

Cisco BroadWorks

Partner Configuration Guide

Cisco Multi-Platform Phones

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1 Overview

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

- CP-6821-3PCC
- CP-6841-3PCC
- CP-6851-3PCC
- CP-6861-3PCC
- CP-6871-3PCC
- CP-7811-3PCC
- CP-7821-3PCC
- CP-7832-3PCC
- CP-7841-3PCC
- CP-7861-3PCC
- CP-8811-3PCC
- CP-8841-3PCC
- CP-8845-3PCC
- CP-8851-3PCC
- CP-8861-3PCC
- CP-8865-3PCC
- CP-8875
- CP-8832-3PCC
- DP-9841
- DP-9851

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 <u>https://help.webex.com/en-us/landing/ld-n0mkkj8-</u> <u>CiscoDeskPhone9800Series/BroadWorks</u> 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	
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.	
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.	

Verified Versions			
Date (mm/yyyy)	Cisco BroadWorks Release	MPP Series Verified Version	MPP Series Compatible 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	Third-Party Call Control – Basic	Yes	Except for the 8875 phones	
Services	Third-Party Call Control – Advanced	Yes	Except for the 8875 phones	
	Voice Message Deposit/Retrieval	Yes		
	Message Waiting Indicator – Unsolicited	Yes		
	Message Waiting Indicator – Solicited	Yes		
	Message Waiting Indicator – Detail	Yes		
	Voice Portal Outcall	Yes		
	Advanced Alerting – Ringing	Yes		
	Advanced Alerting – Call Waiting	Yes		
	Advanced Alerting – Ring Splash	Yes		
	Advanced Alerting – Silent Alerting	Yes		
	Calling Line ID	Yes		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table				
Test Plan Package	Test Plan Package Items	Supported	Comments	
	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 Waiting	Yes		
Call Control Services	Call Hold	Yes		
	Call Transfer	Yes		
	Three-Way Calling	Yes		
	Network-Based Conference	Yes		
DUT Services –	Register Authentication	Yes		
Authentication	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	No		
Emergency Call	Emergency Call with Ringback	No		
DUT Services – P- Access-Network-Info	REGISTER with P-Access-Network- Info Header	No		
Header	INVITE with P-Access-Network-Info Header	No		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table				
Test Plan Package	Test Plan Package Items	Supported	Comments	
DUT Services –	Do Not Disturb	Yes		
wiscenaneous	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	Do Not Disturb	Yes	Except Multiline	
Key Synchronization,	Do Not Disturb Ring Splash	Yes		
Private Line	Call Forwarding	Yes		
	Call Forwarding Always Ring Splash	Yes		
	Call Forwarding Always Diversion Inhibitor	No		
	Call Center Agent Logon/Logoff	Yes	Except for the 8875 phones	
	Call Center Agent Unavailable Code	Yes	Except for the 8875 phones	
	Executive – Call Filtering	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone	
	Executive-Assistant – Call Filtering	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone	
	Executive-Assistant – Diversion	Yes	Only MPP 88xx models, except for the 8875 phone and the 8832 conference phone	
	Call Recording	Yes		
	Security Classification	No		
Advanced Phone	Do Not Disturb	Yes		
Key Synchronization,	Do Not Disturb Ring Splash	Yes		
Shared Line	Call Forwarding	Yes		
	Call Forwarding Always Ring Splash	Yes		
	Call Forwarding Always Diversion Inhibitor	No		
	Security Classification	No		
Advanced Phone Services – Missed Calls Display Synchronization	Missed Calls Display Sync	Yes		

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Advanced Phone	Line-Seize	Yes	
Call Appearance	Call-Info/Lamp Management	Yes	
using Call-Info	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
	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	Hold Reminder	Yes	
Center	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	Pause/Resume	Yes	Except for the 8875 phones
Recording Controls	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	Basic Call	No	
Recording Video	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Security Classification	Security Classification	No	
Advanced Phone	Network-Based Conference Creator	No	
Conference Event	Network-Based Conference Participant	No	
	Meet-Me Conference Participant	No	
Redundancy	DNS SRV Lookup	Yes	
	Register Failover/Failback	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
	Invite Failover/Failback	Yes	
	Bye Failover	Yes	
SBC/ALG – Basic	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
SBC/ALG -	Register Failover/Failback	Yes	
Failover/Failback	Invite Failover/Failback	Yes	
Video – Basic Video	Call Origination	Yes	Only 8845, 8865, and 8875
Calls	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	Auto Attendant	No	
Video Services	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	Network-based Conference	No	
Video Conference	Network-based Conference – HD	Yes	Only 8845 and 8865
	Collaborate – Video	No	
	Collaborate – Video – HD	Yes	Only 8845 and 8865
Video – BroadWorks	Call from WebRTC Client	Yes	Only 8845 and 8865
WebRTC Client	Call to WebRTC Client	Yes	Only 8845 and 8865
ТСР	Register	Yes	
	Outgoing Invite	Yes	
	Incoming Invite	Yes	
IPV6	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Ringback	Yes	
	Codec Negotiation/Renegotiation	Yes	
	Voice Message Deposit/Retrieval	Yes	
	Call Control	Yes	
	Registration with Authentication	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table				
Test Plan Package	Test Plan Package Items Supported Comm		Comments	
	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.

Interface	Feature	Supported	Comments
Xsi Features –	Authenticate with SIP Credentials	Yes	
Aumentication	Authenticate with BroadWorks User Login Credentials	Yes	
	Authenticate with BroadWorks User Directory Number	No	
Xsi Features –	Remote Office	No	
Configuration	BroadWorks Anywhere	Yes	
	Simultaneous Ringing	No	
	Caller ID Blocking	Yes	
	Call Forwarding Always	Yes	
	Call Forwarding Busy	Yes	
	Call Forwarding No Answer	Yes	
	Do Not Disturb	Yes	
Xsi Features –	Enterprise Directory	Yes	
Directories	Enterprise Common Phone List	Yes	
	Group Directory	Yes	
	Group Common Phone List	Yes	
	Personal Phone List	Yes	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
	Search All Directories	Yes	
Xsi Features –	Placed Calls	Yes	
Can Logs	Received Calls	Yes	
	Missed Calls	Yes	
	All Calls	Yes	
	Sort by Name	Yes	
Xsi Features –	View Messages	No	
VISUAI VOICE MAII	Listen to Audio Message	No	
	Watch Video Message	No	
	Mark Message Read/Unread	No	
	Delete Message	No	
	Mark All Messages Read/Unread	No	
Xsi Features – Push Notification	Register/Deregister for Push Notifications	No	
	Incoming Call via Push Notification	No	
	Call Update via Push Notification	No	
	Incoming Call via Push Notification; Second Incoming Call	No	
	MWI via Push Notification	No	
	Ring Splash via Push Notification	No	
Xsi Features –	Call Record Mode Get	No	
Configurations	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 –	Record Mode set to Never	No	
Controls	Record Mode set to Always	No	
	Record Mode set to Always with Pause/Resume	No	
	Start Recording Mid-Call with Record Mode set to On Demand	No	
	Start Recording During Call Setup with Record Mode set to On Demand	No	
	Perform User Initiated Start with Record Mode set to On Demand	No	

Cisco BroadWorks Xtended Services Interface (Xsi) and BroadCloud IM&P Support Table			
Interface	Feature	Supported	Comments
	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	
	Favorites	Yes	
	Groups	Yes	
	Non-XMPP Contacts	Yes	
	Conferences	No	
XMPP Features –	Login Invisible	Yes	
Presence	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	Vers	sion			
		11.3.3	11.3.1	11.2.3	11.2.1	
	None.					

3 Cisco BroadWorks Configuration

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

3.1 Cisco BroadWorks Device Profile Type Configuration

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

Create a Common 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	10
CP-8861-3PCC	10
CP-8865-3PCC	10
CP-8875	16
CP-8832-3PCC	1
DP-9841	4
DP-9851	6

Identity/Device Profile Type Modify Modify an existing identity/device profile type.			
OK Apply Delete Export	Cancel		
Identity/Device Profile Type: Cisco-CP-7 Signaling Address Type: Intelligent P	8xx-88xx-68xx-3PCC roxy Addressing		
Standard Options			
Number of Ports: Ounlimited	Limited To 16		
Ringback Tone/Early Media Support: O RTP - Session	1		
RTP - Early Sector S	ession		
Local Ringbac	k - No Early Media		
Authentication: Enabled			
UDisabled			
Unspecified A	oaress		
Inactive Inactive Inactive			
Registration Capable Authenticate REFE	R		
□ Static Registration Capable ☑ Video Capable			
E164 Capable	eader		
Trusted			
Virreless Integration PBX Integration Add P-Called-Party-ID Auto Configuration Soft Client Requires BroadWorks Call Waiting Tone Advice of Charge Capable Support Emergency Disconnect Control Enable Monitoring Static Line/Port Ordering Support Call Info Conference Subscription URI Support Visual Device Management Support Cause Parameter Reset Event: Presync CheckSync Supported Trunk Mode: Place Place Prov	 Contente Device Mobility Manager Device Music On Hold Device Requires BroadWorks Digit Collection Requires MWI Subscription Support Call Center MIME Type Support Identity In UPDATE and Re- INVITE Support RFC 3398 Support Client Session Info Support Remote Party Info Bypass Media Treatment Not 		
Hold Announcement Method: Inactive I Bandwidth Attributes			
Unscreened Presentation Identity Policy: Profile F Unscree Unscree Unscree	Presentation Identity ned Presentation Identity med Presentation Identity With Profile Domain		
Web Based Configuration URL Extension:			
Device Configuration Options: O 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
CiscoDev_Type68xx.xml	Per-Type	Contains the 6800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6821.xml	Per-Type	Contains the 6821 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6861.xml	Per-Type	Contains the 6861 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type6871.xml	Per-Type	Contains the 6871 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type78xx.xml	Per-Type	Contains the 7800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type7832.xml	Per-Type	Contains model 7832 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type88xx.xml	Per-Type	Contains the 8800 family-specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type88x5.xml	Per-Type	Contains model 88x5 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type8875.xml	Per-Type	Contains model 8875 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type8832.xml	Per-Type	Contains model 8832 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type9841.xml	Per-Type	Contains the 9841 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_Type9851.xml	Per-Type	Contains the 9851 specific configurable parameters that apply to Upgrade rule, logo download.
CiscoDev_System.xml	Per-Type	System-level settings of device type.
CiscoDev-3PCC_Bootstrap.xml	Per-Type	These files are referred to as the default template files. They contain the

		Profile Rule settings for the MPP- 3PCC phone models.
%BWMACADDRESS%_CiscoDev.xml	Per-Device	Contains configurable parameters that apply to an individual device in a deployment.

4.2 System Level Configuration

This section describes system-wide configuration items that are generally required for each MPP Series to work with Cisco BroadWorks. Subscriber-specific settings are described in the next section.

Step	Command	Description
System Conf	guration File <ciscodev-3pcc_bootstrap.xml< th=""><th>></th></ciscodev-3pcc_bootstrap.xml<>	>
Step 1	Set the DNS Settings. Web: System Tab: Primary DNS = 8.8.8.8 Secondary DNS = 8.8.4.4 XML: <primary_dns ua="rw">8.8.8.8 <secondary dns<br="">ua="rw">8.8.4.4</secondary></primary_dns 	Optional: Sets the MPP Series DNS Settings if the Cisco BroadWorks Fully Qualified Domain Name (FQDN) is not resolvable in the public network.
Step 2	Set the Profile Resync Timers. Web: System Tab: Resync At Random Delay: 1 Resync Periodic: 60 (1 minutes/60 seconds) Resync Error Retry Delay: 300 Forced Resync Delay: 600 XML: <resync_at_random_delay ua="na">1</resync_at_random_delay > <resync_periodic ua="na">60 <resync_error_retry_delay ua="na">300elay> <forced_resync_delay ua="na">600</forced_resync_delay </resync_error_retry_delay </resync_periodic 	Sets the MPP Series Profile Resync values to a minimum value. This allows for instantaneous loading of the configuration files.

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

Step	Command	Description		
System Configuration File <ciscodev_system.xml></ciscodev_system.xml>				
Step 1	<pre>Set the SIP Proxy/Domain. Web: Ext 1 Tab: Proxy = as.broadworks.net XML: <proxy_1_ ua="na">as.broadworks.net Optional SRST Proxy Config Web: Ext Tab -> Proxy and Registration: Alternate Proxy = 192.168.1.1 Dual Registration = Yes XML Example: <alternate_proxy_1_ ua="na">192.168.1.1</alternate_proxy_1_>192.168.1.1 Dual Registration = Yes</proxy_1_></pre>	Sets the MMP series phone SIP Proxy to the Fully Qualified Domain Name (FQDN) for the Cisco BroadWorks Application Server cluster. The domain must match the domain configured for the Cisco BroadWorks subscriber's line/port domain. For more information, see the Cisco 3PCC IP Phone Administration Guide.		
Step 2	Configure the Outbound Proxy/SBC. Web: Voice Tab->Extension Tab: Outbound Proxy=sbc.iopl.broadworks.net Outbound Proxy=199.19.193.9 XML:	Sets the Outbound Proxy/SBC if one is used between Cisco BroadWorks and Cisco MPP Series. If the SBC is redundant, use an FQDN to represent the SBC cluster within the Outbound Proxy field. Otherwise, enter the Primary SBC for custom tag SBC_ADDRESS_1 and the Secondary SBC for custom tag SBC_ADDRESS_2.		
Step 3	Enable the DNS SRV lookup. Web: Ext 1 Tab: Use DNS SRV = "Yes" XML: <use_dns_srv_1_ ua="na">Yes</use_dns_srv_1_ 	Enable the DNS SRV lookup when deploying redundant SBC/Cisco BroadWorks Application Servers.		

Step	Command	Description
Step 4	<pre>Set SIP Timers. Web Example: SIP Tab: SIP T1</pre>	The SIP Timers should be set to levels short enough to support a timely failover when there is no server response. The suggested registration period (Reg Max Expires) is one day or 86400 seconds. The Reg Retry Long Intvl timer should be set to "600" (10 minutes) to limit the frequency of Register retries after a 403 Forbidden response.
Step 5	<pre>Enable reliable response. Web: Ext N Tab: SIP 100REL Enable = "Yes" XML: <sip_100rel_enable_1_ ua="na">Yes</sip_100rel_enable_1_></pre>	Reliable provisional response (PRACK) should be enabled.
Step 6	Enable negotiated DTMF type. Web: Ext 1 Tab: DTMF Tx Method = "Auto" XML: <dtmf_tx_method_1_ ua="na">Auto XML Example: <dtmf_tx_method_1_ ua="na">Auto</dtmf_tx_method_1_ </dtmf_tx_method_1_ 	Set <i>Auto</i> to enable inband or RFC 2833 negotiated DTMF.
Step 7	Set the hold implementation type. Web: <u>SIP Tab:</u> RFC 2543 Call Hold = no XML: <rfc_2543_call_hold ua="na">No</rfc_2543_call_hold 	It is recommended to set the hold implementation to "RFC 3264".

Step	Command	Description
Step 8	<pre>Configure dial plan. Web: Ext 1 Tab: Dial_Plan = ([2346789]11S0 [0- 1][2-9]11S0 0 00S0 01[2- 9]xx. [*#]xx[*#] *xx. *xxxxxS0 *xxxxxxxxxxx [2- 9]# 011x. [0-1]xxxxxx [0- 1][2-9]xxxxxxS0 [2- 9]xxxxxxS0 [2- 9]xxxxxxS0 [2- 9]xxxxxxS0 [2- 9]xxxxxxS0 [2-9]x.) XML: </pre> <pre> KML: </pre> <pre> KML: </pre> <pre> Configure dial plan. </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	Enable supplementary services. Web: Phone Tab: Conference Serv = "yes" Attn Transfer Serv = "yes" Blind Transfer Serv = "yes" XML: <conference_serv ua="na">Yes <attn_transfer_serv ua="na">Yes <blind_transfer_serv ua="na">Yes</blind_transfer_serv </attn_transfer_serv </conference_serv 	Enables Conference, Attended Transfer, and Blind Transfer services.
Step 10	<pre>Enable reliable redundancy. Web: Ext 1 Tab: Proxy Fallback Intvl = 1800 XML: <proxy_fallback_intvl_1_ ua="na">1800</proxy_fallback_intvl_1_>1800</pre>	Setting forces failback of redundant registration, overriding any value received from Cisco BroadWorks Application Server.
Step 11	<pre>Schedule Profile Rule Resynchronize Time. Web: Provisioning Tab->"Configuration Profile Section" Field: "Resync At (HHmm): XML Example: <resync_athhmm_ ua="na">0200</resync_athhmm_></pre>	The value is in 24-hour format.

Step	Command	Description
Step 12	Configure the Calls Appearances/Line. Web Example: Phone Tab->Miscellaneous Line Key Settings->Call Appearance Per Line: 3 XML Example:	Appearances/Line value can be set to any value between 2 and 10.
	<pre><call_appearances_per_line group="Phone/Miscellaneous_Line_K ey_Settings">10 <!-- options: 2-10--></call_appearances_per_line></pre>	
Step 13	<pre>Configure NAT Support Parameters></pre>	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.
	<pre> <stun_server ua="na">%STUN_SERVER% <ext_ip_ua="na"></ext_ip_ua="na"></stun_server></pre>	
Step 14	<pre>Configure for Solicited VM. Web: Example: Ext 1 Tab "Call Feature Settings" Voice Mail Server = 1111@as.mycompany.com Voice Mail Subscribe Interval = "3600" XML: Example: <voice_mail_server_1_ ua="na"> <voice_mail_subscribe_interval_1 ua="na">3600</voice_mail_subscribe_interval_1>3600</voice_mail_server_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</mac-address>			
Step 1	<pre>Enable phone lines. Web: Ext 1 Tab Line Enable = "Yes" XML: Example: <line_enable_1_ua="na">Yes </line_enable_1_ua="na"></pre>	Enables each line on the Cisco IP Phones in use.	
Step 2	Configure SIP UA credentials. Web: Voice->Extension Proxy: as.mycompany.com UserID: 1111 XML: <proxy_1_ ua="na">as.mycompany.com <user_id_1_ ua="na>1111</user_id_1_ </proxy_1_ 	Configures the Extension UserID and Proxy values to match the Cisco BroadWorks Application Server line/port setting.	
Step 3	<pre>Enable SIP Authentication for each line. Web: Example: Ext 1 Tab Auth_ID = "1111@as.mycompany.com" Password = "welcome" XML: Ext1/Line1 <auth_id_1_ ua="na">1111@as.mycompany.com <password_1_ ua="na">welcome </password_1_></auth_id_1_></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings.	
Step 4	Configure display name for each line. Web: Ext 1 Tab Display_Name = "Claire Smith" XML: Ext1/Line1 <display_name_1_ ua="na">Claire Smith </display_name_1_>	For each line, configure the name to be displayed on the device.	

Step	Command	Description
Step 5	<pre>Configure for N-Way Calling. Web: Example: Ext 1 Tab Conference Bridge URL = conference@broadworks.net XML: <conference_bridge_url_1_ ua="na">conference@broadworks.net </conference_bridge_url_1_></pre>	This setting within the Subscriber level configuration allows for network-based conference calls instead of device-based conference.
Step 6	<pre>Configure for Solicited VM. Web: Example: Ext 1 Tab "Call Feature Settings" Voice Mail Server = 1111@as.mycompany.com Voice Mail Subscribe Interval = "3600" XML: Example: <voice_mail_server_1_ ua="na"> <voice_mail_subscribe_interval_1_ ua="na">3600</voice_mail_subscribe_interval_1_>3600</voice_mail_server_1_></pre>	Optional: This setting within the Subscriber level configuration allows for Solicited Voicemail Updates.
Step 7	Configure PTT/Intercom Extensions. Web: Ext Tab->Call Feature Settings Auto Ans Page On Active Call: no XML: <auto_ans_page_on_active_call_n_ ua="na">Yesive_Call_N_> Example : <auto_ans_page_on_active_call_1_ ua="na">Yesive_Call_1_></auto_ans_page_on_active_call_1_ </auto_ans_page_on_active_call_n_ 	Optional: Applicable to Extension/Lines configured with the BroadWorks PTT feature with Auto Answer = yes. Subsequent call attempts to that extension will be treated as a call waiting scenario. Note that the N=1-16 depends on the phone's supported number of lines.

4.4 SIP Advanced Feature Configuration

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

4.4.1 Shared Call Appearance Configuration

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

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

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

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



Figure 2 Shared Call Appearance Configuration

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

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

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

4.4.1.1 Bob's Phone Configuration – <mac-address_CiscoDev.xml>

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

Step	Command	Purpose	
Configuratio	Configuration File <mac-address>_CiscoDev.xml</mac-address>		
Step 1	Configure line 1 as shared. Web: Example: Phone Tab: "Line Key 1" Share Call Appearance = "shared" Ext 1: "Share Line Appearance" Share Ext = "Yes" XML: Example: <share_call_appearance_1_ ua="na">sharedance_1_> <share_ext_1_ua="na">Yes Share_Ext_1_></share_ext_1_ua="na"></share_call_appearance_1_ 	Configures the line as "shared" (as opposed to "private").	
Step 2	<pre>Set Register User ID. Web: Example: Ext 1 Tab: User ID = "2405551111_1" XML: Example: <user 1_="" id="" ua="na">2405551111_1 </user></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.	
Step 3	<pre>Enable SIP Authentication. Web: Example: Ext 1 Tab: Auth_ID = "bobsmith" Password = "bobs" XML: Example: < Auth_ID_1ua="na">bobsmith <password_1_ua="na">bobs</password_1_ua="na"></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.	
Step 4	<pre>Configure display name. Web: Example: Ext 1 Tab: Display Name = "Bob Smith" XML: Example: <display_name_1_ ua="na">Bob Smith </display_name_1_></pre>	Configure the name to be displayed on the device for this line.	

cisco.

Step	Command	Purpose
Configuration File <mac-address>_CiscoDev.xml</mac-address>		
Step 5	Enable Call Park. ₩eb :	Optional: Enable Call Park via unused Programmable Line Key.
	Example:	
	Phone Tab:	
	Extension 2: Disabled	
	Extended Function 2:	
	<pre>fnc=prk;sub=4085282222a@\$PROXY;nm e=Park;orbit=40852822222</pre>	
	XML:	
	Example:	
	<pre>Extension_2_>Disabled</pre>	
	Extended_Function_2_> fnc=prk;sub=4085282222a@\$PROXY;nm e=Park;orbit=4085282222Function 2 >	

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

Info Voice Call History Personal Directory	
System SIP Provisioning Regional Phone	Ext 1 Ext 3 Ext 4 Ext 5 Ext 6 Ext 7 Ext 8 Ext 9 Ext 10 User Att Console TR-069
General	
Station Name:	Station Display Name:
Voice Mail Number:	
Handsfree	
Bluetooth Mode:	Phone • Line: 5 •
Line Key 1	
Extension:	1 v Short Name: \$USER
Share Call Appearance:	shared 💌
Extended Function:	
Line Key 2	
Extension:	Disabled - ShortName: SUSER
Share Call Appearance:	private *
Extended Function:	fnc=prk;sub=4085282222a@\$PROXY,nme=Park;orbit=4085282222

Figure 3 Shared Line Park

Step	Command	Purpose
Step 1	Configure line 2 as shared. Web: Example: Phone Tab: "Line Key 2" Share Call Appearance = "shared" Ext 2: "Share Line Appearance" Share Ext = "Yes" XML: Example: <share_call_appearance_2 ua="na">sharedance_2 <share_ext_2_ua="na">Yes Share_Ext_2_></share_ext_2_ua="na"></share_call_appearance_2 	Configures the line as "shared" (as opposed to "private").
Step 2	<pre>Set Register User ID. Web: Example: Ext 2 Tab: User ID = "2405551111_2" XML: Example: <user_id_2_ ua="na">2405551111_2 </user_id_2_></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	<pre>Enable SIP Authentication. Web: Example: Ext 1 Tab: Auth_ID = "joebrown" Password = "joeb" XML: Example: <auth_id_1_ua="na">joebrown <password_1_ua="na">joeb</password_1_ua="na"></auth_id_1_ua="na"></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Joe is called, and it has Joe's authentication information.
Step 4	<pre>Configure display name. Web: Example: Ext 1 Tab: Display Name = "Joe Brown" XML: Example: <display_name_1_ ua="na">Joe Brown</display_name_1_></pre>	Configures the name to be displayed on the device for this line.

