->
<Extension_3_ ua="na">%PLK-3%/Extension_3_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
<Short_Name_3_ ua="na">$USER</Short_Name_3_>
<Line_Label_3_ ua="na">%LINE_LABEL-3%/Line_Label_3_>

```

```

        <Share_Call_Appearence_3_ua="na">%BWSHAREDLINE-
3%</Share_Call_Appearence_3_> <!-- options: private/shared -->
        <Extended_Function_3_ua="na">%LINE_FUNCTION-
3%</Extended_Function_3_>
        <!-- Line Key 4 -->
        <Extension_4_ua="na">%PLK-4%</Extension_4_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_4_ua="na">$USER</Short_Name_4_>
        <Line_Label_4_ua="na">%LINE_LABEL-4%</Line_Label_4_>
        <Share_Call_Appearence_4_ua="na">%BWSHAREDLINE-
4%</Share_Call_Appearence_4_> <!-- options: private/shared -->
        <Extended_Function_4_ua="na">%LINE_FUNCTION-
4%</Extended_Function_4_>
        <!-- Line Key 5 -->
        <Extension_5_ua="na">%PLK-5%</Extension_5_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_5_ua="na">$USER</Short_Name_5_>
        <Line_Label_5_ua="na">%LINE_LABEL-5%</Line_Label_5_>
        <Share_Call_Appearence_5_ua="na">%BWSHAREDLINE-
5%</Share_Call_Appearence_5_> <!-- options: private/shared -->
        <Extended_Function_5_ua="na">%LINE_FUNCTION-
5%</Extended_Function_5_>
        <!-- Line Key 6 -->
        <Extension_6_ua="na">%PLK-6%</Extension_6_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_6_ua="na">$USER</Short_Name_6_>
        <Line_Label_6_ua="na">%LINE_LABEL-6%</Line_Label_6_>
        <Share_Call_Appearence_6_ua="na">%BWSHAREDLINE-
6%</Share_Call_Appearence_6_> <!-- options: private/shared -->
        <Extended_Function_6_ua="na">%LINE_FUNCTION-
6%</Extended_Function_6_>
        <!-- Line Key 7 -->
        <Extension_7_ua="na">%PLK-7%</Extension_7_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_7_ua="na">$USER</Short_Name_7_>
        <Line_Label_7_ua="na">%LINE_LABEL-7%</Line_Label_7_>
        <Share_Call_Appearence_7_ua="na">%BWSHAREDLINE-
7%</Share_Call_Appearence_7_> <!-- options: private/shared -->
        <Extended_Function_7_ua="na">%LINE_FUNCTION-
7%</Extended_Function_7_>
        <!-- Line Key 8 -->
        <Extension_8_ua="na">%PLK-8%</Extension_8_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_8_ua="na">$USER</Short_Name_8_>
        <Line_Label_8_ua="na">%LINE_LABEL-8%</Line_Label_8_>
        <Share_Call_Appearence_8_ua="na">%BWSHAREDLINE-
8%</Share_Call_Appearence_8_> <!-- options: private/shared -->
        <Extended_Function_8_ua="na">%LINE_FUNCTION-
8%</Extended_Function_8_>
        <!-- Line Key 9 -->
        <Extension_9_ua="na">%PLK-9%</Extension_9_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_9_ua="na">$USER</Short_Name_9_>
        <Line_Label_9_ua="na">%LINE_LABEL-9%</Line_Label_9_>
        <Share_Call_Appearence_9_ua="na">%BWSHAREDLINE-
9%</Share_Call_Appearence_9_> <!-- options: private/shared -->

```