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

Step	Command	Purpose
Step 5	Enable Call Park. Web: Example: Phone Tab:	Optional: Enables Call Park via unused Programmable Line Key (PLK).
	Extension 2: Disabled	
	Extended Function 2:	
	<pre>fnc=prk;sub=4085282222b@\$PROXY;nm e=Park;orbit=4085282222</pre>	
	XML:	
	Example:	
	Extension_2_>Disabled2> Extended Function 2 >	
	<pre>fnc=prk;sub=4085282222b@\$PROXY;nm e=Park;orbit=4085282222</pre>	

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	<pre>Configure line as shared. Web: Example: Phone Tab: "Line Key 1" Share Call Appearance = "shared" Ext 1: "Share Line Appearance" Share Ext = "Yes" XML: Example: <share_call_appearance_1_ ua="na">shared <share_ext_1_ ua="na">Yes Share_Ext_1_></share_ext_1_></share_call_appearance_1_></pre>	Configures the line as "shared" (as opposed to "private").
Step 2	<pre>Set Register User ID. Web: Example: Ext 1 Tab: User ID = "2405552222_1" XML: Example: <user_id_1_ ua="na">2405552222_1</user_id_1_></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

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Step	Command	Purpose
Step 3	<pre>Enable SIP Authentication. Web: Example: Ext 1 Tab: Auth_ID = "joebrown" Password = "joeb" XML: Example: <auth_id_1_ua="na">joebrown <password 1="" ua="na">joeb </password></auth_id_1_ua="na"></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Joe is called, and it has Joe's authentication information.
Step 4	Configure display name. Web: Example: Ext 1 Tab: Display Name = "Joe Brown" XML: Example: <display_name_1_ ua="na">Joe Brown</display_name_1_>	Configure the name to be displayed on the device for this line.

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

Step	Command	Purpose
Step 1	Configure line as shared. Web :	Configure the line as "shared" (as opposed to "private").
	Example:	
	Phone Tab:	
	"Line Key 2"	
	Share Call Appearance ="shared"	
	<u>Ext 2:</u>	
	"Share Line Appearance"	
	Share Ext = "Yes"	
	XML:	
	Example:	
	<share_call_appearance_2_ ua="na">sharedance_2 ></share_call_appearance_2_ 	
	<share_ext_2_ ua="na">Yes Share_Ext_2_></share_ext_2_>	
Step 2	Set Register User ID.	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
	Web:	
	Example:	
	Ext 2 Tab:	
	User ID = $"2405552222_2"$	
	XML:	
	Example:	
	<user_id_2_ ua="na">2405552222 2</user_id_2_ 	
cisco.

Step	Command	Purpose
Step 3	<pre>Enable SIP Authentication. Web: Example: Ext 2 Tab: Auth_ID = "bobsmith" Password = "bobs" XML: Example: <auth_id_2_ua="na">bobsmith <password 2_ua="na">bobs</password></auth_id_2_ua="na"></pre>	If the Authentication service is configured on Cisco BroadWorks, these parameters must be configured to match the Cisco BroadWorks settings. This line rings when Bob is called, and it has Bob's authentication information.
Step 4	Configure display name. Web: Example: Ext 2 Tab: Display Name = "Bob Smith" XML: Example: <display_name_2_ ua="na">Bob Smith </display_name_2_>	Configures the name to be displayed on the device for this line.

4.4.2 Hybrid Key System Configuration

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

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

					-
ions: SI Profile Sha Incoming Calls Outcoing Calls	ihared Call lared Call Appea	All Appearance arance allows administrators to allocate additional devic Apply Add Cancel	ces or lines to you. These devices or lines also ring just like your pri	mary phone. Define the line policy on Device Policies pag	je.
Call Control Client Applications Messacins Sentice Soriets Collaborate Meet Me Conferencing	Multiple Call	Alert all appearances for Click-to-Dial ca Alert all appearances for Group Paging c Allow Call Refriew from another location Arrangement: On O ot	lle Jahrs		
Ullines	Bridge	Allow bridging between locations Enable Call Park notification Warning tone: None Barge-In only Barge-In and repeat every 30 second evice Policies	5		
2004:5	Bridge Di Delete	Allow bridging between locations Enable Call Part notification Warning tons: (*) None Barge-in ondr (*) Sarge-in and repeat every 30 second evelce Policies: Confinent-Belica Salica Sal	is Mentify/Device Profile Name,	LinePort	Et
lines	Bridge Dr Delete	Alow bridgen Statement locations Canada Call Para notification Warming tone: O Note Barge-in not regular and regilar and regular and regular and regilar and regular and regula	55 Mentify/Device Profile Name, SHA5-U2213A (Group)	LinePort. 241332211_A@ss io	E
litea	Bridge Dr Delete	More tridiging between locations Enable Call Pain Institution Enable Call Pain Institution Warning tom: Örage in only Ørage-in only Ør	55 Mentifu/Device Profile Name, SPAS-U2131A (Group) 885 (J.)7 (Group)	LinePort 211332311_2@as.io 2011@jas.iop2.troa.	Es Es
itea 	Bridge Dr Delete	Alex tridging between location Casta CIP An indication Warning tone: Barge-in and repeat every 50 second evelor Policies: Scattering, decision, additional Barge-in and repeat every 50 second evelor Policies: Scattering, decision, additional Bestatu-Devices Protein Trans, B Casta 6-6 Casta 6-6 Casta 6-6 Casta 6-6	55 Mestifu/Docke Profile Name, SPAS-6-U213A (Croup) BBS1_DT(Croup) [Page 101]	LineFort 241332211_2@ea.lo. 2311a@aa.log2.troa.	Ec Ec Ec

Figure 4 Shared Call Appearance (Multiple Call Arrangement)

Enable Hybrid Key System on phone.

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 User Att Console TR-069	
General			
	Station Name:	e. Station Display Name:	
	Voice Mail Number:		
nandstree	Physically Market		
	Bilevon wole.	. more - Line -	
Line Key 1			
	Extension:	x 1 - ShortName: \$USER	
	Share Call Appearance:	8: private 🔟	
	Extended Function:	x	
Line Key 2			
	Extension:	n 1 - Short Name: SUSER	
	Share Call Appearance:	e. private 👻	
	Extended Function:	n:	
Line Key 3			
	Extension:	ti 1 - Short Name: SUSER	
	Share Call Appearance:	e. private -	
	Extended Function:	n l	

Figure 5 Line Key Mapping

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

Info	Voice Call History Personal Directory											- Common -	
Syste	m SIP Provisioning Regional Pho	ne Ext 1 Ext 2	Ext 3 Ext 4	Ext 5	Ext 6	Ext 7 Ext 8	Ext 9	Ext 10	User	Att Console	TR-069		
Misce	laneous Line Key Settings												^
	Line ID Map	ping: Horizontal First 👻					SCAB	arge-In Enable	s: No 🛩				
	SCA Sticky Auto Line S	ietze: No 👻					Call Appear	ances Per Line	a: 2 -				

Figure 6 Line ID Mapping

Step	Command	Purpose
System Conf	iguration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Configure the phone to enable line keys and associate them with the registering line.	Hybrid Key System maps the registered line to the other available lines on the phone.
	1) Web Portal -> Phone Tab	
	Line Key 1:	
	Extension: 1	
	Share Call Appearance: Shared	
	Line Key 2:	
	Extension: 1	
	Share Call Appearance: Shared	
	2) XML	
	<extension_1_ ua="na">%PLK- 1%</extension_1_>	
	<share_call_appearance_1_ ua="na">%BWSHAREDLINE- 1%</share_call_appearance_1_ 	
	<extension_2_ ua="na">%PLK- 2%</extension_2_>	
	<share_call_appearance_2_ ua="na">%BWSHAREDLINE- 2%<th></th></share_call_appearance_2_ 	
	Example:	

Step	Command	Purpose
System Conf	iguration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
	<extension_1_ ua="na">1 <share_call_appearance_1_ ua="na">sharedrance_1_> <extension_2_ ua="na">1 <share_call_appearance_2 ua="na">sharedrance_2_></share_call_appearance_2 </extension_2_ </share_call_appearance_1_ </extension_1_ 	
Step 2	Configure phone for Line ID mapping. Web Portal Voice -> Phone Tab Line ID Mapping: Vertical	 Phone behavior for incoming calls. Vertical: First incoming call on first line key and second incoming call on second line key. Horizontal: Incoming calls will display on line key 1 until it reaches call appearance.

4.4.3 Busy Lamp Field Configuration

The Busy Lamp Field implementation provides an attendant console function. Configuration of the phone to enable Busy Lamp Field is described in the following table.

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

On the Cisco BroadWorks server, configure as follows:

Group > Users : ciscoiop	1g1u1	Welcome ADMIN1 CISCO [Loqout]
Options: Profile Incoming Calls Outgoing Calls	Busy Lamp Field Busy Lamp Field allows you to create a list of t URI to the list.	users to monitor via your SIP Attendant Console Phone and assign a SIP
Call Control	OK Apply Cancel	
<u>Client Applications</u> <u>Messaging</u> <u>Collaborate</u> <u>Meet-Me Conferencing</u> Utilities	List URI: sip: CiscoBLFList	@ as.iop1.broadworks.net ~
	Enter search criteria below User ID V Starts With V	+ Search
	Available Users	Monitored Users
		Add > Cisco_IOP1,Group1_User2 (ciscoiop1g1u2) Cisco IOP1,Group1 User23 (ciscoiop1g1u23) Cisco IOP1,Group1 User24 (ciscoiop1g1u24) Cisco IOP1,Group1 User26 (ciscoiop1g1u25) Cisco IOP1,Group1 User26 (ciscoiop1g1u26) Cisco IOP1,Group1 User27 (ciscoiop1g1u27) Add All >> Remove All
	OK Apply Cancel	

Figure 7 Busy Lamp Field Configuration – Server

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

On the phone, validate that the data values match. Go to Voice \rightarrow Attendant Console.

ystem SIP Provisioning Regional Phone	User Ext1 Ext2 Ext3 Ext4 Ext5 Attendant Console Unit 1 Unit 2
neral	
Number of Uni	15: 0 -
BLF List U	RI: CiscoBLFList@as.iop1.broadworks.net
Use Line Keys For BLF Li	st Yes -
BLF Label Display Mod	Je: Name 👻
Biller To Starcode Enab	ie: No -
an Parking Call Park Coo	de: "68 Call Unpark Code: "88
II Pickup	
Call Pickup Cod	Ja: "97

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
Configuratio	n File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Configure Feature Key Sync.	Enable each line on the MPP Series in use.
	Web:	
	Example:	
	Ext X:->Call Feature Settings	
	Feature Key Sync: Yes	
	XML:	
	Example:	
	<feature_sync_1_ ua="na">Yes</feature_sync_1_ 	

4.4.5 Call Center Feature Configuration

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

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.

Group >Users ciscolop2g2u2					Welco	me CISCO MPP ADMIN Los
Options: Profile Incoming Calls Outgoing Calls Call Control	Call Centers Call Centers displays your curr permitted by your administratio OK Apply	rent ACD state and all the ACDs you belong to c	and whether you are currently joined in I	their call centers. You can set your	ACD state and join or remove you	rself from that ACD's call center if
Citent Applications Messagina Service Scripts Collaborate Meet Mc Conferencing Utilities	Call Center Service As AC Agent Threshold Use Guard Timer	signed. Premium D State: Sign-Out Pofile: Default Agent Threshold Profile Index outgoing calls as None Setting: Default Duser	i			
	Use Agent Unavailable S	Enable guard timer for 5 • seco Settings: Default User Force agent to unavailable on Do No Force agent to unavailable after 3 Force agent to unavailable after 3	nds I Disturb activation nal calls consecutive bounced calls whether			
	Join Call Center	Call Center ID Callcenter	Phone Number 2413332319	Extension 2319	Routing Type	Skill Level

Figure 9 Call Control → Call Center Page

2) Enable the Call Center feature on the phone. Then go to $Voice \rightarrow Ext Tab \rightarrow ACD$ Settings.

Info Voice Call History Personal Directory												
System SIP Provisioning Regional Phone Secure Call Option:	Ext 1 Optional	Ext 2 Ex	d 3 Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Console	TR-069
ICD Settings												
Broadsoft ACD:	No -						Call In	formation Enabl	e: No -			
Disposition Code Enable:	NO -							Trace Enabl	e: No -			

Figure 10 Cisco MPP Series BroadSoft ACD

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

Step	Command			Purpose
Step 1	Agent Sign-in.			Signing in Agent.
		Jan 29 8:3	33 AM	
	 ▲ 4081001204 			
	AgtSignIn	Redial	Recents	

cisco.

Step	Command	Purpose
Step 2	Set the Agent status after Agent Sign-in. Jan 29 8:44 AM	Sets the status of Agent after signing in.
Step 3	Set Agent to Available/Unavailable/Wrap-up status Set agent status I Available 2 Unavailable 3 Wrap-up Select Select	Sets the Agent Status to Available or Unavailable or Wrap- up.
Step 4	Agent Sign-out. Jan 29 8:33 AM ~ 4081001204	Signs out Agent from phone.

Configuration of Call Center on phone

Step	Command	Description
Configuratio	on File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Enable BroadSoft ACD on phone.	Enables BroadSoft_ACD on the phone. LCD shows the Agent Sign-in softkey.
	Web:	
	Example:	
	Voice -> Ext Tab -> ACD Settings	
	BroadSoft ACD: Yes	
	<pre>XML:</pre>	
	Example: <broadsoft_acd_1_ ua="na">Yes</broadsoft_acd_1_ 	

4.4.5.1 ACD Status Synchronization

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

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

Info Voice	Call History Personal Directory					Carl Street, St. St. St.
System SIP	Provisioning Regional Phone Ext 1	Ext 2 Ext 3 Ext 4	Ext 6 Ext 6 Ext 7	7 Ext 8 Ext 9	Ext 10 User	Att Console TR-069
ACD Settings						
	Broadsoft ACD: Yes -			Call Information Enable:	No 👻	
	Disposition Code Enable: No 👻			Trace Enable:	No 👻	
	Emergency Escalation Enable: No -		Queu	ue Status Notification Enable:	No 👻	
	ACD Status: Sync From Se	vor 👻				



Step	Command	Purpose
System Con	figuration File _ <ciscodev_system.xml></ciscodev_system.xml>	
Step 1	<pre>Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML: <broadsoft_acd_n_ ua="na">%BROADSOFT_ACD_ENABLE- n% Where n=1-16 Note: %BROADSOFT_ACD_ENABLE-n% has two options, Yes No Example: <broadsoft_acd_1_ ua="na">No</broadsoft_acd_1_ </broadsoft_acd_n_ </pre>	Enables BroadSoft ACD on the phone. Options: Yes No Default value: No
Step 2	<pre>Web Portal: Voice → Ext(n) → ACD Settings. ACD Status: Sync From Local XML: <acd_status_n_ ua="na">%ACD STATUS n%n_> Where n=1-16 Note: %ACD_STATUS_n% has two options: Sync From Server Sync From Local Example: <acd_status_1_ ua="na">Sync From Local</acd_status_1_></acd_status_n_ </pre>	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:

- 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.

	arupiSSomSok	May 19 9	9:56 AM		
-	V 406527321	U			8
					8
					0
	AgtSgnOut	Agt status	Redial	••••	

Figure 14 ACD Status (Last Local Status)

4.4.5.2 ACD Status Set Automatically to Available

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

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

Info Voice	Call History Personal Directory												
System SIP	Provisioning Regional Pho	ne Ext 1	Ext 2	Ext 3 Ext	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Console	TR-069
ACD Settings													
	Broadsoft ACD:	Yes 👻						Call Informatio	n Enable:	No 👻			
	Disposition Code Enable:	No 👻						Trac	e Enable:	No 👻			
	Emergency Escalation Enable:	No 👻					Queue St	atus Notificatio	n Enable:	No 👻			
	ACD Status:	Sync From Serve	er -				Auto	o Available Afte	ar Sign-In:	No -			

Figure 15 Set Auto Available After Sign-in

Step	Command	Purpose
System Con	figuration File <mac-address>_CiscoDev_System</mac-address>	n.xml
Step 1	<pre>Web Portal: Voice → Ext(n) → ACD Settings. BroadSoft ACD: No XML:</pre>	Enables BroadSoft ACD on the phone. Options: Yes/No Default value: No
Step 2	<pre>Web Portal: Voice → Ext(n) → ACD Settings. Auto Available After Sign-in: Yes XML: <auto_available_after_sign-in_n_ ua="na">%AUTO_AVAILABLE_AFTER_SIGN- IN_n%In_n_> Where n=1-16 Note: %%AUTO_AVAILABLE_AFTER_SIGN- IN_n%% has two options: Yes No Example: <auto_available_after_sign-in_1_ ua="na">Yesign-In_1_></auto_available_after_sign-in_1_ </auto_available_after_sign-in_n_ </pre>	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".

g > <u>Users</u> : yunjia01@as1bsoft	sipurash.com					welcome [Logo
s: file oming Calls igoing Calls	Call Centers Call Centers displays your curre center if permitted by your admit	nt ACD state and all the ACDs you belong to and histrator.	I whether you are currently joined in the	ir call centers. You can set	your ACD state and join or ren	move yourself from that ACD's
int Appleations Interp Yoo Songra Itina	Call Center Service Ac Acc Agent Threahold Use Quard Timer Use Agent Unavailable S	Sand Prantum 1946 - Grand Andre Thermody metals 1946 - Secold Andre Thermody metals 1946 - Secold Andre Thermody 1947 - Default There 1947 - Default There 1947 - Default Second Second 1947 - Default Second Second Second Second Second 1947 - Default Second Second Second Second Second Second 1947 - Default Second	nurb activation alta consecutive bounced calls bite			
	Join Call Center	Call Center ID	Phone Number	Extension	Routing Type	Skill Level
		4085263731@ee1beof	4085263744	3744		

Figure 16 ACD State to Sign-Out

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



arupiSSomSok	Jun 17	7:33 PM	
~ 408526373	1		
AgtSignIn	Redial	Recents	••••

Figure 17 ACD Status (Before AgtSignin Press)

arupiSSomSok	Jun 17 7	:37 PM	
408526373	31		
AatSanOut	Agt status	Redial	

Figure 18 ACD Status (On AgtSignin Press)

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

Group -Users : yunjia01@as1bsofLsipu	rash.com					Welcome Loo	12.0
Options: Partile Incoming Calls Outpoing Calls	Call Centers Cal Centers displays your ourse center if committee by your admin	n AGD state and all the AGDs you belong to istrator.	and whether you are currently joined in their ca	l centers. You can set y	our ACD state and join or ren	nove yourself from that ACD1	s cal
del Cartol Cont Avoistore Mesanzo Mesanzo Unites Unites	OK Apply Call Center Sonvice Age Accord Agent Triveshold User Quard Triveshold User Quard Triver S User Agent Unswalable St	Correl Special Previous See Annual Agent Thread-of Portille Matta Solgence Sha Sa Noce S Matta Solgence Sha Sa Noce S Porta Sa Sa Noce S Porta Sagett Is unavellable on nat too	nds Datus advidos el cale de calectada pourced cale statue				
	Join Call Center	Call Center ID 4085293721/Deather/	Phone Number	Extension 3744	Routing Type	Skill Level	
	OK Apply	Cancel					

Figure 19 ACD State Updates to Available

4.4.6 Hoteling Feature Configuration

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

1) Browse to the *Hoteling Guest* page.

	Group >Users ciscolop2g2u2					Welcome CISCO	MPP ADMIN (Legent)
	ptions: Profile Incoming Calls Coloring Calls	Hoteling Guest Hoteling Guest allows a us	st ser to associate their service pr	ofile with a Hoteling Host user. This	allows the guest user to use the host's dev	ice with the guest user's service profile. This is useful for fram	sient employees.
	Lattorn Late Call Control Call Control Citent Aptications Messacinn Sentes Scripte Collisionate Meet-Me Conferencing	OK Apply Hoteling Gue Host Association Lin	Cancel	Hours			
	Utilities	Enter search criteria	below				
1		User ID	• 5	Starts With 👻			Search
			Available Ho	osts		Associated Host	
			Cisco 10P2,Group2 User14 Cisco 10P2,Group2 User17 Cisco 10P2,Group2 User6 (cisco 10P2,Group2 User6 (pqr,mno (ciscolop2g2u21)	(cscolep2g2u14) ^ (cscolep2g2u37) iscolep2g2u5)	Add >	[Chandran,Reetexh12 (oxcoxp2g2x12)] *	
		OK Apply	Cancel				

Figure 20 Call Control \rightarrow Hoteling Guest

Enable Hoteling on phone.

Info	Voice	Call History P	ersonal Dire	ctory															
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	User	Att Console	TR-069		
all Feat	re Settings																		*
			Blind Attn	Wer Enable:	No -								- 10	essage Waiting:	No -				
				Auth Page:	No -									Default Ring:	Sunrise				
			Auth I	Page Realm:									Conferen	ce Bridge URL:					
			Auth Pag	e Password.										Mailbox ID:					
			Voice	Mail Server.									Voice Mail Su	bscribe Interval:	86400				
			Br	adsoft ACD:	No -								Auto Ans Pag	o On Active Call:	Yes -				
			Feat	re Key Sync:	No -								Call Park	Monitor Enable:	No -				
		E	nable Broad:	off Hoteling	Yes *								loteling Subs	cription Expires:	3600				





2) To configure BroadSoft Hoteling feature.

Configuration of Hoteling feature on phone.



Step	Command	Description
Configuratio	on File <mac-address>_CiscoDev.xml</mac-address>	
Step 1	Enable BroadSoft Hoteling on phone.	Enables BroadSoft Hoteling on the phone.
	Web:	LCD will show Guest-in softkey.
	Voice -> Ext Tab -> call feature Settings	
	Enable BroadSoft Hoteling: Yes	
	XML:	
	<enable_broadsoft_hoteling_1_ ua="na">%BROADSOFT_HOTELING_ENA BLE- 1%_></enable_broadsoft_hoteling_1_ 	
	Example:	
	<enable_broadsoft_hoteling_1_ ua="na">Yeseling 1 ></enable_broadsoft_hoteling_1_ 	

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").

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 User Att Console TR-069
Supplementary Services	
Conference Serv.	Yes 👻 Attn Transfer Serv. Yes 💌
Blind Transfer Serv.	Yes v DND Serv: Yes v
Block ANC Serv.	Yes V Block CID Serv. Yes V
Secure Call Serv.	Yes - Ctwd All Serv. Yes -
Cfwd Busy Serv.	Yes V Clwd No Ans Serv. Yes V
Paging Serv.	Yes - Call Park Serv. Yes -
Call Pick Up Serv:	Yes v ACD Login Serv. No v
Group Call Pick Up Serv.	Yes v Service Anno Serv. No v

Figure 22 Cisco MPP Series Call Park Service

4.4.7.1 Configure Call Park Feature Access Code

Info Voice Call History Personal Directory						A REAL PROPERTY.
System SIP Provisioning Regional Phone	Ext 1 Ext 2 E	Ext 3 Ext 4 Ext 5 Ex	xt 6 Ext 7 Ext 8 Ext 9	Ext 10 U	Iser Att Console	TR-069
Martinal Sandas Activation Carlos						^
Call Return Code:	*69		Blind	Transfer Code:	96	
Chwd All Act Code:	*72		Ctwd	All Deart Code:	73	
Cfwd Busy Ad Code:	*90		Chuld Bi	Isy Deart Code:	91	
Cfwd No Ans Act Code:	*92		Cfwd No A	ins Deact Code:	93	
CW Ad Code:	*56		c	W Dead Code:	67	
CW Per Call Act Code:	*71		CW Per C	all Deact Code:	70	
Block CID Act Code:	*61		Block C	Deact Code:	62	
Block CID Per Call Act Code:	*81		Block CID Per C	Call Deact Code: 1	82	
Block ANC Act Code:	•77		Block Af	NC Deact Code: 1	87	
DND Act Code:	*78		DF	ND Deact Code:	79	
Secure All Call Act Code:	*16		Secure N	o Call Act Code: 👘	17	
Secure One Call Act Code:	*18		Secure One C	all Deact Code:	19	
Paging Code:	*96			Call Park Code:	68	
Call Pickup Code:	*97		Ca	ill Unpark Code: 📲	88	
Group Call Pickup Code:	*98					
Referral Services Codes:						
Feature Dial Services Codes:						

Figure 23 Cisco MPP Series Call Park Feature Access Code

Step	Command	Purpose
System Con	figuration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Enable Call Park service: Web Portal Voice → Phone Tab -> Supplementary Services	Enables Call Park service. Default value: Yes.
	Call Park Serv: Yes	
	XML	
	<call_park_code_ ua="rw">%BWFAC- CALL-PARK-1%</call_park_code_>	
	<call_unpark_code_ ua="rw">%BWFAC- CALL-PARK-RETRIEVE- 1%</call_unpark_code_>	
	Example:	
	<call_park_code ua="na">*68</call_park_code 	
	<call_park_serv ua="na">Yes</call_park_serv 	

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.

Busy Lamp Field Busy Lamp Field allows you to create a list of users to monitor via your SIP Attendant Console Phone and assign a SIP URI to the list.						
OK Apply Cancel						
List UR: sip CallPark_List_00 @ as1bsoft.sipurash.com >						
Enter search criteria below						
User ID V Starts With V		+ Search				
Available Users		Monitored Users				
Lee,Maggie01 (maggie01) Lee,Maggie02 (maggie02) Lee,Maggie03 (maggie03)	Add > Remove < Add All >> Remove All	Lee_Maggie05 (maggie05) Lee_Maggie06 (maggie06) Lee_Maggie04 (maggie04)				
OK Apply Cancel						

Figure 24 One-button Call Park

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

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

Info Voice	Call History Personal Dir	lory		
oning Regional	Phone Ext 1	Ext 2 Ext 3 Ext 4 Ext 5 Ext 6 Ext 7 Ext 8	Ext 9 Ext	xt 10 User Att Console
General				
	Subscribe Expires:	60 Subs	scribe Retry Interval:	30
	Number of Units:	3 -	Subscribe Delay:	1
	Server Type:	Broadsoft -	KEM Type:	BEKEM -
	BLF List URI:	CallPark_List_00@\$PROXY		
	BLF List Feature Options:	prk 👻		
	Use Line Keys For BLF List:	No 👻		
	Customizable PLK Options:	blf,sd,cp,prk		
	BLF List:	Show -		
	Call Pickup Audio Notification:	No * Attendant Cons	ole LCD Brightness:	12

Figure 25 One-button Call Park from Web

cisco.

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

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 Desk Phone 9800 Series does not support this feature.

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

System SIP Provisioning Regional	I Phone Ext 1	Ext 2 Ext 3 Ext 4 Ext 5 Ext 6 Ext 7	Ext 8 Ext 9 Ext 10 U	ser A P -
udio Compliance				
Compliant Standard:	TIA -			
oice Feedback (English only)				
Voice Feedback Enable:	Yes -	Voice Feedback Spee	i: Faster -	
Key Again Reset Time:	801	Key Double Press Time	e: 200	
Key Triple Press Time:	400			
creen				
Screen Saver Enable:	No -	Screen Saver Type	: Clock -	
Screen Saver Walt:	300	Screen Saver Refresh Perior	10	
Back Light Timer:	5m -	Display Brightnes	r: 15	
Boot Display:	Default -	Text Displa	r	
Phone Background:	Default -			
Picture Download URL:				
Loop LIRL:				

Figure 26 Configure Voice Feedback

Step	Command	Purpose
System Co	nfiguration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Enable Voice Feedback: Web Portal Voice → User -> Voice Feedback (English Only)	Enables accessibility with voice feedback. Default values are as follows: Voice Feedback: No
	<pre>Voice Feedback Enable: Yes Voice Feedback Speed: Slowest/Slower/Normal/Faster/Faste st Key Again Reset Time: 100-2000 Key Double Press Time: 100-2000 Key Triple Press Time: 100-2000 Voice Feedback Volume: Lowest/Low/Normal/High/Highest XML <voice enable<br="" feedback="">ua="na">%Voice Feedback Enable%ce_Feedback Enable <voice feedback="" speed<br="">ua="na">%Voice Feedback Enable%ce_Feedback Enable> <voice feedback="" speed<br="">ua="na">Normal</voice>><!--available options:<br-->Slowest Slower Normal Faster Fastest > <key_again_reset_time ua="na">800 <key_double_press_time ua="na">400 <key_triple_press_time ua="na">400 <voice_feedback_volume ua="na">Norma l</voice_feedback_volume></key_triple_press_time </key_double_press_time </key_again_reset_time </voice></voice></pre>	Voice Feedback Speed: Normal Key Again Reset Time: 1200 Key Double Press Time: 600 Key Triple Press Time: 1000 Voice Feedback Volume: Normal
	<pre>C: available options. Lowest Low Normal High Highest> Example:</pre>	

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.

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 E	xt 10 User Att Console TR-069
SIP Settings		
SIP Transport:	UDP - SIP Port:	5060
SIP 100REL Enable:	No 👻 EXT SIP Port:	0
Auth Resync-Reboot:	Yes SIP Proxy-Require:	
SIP Remote-Party-ID:	No 👻 Referor Bye Delay:	4
Refer-To Target Contact:	No 👻 Referee Bye Delay:	0
Refer Target Bye Delay:	0 Sticky 183:	No -
Auth INVITE:	No - Ntfy Refer On 1xx-To-Inv:	Yes -
Set G729 annexb:	yes 🛫 Set iLBC mode:	20 -
Voice Quality Report Address:	Voice Quality Report Interval:	0
User Equal Phone:	No * Call Recording Protocol:	SIPREC -

Figure 27 Cisco MPP Series Call Recording Protocol

System SIP Provisioning Regional Phon	Ext	1 Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Console	TR-069
Supplementary Services													
Conference Serv:	Yes -							1	Attn Transfer Ser	v: Yes -			
Blind Transfer Serv:	Yes -								DND Ser	v: Yes -			
Block ANC Serv:	Yes -								Block CID Ser	v: Yes -			
Secure Call Serv:	Yes -								Cfwd All Ser	v: Yes -			
Cfwd Busy Serv:	Yes -							c	fwd No Ans Ser	v: Yes -			
Paging Serv:	Yes -								Call Park Ser	v: Yes -			
Call Pick Up Serv:	Yes -								ACD Login Ser	v: No -			
Group Call Pick Up Serv:	Yes -							S	ervice Annc Ser	v: No -			
Call Recording Serv:	No -												

Figure 28 Cisco MPP Series Call Recording Serv

Step	Command	Purpose
System Con	figuration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Enable Call Recording: Web Portal Voice → Ext 1 -> SIP Settings	Enable Call Recording. Default value: SIPREC Default value: No
	Call Recording Protocol: SIPREC	To enable: Yes
	Web Portal Voice → Phone -> Supplementary Services	
	Call Recording Serv: No	
	XML	
	<call_recording_protocol_1_ ua="na">SIPRECocol_1_></call_recording_protocol_1_ 	
	<call_recording_serv ua="na">No</call_recording_serv 	
	Example:	
	<call_recording_protocol_1_ ua="na">SIPRECocol_1_> <call_recording_serv ua="na">No</call_recording_serv </call_recording_protocol_1_ 	

4.4.10 Executive/Executive-Assistant Feature

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

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

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.

Assign Services allows you to assign or unassign services and service packs for a us OK Apply Cancel	user. If a service or service pack is unassigned the service data that has been filled out will be lost.
Available Service Packs	User Service Packs
	Add > Basic_SP_MPP Remove < Add All >> Remove All <
Available Services	User Services
Advice Of Charge Atemate Numbers Anonymous Gall Rejection Authentication Automatic Caliback	Add > Eleccitive Multiple Call Arrangement Pernove <
Automatic Hold/Relifive Barge-In Exampt Basic Call Logs Broad/forks Ayent Broad/forks Ayent Broad/forks Ayent Broad/forks Ayenthy	Add All >> Remove All +

Figure 29 Cisco BroadWorks Executive Service

2) Configure Executive-Assistant service for the user.

	Assign Servic	es								
vofile	Assign Services allows you	to assign or unassign services and service of	acks for a user. If a service or service pack is	unassigned the service data that has been filled out will be lost						
scoming Calls										
Autgoing Calls	OK App	/ Cancel								
Jall Control										
Jaling Plans		Available Service Packs	User Service Packs							
Sient Applications		PalCasta		Encoded Inc.						
Messaging		Hoteling	Add >	Simple Basic						
Jollaborate		Video Capabilities-Basic	Remove c							
sites		VoiceMail								
			Add All >>							
			Concerned in							
			Remove A							
	_	Available Services	User Services							
	Advi	te Of Charge	Add >	Automatic Caliback						
	Alter	nate Numbers	100 -	Automatic Hold/Retrieve						
	Anor	ymous Call Rejection	Remove <	Client License 16						
	Barg	e-in Exempt		Collaborate - Audio						
	Basi	: Call Logs		Collaborate - Sharing						
	Broa	DVIDERS Agent	Contraction of the second	Executive-Assistant						
	Erce Erce	dWorks Mobility	Add All >>	Care drops Distance						
	Adivi Aiter Auth Bass Broa Broa	Available Services	Add > Remove <	User Services Automato Caliback Automato Kulojiterive Cilent Locras 16 Colaborate - Audio Colaborate - Sharing						

Figure 30 Cisco BroadWorks Executive-Assistant

3) Configure Assistant to an Executive.

ions: Profile Incoming Calls	Executive Executive allows a user to define a	n assistant pool that will answer calls for	the user. The executive can configu	ure call fittering, screening and alerting.								
Outgoing Calls	OK Apply	OK Apply Cancel										
Callico Disos			_									
Client Applications	Assistants	ttering Screening	Alerting									
Vessaging												
Millies	Allow Assistants to Oct-	in/Opt-out of Pool										
	Enter search criteria below											
	User ID	Starts With			Search							
		allabla Assistante		Assigned Assistants	_							
		anable Assistants		Assigned Assistants	_							
			-	6841,ML (rajani6841@sipurash22.com	i) - In							
			Add >									
			Remove <									
			Add All NY									
			Had hit PP									
			Remove A									
				Law and Law and								
				Move Up Move Dow								

Figure 31 Cisco BroadWorks Exec Admin – Assign Assistant to Exec

System SIP Provisioning Region	al Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	
Blind Attn-Xfer Enable:	No -						Me	ssage Waiting:	No -				
Auth Page:	No -							Default Ring:	Sunrise	*			
Auth Page Realm:							Conference	e Bridge URL:					
Conference Single Hardkey:	No -						Auth P	age Password:					
Mailbox ID:							Voi	e Mail Server:					
Voice Mail Subscribe Interval:	86400					Au	to Ans Page	On Active Call:	Yes -				
Feature Key Sync:	Yes -						Call Park M	Ionitor Enable:	No -				
Enable Broadsoft Hoteling:	No 👻					He	steling Subsc	iption Expires:	3600				
Secure Call Option:	Optional -												
CD Settings													
Broadsoft ACD:	No -						Call Infor	nation Enable:	No -				
Disposition Code Enable:	No -							Trace Enable:	No -				
Emergency Escalation Enable:	No -					Queur	e Status Notif	cation Enable:	No -				
roxy and Registration													
Proxy:	sipurash22.com	n											
Outbound Proxy:	10.89.81.177												
Alternate Proxy:													

Figure 32 Exec Admin Feature Key Sync

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	User	Att Conse	ole 🕨 🔻
rammable Softkeys																
P	rogrammable Soft	vey Enable:	No 👻						_							
	lď	le Key List:	waitredial;	recents;cfwd	d.dnd:lcr.pick	up;gpickup;u	npark;em_logoi	ut;guestin;g	Jestout callre	trieve;bridgei	n;					
	Missed Cr	all Key List:	lor 1;miss 4	k,							_					
	Off Hor	ok Key List:	option;redia	option;redial;cancel;dir;chwd;dnd;or,unpark;pickup;gpickup;												
	Dialing Inpr	ut Key List:	option 1;ca	ption[1;call(2;delchar]3;cancel]4;												
	Progressin	ig Key List:	endcal 2;													
	Connecte	od Key List:	hold 1;end	callj2;conf(3;	.xfer 4;bxfer;c	.onfLx;xferLx	cpark;phold;ords	start;crdpau	se;crdresumr	e;crdstop;dnd	ŝ.					
	Start-Xir	er Key List:	hold[1;end	call 2;xfer 3;	,dnd;											
	Start-Co	nf Key List:	hold 1;endr	call 2;conf 3;	(dnd;											
	Conferencin	ng Key List:	hold 1;end	hold 1;endcall[2;join]4;phold;crdstart[5;crdpause]5;crdstop[8;dnd;												
	Releasin	ng Key List:	endcal 2;	endcal 2;												
	Ho	ld Key List:	resume)1;endcall[2;newcal[3;redia];dir;cfwd;dnd callpush;													
	Ringin	ng Key List:	answer[1;ig	jnore 2;igno	vresilent 3;	_										
	Shared Activ	re Key List:	newcall[1;b	arge 2;barg	yesilent(3;cfwr	J 4;dnd 5 call	Iretrieve;bridgeir	a								
-	Shared He	ld Key List:	resume 1;b	resume(1;barge(2;cfwd)3;dnd)4;												
L	Exec Assistan	nt Key List:	proxycall 3	proxycal/3,diven/2;												
		PSK 1:														
		PSK 2:														

Figure 33 Exec Admin Programmable Softkeys

System SIP Provisioning Regiona	Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	
CW Per Call Act Code:	•71						CW Per Cal	I Deact Code:	*70				
Block CID Act Code:	*61		Block CID Deact Code:					Deact Code:	*62				
Block CID Per Call Act Code:	*81					Blo	k CID Per Cal	I Deact Code:	*82				
Block ANC Act Code:	•77						Block ANC	Deact Code:	*87				
DND Act Code:	•78						DND	Deact Code:	•79				
Secure All Call Act Code:	*16						Secure No 0	Call Act Code:	*17				
Secure One Call Act Code:	*18					S	ecure One Cal	I Deact Code:	*19				
Paging Code:	*96		Call Park Code: "68						*68				
Call Pickup Code:	•97						Call	Unpark Code:	*88				
Group Call Pickup Code:	*98		Exec Assistant Call Initiate Code:						#64				
Exec Call Filter Act Code:	#61		Exec Call Filter Deact Code:					#62					
Exec Assistant Call Push Code:	#63		Exec Call Retrieve Code:				*11						
Exec Call Bridge Code:	*15												
Referral Services Codes:													
Feature Dial Services Codes:													
/ertical Service Announcement Codes													
Service Annc Base Number:													
Service Ann: Extension Codes:								1					
			Undo All C	hanges	Submit All Ch	anges							

Figure 34 Exec Admin Feature Access Code

Dial Plan		
C	Dial Plan:	(*xx [3469]11 0 00 [2-9]xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Figure 35 Exec Admin Dial Plan

Step	Command	Purpose
System Con	figuration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	<pre>Enable Feature Key Sync. Web Portal Voice → Ext 1 -> Call Feature Settings Feature Key Sync: Yes Example: <feature_key_sync_1_ ua="na">Yes</feature_key_sync_1_> For PLK setup Voice→Phone→ Line Key <#> → Extended Function</pre>	Enable Feature Key Sync. Default value: No To enable: Yes

Step	Command	Purpose
System Con	figuration File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
	Syntax for PLK - "fnc=bw-exec-	
	Programmable softkeys config	
	Voice->Phone->Programmable Softkeys	
	Check Figure 21 Programmable Softkeys	
	Feature Access code	
	Voice->Regional	
	Check Figure 22 Feature Access Code	
	Update the dial plan	
	Check Figure 23 Dial Plan	
	XML	
	<exec_assistant_call_initiate_code ua="na">%Exec_Assistant_Call_Initia te_Code%ate_Code></exec_assistant_call_initiate_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%<!--<br-->Exec_Call_Retrieve_Code></exec_call_retrieve_code 	
	<exec_call_bridge_code ua="na">%Exec_Call_Bridge_Code%ec_Call_Bridge_Code></exec_call_bridge_code 	
	<exec_assistant_key_list ua="na">%Exec_Assistant_Key_List%<!--<br-->Exec_Assistant_Key_List></exec_assistant_key_list 	
	Example:	
	<pre><exec_assistant_call_initiate_code ua="na">#64</exec_assistant_call_initiate_code></pre>	
	<exec_call_filter_act_code ua="na">#61 </exec_call_filter_act_code>	
	<pre><exec_call_filter_deact_code ua="na"># 62</exec_call_filter_deact_code></pre>	
	<pre><exec_assistant_call_push_code ua="na">#63</exec_assistant_call_push_code></pre>	
	<pre><exec_call_retrieve_code ua="na">*11</exec_call_retrieve_code> <exec_call_bridge_code ua="na">*15</exec_call_bridge_code></pre>	
	<exec_assistant_key_list_ua="na">pro xycall 2;divert 3;ey_List></exec_assistant_key_list_ua="na">	



4.4.10.1 Assistant Call Filter

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

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

1) Enable Feature Key Sync:

Info Voice Call History	Personal Directory				
System SIP Provis	sioning Regional Pl	hone Ext 1	Ext 2 Ext 3	Ext 4 Ext 5	
Call Feature Settings					
Blind Attn-Xfer Enable:	No 👻		Message Waiting:	No 👻	
Auth Page:	No 🔫		Default Ring:	Sunrise 👻	
Auth Page Realm:			Conference Bridge URL:		
Conference Single Hardkey:	No 💌		Auth Page Password:		
Mailbox ID:			Voice Mail Server:		
Voice Mail Subscribe Interval:	86400	Auto	Ans Page On Active Call:	Yes 👻	
Feature Key Sync:	Yes 👻		Call Park Monitor Enable:	No 👻	
Enable Broadsoft Hoteling:	No 👻	Hote	ling Subscription Expires:	3600	
Secure Call Option:	Optional 👻	Featu	ure Activation Code Sync:	No 🔫	

Figure 36 Feature Key Sync Enabling

2) Synchronize XSI host server.

Info	Voice Call H	istory Pers	onal Directory	1					
System	SIP F	Provisioning	Regional	Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5
SI I ine Ser	vice								
or Line Oer	VICE							-	
tor Enle Ger	XSI Host Ser	ver: 10.89.	81.183			XSI Authentic	ation Type:	Login Crede	entials 👻
	XSI Host Sen Login User	ver: 10.89. ID: 40810	81.183 05339@as1b	soft22.		XSI Authentic Login	ation Type: Password:	Login Crede	entials 🔻
	XSI Host Sen Login User Anywhere Ena	ver: 10.89. ID: 40810 ble: No -	81.183 05339@as1b	soft22.		XSI Authentic Login Block C	ation Type: Password: ID Enable:	Login Crede	entials 💌

Figure 37 XSI Host Server Synchronization

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

Info Voice Call Histor	Personal Directory					
System SIP Prov	isioning Regional	Phone Ext 1	Ext 2	Ext 3	Ext 4	Ext 5
Menu Visibility						
Accessibility:	Yes 👻		Spe	ed Dials:	Yes 👻	
Executive Assistant:	Yes 👻		Assistant C	all Filter:	Yes 👻	
User Preferences:	Yes 💌		E	luetooth:	Yes 👻	
Network Configuration:	Yes 👻		Device Admir	istration:	Yes 👻	
Status:	Yes 👻		Report	Problem:	Yes 👻	

Figure 38 Assistant Call Filter

Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
Step 1	<pre>Web Portal Voice → Ext(n) → Call Feature Settings Feature Key Sync: Yes XML: Example: <feature_key_sync_1_ ua="na">Yes</feature_key_sync_1_></pre>	Enables feature key sync. Options: Yes and No Default value: No

cisco.

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

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

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

Group > Users : 4081005338@as1bsoft	zz.sipurash.com	Welcome [Logo/
Dptions: Profile Incoming Calls	Assign Services Assign Services allows you to assign or unassign services and service pa	ncks for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.
Outpoing Calls	OK Apply Cancel	
Call.Control		
Galling Plans	Available Service Packs	User Service Packs
Client Applications	CallCenter	Basic SP MPP
Listics	Hoteling	Add > SharedLine
3000000	Video Capabilities-Basic	Bimple, Dasic VoiceMail Add All >>
		Remove All
	Available Services	User Services
	Advice Of Charge Alternate Numbers Anonymous Call Rejection Authentication Automatic Callback Automatic Hold/Retrive	Add > Shared Call Appearance Remove <
	Barge-in Exempt Basic Call Logs BroadWorka Arywhere BroadWorks Mobility	Add Al >> Remove All
	OK Apply Cancel	

Figure 39 Assign Executive Service

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

Group > Users : 4081005338()	as1bsofi22.sipurash.com	Welcome Los
Pptions: Excite Incomino Calls Outcome Calls	Executive Executive allows a user to define an assistant pool that will answer calls for Other Answer Cancel	I the user. The executive can configure call filtering, screening and alerting,
Call Control Calling Plans Client Accilcutions	Assistanta Filtering Screening	8 Aberling
Messadiro Utilites	Allow Assistants to Opt-in/Opt-out of Pool	
	Enter search criteria below User ID v Starts With v	· · · · · · · · · · · · · · · · · · ·
	Available Assistants	Assigned Assistants
		Ad x Ad x

Figure 40 Assistants to an Executive

3) Configure call filtering.

Group > Users : 4081005338@as1bsoft	22.sipurash.com					Welcome	[Logout]
Options:	Executive Executive allows a user to def CK Apply Assistants	re an assistant pool that will answer cal Add Cancel Filtering Scree	is for the user. The executive can config ning Alerting	ure call filtering, screening and	alerting.		
Masadog Utilitea	Call Filtering: C Call Filtering Mode: P Filt	On					
	Active No Entries Present	Description	Filter	Calls from	Calls to	Edit	
	OK Apply	Add Cancel					

Figure 41 Configure Call Filtering

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

Group > Users : 4081005339@as1bso	ift22.sipurash.com		Welcom
Profile Incoming Calls	Assign Services Assign Services allows you to assign or unassign services and service p	acks for a user. If a service or service pack is unassigned the service dat	that has been filled out will be lost.
Outpoing Calls	OK Apply Cancel		
Call Control	Austickie Passies Dasks		Lines Femiles Dealer
Client Applications	Available Service Packs		User Service Packs
Messaging	CallCenter		Basic_SP_MPP
Utilities	Hoteling	Add >	SharedLine
	Video Capabilites-Basic	Barrana	Simple_Basic VoiceMail
		Politicity S	
	System Scan		
		Add All by	
		Rud All PP	
		Remove All	
	Available Services		User Services
	Arbice Of Charge		Executive-Assistant
	Alternate Numbers	Adda	
	Anonymous Call Rejection		
	Authentication	Remove <	
	Automatic Caliback		
	Barge-in Exempt		
	Basic Call Logs	Add All >>	
	BroadWorks Agent	Damas All	
	Broadworks Anywhere	Politicity An	

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

Figure 42 Executive-assistant Service

5) Configure executive – assistant feature.