```

        <Extended_Function_9_ ua="na">%LINE_FUNCTION-
9%</Extended_Function_9_>
        <!-- Line Key 10 -->
        <Extension_10_ ua="na">%PLK-10%</Extension_10_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_10_ ua="na">$USER</Short_Name_10_>
        <Line_Label_10_ ua="na">%LINE_LABEL-
10%</Line_Label_10_>
        <Share_Call_Appearance_10_ ua="na">%BWSHAREDLINE-
10%</Share_Call_Appearance_10_> <!-- options: private/shared -
->
        <Extended_Function_10_ ua="na">%LINE_FUNCTION-
10%</Extended_Function_10_>
        <!-- Line Key 11 -->
        <Extension_11_ ua="na">%PLK-11%</Extension_11_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_11_ ua="na">$USER</Short_Name_11_>
        <Line_Label_11_ ua="na">%LINE_LABEL-
11%</Line_Label_11_>
        <Share_Call_Appearance_11_ ua="na">%BWSHAREDLINE-
11%</Share_Call_Appearance_11_> <!-- options: private/shared -
->
        <Extended_Function_11_ ua="na">%LINE_FUNCTION-
11%</Extended_Function_11_>
        <!-- Line Key 12 -->
        <Extension_12_ ua="na">%PLK-12%</Extension_12_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_12_ ua="na">$USER</Short_Name_12_>
        <Line_Label_12_ ua="na">%LINE_LABEL-
12%</Line_Label_12_>
        <Share_Call_Appearance_12_ ua="na">%BWSHAREDLINE-
12%</Share_Call_Appearance_12_> <!-- options: private/shared -
->
        <Extended_Function_12_ ua="na">%LINE_FUNCTION-
12%</Extended_Function_12_>
        <!-- Line Key 13 -->
        <Extension_13_ ua="na">%PLK-13%</Extension_13_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_13_ ua="na">$USER</Short_Name_13_>
        <Line_Label_13_ ua="na">%LINE_LABEL-
13%</Line_Label_13_>
        <Share_Call_Appearance_13_ ua="na">%BWSHAREDLINE-
13%</Share_Call_Appearance_13_> <!-- options: private/shared -
->
        <Extended_Function_13_ ua="na">%LINE_FUNCTION-
13%</Extended_Function_13_>
        <!-- Line Key 14 -->
        <Extension_14_ ua="na">%PLK-14%</Extension_14_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_14_ ua="na">$USER</Short_Name_14_>
        <Line_Label_14_ ua="na">%LINE_LABEL-
14%</Line_Label_14_>
        <Share_Call_Appearance_14_ ua="na">%BWSHAREDLINE-
14%</Share_Call_Appearance_14_> <!-- options: private/shared -
->
        <Extended_Function_14_ ua="na">%LINE_FUNCTION-
14%</Extended_Function_14_>

```

```

        <!-- Line Key 15 -->
        <Extension_15_ ua="na">%PLK-15%/Extension_15_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_15_ ua="na">$USER</Short_Name_15_>
        <Line_Label_15_ ua="na">%LINE_LABEL-
15%/Line_Label_15_>
        <Share_Call_Appearance_15_ ua="na">%BWSHAREDLINE-
15%/Share_Call_Appearance_15_> <!-- options: private/shared -
-->
        <Extended_Function_15_ ua="na">%LINE_FUNCTION-
15%/Extended_Function_15_>
        <!-- Line Key 16 -->
        <Extension_16_ ua="na">%PLK-16%/Extension_16_> <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_16_ ua="na">$USER</Short_Name_16_>
        <Line_Label_16_ ua="na">%LINE_LABEL-
16%/Line_Label_16_>
        <Share_Call_Appearance_16_ ua="na">%BWSHAREDLINE-
16%/Share_Call_Appearance_16_> <!-- options: private/shared -
-->
        <Extended_Function_16_ ua="na">%LINE_FUNCTION-
16%/Extended_Function_16_>
        <!-- KEM Key 1 -->
        <Unit_1_Extension_1_
ua="na">Disabled</Unit_1_Extension_1_> <!-- available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Unit_1_Short_Name_1_
ua="na">$USER</Unit_1_Short_Name_1_>
        <Unit_1_Share_Call_Appearance_1_
ua="na">private</Unit_1_Share_Call_Appearance_1_> <!--
available options: private|shared -->
        <Unit_1_Key_1_ ua="na"></Unit_1_Key_1_>

        <!-- Miscellaneous Line Key Settings -->
        <Line_ID_Mapping
ua="na">%LINE_ID_MAPPING%/Line_ID_Mapping> <!-- Options:
Veritcal/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 -->
        <Device_Key_List
ua="na">%DEVICE_KEY_LIST%</Device_Key_List>
        <Idle_Key_List ua="na">%IDLE_KEY_LIST%</Idle_Key_List>
        <Connected_Meeting_Key_List
ua="na">%CONNECTED_MEETING_LIST%</Connected_Meeting_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>
        <Releasing_Key_List
ua="na">%RELEASING_KEY_LIST%</Releasing_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->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 -->
```

```
</flat-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](https://www.cisco.com).
- [2] Cisco Systems, Inc. 2024. Cisco IP Phone 9800 Series Administration. Available from <https://help.webex.com/en-us/landing/ld-n0mkkj8-CiscoDeskPhone9800Series/BroadWorks#Administration>
- [3] Cisco Systems, Inc. 2022. *Cisco BroadWorks Device Management Configuration Guide, Release 23.0*. Available from Cisco at [BW-DeviceManagementConfigGuide](#).
- [4] Cisco Systems, Inc. 2022. *Cisco BroadWorks Redundancy Guide, Release 22.0*. Available from Cisco at [BW-RedundancyGuide](#).
- [5] Cisco Systems, Inc. 2022. *Cisco BroadWorks CPE Kit Usage Guide, Release 22.0*. Available from Cisco by request.