Group > Users : 4081005339@as1bsof	ft22.sipurash.com	12.sipurash.com			
Options: Profile Incoming Calls	Executive-Assi Display which executive pools	stant the assistant is assigned to. The assistant can view and configu	re the executive's setting.		
Cutoring Calls Call Control Calling Plans Client Aceleations Messaging Utilities	OK Apply * Divert to Phone Num	Cancel Divert: @ On Off er / SIP-URE: 12345622122			
	Opt-in	Executive First Name	Executive Last Name	Edit	
		Regina	c	Edit	
		Ruby	в	Edit	
		Randy	A	Edit	
	OK Apply	Cancel			

Figure 43 Executive-assistant Configuration

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

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

Group > Users : 4081005339@as1bsol	oup > Users : 4081005339@as1bsoft22.sipurash.com					Welcome	[Logout]
Options: Profile Incoming Calls Cutoolog Calls Call Control Calling Plans Client Acelications	Executive Allows an executive assistant to OK Apply Filtering	configure the executive's setting on bet Add Cancel Screening	Alerting				
Messaging Ublities	Executive Name: C, Re Call Filtering: Oc Call Filtering Mode: S	gina n ● Off imple					
	Call Filtering Criteria Usec	All Calls All Internal Calls All External Calls dvanced In Advanced Mode:					
	Active No Entries Present	Description	Filter	Calls from	Calls to	Edit	

Figure 44 Executive Settings Modification

4.4.11 OPUS Codec Narrowband

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

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

SIP Settings		
SIP Transport:	UDP - SIP Port:	5060
SIP 100REL Enable:	No - EXT SIP Port:	0
Auth Resync-Reboot:	Yes 👻 SIP Proxy-Require:	
SIP Remote-Party-ID:	No 💌 Referor Bye Delay:	4
Refer-To Target Contact:	No	0
Refer Target Bye Delay:	0 Slicky 183:	No -
Auth INVITE:	No v Nily Refer On 1xx-To-Inv:	Yes -
Set G729 annexb:	Yes 💌 Use low-bandwidth OPUS:	No 👻
Voice Quality Report Address:	Voice Quality Report Interval:	0
User Equal Phone:	No * Call Pecording Protocol:	SIPREC -
Privacy Header:	Disabled P-Eany-Media Support:	No ·

Figure 45 OPUS Codec Narrowband

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

4.4.12 Enable SIP 110rel without Enabling Preconditions

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

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

SIP Settings			
SIP Transport	UDP -	SIP Port:	5060
SIP 100REL Enable:	No 💌	EXT SIP Port:	0
Auth Resync-Reboot:	Yes -	SIP Proxy-Require:	
SIP Remote-Party-ID:	No 👻	Referor Bye Delay:	4
Refer-To Target Contact:	No 👻	Referee Bye Delay:	0
Refer Target Bye Delay:	0	Sticky 183:	No 🔻
Auth INVITE:	No 👻	Ntfy Refer On 1xx-To-Inv:	Yes 👻
Set G729 annexb:	Yes -	Use low-bandwidth OPUS:	No 👻
Voice Quality Report Address:		Voice Quality Report Interval:	0
Voice Quality Report Group:		User Equal Phone:	No 👻
Call Recording Protocol:	SIPREC *	Privacy Header:	Disabled -
P-Early-Media Support:	No 💌	SIP SessionID Support:	No 💌
MediaSec Request	No -	MediaSec Over TLS Only:	No 👻
Precondition Support:	Disabled 💌		

Figure 46 Preconditions Feature Configuration

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

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

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.

Group > Users : 4081005517@as1	bsoft22.sipurash.com	Welcome [Logout
Options: Profile Incoming Galls Outgoing Calls	Assign Services Assign Services allows you to assign or unassign services and service pack	s for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.
Call Control	Cancer	
Calling Plans	Available Service Packs	User Service Packs
Leitin Applications Messaging Collatorate Utilitica	Call-Generation (Callenge (Callenge)) Hetering Video Capabilities-Basic	Basic 52 MPP Add > Add >> Add All >> Add All >> Remove All
	Available Devideor	Here Brendere
	ReadWorks Reception: - Small Buildings BroadWorks Supervisor Buildings Communicator Desktop Buildings Communicator Desktop Video Buildings Communicator Mobile Buildings Communicator Mobile Buildings Communicator Mobile Buildings Communicator Mobile	Call Me Nov Call Red/m Call Red/m

Figure 47 Call Waiting

<u>Group > Users</u> : 4081005517	@as1bsoft22.sipurash.com	Welcome [Logo
pilons: Profile Calls Location Calls Call Control Callos Peues Callos Peues Call	Assign Services Valge Services allows you to analyse or unusely networks and service packs for a user. If OK Arely Cannot Analyse Service Packs Holding Video Capabilities-Basic Rea	a service or service pack is unassigned the service data that has been filled out will be loss User Service Packs Back, SP, M90 Simple, Back All >> more All
	Available Services	User Services
	Authentication BrousWorks Agent BrousWorks Anywhere BrousWorks Moholity BrousWorks Receptionit - Office BrousWorks Reception	Advice of Charge Abrenate Aumber Amberge Aumberge Automatic Call Repetition

Figure 48 Anonymous Call Rejection

- 1) Log in with a group account and access User.
- 2) Select a user and navigate $Profile \rightarrow Assign Services$.
- 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.

Info Voice Call History Personal Dire	sctory								
System SIP Provisioning Regio	nal Phone Ext 1	Ext 2 Ext 3	Ext 4 Ext 5 Ext 6 E	ixt 7 Ext 8 Ext 9 Ext					
XSI Line Service									
XSI Host Server:	10.89.81.183		XSI Authentication Typ	e: Login Credentials -					
Login User ID:	4981005527@as1bsoft22.		Login Passwor	rd: •••••					
Anywhere Enable:	No 👻		Block CID Enab	le: No 👻					
DND Enable:	No -		CFWD Enab	le: No 👻					
Block Anonymous Call Enable:	Yes 👻		Call Waiting Enab	ie: Yes -					

Figure 49 Anonymous Call Rejection and Call Waiting Enabling

Info	Voice Call His	story Pers	onal Directory								
Syster	n SIP P	rovisioning	Regional	Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5		
XSI Line S	ervice										
	XSI Host Serv	er: 10.89.	10.89.81.183 XSI Authentication Type					Login Credentials 👻			
	Login User ID:		05339@as1b	soft22.	Login Password:						
	Annu hann Each	o: No -				Block (D Enable:	No 👻			
	Anywhere Enab	e. 110 -									

Figure 50 XSI Host Server Synchronization

Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
Step 1	<pre>Web Portal Voice → Ext(n) → XSI Line Service Block Anonymous Call Enable: No Call Waiting Enable: No XML <block anonymous_call_enable_n="" ua="na">%Block_Anonymous_Call_Enabl e n%</block> <call_waiting_enable_n ua="na">%Call_Waiting_Enable_n% Where, n=extension line number from 1-16 Note: %Block_Anonymous_Call_Enable_n%: Yes and No. %Call_Waiting_Enable_n%: Yes and No Example: <block_anonymous_call_enable_x ua="na">No</block_anonymous_call_enable_x></call_waiting_enable_n></pre>	Block Anonymous Call Enable: Options: Yes/No When set to Yes, it enables synchronization of the block anonymous enable function for the line through the XSI service. Rejects calls from callers who have blocked the display of their number. Default value: No Call Waiting Enable: Options: Yes/No When set to Yes, it enables synchronization of the call waiting function for the line through the XSI service. Allows the user to receive incoming calls while on another call. Default value: No
Step 2	Set XSI Host Server, XSI Authentication Type, Login User ID, Login Password parameters to configure the XSI host server for the line. For more information, see <i>Figure 50</i> .	

4.4.14 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.

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 E	Ext 12
Quick Number 7:	Name 7:	
Quick Number 8:	Name 8:	
Quick Number 9:	Name 9:	
Action Button		
Action Button Function:	Off -	
Action Button Service Destination:		
Service Trigger:	Single Press 👻 Dial Out Delay: 5	
Silent Emergency Call:	Disabled	

Figure 51: Action Button Configuration

Step	Command	Purpose				
System Cor	figuration File CiscoDev_System.xml.template					
Step 1	<pre>Web Portal Voice → Phone → Action Button Action Button Function: Off XML: <action button_function="" ua="na">%ACTION_BUTTON_FUNCTION% %ACTION_BUTTON_FUNCTION% has options: Off and Emergency Call Example: <action_button_function ua="na">>Off</action_button_function></action></pre>	 Allows users to quickly access the designated service. Options: Emergency Call: When you set the field to Emergency Call, make sure that you enter the phone number or URI of the emergency service. Off: When set to Off, the Action button doesn't function. Default: Off 				
	Action Button Service Destination: Empty XML <action_button_service_destination ua="na">%ACTION_BUTTON_SERVICE_DEST%< /Action_Button_Service_Destination> Example: <action_button_service_destination ua="na">Empty</action_button_service_destination </action_button_service_destination 	Provide the phone number or the URI for the service. 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.				
	Service Trigger: Single Press XML: <service_trigger ua="na">%ACTION_BUTTON_SERVICE_TRIGGE R% %ACTION_BUTTON_SERVICE_TRIGGER% has options: Single Press Long Press Press 3 times Example: <service_trigger ua="na">Single Press</service_trigger></service_trigger 	Choose how users can initiate a service call using the phone's Action button. Options: Single Press: Press the Action button once. Long Press: Press the Action button down for at least 2 seconds to make a call. Press 3 times: Press the Action button three times with intervals of less than 2 seconds between each press. Default: Single Press				
	<pre>Dial Out Delay : 5 XML: </pre> <pre></pre>	Sets the timeout period, in seconds, for the phone to initiate the service call after the Action button is pressed. 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. Default: 5 seconds				

Step	Command	Purpose
System Cor	nfiguration File CiscoDev_System.xml.template	
	Silent Emergency Call : Disabled XML: <silent_emergency_call ua="na">%ACTION_BUTTON_SILENT_EMERGEN CY_CALL% %ACTION BUTTON SILENT EMERGENCY CALL% options are: Enabled Disabled</silent_emergency_call 	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.

4.4.15 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.

Info	Voice	Call History	Personal I	Directory													
∢ t 1	Ext 2	Ext 3	Ext 4	Ext 5	0	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	Ext 11	Ext 12	Ext 13	Ext 14	Ext 15	Ext 16	User
Ringer Volume: Handset Volume:			Volume:	9 Headset Volum					et Volume:	9							
Audio Co	mpliance																
			Compliant S	Standard:	TIA	A 👻											
Screen																	
			Арр	earance:	Vic	olet Dark	•										_
Office Ho	ours																
		(Office Hours	Enabled:	Tru	ie 🔺							W	ork Days:	Monday Tues	day Wednes	
			Working Hor	urs Start:	07:	00							Working H	ours End:	19:00		

Figure 52: Office Hours Enable

Step	Command	Purpose						
System Con	figuration File CiscoDev_System.xml.template							
Step 1	<pre>Web Portal Voice → User → Office Hours Office Hours Enabled: True XML: <office_hours_enabled ua="na">%OFFICE_HOURS_ENABLED%e Hours Enabled> %OFFICE_HOURS_ENABLED% has options: False True Example: <office_hours_enabled ua="na">True</office_hours_enabled </office_hours_enabled </pre>	Enables the Office Hours feature for Cisco Desk Phone 9800 Series. Options: True: Enables Office hours. False: Disables the feature. Default: True 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.						
	<pre>Work Days: Monday through Friday XML <work_days ua="na">%WORK_DAYS%</work_days> %WORK_DAYS% ranges from Monday through Friday Example: <work_days ua="na">Monday</work_days></pre>	Customize the workdays by specifying the desired days. During non-workdays, the phone will automatically turn off the screen. By default, workdays are set from Monday to Friday. 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. Sets working hours for workdays using the Working Hours Start and Working Hours End fields. Default: Monday through Friday						
	<pre>Working Hours Start: 07:00 XML:</pre>	Set the start time for working hours using the 24-hour format. 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. Examples: 09:00 for 09:00 am; 17:30 for 05:30 pm Default: 07:00 Set the start time for working hours using the 24-hour format. Outside of the specified working hours, the phone will automatically						
	Hours_End> %WORKING_HOURS_End% can be any hours of the day in 24-hour format	turn off the screen, or enter Deep Sleep Mode only when Deep Sleep Enabled is set to All Days.						



Step	Command	Purpose
System Cor	figuration File CiscoDev_System.xml.template	
	Example: <working_hours_end ua="na">19:00</working_hours_end 	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.

4.4.15.1 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.

Info	Voice	Call History	Personal D	Directory														
∢ t 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 1	5	Ext 16	User	Att Console
			Ringer	Volume:	9							Speake	er Volume:	11				
			Thurbush	rolania.	5							Tradada	r volume.	·				
Audio Co	ompliance		Compliant C	ten deed.	TIA													
			Compliant S	candard;	TIA													
Screen																		
			Appe	earance:	Violet Dark	*												
Office He	ours																	
			Office Hours E	Enabled:	True 👻							v	/ork Days:	Monday T	uesday	/ Wednes		
			Working Hou	irs Start:	07:00							Working H	lours End:	19:00				
Outside	Office Hour	s Deep Sleep																
			Deep Sleep B	Enabled:	False -							Enable Audi	able Alert:	False 👻				
	Phone On T	ime Before Work	king Hour Star	t (mins):	60	60 Phone Off Time After Working Hour End (mins): 60												
			Idle Timeou	t (mins):	5													
Outside	Office Hour	rs Display Off																
			Idle Timeou	t (mins):	5													
-			-								_							
Ste	əp		Comr	nand	ł						Pu	rpose)					
Sy	stem	Config	guratio	on F	ile Cis	coDe	v_Sys	tem.x	ml.tem	plate								
Ste	ep 1		Web 1 Offic	Port ce F	al V Hours	bice Deep	→ Use > Slee	er → ep	Outsi	de	En on	able o the pł	r disa none.	able D Whe)ee n e	p Sle nable	ep M ed, thi	ode s
			Deep XML:	Slee	ep Ena	bled: F	alse				fea pho offi	ture a one οι ce ho	utom utside urs.	atical of th	ly p e d	ower esigr	rs off nated	the
		<	Deep p_ENA	Sle ABLE	ep Er D% <td>abled eep_s</td> <td>d ua=' Sleep_</td> <td>"rw"> _Enab</td> <td>%Deep led></td> <td>Sle</td> <td>Thi ena</td> <td>s opti able th</td> <td>on wo ne Off</td> <td>orks c fice H</td> <td>only loui</td> <td>whe rs.</td> <td>n you</td> <td></td>	abled eep_s	d ua=' Sleep_	"rw"> _Enab	%Deep led>	Sle	Thi ena	s opti able th	on wo ne Off	orks c fice H	only loui	whe rs.	n you	
											Op	tions:						
		8 F	Deep alse	_Sle Nor	ep_EN -wor}	IABLEI Day	0% has Only	s opt All	ions: Days		Fa De	se: Tł ep Sle	ne ph eep N	one v lode.	vill	not ei	nter in	nto

Example:

<Deep_Sleep_Enabled ua="rw">False<
/Deep_Sleep_Enabled>

will turn off the screen outside of the specified working hours. All Days: The phone powers off during both non-workdays and nonworking hours on workdays.

Non-work Day Only: The phone

powers off on non-workdays. For

the specified workdays, the phone

Default: False

Set working hours for workdays using the Working Hours Start and Working Hours End fields.

Step	Command	Purpose					
System Cor	figuration File CiscoDev_System.xml.template						
	<pre>Phone Off Time After Working Hour End: 60 XML <phone_off_time_after_working_hour_en d_mins_="" ua="rw">%Phone_Off_Time_After_Working Hour_End_mins% %Phone_Off_Time_After_Working_Hour_En d_mins% ranges from 0 to 360 minutes Example: <phone_off_time_after_working_hour_end_mins_ ua="rw">60</phone_off_time_after_working_hour_end_mins_></phone_off_time_after_working_hour_en></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					
	<pre>Phone Off Time After Working Hour Start: 60 XML <phone_off_time_after_working_hour_st artmins_="" ua="rw">%Phone_Off_Time_After_Working Hour_Startmins% %Phone_Off_Time_After_Working_Hour_St artmins% ranges from 0 to 360 minutes Example: <phone_off_time_after_working_hour_st artmins_="" ua="rw">60</phone_off_time_after_working_hour_st>60</phone_off_time_after_working_hour_st></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					
	<pre>Enable Audible Alert : False XML: <enable_audiable_alert ua="rw"> Enable_Audiable_Alert ua="rw"> Enable_Audiable_Alert% </enable_audiable_alert> %Enable_Audiable_Alert% has options False True Example: <enable_audiable_alert ua="rw">False </enable_audiable_alert>False False <!--/Enable_Audiable_Alert--><!--/Enable_Audiable_Alert--><!--/Enable_Audiable_Alert--><!--/Enable_Audiable_Alert--><!--/Enable_Audiable_Alert--><!--/Enable_Audiable_Alert--><!--/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					
	<pre>Idle Timeout (mins): 30 (for Deep Sleep Mode) XML: <idle_timeout_mins_ ua="rw">%Idle_Timeout_mins% %Idle_Timeout_mins% ranges from 1 to 60 minutes Example:</idle_timeout_mins_></pre>	This setting applies to the following two scenarios: Before the phone enters a scheduled Deep Sleep Mode 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					

Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
	<pre><idle_timeout_mins_ ua="rw">60</idle_timeout_mins_></pre>	countdown starts. When it times out, the phone powers off.
		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.
		After being manually awakened from Deep Sleep Mode
		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.
		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.
		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.

4.4.15.2 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														
∢ t1	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	User	Att Console
Ringer Volume:					9	9 Speaker Volume:									11			
Handset Volume:					9	9 Headset Volume:								9				
Audio Co	mpliance																	
			Compliant S	itandard:	TIA	•												
Screen																		
			App	earance:	Viole	et Dark 👻												
Office Ho	urs																	
			Office Hours	Enabled:	True	-							W	ork Days:	Monday Tue	sday Wednes		
			Working Hor	urs Start:	07:00	0							Working He	ours End:	19:00			
Outside 0	Office Hour	s Deep Sleep																
			Deep Sleep	Enabled:	False	e -							Enable Audia	able Alert:	False 👻			
	Phone On Ti	me Before Worl	king Hour Sta	rt (mins):	60						Phone Of	f Time After Wo	rking Hour Er	nd (mins):	60			
			Idle Timeou	ut (mins):	5													
Outside 0	Office Hour	s Display Off]		
			Idle Timeou	ut (mins):	5													


Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
Step 1	<pre>Web Portal Voice → User →Outside Office Hours Display Off Idle Timeout (mins): 5 (for Display-Off Mode) XML: <idle mins<br="" timeout="">ua="rw">%Idle_Timeoutmins%meoutmins_> %Idle_Timeoutmins% ranges from 1 to 60 minutes Example: <idle_timeoutmins_ ua="rw">5</idle_timeoutmins_ </idle></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 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.

Info	Voice	Call History	Personal Directory														
4 Syst	em SI	P Provisi	oning 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	E
WebSoc	ket API																
			Control Server URL:														
Help Des	k																
			Help Desk Enable:	No 👻													
			Custom Menu Name:	Help Des	sk												
			Quick Number 0:									Name	0:				
			Quick Number 1:									Name	1:				
			Quick Number 2:									Name	2:				
			Quick Number 3:									Name	3:				
			Quick Number 4:									Name	4:				
			Quick Number 5:									Name	5:				
			Quick Number 6:									Name	6:				
			Quick Number 7:									Name	7:				
			Quick Number 8:									Name	8:				
			Quick Number 9:									Name	9:				

cisco.

Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
Step 1	<pre>Web Portal Voice → Phone →Help Desk Help Desk Enable: No XML: <help_desk_enable ua="na"> %Help_Desk_Enable%</help_desk_enable> %Help_Desk_Enable% has options Yes No Example: <help_desk_enable ua="na">No</help_desk_enable </pre>	Enables the Help Desk feature. Options: Yes and No Default: No
	Custom Menu Name:Empty XML: <custom_menu_name ua="na"> %Custom_Menu_Name% </custom_menu_name> %Custom_Menu_Name% represents a string Example: <custom_menu_name ua="na">Help Desk</custom_menu_name>	Customizes the help desk display name. Default: Empty. If the parameter is empty, the display name is "Help Desk".
	Quick Number (n) XML: <quick_number_1_number ua="na">Name 1</quick_number_1_number> <quick_number_2_name ua="na"></quick_number_2_name 	<n> represents the sequence number of the number. <n> ranges from 0 to 10. If the name is empty and only the quick number is configured, the phone will repeatedly display the quick number as the name.</n></n>

4.4.17 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 C	all History Personal Directory							1000	
	Provisioning Regional Pho	one Ext 1 Ext 2	Ext 3	Ext 4 Ext 5	Ext 6	Ext 7	Ext 8 Ext 9	Ext 10 Ext 11 Ext	xt 12
Canard									
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 v					Line Label		
	Extended Function:	F					Lind Lubb		
Line Key 3	Extension	Dischlad					Chart Name		_
	Extension.	Disabled					Short Name		
Step	Command				Purp	ose			
System Co	onfiguration File C	CiscoDev_Sys	stem.xml.t	emplate					
Step 1	Web Portal Key [n] XML:	Voice → Ph	one →Li	ne	Displa	ays hea	der and line s	session.	
	<line_label_ (n)%<th>2_ ua="na"> abel_2_></th><th>>%LINE_LA</th><th>BEL-</th><th></th><th></th><th></th><th></th><th></th></line_label_ 	2_ ua="na"> abel_2_>	>%LINE_LA	BEL-					
	%LINE_LABEL- number or lc	(n)% can be cation numb	e user ph ber	one					
	Example: <line_label_ ua="na">4089</line_label_ 	2_ 02345 <th>_Label_2</th> <th>_></th> <th></th> <th></th> <th></th> <th></th> <th></th>	_Label_2	_>					

4.4.18 Line Key LED Behavior Customization

NOTE: The Cisco Desk Phone 9800 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:	C=0
Idle LED:	C=0	Remote Undefined LED:	C=0
Local Seized LED:	c=g	Remote Seized LED:	c=r
Local Progressing LED:	c=g	Remote Progressing LED:	c=r
Local Ringing LED:	c=a;p=b	Remote Ringing LED:	c=a;p=b
Local Active LED:	c=g	Remote Active LED:	c=r
Local Held LED:	c=g;p=b	Remote Held LED:	c=r;p=b
Register Failed LED:	C=0	Registering LED:	C=0

Figure 53 Line Key LED Behavior

Step	Command	Purpose
System Cor	figuration File CiscoDev_System.xml.template	
Step 1	Web Portal Voice → Phone → Line Key LED Pattern Custom LED Type: Default XML <custom_led_type ua="na">%CUSTOM_L ED_TYPE%</custom_led_type> Example: <custom_led_type ua="na">Default</custom_led_type 	 Used to customize LED behavior. Options: Default: Choose this option to use system default behavior, which is the current MPP Series behavior. After the web page refreshes, all configuration fields for LED patterns are left as blank to set the LED behavior to the system default for the phones with firmware earlier than Release 11.3.1. Preset 1: Choose this option to retain the pre-configured settings. After the web page refreshes, all fields are populated with preset values. Custom: Choose this option if you want to customize the LED behavior. Any field that you leave blank uses the system default.
	<pre>XML </pre> <pre> </pre> </td <td>Customizes LED behavior. Options: • blank • string_pattern String_pattern format is: • c=<color> [; p=<pattern>] COLOR choices are: • o is OFF • g is GREEN • r is RED • a is AMBER PATTERN choices are: n is for no blink with solid color.</pattern></color></td>	Customizes LED behavior. Options: • blank • string_pattern String_pattern format is: • c= <color> [; p=<pattern>] COLOR choices are: • o is OFF • g is GREEN • r is RED • a is AMBER PATTERN choices are: n is for no blink with solid color.</pattern></color>

Step	Command	Purpose
System Cor	nfiguration File CiscoDev_System.xml.template	
	<pre><remote_progressing_led ua="na">%R EMOTE_PROGRESSING_LED%gressing_LED> <local_ringing_led ua="na">%LOCAL_ RINGING_LED%</local_ringing_led> <remote_ringing_led ua="na">%REMOT E_RINGING_LED%</remote_ringing_led> <local_active_led ua="na">%LOCAL_A CTIVE_LED%</local_active_led> <remote_active_led ua="na">%REMOTE _ACTIVE_LED%</remote_active_led> <local_held_led ua="na">%REMOTE _ACTIVE_LED% <local_held_led ua="na">%REMOTE _ACTIVE_LED% <local_held_led ua="na">%REMOTE _ACTIVE_LED% <local_held_led ua="na">%REMOTE_H ELD_LED% <remote_held_led ua="na">%REMOTE_H ELD_LED%</remote_held_led> <register_failed_led ua="na">%REGISTER ING_LED%</register_failed_led></local_held_led></local_held_led></local_held_led></local_held_led></remote_progressing_led></pre>	b is for blink with color (equivalent of system default "slow blink"). Example: LED shows solid red: c=r;p=n or c=r LED shows blinking amber: c=a;p=b LED turns off: c=o

4.4.18.1 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:	C=0	Serv Subscribe Failed LED:	C=0		
Serv Subscribing LED:	C=0	Parking Lot Idle LED:	C=0		
Parking Lot Busy LED:	c=r	BLF Idle LED:	C=0		
BLF Ringing LED:	c=a;p=b	BLF Busy LED:	c=r		
BLF Held LED:	c=r				



Step	Command	Purpose
System Con	figuration File CiscoDev_System.xml.template	
Step 1	Web Portal Voice \rightarrow Att Console \rightarrow Att Console Key LED Pattern	Used to view key expansion module LED behavior.
	Custom LED Type: Default	Options:
	XML	 blank
	<application led<="" td=""><td>string_pattern</td></application>	string_pattern
	ua="na">%APPLICATION_LED% <td>String_pattern format is:</td>	String_pattern format is:
	ion_LED>	 c=<color> [; p=<pattern>]</pattern></color>
	<serv_subscribe_failed_led< td=""><td>COLOR choices are:</td></serv_subscribe_failed_led<>	COLOR choices are:
	<pre>//Serv_Subscribe_Failed_LED></pre>	 o is OFF g is GREEN r is RED

cisco.

Step	Command	Purpose
System Co	nfiguration File CiscoDev_System.xml.template	
	<pre><serv_subscribing_led ua="na">%SERV_SUBSCRIBING_LED% <parking_lot_idle_led ua="na">%PARKING_LOT_IDLE_LED% <parking_lot_busy_led ua="na">%PARKING_LOT_BUSY_LED% <blf_idle_led ua="na">%BLF_IDLE_LED% <blf_idle_led ua="na">%BLF_IDLE_LED% <blf_idle_led ua="na">%BLF_IDLE_LED% <blf_ringing_led ua="na">%BLF_RINGING_LED% <blf_ringing_led ua="na">%BLF_RINGING_LED%%BLF_RINGING_LED%%BLF_RINGING_LED%</blf_ringing_led></blf_ringing_led></blf_idle_led></blf_idle_led></blf_idle_led></parking_lot_busy_led></parking_lot_idle_led></serv_subscribing_led></pre>	 a IS AMBER PATTERN choices are: n is for no blink with solid color. b is for blink with color (equivalent of system default "slow blink"). Example: LED shows solid red: c=r;p=n or c=r LED shows blinking amber: c=a;p=b LED turns off: c=o

4.4.18.2 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:

Info Voice Call History Personal I	Jirectory
Ext 5 Ext 6 Ext 7 Ext 8	Ext 9 Ext 10 Ext 11 Ext 12 Ext 13 Ext 14 Ext 15 Ext 16 User Att Console
MWI Urgent LED:	
Unit 1 Line key 1	
Extension:	16 v Short Name:
Share Call Appearance:	private 🔽
Extended Function:	
Unit 1 Line key 2	
Extension:	Disabled y Short Name: \$USER
Share Call Appearance:	private -
Extended Function:	
Unit 1 Line key 3	
Extension:	Disabled Short Name: \$USER
Share Call Appearance:	private 👻

Figure 54 KEM Key

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

4.4.19 Security Classification Feature Configuration

Cisco MPP Series currently does not support this feature.

4.4.20 Emergency Call Configuration

Cisco MPP Series currently does not support this feature.

4.4.21 Advice of Charge Configuration

Cisco MPP Series currently does not support this feature.

4.4.22 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.

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 User Att Console TR-069	
SI Service		
XSI Host Server:	XSI Authentication Type: SIP Credentials ~	
Login User ID:	Login Password:	
SIP Auth ID:	SIP Password:	
Directory Enable:	No - Directory Name:	
Directory Type:	Enterprise - Call.og Enable: No -	

Figure 55 Cisco MPP Series XSI Authentication SIP Credentials

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

2) Authenticate with Cisco BroadWorks User Login Credentials.

Info Voice Call History Personal Directory								1000
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 Us	er Att Console	TR-069
3 Service								
XSI Host Server:					XSI Authentication Ty	pe: Login Creden	ials -	
Login User ID:					Login Passwo	rd:		
SIP Auth ID:					SIP Passwo	rd:		
Directory Enable:	No -				Directory Nar	ne:		
Directory Type:	Enterprise -				CallLog Enal	sie: No -		



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

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.

Group				Welcome (Logout)
Options: Profile Resources	Identity/Device Profile I Modify or delete an existing group identity/dev	Modify ice profile.		
Services	OK Apply Delete	Cancel		
Acct/Auth Codes				
Calling Plan	Profile Users	Files	Custom Tags	
Meet-Me Conferencing Utilities	Identily/Device Profile Name: Identily/Device Profile Type: Device Type URL: Protocol:	Sophia_Auth_78xx_88xx Cisco-CP-78xx-88xx-88xx-88xx-88xx-88xx-88xx-88x	:M 66-88-3PCC-EM/	
	Host Name/IP Address:		Port:	
	Transport: Unspecified 📀			
	MAC Address:			
	Serial Number:			
	Description:			
	Outbound Proxy Server:			
	STUN Server:			
	Physical Location:			
	Lines/Ports: Assigned Lines/Ports: Unassigned Lines/Ports: Version: - Authentication	16 D 16		
	Use Identity/Device Profile Type	redentials		
	* Device Access User Name:	sophia		
	* Device Access Password:			
	* Re-type Device Access Password:			

Figure 57 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.

Info Voice	Call His	tory Perso	onal Directory						
▲ System S	IP Pr	rovisioning	Regional	Phone	Ext 1	Ext 2	Ext 3	Ext 4	
Configuration Profile									
Provision	Enable:	Yes 👻			Resyr	nc On Reset:	Yes 👻		
Resync Randor	n Delay:	2			Resync	At (HHmm):			
Resync At Randor	n Delay:	600			Resy	nc Periodic:	3600		
Resync Error Retr	y Delay:	3600			Forced Re	esync Delay:	14400		
Resync Fr	rom SIP:	Yes 👻		Resy	nc After Upgra	ade Attempt:	Yes 👻		
Resync T	rigger 1:								
Resync T	rigger 2:								
User Configurable	Resync:	Yes 👻			Resync Fa	ails On FNF:	Yes 👻		
Profile Authenticati	on Type:	XSI Auther	ntication 👻						
Pro	file Rule:	/\$PSN.xml							
Profile	Rule B:								

Figure 58 Cisco MPP Series Profile Authentication Type

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

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

XSI Phone Service			
XSI Host Server:	xspbsoft22.sipurash.com	XSI Authentication Type:	Login Credentials 👻
Login User ID:	4081005300@as1bsoft22.	Login Password:	
SIP Auth ID:	sophia_5300	SIP Password:	•••••
Directory Enable:	Yes 👻	Directory Name:	Broadsoft Directory
Directory Type:	Enterprise 👻	CallLog Enable:	Yes 👻
CallLog Associated Line:	1 -	Display Recents From:	Server 👻

Figure 59 XSI Host Server and XSI Authentication Type Configuration

Step	Command	Purpose
System Con	figuration File <mac-address>_CiscoDev.xml</mac-address>	
Step 1	Set XSI Host Server. Web Portal Voice → Phone -> XSI Host Server XSI Host Server: xsp.broadworks.net	Sets the XSI Host Server.
Step 2	<pre>Set XSI Authentication Type. Web Portal Voice → Phone -> XSI Host Server XSI Authentication Types: 1) Login Credentials - For account information, see Authenticate with SIP Authentication Credentials. 2) SIP Credentials - For account information, see Authenticate with Cisco BroadWorks User Login Credentials.</pre>	Sets the XSI Authentication Type. Default value: Login Credentials. Note that if the user does not fill in the account information, the single sign-on dialog will appear to prompt the user to enter the account information.

4.5.3 Cisco BroadWorks User Service Configuration

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

Cisco BroadWorks Configuration

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

System > uclg > spark_call > User	rs : 2256@as.bsoft22.rcdn6.cisco.com	Welcome Administrator La
Options:	Assign Services	
Profile	Abaigh bervicea	
Incoming Calls	Assign Services allows you to assign or unassign services and service packs for a user.	I a service or service pack is unassigned the service data that has been filled out will be lost.
Outgoing Calls	OK Anniv Cancel	
Call Control		
Calling Plans	Available Service Packs	User Service Packs
Client Applications		
Messaging		AUTHENTICATION
Communication Barring		BASIC COLLABORATE-DESKTOP
Collaborate		Remove < COLLABORATE-MOBILE
Utilities		COLLABORATE-TABLET
A DOMESTIC AND A DOMESTICA AND A DOMES		SPARED_LINE
		Add All >>
		Remove All <
	Available Services	User Services
	Advice Of Charge	BroadWorks Anywhere
	Alternate Numbers	Add >
	Anonymous Call Rejection	Bernard 4
	Automatic Caliback	NUMBER OF STREET
	Automatic Hold/Retrieve	
	Barge-In Exempt	
	BroadWorks Agent	Add All >>
	BroadWorks Mobility	Remove All +
	BroadWorks Receptionist - Enterprise	
	OK Apply Cancel	

Figure 60 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.

System > uctg > spark_call > User	s : 2256@as.bsoft22.rcdn6.cisco.com	Welcome Administrator (Logout)
Options:	Passwords	
Profile	Parework allows usy configure usys parameters for the web portal participantial	
Incoming Calls	rasena da anona por comigore por pasanendo ne ene neo portas anaros portas.	
Outgoing.Calls	OK Apply Cancel	
Call Control		
Calling Plans		
Client Applications	This user's password expired	
Messaging	Set web access password Set portal password	
Communication Barring	Reset Password	
Collaborate	* Type new password:	
Utilities		
	* Re-type new password:	
	OV Apply Consel	

Figure 61 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.

System > uctg > spark_call > Users	: 2256@as.bsoft22.rdn6.clsco.com Welcome Administrator (Legost)
Options: Profile Incoming Calls Outgoing Calls	Authentication Authentication allow you to use encyclon to safely determine that the user at a given plone is who they say they are. This helps prevent hijacking of service in hosted communications networks. The user name and passend configuration file.
Call Centrol Calling Plans Client Accloations Messaging Communication Barring Collaborate Utilities	OK Agery Cancel * Authentication User Name [256
	OK Apply Cancel

Figure 62 BroadWorks Anywhere Authentication Page

Device Webpage Configuration

Info	Voice	Call History P	ersonal Direc	ctory													
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	User	Att Console	TR-069
Subscribe	r Informati	on															
			Display N	lame: 4	085290462							Us	ser ID:	4085290462			
			Pass	word:								AL	uth ID:				
		Re	versed Auth R	lealm:								SIF	P URI:				
XSI Line S	ervice	_									_					_	
			XSI Host S	erver: x	spbsoft.sipurasi	h.com						XSI Authentication	Type:	Login Credenti	ials -		
			Login Us	er ID: d	olphin005@10.	74.121.51						Login Pass	word:	•••••			
											_	Direct: OID C	a a b la c	Al.	_		

Figure 63 BroadWorks Anywhere XSI Authentication - Login Credentials

Info	Voice	Call History P	ersonal Dire	ctory													
System	SIP	Provisioning	Regional	Phon	e Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Console	TR-069
Subscribe	r Informat	on															
			Display M	Name:	4085290462								User ID:	4085290462			
			Pase	word:									Auth ID:	dolphin005			
		Re	versed Auth R	tealm:									SIP URI:				
(SI Line S	ervice																
			XSI Host S	erver:	xspbsoft.sipura	sh.com						XSI Authentica	ation Type:	SIP Credentia	ls -		
			Login Us	er ID:	dolphin005@10	0.74.121.51					_	Login I	Password:				
			Anuschere E	nable:	Vae -							Block Cl	D Enable:	No -			

Figure 64 BroadWorks Anywhere XSI Authentication - SIP Credentials

Step	Command	Description
Configuration	n File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Set the "Anywhere Enable". Voice Tab → Ext <#>: Anywhere Enable to yes	These device settings allow the user to use BroadWorks Anywhere.
	<pre>Set "XSI Host Server" Voice Tab → Ext <#> → XSI Line Settings: Check Figure 29 and Figure 30</pre>	
	Set "Login User ID" Voice Tab → Ext <#> → XSI Line Settings: Check Figure 29 and Figure 30	
	XML	
	<xsi_host_server_1_ ua="na"> % XSI_Host_Server_1_%Server_1_> <xsi_authentication_type_1_ ua="na">% XSI_Authentication_Type_1_%SI_Authentication_Type_1 ></xsi_authentication_type_1_ </xsi_host_server_1_>	
	<pre><login_user_id_1_ ua="na">% Login_User_ID_1_%</login_user_id_1_></pre>	
	<login_password_1_ ua="na">% Login_Password_1_%word_1_></login_password_1_>	
	<anywhere_enable_1_ ua="na">% Anywhere_Enable_1_%Enable_1_></anywhere_enable_1_>	

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.

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 User Att Console TR-069					
XSI Phone Service	3I Phone Service						
XSI Host Server:	173.37.193.92	XSI Authentication Type: Login Credentials ~					
Login User ID:		Login Password:					
SIP Auth ID:		SIP Password:					
Directory Enable:	Yes ~	Directory Name: RCDN6					
Directory Type:	Enterprise *	CallLog Enable: No -					
CalLog Associated Line:		Display Recents From: Phone v					

Figure 65 Cisco MPP Series Call Log Enabled

Step	Command	Description
Configuratio	n File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Set Cisco BroadWorks Call Log Web Example: Phone Tab → XSI Service: CallLog Enable: Yes	These device settings allow the user to use Cisco BroadWorks Call Logging.
	<pre>XML <calllog_enable ua="na"> %CallLog_Enable% </calllog_enable> <calllog_associated_line ua="n a">%CallLog_Associated_Line% <display_recents_from ua="na">% Display_Recents_From </display_recents_from></calllog_associated_line></pre>	
	<pre>% XML Example:</pre>	

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
Configurati	on File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Set BroadSoft Directory Settings. Web Example: Phone Tab: Directory Enable: Yes XSI Host Server: xsp.broadworks.net Directory Name: Broadsoft	These device settings allow the user to use BroadSoft Directory lookups via the Xtended Services Platform server.
	<pre>XML:</pre>	
	<pre></pre>	
	ctory_Type> XMI. Example:	
	<pre><directory_enable ua="na">Yes</directory_enable></pre>	
	<xsi_host_server ua="na">xsp.broadworks.netI_Host_Server></xsi_host_server 	
	<directory_name ua="na">Broadsoftame></directory_name 	
	<directory_type ua="na">EnterpriseType></directory_type 	

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.

Enterprise	
Options:	Utilities
Resources	Basic
Services Call Center Communication Barring	BroadWorks Anywhere Number Lookup Verify whether a number is used as a BroadWorks Anywhere location anywhere in this service provider/enterprise.
Meet-Me Conferencing Utilities	Common Phone List Display, modify, or import a common enterprise phone list.
	Device Profile Authentication Password Rules Define the device profile password rules that administrators must follow to create or update device profile passwords.
	Enterprise Directory Display the enterprise directory listing.
	Feature Access Codes Configure default feature access codes for new groups.
	Password Rules Define the password rules that users and administrators must follow to create and update passwords.
	Passcode Rules Define the passcode rules that users must follow to create and update portal passcodes.
	SIP Authentication Password Rules Define the SIP password rules that administrators must follow to create or update SIP passwords.

Figure 66 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* \rightarrow *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.

Enterprise			Welcome	[Logout]		
Options:	Groups					
Profile Resources	Add a new group or manage existing groups					
Services Call Center	OK Add Add Grou	p Wizard Cancel				
Communication Barring Meet-Me Conferencing	Group ID Starts With		+	Search		
Utilities	Group ID	Group Name	User Limit	Edit		
	xsi_bsoft_dir_ent1	xsi_bsoft_dir_ent1	2000	Edit		
	xsi_bsoft_dir_ent2	xsi_bsoft_dir_ent2	2000	Edit		
	xsi_bsoft_directory_example	xsi_bsoft_directory_example	1001	<u>Edit</u>		
	xsi_bsoft_directory_test1	xsi_bsoft_directory_test1	1001	<u>Edit</u>		
	xsi_bsoft_directory_test2	xsi_bsoft_directory_test2	1001	Edit		
	[Page 1 of 1]					
	OK Add Add Grou	p Wizard Cancel				

Figure 67 Configure Group Directory Contacts

6) Select Enterprise \rightarrow Profiles \rightarrow 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	Users Add a new user or manage existing users in your de	epartment or group.			
Services	OK Add Cancel				
Call Center Communication Barring	Enter search criteria below				
Meet-Me Conferencing	User ID ᅌ St	arts With 📀			
<u>Utilities</u>		Last Namo	First Name	Phone Number	Extension
	User ID A	Avery	Gee	+1-5081001010	1010
	hsdirtest@sipurash22.com	test	bsdir	+1-5081001018	1018
	Hamilton@sipurash22.com	Hamilton	Alexander	+1-5081001090	1090
	skasisub@sipurash22.com	Subramanian	Kasi Subramanian	+1-5081001043	1043
	tculbertEnterprise6851@sipurash22.com	Culbertson	Tony	+1-5081001003	
	tculbertEnterprise8851@sipurash22.com	Culbertson	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
	wmoorefi@sipurash22.com	Moorefield	Wayne	+1-5081001015	1015
			[Page 1 o	of 1]	
	OK Add Cancel				

Figure 68 Add Users to Group Directory

7) Go to Profile \rightarrow 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 $\rightarrow xsi$	bsoft	dire	ent1 \rightarrow	Utilities.
-------------------------------------	-------	------	--------------------	------------

Enterprise > xsi_bsoft_dir_ent1	
Options:	
Profile	Utilities
Resources	Basic
Services	BroadWorks Anywhore Number Leekun
Call Center	Varify whether a number is used as a BroadWarks Anywhere location in this group
Communication Barring	venty whether a number is used as a broadworks Anywhere location in this group.
Meet-Me Conferencing	Common Phone List
<u>Utilities</u>	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 69 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.

Enterprise > xsi_bsoft_dir_	Welcome [Logout]	
Options: Profile	Outgoing Calls	
Outgoing Calls Messaging	Basic	Advanced
Communication Barring	None of the menu items in this category are enabled.	Personal Phone List Configure a list of numbers to allow quick dialing from
<u>Utilities</u>		your Člick To Dial-enabled client.

Figure 70 Configure Personal Directory

You can configure personal directory here.

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

_				
	Enterprise > xsi	bsoft_dir	ent1 > Users	: bsdirtest@sipurash22.com

Options:	Passwords
Profile	Basewarde allewe you configure your passwarde for the web particl and/or particl
Outgoing Calls	Passwords allows you conligure your passwords for the web portal and/or portal.
Call Control	OK Apply Cancel
Calling Plans	
Messaging	
Communication Barring	Set web access password Set portal password
Utilities	Reset Password
	i ype new password:
	* Re-type new password:
	OK Apply Cancel

Figure 71 User Credentials

The user account is created.

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

Info	Voice	Call History P	Personal Direct	ory								
System	SIP	Provisioning	Regional	Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	User	Att Console
Directory S	Services											
	Pers	onal Directory Ena	able: Yes 🔻					5	Search All Enab	le: Yes 👻		
		Browse Mode Ena	able: Yes					Max	Display Record	ds: 50		

Figure 72 Directory Service

cisco.

Step	Command	Description
Configuration	n File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Set Enterprise User Account Web Example: Voice → Phone → Directory Services: Browse Mode Enable: Yes Max Display Records: 50 XML <browse_mode_enable ua="na">&BROWSE_MODE_ENABLE%< /Browse_Mode_Enable> Note: &BROWSE MODE ENABLE% has two options: Yes and No <max_display_records ua="na">&MAX_DISPLAY_RECORDS% </max_display_records ua="na">&MAX_DISPLAY_RECORDS% Note: &MAX_DISPLAY_RECORDS% has a value range from 50 to 999 XML Example: <browse_mode_enable ua="na">Yes</browse_mode_enable ua="na">Yes</browse_mode_enable ua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">Yesua="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUa="na">YesUA=YA	Browse Mode Enable: Determines whether to trigger an auto search operation to show the contacts when you enter a directory in the phone. Default: Yes Max Display Records: Sets up the maximum number of contacts that display in the All, BroadSoft, and LDAP directories. Default: 50
Step 2	<pre>Web Example: Voice → Phone → XSI Phone Services: Directory Individual Mode Enable : No XML <xsidir_individual_mode_enabl e ua="na">%XSIDIR_INDIVIDUAL_MO DE_ENABLE%_Mode_Enable> Note:%XSIDIR_INDIVIDUAL_MODE_ ENABLE% has two options: Yes and No. XML Example: <xsidir_individual_mode_enabl e ua="na">No_Mode_Enable></xsidir_individual_mode_enabl </xsidir_individual_mode_enabl </pre>	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. Default: No

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Step	Command	Description
Configuration	File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
	Directory Personal Enable : No XML: <xsidir_personal_enable ua="na">%XSIDIR_PERSONAL_ENAB LE% Note: %XSIDIR_PERSONAL_ENABLE% has two options: Yes and No. XML Example: <xsidir_personal_enable ua="na">%XSIDIR_PERSONAL_ENAB LE%</xsidir_personal_enable </xsidir_personal_enable 	Enables the Cisco BroadWorks personal directory for the phone user. Select "Yes" to enable the directory and select "No" to disable it. The parameter is valid only when both "Directory Enable" and "Directory Individual Mode Enable" are set to "Yes". Default: No
	Directory Personal Name : Empty XML: <xsidir name<br="" personal="">ua="na">%XSIDIR_PERSONAL_NAME %XML Example: <xsidir_personal_name ua="na">Empty1_Name></xsidir_personal_name </xsidir>	Name of the Cisco BroadWorks personal directory. Displays on the phone as a directory choice. Default: Empty. If the value is empty, the directory name is "Personal" on the phone.
	<pre>Directory Group Enable: No XML:</pre>	Enables the Cisco BroadWorks group directory for the user. The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual</i> <i>Mode Enable</i> are set to "Yes". Default: No
	Directory Group Name XML: <xsidir group="" name<br="">ua="na">%XSIDIR_GROUP_NAME%<!--<br-->XsiDir_Group_Name> XML Example: <xsidir_group_name ua="na">- </xsidir_group_name></xsidir>	Name of the Cisco BroadWorks group directory. Displays on the phone as a directory choice. Default: Empty If the value is empty, the directory name is "Group" on the phone.

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Step	Command	Description
Configuration	File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
	Directory Enterprise Enable: No XML: <xsidir_enterprise_enable ua="na">%XSIDIR_ENTERPRISE_EN ABLE%le> Note: %XSIDIR ENTERPRISE ENABLE% has two options: Yes and No XML Example: <xsidir_enterprise_enable ua="na">NoEnable></xsidir_enterprise_enable </xsidir_enterprise_enable 	Enables the Cisco BroadWorks enterprise directory for the phone user. The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual</i> <i>Mode Enable</i> are set to "Yes". Default: No
	Directory Enterprise Name: Empty XML: <xsidir_enterprise_name ua="na">%XSIDIR_ENTERPRISE_NA ME% XML Example: <xsidir_enterprise_name ua="na">Direnterprise_Name iDir_Enterprise_Name></xsidir_enterprise_name </xsidir_enterprise_name 	Name of the Cisco BroadWorks enterprise directory. Displays on the phone as a directory choice. Default: Empty. If the value is empty, the directory name is "Enterprise" on the phone.
	Directory GroupCommon Enable: No XML: <xsidir_groupcommon_enable ua="na">%XSIDIR_GROUPCOMMON_E NABLE%able> Note: %XSIDIR_GROUPCOMMON_ENABLE% has two options: Yes and No XML Example: <xsidir_groupcommon_enable ua="na">Non_Enable></xsidir_groupcommon_enable </xsidir_groupcommon_enable 	Enables the Cisco BroadWorks GroupCommon directory for the phone user. The parameter is valid only when both <i>Directory Enable</i> and <i>Directory Individual</i> <i>Mode Enable</i> are set to "Yes". Default: No
	Directory GroupCommon Name: DirGroupCommon XML: <xsidir_groupcommon_name ua="na">%XSIDIR_GROUPCOMMON_N AME%</xsidir_groupcommon_name > XML Example: <xsidir_groupcommon_name ua="na"> DirGroupCommon_ </xsidir_groupcommon_name 	Name of the Cisco BroadWorks Group Common directory. Displays on the phone as a directory choice. Default: Empty If the value is empty, the directory name is "Group Common" on the phone.

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

4.5.6 DND and Call Forwarding Status Sync via XSI Service

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

- Feature Key Synchronization (FKS)
- XSI Synchronization
- 1) To configure the XSI Login Credentials on the Cisco BroadWorks server, see the following figure.

Ontioner	
Profile Incoming Calls	Passwords allows you configure your passwords for the web portal and/or portal.
Outgoing Calls Call Control	OK Apply Cancel
Client Applications Messaging Utilities	Revoke Previously Issued Long Lived Tokens
	Set web access password O Set portal password
	* Type new password
	* Re-type new password:
	OK Apply Cancel

Figure 73 XSI Login Credentials with Cisco BroadWorks

- 1) Log in with a Group account.
- 2) Select Group \rightarrow Profile \rightarrow 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.

International System Incoming Calls Outpring Calls	Authentication Authentication allows you to use encryption to safely determine that the user at a given phone is who they say they are. This helps prevent hipsking of service in hosted communications networks. The user name and password must match the user name and password configured on your phone, or in your phone's configuration file.
Call Control Client Applications Messaging	OK Apply Cancel
<u>Utilities</u>	* Authentication User Name (240498380) * Type new authentication password * De two new authentication password
	ne-gye ien aurein aun jassion. OK Apply Cancel

Figure 74 XSI SIP Credentials with Cisco BroadWorks

- 1) Log in with a Group account.
- 2) Go to Group \rightarrow Profile \rightarrow 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 \rightarrow 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.

Subscriber Information	n			
Di	isplay Name:		User ID:	4085273152
	Password:	•••••	Auth ID:	4085273152
Reversed	Auth Realm:		SIP URI:	
XSI Line Service				
XSI	Host Server:	xspbsoft.sipurash.com	XSI Authentication Type:	Login Credentials 👻
L	ogin User ID:	gtie02@as1bsoft.sipurash.	Login Password:	
Anyw	here Enable:	No 💌	Block CID Enable:	No 💌
	DND Enable:	Yes	CFWD Enable:	Yes



Step	Command	Purpose
System Con	figuration File <mac-address>_CiscoDev.xml</mac-address>	
Step 1	Set XSI Host Server and XSI Authentication Type: Set XSI host server: Web Portal Voice \rightarrow Ext(n) \rightarrow XSI Line Service XSI Authentication Type: Login Credentials or SIP Credentials Authentication with Login Credentials: Web Portal Voice \rightarrow Ext(n) \rightarrow XSI Line Service Login User ID and Login Password OR Authenticate with SIP Credentials: Web Portal Voice \rightarrow Ext(n) \rightarrow Subscriber Information Auth ID and Password	Set the XSI Host Server and XSI Authentication Type.
Step 2	<pre>Enable Call Forward and DND Status Sync via XSI Service: Web Portal Voice → Ext(n) → XSI Line Service DND Enable: Yes/No CFWD Enable: Yes/No XML <dnd_enable_1_ ua="na">%XSI_DND_ENABLE_N%ble_1_> <cfwd_enable_1_ ua="na">%XSI_CFWD_ENABLE_N%nable_1_> Tags: %XSI_DND_ENABLE_N% %XSI_CFWD_ENABLE_N% Range of N% is 1-16</cfwd_enable_1_ </dnd_enable_1_ </pre>	Enable Call Forwarding and DND Status Sync via XSI Service. Default Value: No.

4.5.7 Cisco BroadWorks Visual Voice Mail Configuration

Cisco MPP Series currently does not support this feature.

4.6 Instant Message and Presence Configuration

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

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

nfo Voice Call History Perso	inal Directory													1000
System SIP Provisioning Re	gional Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Console	TR-069
Broadsoft XMPP	_													
	XMPP Enable:	No -								Ser	ver:			
	Port:	5222								User	ID:			
	Password:									Login Invisi	ble: No -			
		0.0												

Figure 76 Cisco MPP Series XMPP Settings

Step	Command	Description
Configuratio	n File <mac-address_ciscodev>.xml</mac-address_ciscodev>	
Step 1	Set BroadSoft XMPP. Web Example: <u>Phone Tab:</u> XMPP Enable: Yes Server: xsp.broadworks.net Port: Broadsoft UserID: user1 Password: password Login Invisible: No Retry Intvl: 50	These device settings allow the user to use Cisco BroadWorks Instant Message and Presence.
	XML Example:	
	XML Example	
	<pre><xmpp_enable ua="na">Yes</xmpp_enable></pre>	
	<pre><xmpp_server ua="na">%BW_IMP_SERVICE_NET_AD DRESS-1%</xmpp_server></pre>	
	<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 	

4.7 Phone Onboarding to Cloud

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

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

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.

То	enable onbo	parding from	the web use	er interface.	see the	following figure
		our unig norn			000 410	ionoming ngaro

Info Voice Call History Personal Direct	tory									
System SIP Provisioning Region	I Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9
Webex										
Onboard Enable: Yes										
Directory Enable: No 💌						Direct	ory Name:			

Figure 77 Webex Onboarding of Phone

Step	Command	Purpose
System Cor	figuration File CiscoDev_System.xml	
Step 1	Configure Cloud Onboarding: Web Portal Voice → Phone → Webex Onboard Enable: Yes or No XML <webex_onboard_enable ua="na">%WEBEX_ONBOARD_ENABLE%ex_Onboard_Enable> Note: %WEBEX_ONBOARD_ENABLE% has two types: Yes or No Example: <webex_onboard_enable ua="na">Yes</webex_onboard_enable </webex_onboard_enable 	Enables Cloud onboarding of the phone. Default value: "Yes". When set to "No", the phone does not onboard to Cloud.

4.7.1 Phone Issues Reporting from Control Hub

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

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

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

Problem Report Tool					
PRT Upload Rule:	https://cisco-int.bcld.webex.com/dms/spa8841-3PCC/				
PRT Upload Method:	PUT V PRT Max Timer:				
PRT Name:	prt-log				
PRT HTTP Header:					
PRT HTTP Header Value:					

Figure 78 PRT Upload to Cloud

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

4.7.2 Phone Reboot from Control Hub

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

- Cisco IP Phone 6800 Series Multiplatform Phones Administration Guide
- Cisco IP Phone 7800 Series Multiplatform Phones Administration Guide
- Cisco IP Phone 8800 Series Multiplatform Phones Administration Guide
- Cisco IP Conference Phone 7832 Series Multiplatform Phones Administration Guide
- Cisco IP Conference Phone 8832 Series Multiplatform Phones Administration Guide
- Cisco IP Phone 9800 Series <u>https://help.webex.com/en-us/landing/ld-n0mkkj8-CiscoDeskPhone9800Series/BroadWorks#Administration</u>

4.7.3 Webex Contact Support Configuration

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

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

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

To turn *Directory Sync* on, available <u>here</u>. For more information, see the *Webex for Cisco BroadWorks Solution Guide* available <u>here</u>. To enable support for Webex contacts 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 User Att Console TR-069
Silent Ring Duration:	60
Extension Mobility	
EM Enable:	No = EM User Domain:
Session Timer(m):	480 Countdown Timer(s): 10
Preferred Password Input Mode:	Alphanumeric +
Webex	
Onboard Enable:	Yes ·
Directory Enable:	No = Directory Name:

Figure 79 Webex Contacts Support

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

4.7.4 Webex Call Log Configuration

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

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

Successful onboarding to Cloud.

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

To turn *Call log Sync* on, *Webex for Cisco BroadWorks Solution Guide* available <u>here</u>. To enable support for Webex call log 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 User Att Console TR-069
Login User ID:	wfpqes49cp@29496224 in/ Login Password:
SIP Auth ID:	+ 1281651003 SIP Password:
Directory Enable:	Yes - Directory Individual Mode Enable: No -
Directory Type:	Enterprise - Directory Name: Company Directory
Directory Personal Enable:	Yes = Directory Personal Name:
Directory Group Enable:	Yes v Directory Group Name:
Directory Enterprise Enable:	Yes = Directory Enterprise Name:
Directory GroupCommon Enable:	Yes + Directory GroupCommon Name:
Directory EnterpriseCommon Enable:	Yes = Directory Enlargeise Common Name:
Add Contacts to Directory Personal	No -
Call Log	
CallLog Enable	Yes v CallLog Associated Line: 1 v
Display Recents From	Websx ×

Figure 80 Webex Call Log Support

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5 Device Management

The Cisco BroadWorks Device Management feature provides the capability to automate generation of device configuration files to support mass deployment of devices. This section identifies the Device Management capabilities supported by the 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.

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

Cisco BroadWorks Device Management Interoperability Test Plan Support Table						
Test Plan Package	Test Plan Package Items	Supported	Comments			
HTTPS File Download with	HTTPS Download with Client Authentication Using XSP FQDN	Yes				
Client Authentication	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	Register with Authentication	Yes				
Samty rests	Call Origination	Yes				
	Call Termination	Yes				
	Remote Restart	Yes				
	Shared Line Origination	Yes				
	Shared Line Termination	Yes				
	Shared Line Status	Yes				
	Busy Lamp Field	Yes	Except 7811, 7832, and 8832 model.			
	Network-Based Conference	Yes				
Flexible Seating	Association via Voice Portal	Yes				
	Association via Phone	Yes	Except lock and unlock.			
No Touch Brovisioning	Provision via DHCP Options Field	Yes				
Frovisioning	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 \rightarrow Resources \rightarrow 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.					
OK	Apply Add	Cancel					
Tag Set: System Default							
Delete	Tag Name 🔺	Tag Value					
	%APPLICATION_DOMAIN%	as.iop2.broadworks.net					
	%DNS_SERVER_1%	199.19.193.13					
	%DNS_SERVER_2%	199.19.193.29					
	%DNS_SERVER%	199.19.193.12					
	%KWS300_XSP_PATH%	http://xsp1.iop2.broadworks.net/dms/kws300					
	%SBC_ADDRESS%	199.19.193.9					
	%SBC_PORT%	5060					
	%SIP_TRANSPORT%	0					
	%SNTP_SERVER_1%	time.nist.gov					
	%SNTP_SERVER_2%	time.windows.com					
	%SNTP_SERVER%	time-b.nist.gov					
	%SNTP_SERVERIP%	192.5.41.41					
	%USE_SBC_BOOL%	true					
	%USE_SBC_BOOLEAN%	1					
	%XSP_ADDRESS_XSI_ACTION	S% xsp1.iop2.broadworks.net					
	%XSP_ADDRESS%	xsp1.iop2.broadworks.net					

Figure 81 System Default Tag Settings

5.2.1.2 Create Device Type-specific Tags

Browse to System \rightarrow Resources \rightarrow 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: 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_DEACTIVA TE%	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_DEACTIVAT E%	String or blank, that is, *004	Optional: Unique star code to deactivate on-device Block Caller ID.
%BROADSOFT_DIR_NAM E%	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_DEACTIVA TE%	String or blank, that is, *006	Optional: Unique star code to deactivate on-device Block Caller ID.
%CALL_HISTORY_KEY_LI ST%	Default: hold 1;endcall 2;join 4	Programmable Soft Keys (PSK) settings for "Call History". For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%CONFERENCING_KEY_L IST%	Default: hold 1;endcall 2;join 4	PSK settings for "Conferencing" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%CONNECTED_KEY_LIST %	Default: hold 1;endcall 2;conf 3;xfer 4;t oggle;bxfer;confLx;xferLx;par k;phold;flash;	PSK settings for "Connected" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%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 Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%DAYLIGHT_SAVING_TIM E_ENABLE%	Yes/No	Enable/Yes to observe daylight savings time.
%DAYLIGHT_SAVING_TIM E%	Default: start=3/-1/7/2;end=10/- 1/7/2;save=1	Daylight Savings Settings. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%DIAL_PLAN%	= ([2346789]11S0 [0- 1][2- 9]11S0 0 00S0 01[2-9]xx. [*#]xx[*#] *xx. *xxxxxS0 *xxxxxxxxxx [2-9]# 011x. [0-1]xxxxxx [0-1][2- 9]xxxxxxxS0 [2- 9]xxxxxxXS0 [2- 9]xxxxxxx 11S0 [2-9]x.)	This is a default U.S. dial plan that supports most forms of dialing.
% DIALING_CONSULT_KEY_ LIST%	Default: delchar 1;endcall 2;dial 3;	PSK settings for "Consult Transfer" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%DIALING_INPUT_KEY_LIS T%	Default: dial 1;delchar 2;clear 3;cancel 4;left 5;right 6;starcode 7;alph a 8;dir	PSK settings for "Dialing" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%DICTIONARY_SERVER_ SCRIPT%	Example: d1=Spanish;l1=es-ES;x1=es- ES.tar;d2=French;l2=fr- FR;x2=fr-FR.tar	Localization settings. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%DICTIONARY_SERVER_ SCRIPT_8875%	Example: d1=Spanish;l1=es-ES;x1=es- ES.tar;d2=French;l2=fr- FR;x2=fr-FR.tar	Localization settings.
%DISPLAY_DIVERSION_IN F0%	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
rag Name	Valia Gettings	Description
%FAILBACK_INTVL%	Default: 3600	Interval to force SIP Registration failback. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%INVITE_RETRY_ATTEMP TS%	String (0-6) Recommend: 3	Number of re-transmissions of Call Requests.
%NON- INVITE_RETRY_ATTEMPT S%	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 Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%IDLE_KEY_LIST%	Default: redial 1;newcall 2;dnd 3;unpar k 4;pickup 5;cfwd 6	PSK settings for Idle call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%INVITE_RETRY_ATTEMP TS%	Default: 3 Range: 1-6	Number of attempts a SIP line will retransmit a SIP INVITE/Call Request.
%LINE_ID_MAPPING%	Default: Vertical First Options: Vertical First/Horizontal First	PLK line call appearance mapping.
%NEW_CALL_RECENTS_ KEY_LIST%	Default: cancel 1;call 2;	PSK settings for "New Call" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%NON- INVITE_RETRY_ATTEMPT S%	Default: 3 Range: 1-6	Number of attempts a SIP line will retransmit a SIP REGISTER/SUBSCRIBE Request.
%OFF_HOOK_CONSULT_ KEY_LIST%	Default: redial 1;cancel 2;	PSK settings for "Consult Transfer" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.

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 Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%ON_HOOK_DIAL_KEY_LI ST%	Default: cancel 1;call 2;delchar 3;	PSK settings for "On Hook" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%PLK-x%	Default: PLK-1 = 1 PLK-2 = 2 Options: Depends on model.	Programmable Line Key (PLK) settings for non-Bluetooth enabled devices (7821, 7841, 7861). Example tag: • PLK-1 • PLK-2 Note: "x" represents the number of lines supported on the device. • 7821 supports 2 lines • 7841 supports 4 lines • 7861 supports 16 lines
%PREFERRED_CODEC%	Default: G722 Values: G722/G722.2/G711u/G711a/ G729a/G729ab/iLBC	Preferred Codec: G722/G722.2/G711u/G711a/G72 9a/G729ab/iLBC
%PROGRESSING_KEY_LI ST%	Default: endcall 2	PSK settings for "New Call" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%PSK_ENABLE%	Default: Yes Options: Yes/No	Enables the addition of customized programmable soft keys.
%RESYNC_AT_RANDOM_ DELAY%	String (0-65535) Default: 600	Random delay following boot-up sequence specified in seconds.
%RESYNC_ERROR%	String (0-65535) Default: 3600	Delay resyncing after a failed resync attempt.
%RESYNC_FORCED%	String (0-65535) Default: 14400	Forced resync delay after initial resync timer has expired.
%RESYNC_PERIODIC%	String (0-65535) Default: 3600	Time in seconds between periodic resyncs.
%RESYNC_RANDOM%	String (0-65535) Default: 2	Random resync time to reboot.
%RESYNC_TIME%	HHmm or blank Example: 0100	Optional: Time in 24-hour format to force the device to resync with Cisco BroadWorks Device Manager.

Tag Name	Valid Settings	Description
%RETRY_REG_RSC%	Default: 5??,6?? Options: Null, {SIP Response Value)	This tag is optional. This value controls failover events for SIP Registration. This tag is optional. When setting to blank, the device does not failover Register based SIP Register final response. When setting to final response value, the device could failover Register based on SIP Register final response.
%RINGING_KEY_LIST%	Default: answer 1;ignore 2;toggle 4	PSK settings for "New Call" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%RFC_2543_HOLD%	Default: No Options: Yes/No	Ability to support RFC 2543 Hold.
%SCREEN_SAVER_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/G72 9a/G729ab/iLBC.
%SHARED_ACTIVE_KEY_ LIST%	Default: newcall 1;barge 2;cfwd 3;dnd 4	PSK settings for "Shared Call Active" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%SHARED_HELD_KEY_LI ST%	Default: resume 1;barge 2;cfwd 3;dnd 4	PSK settings for "Shared Call Held" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%SHARED-LINE-DND- CFWD-ENABLE%	Default: Yes Options: Yes/No	Enable/Disable the ability to display DND/CFWD soft keys. Note: ONLY valid for 10.3.1.

Tag Name	Valid Settings	Description
%SIP_AUTH_REALM%	BroadWorks Default Realm Value	If SIP Auth Realm is enabled on BroadWorks AS, value should be equal to: AS_CLI/Interface/SIP/defaultReal m
%SIP_TCP_MAX%	Default: 5080 Range: 1-65535	SIP TCP max port range used.
%SIP_TCP_MIN%	Default: 5060 Range: 1-65535	SIP TCP min port range used.
%SIP_TRANSPORT-x%	Default: UDP Options: UDP/TCP/TLS	 SIP transport per line. Example Tag: SIP_TRANSPORT-1 SIP_TRANSPORT-2 Note: x represents number of lines supported on device. 7821 supports 2 lines 7841 supports 4 lines 7861 supports 16 lines
%SIP_UDP_PORT-x%	Default: UDP Range: 1-65535	Extension SIP UDP Listening Port. Example Tag: • SIP_UDP_PORT-1 • SIP_UDP_PORT-2 Note: x represents number of lines supported on device. • 7821 supports 2 lines • 7841 supports 4 lines • 7861 supports 16 lines
%START- CONF_KEY_LIST%	Default: hold 1;endcall 2;conf 3;toggle;	PSK settings for "Conference Call" call state. For more information, see the Cisco IP Phone MPP Series Multiplatform Phones Administration Guide.
%START- XFER_KEY_LIST%	Default: hold 1;endcall 2;xfer 4;toggle;	PSK settings for "Call Transfer" call state. For more information, see the <i>Cisco IP Phone MPP Series</i> <i>Multiplatform Phones</i> <i>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_CO DEC%	Default: G722 Values: G722/G722.2/G711u/G711a/ G729a/G729ab/iLBC	Secondary Codec Offered/Preferred: G722/G722.2/G711u/G711a/G72 9a/G729ab/iLBC.

Tag Name	Valid Settings	Description
ray Name	Valia Settings	Description
%TRY_BACKUP_RSC%	Set it SIP INVITE final response values to trigger failover, for example, 5??,6??. Or	This tag is optional. When setting to blank, the device does not failover based SIP final response. When setting to final response
	Leave blank	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_COD EC_ONLY%	Default: No Options: Yes/No	Control how a SIP line negotiates audio. When "Yes", use only defined codecs.
%VM_SUBSCRIBE_INTER VAL%	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_ENA BLE-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.
%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 Settings \rightarrow Executive menu.
%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.
%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.

Tag Name	Valid Settings	Description
%LOGIN_USER_ID_1_%	Standard BroadWorks Password Guidelines	BroadWorks Anywhere Username.
%MICROPHONE_GAIN%	Slider (softer to louder)	Microphone Gain.
% PEER_FIRMWARE_SHARI NG_LOG_SERVER%	IP Address	PFS Log Server.
%PEER_FIRMWARE_SHA RING%	Options: Yes/No	To enable PFS. For more information, see the Cisco IP Phone 8800 Series Multiplatform Phone Administration Guide.
%PRIVACY_HEADER_1_%	Disabled/none/header/ session/user/id	To configure network-provided privacy.
%PROFILE_ACCOUNT_EN ABLE%	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_DIFFS ERV_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/En terprise Common/Group Common Default: Enterprise	Directory types.
%P_EARLY_MEDIA_SUPP ORT_N%	Options: Yes/No Default: No	N must be 1 to 16
%XSI_DND_ENABLE_1%	Options: Yes/No Default: No	
%XSI_CFWD_ENABLE_1%	Options: Yes/No Default: No	
%PROFILE_AUTH_TYPE%	Options: Disabled/Basic HTTP Authentication/XSI Authentication Default: Basic HTTP Authentication	

Tag Namo	Valid Settings	Description
lag Name	valiu Settings	Description
%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_OP TIONS%	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_SUPPO RT_x%	Options: Yes and No Default: Yes	Where "x" is the extension line number (ranges from 1 to 16).
%CALL_STATISTICS%	Options: Yes and No Default: Yes	
%USE_LOW_BANDWIDTH _OPUS_#%	Options: Yes and No Default: No	Where "#" is extension line number (ranges from 1 to 16).
%GROUP_#_NAME%	Default: Blank	Where "#" is extension line number (ranges from 1 to 16).
%PAGING_GRP_1%	Default: pggrp=224.168.168.168:3456 0;name=All;num=800;listen=y es;	

Tag Name	Valid Settings	Description
%CUSTOM_LED_TYPE%	Options: Default, Preset 1, Custom Default: Default	
%DISABLED_LED% %IDLE_LED% %REMOTE_UNDEFINED_L ED% %LOCAL_SEIZED_LED% %REMOTE_SEIZED_LED% %LOCAL_PROGRESSING_ LED% %REMOTE_PROGRESSIN G_LED% %LOCAL_RINGING_LED% %REMOTE_RINGING_LED% %LOCAL_ACTIVE_LED% %REMOTE_ACTIVE_LED% %REMOTE_HELD_LED% %REGISTER_FAILED_LED % %REGISTERING_LED%	Options blank and string_pattern Default: blank	
 %APPLICATION_LED% %SERV_SUBSCRIBE_FAIL ED_LED% %PARKING_LOT_IDLE_LE D% %PARKING_LOT_BUSY_L ED% %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_METHO D%	Options: PUT, POST Default: POST	
%REPORT_TO_SERVER%	Options: On Request, On Local Change, Periodically Default: On Request	
%PERIODIC_UPLOAD_TIM ER%	The value (in seconds) ranges from 600 to 259200. Default: 3600	

Tag Name	Valid Settings	Description
%UPLOAD_DELAY_ON_LO CAL_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_ENABL E%	Options: Yes, No Default: Yes	
%MAX_DISPLAY_RECORD S%	Range: 50 to 999 Default: 50	
%XSIDIR_INDIVIDUAL_MO DE_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_PERSONAL_EN ABLE%	Options: Yes, No Default: No	
%XSIDIR_PERSONAL_NA ME%	Default: Empty	
%XSIDIR_GROUP_ENABL E%	Options: Yes, No Default: No	
%XSIDIR_GROUP_NAME%	Default: Empty	
%XSIDIR_ENTERPRISE_E NABLE%	Options: Yes, No Default: No	
%XSIDIR_ENTERPRISE_N AME%	Default: Empty	
%XSIDIR_GROUPCOMMO N_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_GROUPCOMMO N_NAME%	Default: Empty	
%XSIDIR_ENTERPRISECO MMON_ENABLE%	Options: Yes, No Default: No	
%XSIDIR_ENTERPRISECO MMON_NAME%	Default: Empty	
%ACD_STATUS_1%	Options: Sync From Server Sync From Local Default: Sync From Server	

Tag Name	Valid Settings	Description
%AUTO_AVAILABLE_AFTE R_SIGN-IN_1%	Options: Yes, No Default: No	
%PRECONDITION_SUPPO RT_x%	Options: Disabled, Enabled Default: Disabled	
%BLOCK_ANONYMOUS_C ALL_ENABLE_1%	Options: Yes, No Default: No	
%CALL_WAITING_ENABLE _1%	Options: Yes, No Default: No	
%WEBEX_ONBOARD_ENA BLE%	Options: Yes, No Default: Yes	Enable onboarding of the phone to Cloud.
%WEBEX_DIRECTORY_E NABLE%	Options: Yes, No Default: No	Enables Webex directory.
%WEBEX_DIRECTORY_N AME%	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_SERVIC E%	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_FUNC TION%	Options: Off, Emergency Calls	
%ACTION_BUTTON_SERV ICE_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.
%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.

Tag Namo	Valid Sottings	Description
	Valid Settings	
%ACTION_BUITON_SILEN T_EMERGENCY_CALL%	Options: Enalbed Disabled Default: Disabled	This setting works only when the Action Button Function is set to Emergency Call.
%ACTION_BUTTON_SERVI CE_DEST%	Phone number or URI. Default: Empty	Provide the phone number or the URI for the service.
%OFFICE_HOURS_ENABL ED%	Options: True, False	
%WORK_DAYS%	Options: Monday through Friday	
%WORKING_HOURS_STA RT%	Options: Any hours of the day in 24-hour format	
%WORKING_HOURS_END %	Options: Any hours of the day in 24-hour format	
%DEEP_SLEEP_ENABLED %	Options: False, Non-work Day Only, All Days	
%Phone_OFF_TIME_AFTE R_WORKING_HOURS%	Options: 0 to 360 minutes	
%PHONE_ON_TIME_BEFO RE_WORKING_HOURS%	Options: 0 to 360 minutes	
%ENABLE_AUDIBLE_ALE RT_WHEN_DEEP_SLEEP %	Options: True, False	
%IDLE_TIMEOUT_FOR_DE EP_SLEEP_OUTSIDE_OFF ICE_HOURS%	Options: 0 to 60 minutes	
%IDLE_TIMEOUT_FOR_DI SPLAY_OFF_OUTSIDE_OF FICE_HOURS%	Options: 0 to 60 minutes	
%HELP_DESK_ENABLE%	Options: Yes, No	
%HELP_DESK_QUICK_NU MBER_X%	Ranges from 0 to 9	
%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	

vice Mai	nagement Tag Sets Modify emanagement tags defined in the tag set. Tags can be added to the set or deleted from the	e set.	
ок	Apply Add Cancel		
 Tag Set Nam 	e: Cisco-3PCC-Tags		
Delete	Tag Name 🔺	Tag Value	Edit
	%3rd_Party_CA_ROOT%		Edit
	%3RD_PARTY_CA_ROOT%		Edit
	%6800_LOGO_PIC_URL%		Edit
	%7800_WALLPAPER_PIC_URL%		Edit
	%8800_LOGO_PIC%		Edit
	%ACCESS_PROTOCOL%	http://	Edit
	%AMRWB_ENABLE%	Yes	Edit
	%AUTH_INVITE%	No	Edit
	%AUTO_ANS_ON_CALL-1%	No	Edit
	%AUTO_ANS_ON_CALL-10%	No	Edit
	%AUTO_ANS_ON_CALL-11%	No	Edit
	%AUTO_ANS_ON_CALL-12%	No	Edit
	%AUTO_ANS_ON_CALL-13%	No	Edit
	%AUTO_ANS_ON_CALL-14%	No	Edit
	%AUTO_ANS_ON_CALL-15%	No	Edit
	%AUTO_ANS_ON_CALL-16%	No	Edit
	%AUTO_ANS_ON_CALL-2%	No	Edit
	%AUTO_ANS_ON_CALL-3%	No	Edit
	%AUTO_ANS_ON_CALL-4%	No	Edit
	%AUTO_ANS_ON_CALL-5%	No	Edit

Device Management Tag Sets Modify Display all the device management tags defined in the tag set. Tags can be added to the set or deleted from the set. * Tag Set Name: Cisco-3PCC-Tags
 Deco-3PEC-Tags

 Tag Name Ial

 %AUTO, ANS, ON, CALL-9%

 %BUCC, MAC, ON, CALL-9%

 %BLOCK, ANC, OR, CATUATE%

 %BLOCK, CID, CATIVATE%

 %BLOCK, CID, CATIVATE%

 %BROADSOFT, ACD, ENABLE-10%

 %BROADSOFT, ACD, ENABLE-11%

 %BROADSOFT, ACD, ENABLE-11%

 %BROADSOFT, ACD, ENABLE-13%

 %BROADSOFT, ACD, ENABLE-3%

 %BROADSOFT, ACD, ENABLE-3%

</tabr> Delete Tag Value
 Edit

 Edit
 No No No No BOTH *001 *002 *003 *004 No No No No No No No No Edit [Page 2 of 10] First Previous Next Last

Device Management Tag Sets Modify

Display all the devi	ce management tags defined in the tag set. Tags can be added to the set or deleted from the set		
ОК	Apply Add Cancel		
* Tag Set Na	Ime: Cisco-3PCC-Tags		
Delete	Tag Name	Tag Value	Edit
	%BROADSOFT_ACD_ENABLE-4%	No	Edit
	%BROADSOFT_ACD_ENABLE-5%	No	Edit
	%BROADSOFT_ACD_ENABLE-6%	No	Edit
	%BROADSOFT_ACD_ENABLE-7%	No	Edit
	%BROADSOFT_ACD_ENABLE-8%	No	Edit
	%BROADSOFT_ACD_ENABLE-9%	No	Edit
	%BROADSOFT_ACD_ENABLED%	No	Edit
	%BROADSOFT_DIR_NAME%	RCDN6	Edit
	%BROADSOFT_HOTELING_ENABLE-1%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-10%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-11%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-12%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-13%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-14%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-15%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-16%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-2%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-3%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-4%	No	Edit
	%BROADSOFT_HOTELING_ENABLE-5%	No	Edit

CISCO Device Management Tag Sets Modify ed in the tag set. Tags can be added to the set or deleted from the set ment tags defin Apply Add Cancel OK * Tag Set Name: Cisco-3PCC-Tags Delete Tag Name Tag %BROADSOFT_HOTELING_ENABLE-6% %BROADSOFT_HOTELING_ENABLE-7% No PROADSOFT_HOTELING_ENABLE-7% Tag Value Edi <u>Edit</u> Edit %BROADSOFT_HOTELING_ENABLE-8% No <u>Edit</u> %BROADSOFT_HOTELING_ENABLE-9% Edit %BROADSOFT_HOTELING_ENABLED% No Edit %CALL APPEAREANCE% 2 Edit Edit %CALL_BACK_ACTIVATE% *005 %CALL_BACK_DEACTIVATE% Edit Edit Edit *006 %CALL_HISTORY_KEY_LIST% %CFWD_ENABLE_1_% hold[1;endcall[2;join]4 Yes Edit Edit Edit %CFWD ENABLE 16 % No %CFWD_ENABLE_2_% %CFWD_ENABLE_3_% hold|1;endcall|2;join|4 hold|1;endcall|2;join|4 hold|1;endcall|2;join|3;xfer[4;toggle;bxfer;confLx;xferLx;park;phold;flash; %CONFERENCING KEY LIST% Edit Edit %CONNECTED_KEY_LIST% %DAYLIGHT_SAVING_TIME_ENABLE% Yes Edit %DAYLIGHT_SAVING_TIME% start=3/-1/7/2 end=10/-1/7/2 save=1 Edit xS0 %DIAL PLAN% Edit %DIALING_CONSULT_KEY_LIST% delchar[1;endcall]2;dial[3; Edit %DIALING INPUT KEY LIST% arl2:cloarl2:o Device Management Tag Sets Modify gement tags defined in the tag set. Tags can be added to the set or deleted from the set. lay all the device ma Apply Add Cancel * Tag Set Name: Cisco-3PCC-Tags
 Delete
 Tag Name I

 %DICTIONARY_SERVER_SCRIPT%

 %DISPLAY_DIVERSION_INFO%

 %DND_ENABLE_1_%
 Edit Edit Edit Tag Value d1=Eng Yes h;x1=en-US.xml;d2=Spanish;x2=es-ES.xml;d3=France;x3=fr-FR.xml; Edit Yes %DND_ENABLE_16_% No Edit Edit Edit Edit Edit %DND_ENABLE_2% %DND_ENABLE_2% %DNS_CACHE_3% %DNS_CACHE_TTL% %DNS_SERVER_1% No No 10.89.81.187 %DNS_SERVER_ORDER% %EM_ENABLED% %EMERGENCY_NUMBER% Manual-Dhcp No 911 Edit Edit Edit Edit Edit Edit Edit Edit %FAILBACK_INTVL% 3600 %FAILBACK_INTVL% %FIRMWARE_VERSION_CP-8800-3PCC% %FIRMWARE_VERSION_CP-7800-3PCC% %FIRMWARE_VERSION_CP-8800-3PCC% %G7114_ENABLE% %G711U_ENABLE% sip68xx.11-0-2MPP-55dev.loads sip88xx.11-1-1MSR1-1.loads Yes Yes Edit %G722_ENABLE% %G729A_ENABLE% Yes Yes Edit Edit %HOLD_KEY_LIST% resume|1;endcall|2;newcall|3;redial;dir;cfwd;dnd Edit First Previous [Page 5 of 10] Next Last Device Management Tag Sets Modify ent tags defined in the tag set. Tags can be added to the set or deleted from the set. Apply Add Cancel OK * Tag Set Name: Cisco-3PCC-Tags Tag Value_ rediai|1;newcali|2;dnd|3;unpark|4;pickup|5;cfwd|6 Delete Tag Name A %IDLE_KEY_LIST% %IKM_HTTP_ENCRYPT_CONTENT% No %ILBC_ENABLE% %INVITE_RETRY_ATTEMPTS% %INVITE_RETRY_ATTEMPTS% %KEY_AGAIN_RESET_TIME% %KEY_DOUBLE_PRESS_TIME% 3 800 200 400 %LINE_ID_MAPPING% %NEW_CALL_RECENTS_KEY_LIST% Vertical First cancel|1;call|2; 3 %NCH_CALL_RECEIVIS_RET_LIS1% %NON-INVITE_RETRY_ATTEMPTS% %OFF_HOOK_CONSULT_KEY_LIST% %ON_HOOK_DIAL_KEY_LIST% redial|1;cance||2; redial|1;cance||2; redial|1;dir|2;cfwd|3;dnd|4;lcr|5;unpark[6;pickup|7;gpickup|8;starcode|11;alpha|12 cancell1:calll2:delcharl3: %OP_EARLY_MEDIA_SUPPORT_1% %P_EARLY_MEDIA_SUPPORT_1% %P_EARLY_MEDIA_SUPPORT_10% %P_EARLY_MEDIA_SUPPORT_11% Yes No Edit Edit Edit %P_EARLY_MEDIA_SUPPORT_12% No %P_EARLY_MEDIA_SUPPORT_13% %P_EARLY_MEDIA_SUPPORT_14% No

No

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Next Last

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evice M	lanagement Tag Sets Modify			
play all the de	vice management tags defined in the tag set. Tags can be added to t	the set or deleted from the set.		
ОК	Apply Add Cancel			
• Tag Set N	Name: Cisco-3PCC-Tags			
Delete	Tag Name		Tag Value	Edit
	%P_EARLY_MEDIA_SUPPORT_15%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_16%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_2%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_3%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_4%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_5%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_6%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_7%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_8%		No	Edit
	%P_EARLY_MEDIA_SUPPORT_9%		No	Edit
	%P_TIME%		0.020	Edit
	%PERIODIC_UPLOAD_TO_SERVER%		3600	Edit
	%PLK-1%		1	Edit
	%PLK-2%		2	Edit
	%PREFERRED_CODEC%		G722	Edit
	%PROCESSING_KEY_LIST%		endcall 2	Edit
	%PROFILE_AUTH_TYPE%		Basic Http Authentication	Edit
	%PROFILE_AUTHENTICATION_TYPE%		Basic Http Authentication	Edit
	%PSK_ENABLED%		Yes	Edit
	%REPORT_TO_SERVER%		On Request	Edit
	First Previous	[Page 7 of 10]	Nex	t Last

Delvice Management Tag Sets Modify Display all the device management tags defined in the tag ast. Tags can be added to the set of deleted from the set. OK Apply Add Cancel • Tag Set Name Cancel • • Tag Set Name East East • Name, Tits 4 East • Name, Tits 4 East • Name, Tots 4 East • Name, Tots, Name Second East • Name, Transport, Tots UDP East • Name, Transport, Na UDP</



Device M	anagement Tag Sets Modify		
Display all the dev	rice management tags defined in the tag set. Tags can be added to the	set or deleted from the set.	
ОК	Apply Add Cancel		
 Tag Set N 	ame: Cisco-3PCC-Tags		
Delete	Tag Name 🔺	Tag Value	Edit
	%START-XFER_KEY_LIST%	hold(1;endcall)2;xfer(4;toggle;	Edit
	%STUN_SERVER%		Edit
	%SYSLOG_IDENTIFIER%	None	Edit
	%TEXT_LOGO%		Edit
	%THIRD_PREFERRED_CODEC%	G711u	Edit
	%TRY_BACKUP_RSC%	5\$\$,6\$\$	Edit
	%UPLOAD_DELAY_ON_LOCAL_CHANGE%	60	Edit
	%USE_LINE_KEYS_FOR_BLF%	Yes	Edit
	%USE_PREFERRED_CODEC_ONLY%	No	Edit
	%VM_SUBSCRIBE_INTERVAL%	1800	Edit
	%Voice_Feedback_Enable%	No	Edit
	%VOICE_FEEDBACK_ENABLE%	Yes	Edit
	%VOICE_FEEDBACK_SPEED%	Normal	Edit
	%XSI_CFWD_ENABLE_1%	No	Edit
	%XSI_DND_ENABLE_1%	No	Edit
	%XSI_HOST_SERVER%	10.89.81.183	Edit
	%XSI_SERVER%	10.89.81.183	Edit
	%XSIPASSWORD-1%	Cisco123!	Edit
	First Previous	[Page 10 of 10]	

Figure 82 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 <u>cisco.com</u>. 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.
- 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-78-88-88-3PCC/	- · · · ·
Device Type URL:http://xsp.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/ No Tags Device Configuration Tags: Use Default System Tag Set Only © Use Default System Tag Set and Tag Set: Cisco-3PCC-IP-Phones-Tags V Allow Identity/Device Profiles to Configure Custom Tags Send Email Notification to User upon Device Reset Failure Device Access Protocol: http Device Access Protocol: http Device Access Protocol: http Device Access Pont: 80 Device Access Context Name: dms Device Access URL: 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: W HTTP Request URI Client Certificate MAC Address Format: Device Access HTTP Authentication: W parin W pinet	- Device Management
No Tags Device Configuration Tags: Use Default System Tag Set Only	Device Type URL:http://xsp.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/
Device Configuration Tags: Use Default System Tag Set Only	O No Tags
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 P Device Access FODN: xsp.iop1.broadworks.net Device Access Context Name dms Device Access Context Name dms Device Access User: CP-78-88-68-3PCC/ Default Device Language: Default Device Encoding: Authentication Mode: MAC-Based User Name and Password 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 ● Direct	Device Configuration Tags: O Use Default System Tag Set Only
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 T Device Access FODN: xsp.iop1.broadworks.net Device Access FOT 80 Device Access Context Name dms Device Access Context Name dms Device Access User: CP-78-88-68-3PCC/ Default Device Language: Default Device Language: Default Device Encoding: Authentication Mode: MAC-Based User Name and Password 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:	Use Default System Tag Set and Tag Set: Cisco-3PCC-IP-Phones-Tags
Allow Groups to Configure Custom Tags Send Email Notification to User upon Device Reset Failure Device Access Protocol: http Device Access FQDN: xsp.jop1.broadworks.net Device Access Port: 80 Device Access Context Name: Device Access Context Name: Device Access Context Name: Device Access URI: CP-78-88-68-3PCC/ Default Device Language: Default Device Encoding: Authentication Mode: MAC-Based User Name and Password Device Access Password: Device Access Password: MAC Address Password: MAC Address Format: Device Access FTTP Authentication: Rest Context URI Client Certificate MAC Address Format: Device Access FTTP Authentication: Rest Context URI Device Access FTTP Authentication: Device Access FTTP Authenticat	Allow Identity/Device Profiles to Configure Custom Tags
Send Email Notification to User upon Device Reset Failure Device Access Protocol: Device Access FQDN: xsp.jop1.broadworks.net Device Access FQDN: xsp.jop1.broadworks.net Device Access FQDN: xsp.jop1.broadworks.net Device Access FQDN: xsp.jop1.broadworks.net Device Access Context Name: Device Access URI: CP-78-88-68-3PCC/ Default Device Language: Default Device Encoding: Authentication Mode: MAC-Based 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: Basin Direct 	Allow Groups to Configure Custom Tags
Device Access Protocol: http Device Access FQDN: xsp.iop1.broadworks.net Device Access Port 80 Device Access Port 80 Device Access Context Name: dms 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 Password: MAC Address Format: Device Access FTTP Authentication: Re-type Device Access Format:	Send Email Notification to User upon Device Reset Failure
Device Access FQDN: xsp.iop1.broadworks.net Device Access Port 80 Device Access Context Name: Device Access Context Name: 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 Password: MAC Address Format: Device Access HTTP Authentication: Rectificate MAC Address Format: Device Access HTTP Authentication: Rectificate MAC Address Format: Device Access HTTP Authentication: Rectificate	Device Access Protocol: http 🔻
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 Password: MAC Address Format: Device Access HTTP Authentication: Readown Dispert	Device Access FQDN: xsp.iop1.broadworks.net
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 Password: MAC Address In: HTTP Request URI HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication: Resident Dispert	Device Access Port 80
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: Readown Dispert	Device Access Context Name dms
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 Password: MAC Address In: HTTP Request URI HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication: Razio Dispert	Device Access URI: CP-78-88-68-3PCC/
Default Device Encoding: Authentication Mode: MAC-Based User Name and Password Device Access Username: Device Access Password: Re-type Device Access Password: MAC Address Password: MAC Address In: HTTP Request URI HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication: Ranin Dispert	Default Device Language:
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: Re-type Device Access HTTP Authentication: Rectore Dispert	Default Device Encoding:
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: Device Access HTTP Authentication: Device Access HTTP Authentication: Device Access HTTP Authentication:	Authentication Mode: 📃 MAC-Based 📃 User Name and Password
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: Basin Direct	Device Access Username:
Re-type Device Access Password: MAC Address In: HTTP Request URI HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication: Racio Dispert	Device Access Password:
MAC Address In: HTTP Request URI HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication: Racio	Re-type Device Access Password:
HTTP Header Client Certificate MAC Address Format: Device Access HTTP Authentication; Racio Direct	MAC Address In: HTTP Request URI
Client Certificate MAC Address Format: Device Access HTTP Authentication: Racio Direct	O HTTP Header
MAC Address Format:	Client Certificate
Device Access HTTP Authentication:	MAC Address Format:
V Dasio V Digest	Device Access HTTP Authentication: Basic Digest

Figure 83 Device Access FQDN

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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 Define Device Profile Type Files to define the static firmware files and to upload the firmware.

NOTE: The non-firmware static files in section 5.2.2.2.2 *Define Device Profile Type Files* are normally included in the import.

- 8) After importing the DTAFs, restart the Application Server to load the *TimeZoneAlias* files.
- 9) Update the device profile type language setting according to instructions provided in section *5.2.2.2.2.6.1 Language Mapping*.

5.2.2.2 Configuration Method 2: Manual

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

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

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

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

5.2.2.2.1 Create or Modify Device Profile Type

This section identifies the Cisco BroadWorks device profile type settings relevant to Device Management for the Cisco Common Profile type covering MPP Series.

Browse to System \rightarrow Resources \rightarrow 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 <u>cisco.com</u>. Extract the configuration files from the *Configuration Files* folder of CPE kit. Obtain the firmware files directly from Cisco.

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

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

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File Name	CPE Kit Template File Name	File Type	Description
CiscoDev_Type <family>. xml</family>	CiscoDev_Type68xx.xml CiscoDev_Type6821.xml CiscoDev_Type6861.xm CiscoDev_Type6871.xml CiscoDev_Type78xx.xml CiscoDev_Type7832.xml CiscoDev_Type8832.xml CiscoDev_Type8832.xml CiscoDev_Type8875.xml CiscoDev_Type9841.xml CiscoDev_Type9851.xml	Family/System- level	These files contain the family- specific parameters. This includes the upgrade rule.
CiscoDev_System.xml	CiscoDev_System.xml	System-level	These files are referred to as the system template files. They contain the system settings common to the phone model type.
%BWMACADDRESS%_ CiscoDev.xml	<mac>_CiscoDev.xml</mac>	Device-specific	This file is referred to as the user template file. It contains the phone or user-specific settings for the phone. There is a MAC template file in the CPE kit for each Cisco phone mode. These files are referred to as the line key template files. They contain the line key data for the specific phone.
TimeZoneAliasLabels_< model>.properties	TimeZoneAliasLabels CiscoDev.properties	Time Zone Alias	The time zone alias file is a BroadWorks Device Management file used to map time zone identifiers between Cisco BroadWorks and Cisco devices. A time zone alias file is required for each model.
%BWMACADDRESS%- confup.xml	<mac>-confup.xml</mac>	Device-specific	The device-specific file documents the current settings used by the phone. These phone configuration files will be uploaded onto the server using HTTP PUT message on local change, request or periodically depending on parameter <report To Server>.</report
prt- %BWMACADDRESS%- up.tar.gz	prt- <mac>-up.tar.gz</mac>	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 5.2.2.2.4 Static Files5.2.2.2.3.

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

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5.2.2.2.2.1 System Files

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

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

- CiscoDev-3PCC_Bootstrap.xml
- CiscoDev_System.xml
- CiscoDev_Type68xx.xml
- CiscoDev_Type6821.xml
- CiscoDev_Type6861.xml
- CiscoDev_Type6871.xml
- CiscoDev_Type78xx.xml
- CiscoDev_Type7832.xml
- CiscoDev_Type88xx.xml
- CiscoDev_Type88x5.xml
- CiscoDev_Type8875.xml
- CiscoDev_Type8832.xml
- CiscoDev_Type9841.xml
- CiscoDev_Type9851.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.

dentity/Device Profile Type File Modify Rodify 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: <u>http://xspi.jop1.broadworks.net.80ldms/CP-78-88-88-3PCC/CiscoDev-3PCC_Bootstrap.xml</u> Repository File: Template File: <u>Download</u> File Category: Static Dynamic Per-Type Dynamic Per-Device File Customization: Administrator Template Accessing
Assign File
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<pre><?xml version="1.0" encoding="UTF-8"?></pre>
<br GUI SCREEN: Voice Tab - Provisioning Tab
File Authentication
Authentication Mode: 🧾 MAC-Based 🗍 User Name and Password
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MAC Address Format
Device Access HTTP Authentication: Basic Digest
Allowed Access Protocols: 🖉 http 🖉 https 🖉 tftp
OK Apply Delete Cancel

Figure 84 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.

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MAC Address In: HTTP Request URI
O HTTP Header
Client Certificate
MAC Address Format
Device Access HTTP Authentication: O Basic Digest
Allowed Access Protocols: @ http @ https @ tftp
OK Apply Delete Cancel

Figure 85 <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>.

CADDRESS%_CiscoDev.xml.templa

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.

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Figure 86 Upload File Settings

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5.2.2.2.2.4 Static Files

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

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

- sip68xx.12-0-4MPP0001-195.loads (for the 6800 Devices)
- sip6821.12-0-4MPP0001-195.loads (for the 6821 Devices)
- sip78xx.12-0-4MPP0001-195.loads (for the 7800 Devices)
- sip7832.12-0-4MPP0001-195.loads (for the 7832 Devices)
- sip88xx.12-0-4MPP0001-195.loads (for the 8800 Devices)
- sip8845_65.12-0-4MPP0001-195.loads (for the 8845 and 8865 Devices)
- PHONEOS-8875.2-3-1-0001-26.loads (for Cisco Video Phone 8875)
- PHONEOS-8875.2-3-1-0001-26.pkg (for Cisco Video Phone 8875)
- sip8832.12-0-4MPP0001-195.loads (for the 8832 Devices)
- PHONEOS.3-0-1-0001-213.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: <u>https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-6800-series-multiplatform-firmware/tsd-products-support-series-home.html</u>
- Cisco IP Phones 7800 Series: <u>https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-7800-series-multiplatform-firmware/tsd-products-support-series-home.html</u>
- Cisco IP Phones 8800 Series: <u>https://www.cisco.com/c/en/us/support/collaboration-endpoints/ip-phone-8800-series-multiplatform-firmware/tsd-products-support-series-home.html</u>
- Cisco Video Phone 8875: <u>https://www.cisco.com/c/en/us/support/collaboration-endpoints/unified-ip-phone-8800-series/series.html</u>
- Cisco IP Phone 9800 Series: <u>https://help.webex.com/en-us/article/n1trwjh/Release-Notes-for-Cisco-Desk-Phone-9800-Series#task-template_e3253095-4716-4259-b84c-efb2cc6e7668</u>

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: <u>http://ssp.ion1.broad/works.net80/dms/CP-78-88-68-3PCC/sip78xx:11-1-1MPP-897.loads</u> Repository File: Template File: <u>Download</u> File Category: <u>State</u> Dynamic Per-Type Dynamic Per-Device File Customization: Administrator
- Assign File
Manual O Manual Custom Upload File: Choose File No file chosen
***** Temporary File ***** The Content of this file should be obtained from the vendor.
File Avidentification
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://ttp://ttp.//ttp.//ttp.//
OK Apply Delete Cancel

Figure 87 Static Load File

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

- kernel6821.12-0-4MPP0001-195.sbn
- miniroot6821.12-0-4MPP0001-195.sbn
- prelo6821.AL128m-01-03P.sbn
- rootfs6821.12-0-4MPP0001-195.sbn
- sboot6821.AL-01-10P.sbn
- kernel2.68xx.12-0-4MPP0001-195.sbn
- kernel2.6861.12-0-4MPP0001-195.sbn
- kernel2.6871.12-0-4MPP0001-195.sbn
- rootfs2.68xx.12-0-4MPP0001-195.sbn
- rootfs2.6861.12-0-4MPP0001-195.sbn
- rootfs2.6871.12-0-4MPP0001-195.sbn
- sboot2.68xx.12-0-4MPP0001-195.sbn
- sboot2.6861.12-0-4MPP0001-195.sbn
- sboot2.6871.12-0-4MPP0001-195.sbn

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- kernel2.78xx.12-0-4MPP0001-195.sbn
- rootfs2.78xx.12-0-4MPP0001-195.sbn
- sboot2.78xx.12-0-4MPP0001-195.sbn
- kernel7832.12-0-4MPP0001-195.sbn
- prelo7832.BR-01-06P.sbn
- rootfs7832.12-0-4MPP0001-195.sbn
- sboot7832.BR-01-11P.sbn
- boot1288xx.BE-01-007P.sbn
- fbi88xx.BE-01-011P.sbn
- kern88xx.12-0-4MPP0001-195.sbn
- kernel288xx.12-0-4MPP0001-195.sbn
- kernel388xx.12-0-4MPP0001-195.sbn
- m0patch288xx.BE-01-001P.sbn
- preloader88xx.BE-01-008P.sbn
- rootfs88xx.12-0-4MPP0001-195.sbn
- rootfs288xx.12-0-4MPP0001-195.sbn
- rootfs388xx.12-0-4MPP0001-195.sbn
- sb288xx.BE-01-028P.sbn
- sb2288xx.BE-01-015P.sbn
- sb2388xx.BE-01-032P.sbn
- ssb288xx.BE-01-007P.sbn
- vc488xx.12-0-4MPP0001-195.sbn
- fbi8845_65.BEV-01-006P.sbn
- kern8845_65.12-0-4MPP0001-195.sbn
- rootfs8845_65.12-0-4MPP0001-195.sbn
- sb28845_65.BEV-01-020P.sbn
- vc48845_65.12-0-4MPP0001-195.sbn
- firmware28832.12-0-4MPP0001-195.sbn
- kernel8832.12-0-4MPP0001-195.sbn
- kernel28832.12-0-4MPP0001-195.sbn
- key28832.12-0-4MPP0001-195.sbn
- loader8832.VO-01-004P.sbn
- loader28832.VO0-00-003P.sbn
- oemloader28832.12-0-4MPP0001-195.sbn
- rootfs8832.12-0-4MPP0001-195.sbn
- rootfs28832.12-0-4MPP0001-195.sbn

- sb28832.VO-01-015P.sbn
- sb228832.12-0-4MPP0001-195.sbn
- trustzone28832.12-0-4MPP0001-195.sbn

Note that the Cisco Desk Phone 9800 Series also requires the following static files. Contact Cisco for the files.

- kernel-9841_51.3-0-1-0001-213.sbn
- preloader-9841_51.EM-01-007.sbn
- rootfs-9841_51.3-0-1-0001-213.sbn
- sb2-9841_51.EM-01-034.sbn

5.2.2.2.2.5 Time Zone Alias File

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

This time zone mapping file must be added to the */usr/local/broadworks/bw_base/conf/dms* directory on the Application Server using the following file name format:

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

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

US HAWAII=GMT-10:00 US ALASKA=GMT-09:00 CANADA_PACIFIC_TIME=GMT-08:00 MEXICO_PACIFIC_TIME=GMT-08:00 US PACIFIC TIME=GMT-08:00 US ARIZONA=GMT-07:00 CANADA_MOUNTAIN_TIME=GMT-07:00 MEXICO_MOUNTAIN_TIME=GMT-07:00 US_MOUNTAIN_TIME=GMT-07:00 CANADA_CENTRAL_TIME=GMT-06:00 US CENTRAL TIME=GMT-06:00 US INDIANA=GMT-06:00 CANADA_EASTERN_TIME=GMT-05:00 US_EASTERN_TIME=GMT-05:00 CANADA_ALTANTIC_TIME=GMT-04:00 CANADA NEWFOUNDLAND=GMT-03:30 VENEZUELA TIME=GMT-04:30 CHILE TIME=GMT-03:00 ARGENTINA_TIME=GMT-03:00 GREENWICH MEAN TIME=GMT-00:00 CENTRAL_EUROPEAN_TIME=GMT+01:00 EASTERN EUROPEAN TIME=GMT+02:00 EAST AFRICAN TIME=GMT+03:00 IRAN TIME=GMT+03:30 AZERBAIJAN_TIME=GMT+04:00 AFGHANISTAN_TIME=GMT+04:30 PAKISTAN TIME=GMT+05:00

INDIA_TIME=GMT+05:30 EASTERN_KAZAKHSTAN_TIME=GMT+06:00 MYANMAR_TIME=GMT+06:30 THAILAND_TIME=GMT+07:00 CHINA_TIME=GMT+08:00 JAPAN_TIME=GMT+09:00 AUSTRALIAN_CENTRAL_STANDARD_TIME=GMT+09:30 AUSTRALIAN_EASTERN_STANDARD_TIME=GMT+10:00 NEWZEALAND_TIME=GMT+13:00

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

5.2.2.2.2.6 Language Provisioning

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

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

- ar-SA_78xx_68xx-12.0.4.0002.ttf (Arabic)
- ar-SA_78xx_68xx-12.0.4.0002.xml (Arabic)
- ar-SA_78xx_BMP-12.0.4.0002.ttf (Arabic)
- ar-SA_6821-12.0.4.0002.ttf (Arabic)
- ar-SA_6821-12.0.4.0002.xml (Arabic)
- ar-SA_6861-12.0.4.0002.ttf (Arabic)
- bg-BG_78xx_68xx-12.0.4.0002.xml (Bulgarian)
- bg-BG_6821-12.0.4.002.xml (Bulgarian)
- ca-ES_78xx_68xx-12.0.4.0002.xml (Catalan-Spain)
- ca-ES_6821-12.0.4.0002.xml (Catalan-Spain)
- cs-CZ_78xx_68xx-12.0.4.0002.xml (Czech)
- cs-CZ_6821-12.0.4.0002.xml (Czech)
- da-DK_78xx_68xx-12.0.4.0002.xml (Dutch)
- da-DK_6821-12.0.4.0002.xml (Dutch)
- de-DE_78xx_68xx-12.0.4.0002.xml (German)
- de-DE_6821-12.0.4.0002.xml (German)
- el-GR_78xx_68xx-12.0.4.0002.xml (Greek)
- el-GR_6821-12.0.4.0002.xml (Greek)

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- en-GB_78xx_68xx-12.0.4.0002.xml (English-UK)
- en-GB_6821-12.0.4.0002.xml (English-UK)
- en-US_78xx_68xx-12.0.4.0002.xml (English-US)
- en-US_6821-12.0.4.0002.xml (English-US)
- es-CO_78xx_68xx-12.0.4.0002.xml (Spanish-Colombia)
- es-CO_6821-12.0.4.0002.xml (Spanish-Colombia)
- es-ES_78xx_68xx-12.0.4.0002.xml (Spanish-Spain)
- es-ES_6821-12.0.4.0002.xml (Spanish-Spain)
- fi-FI_78xx_68xx-12.0.4.0002.xml (Finnish)
- fi-FI_6821-12.0.4.0002.xml (Finnish)
- fr-CA_78xx_68xx-12.0.4.0002.xml (French-Canada)
- fr-CA_6821-12.0.4.0002.xml (French-Canada)
- fr-FR_78xx_68xx-12.0.4.0002.xml (French)
- fr-FR_6821-12.0.4.0002.xml (French)
- he-IL_78xx_68xx-12.0.4.0002.ttf (Hebrew)
- he-IL_78xx_BMP-12.0.4.0002.ttf (Hebrew)
- he-IL_78xx_68xx-12.0.4.0002.xml (Hebrew)
- he-IL_6821-12.0.4.0002.ttf (Hebrew)
- he-IL_6821-12.0.4.0002.xml (Hebrew)
- he-IL_6861-12.0.4.0002.ttf (Hebrew)
- hr_HR_78xx_68xx-12.0.4.0002.xml (Croatia)
- hr_HR_6821-12.0.4.0002.xml (Croatia)
- hu-HU_78xx_68xx-12.0.4.0002.xml (Hungarian)
- hu-HU_6821-12.0.4.0002.xml (Hungarian)
- it-IT_78xx_68xx-12.0.4.0002.xml (Italian)
- it-IT_6821-12.0.4.0002.xml (Italian)
- ja-JP_78xx_68xx-12.0.4.0002.ttf (Japanese)
- ja-JP_78xx_68xx-12.0.4.0002.xml (Japanese)
- ja-JP_78xx_BMP-12.0.4.0002.ttf (Japanese)
- ja-JP_6821-12.0.4.0002.ttf (Japanese)
- ja-JP_6821-12.0.4.0002.xml (Japanese)
- ja-JP_6861-12.0.4.0002.ttf (Japanese)
- ko-KR_78xx_BMP-12.0.4.0002.ttf (Korean)
- ko-KR_78xx_68xx-12.0.4.0002.ttf (Korean)
- ko-KR_78xx_68xx-12.0.4.0002.xml (Korean)
- ko-KR_6821-12.0.4.0002.ttf (Korean)

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- ko-KR_6861-12.0.4.0002.ttf (Korean)
- ko-KR_6821-12.0.4.0002.xml (Korean)
- nb-NO_78xx_68xx-12.0.4.0002.xml (Norwegian)
- nb-NO_6821-12.0.4.0002.xml (Norwegian)
- nl-NL_78xx_68xx-12.0.4.0002.xml (Netherlands)
- nl-NL_6821-12.0.4.0002.xml (Netherlands)
- pl-PL_78xx_68xx-12.0.4.0002.xml (Polish)
- pl-PL_6821-12.0.4.0002.xml (Polish)
- pt-PT_78xx_68xx-12.0.4.0002.xml (Portuguese)
- pt-PT_6821-12.0.4.0002.xml (Portuguese)
- ru-RU_78xx_68xx-12.0.4.0002.xml (Russian)
- ru-RU_6821-12.0.4.0002.xml (Russian)
- sk-SK_78xx_68xx-12.0.4.0002.xml (Slovakian)
- sk-SK_6821-12.0.4.0002.xml (Slovakian)
- sl-SI_78xx_68xx-12.0.4.0002.xml (Slovenian)
- sl-SI_6821-12.0.4.0002.xml (Slovenian)
- sv-SE_78xx_68xx-12.0.4.0002.xml (Swedish)
- sv-SE_6821-12.0.4.0002.xml (Swedish)
- tr-TR_78xx_68xx-12.0.4.0002.xml (Turkey)
- tr-TR_6821-12.0.4.0002.xml (Turkey)
- uk-UA_78xx_68xx-12.0.4.0002.xml (Ukraine)
- uk-UA_6821-12.0.4.0002.xml (Ukraine)
- zh-CN_78xx_68xx-12.0.4.0002.ttf (Mandarin)
- zh-CN_78xx_68xx-12.0.4.0002.xml (Mandarin)
- zh-CN_78xx_BMP-12.0.4.0002.ttf (Mandarin)
- zh-CN_6821-12.0.4.0002.ttf (Mandarin)
- zh-CN_6821-12.0.4.0002.xml (Mandarin)
- zh-CN_6861-12.0.4.0002.ttf (Mandarin)
- zh-HK_78xx_68xx-12.0.4.0002.ttf ((Cantonese)
- zh-HK_78xx_68xx-12.0.4.0002.xml (Cantonese)
- zh-HK_78xx_BMP-12.0.4.0002.ttf (Cantonese)
- zh-HK_6821-12.0.4.0002.xml (Cantonese)
- zh-HK_6821-12.0.4.0002.ttf (Cantonese)
- zh-HK_6861-12.0.4.0002.ttf (Cantonese)

The following are example language files for 88xx:

ar-SA_88xx-12.0.4.0002.ttf (Arabic)

- ar-SA_88xx-12.0.4.0002.xml (Arabic)
- bg-BG_88xx-12.0.4.0002.xml (Bulgarian)
- ca-ES_88xx-12.0.4.0002.xml (Catalan-Spain)
- cs-CZ_88xx-12.0.4.0002.xml (Czech)
- cs-DZ_88xx-12.0.4.0002.xml (Czech)
- da-DK_88xx-12.0.4.0002.xml (Dutch)
- de-DE_88xx-12.0.4.0002.xml (German)
- el-GR_88xx-12.0.4.0002.xml (Greek)
- en-GB_88xx-12.0.4.0002.xml (English-UK)
- en-US_88xx-12.0.4.0002.xml (English-US)
- es-CO_88xx-12.0.4.0002.xml (Spanish)
- es-ES_88xx-12.0.4.0002.xml (Spanish-Spain)
- fi-FI_88xx-12.0.4.0002.xml (Finnish)
- fr-CA_88xx-12.0.4.0002.xml (French-Canada)
- fr-FR_88xx-12.0.4.0002.xml (French)
- he-IL_88xx-12.0.4.0002.ttf (Hebrew)
- he-IL_88xx-12.0.4.0002.xml (Hebrew)
- hr_HR_88xx-12.0.4.0002.xml (Croatia)
- hu-HU_88xx-12.0.4.0002.xml (Hungarian)
- it-IT_88xx-12.0.4.0002.xml (Italian)
- ja-JP_88xx-12.0.4.0002.ttf (Japanese)
- ja-JP_88xx-12.0.4.0002.xml (Japanese)
- ko-KR_88xx-12.0.4.0002.ttf (Korean)
- ko-KR_88xx-12.0.4.0002.xml (Korean)
- nb-NO_88xx-12.0.4.0002.xml (Norwegian)
- nl-NL_88xx-12.0.4.0002.xml (Netherlands)
- pl-PL_88xx-12.0.4.0002.xml (Polish)
- pt-PT_88xx-12.0.4.0002.xml (Portuguese)
- ru-RU_88xx-12.0.4.0002.xml (Russian)
- sk-SK_88xx-12.0.4.0002.xml (Slovakian)
- sl-SI_88xx-12.0.4.0002.xml (Slovenian)
- sv-SE_88xx-12.0.4.0002.xml (Swedish)
- tr-TR_88xx-12.0.4.0002.xml (Turkey)
- uk-UA_88xx-12.0.4.0002.xml (Ukraine)
- zh-CN_88xx-12.0.4.0002.ttf (Mandarin)
- zh-CN_88xx-12.0.4.0002.xml (Mandarin)

- zh-HK_88xx-12.0.4.0002.ttf (Cantonese)
- zh-HK_88xx-12.0.4.0002.xml (Cantonese)

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

- ar-SA_8875-2.3.1.0001.xml (Arabic)
- ca-ES_8875-2.3.1.0001.xml (Catalan-Spain)
- cs-CZ_8875-2.3.1.0001.xml (Czech)
- da-DK_8875-2.3.1.0001.xml (Danish)
- de-DE_8875-2.3.1.0001.xml (German)
- el-GR_8875-2.3.1.0001.xml (Greek)
- en-GB_8875-2.3.1.0001.xml (English-UK)
- en-US_8875-2.3.1.0001.xml (English-US)
- es-CO_8875-2.3.1.0001.xml (Spanish-Colombia)
- es-ES_8875-2.3.1.0001.xml (Spanish-Spain)
- fi-FI_8875-2.3.1.0001.xml (Finnish)
- fr-CA_8875-2.3.1.0001.xml (French-Canada)
- fr-FR_8875-2.3.1.0001.xml (French)
- he-IL_8875-2.3.1.0001.xml (Hebrew)
- hu-HU_8875-2.3.1.0001.xml (Hungarian)
- it-IT_8875-2.3.1.0001.xml (Italian)
- ja-JP_8875-2.3.1.0001.xml (Japanese)
- ko-KR_8875-2.3.1.0001.xml (Korean)
- nb-NO_8875-2.3.1.0001.xml (Norwegian)
- nl-NL_8875-2.3.1.0001.xml (Dutch-Netherlands)
- pl-PL_8875-2.3.1.0001.xml (Polish)
- pt-BR_8875-2.3.1.0001.xml (Portuguese-Brazil)
- pt-PT_8875-2.3.1.0001.xml (Portuguese-Portugal)
- ru-RU_8875-2.3.1.0001.xml (Russian)
- sv-SE_8875-2.3.1.0001.xml (Swedish)
- tr-TR_8875-2.3.1.0001.xml (Turkish)
- uk-UA_8875-2.3.1.0001.xml (Ukrainian)
- zh-CN_8875-2.3.1.0001.xml (Mandarin)
- zh-HK_8875-2.3.1.0001.xml (Cantonese)
- zh-TW_8875-2.3.1.0001.xml (Chinese-Taiwan)

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

- ca-ES_9841_9851-3.0.1.0001.xml (Catalan-Spain)
- cs-CZ_9841_9851-3.0.1.0001.xml (Czech)

- da-DK_9841_9851-3.0.1.0001.xml (Dutch)
- de-DE_9841_9851-3.0.1.0001.xml (German)
- el-GR_9841_9851-3.0.1.0001.xml (Greek)
- en-GB_9841_9851-3.0.1.0001.xml (English-UK)
- en-US_9841_9851-3.0.1.0001.xml (English-US)
- es-CO_9841_9851-3.0.1.0001.xml (Spanish-Colombia)
- es-ES_9841_9851-3.0.1.0001.xml (Spanish-Spain)
- fi-FI_9841_9851-3.0.1.0001.xml (Finnish)
- fr-CA_9841_9851-3.0.1.0001.xml (French-Canada)
- fr-FR_9841_9851-3.0.1.0001.xml (French)
- hu-HU_9841_9851-3.0.1.0001.xml (Hungarian)
- it-IT_9841_9851-3.0.1.0001.xml (Italian)
- ja-JP_9841_9851-3.0.1.0001.xml (Japanese)
- ja-JP_9841_9851-3.0.1.0001.ttf (Japanese)
- ko-KR_9841_9851-3.0.1.0001.xml (Korean)
- ko-KR_9841_9851-3.0.1.0001.ttf (Korean)
- nb-NO_9841_9851-3.0.1.0001.xml (Norwegian)
- nl-NL_9841_9851-3.0.1.0001.xml (Dutch-Netherlands)
- pl-PL_9841_9851-3.0.1.0001.xml (Polish)
- pt-BR_9841_9851-3.0.1.0001.xml (Portuguese-Brazil)
- pt-PT_9841_9851-3.0.1.0001.xml (Portuguese-Portugal)
- ru-RU_9841_9851-3.0.1.0001.xml (Russian)
- sv-SE_9841_9851-3.0.1.0001.xml (Swedish)
- tr-TR_9841_9851-3.0.1.0001.xml (Turkish)
- uk-UA_9841_9851-3.0.1.0001.xml (Ukrainian)
- zh-CN_9841_9851-3.0.1.0001.xml (Mandarin)
- zh-CN_9841_9851-3.0.1.0001.ttf (Mandarin)
- zh-HK_9841_9851-3.0.1.0001.xml (Cantonese)
- zh-HK_9841_9851-3.0.1.0001.ttf (Cantonese)
- zh-TW_9841_9851-3.0.1.0001.xml (Chinese-Taiwan)
- zh-TW_9841_9851-3.0.1.0001.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.


Figure 88 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			
System SIP Provisioning Regional Phone Ext 1 Referral Services Cade	of 2 Ext 3 Ext 4 User Att Console TR-069		
Feature Dial Services Code			
Vertical Service Announcement Codes			
Senice Anno Base Numbe			
Senice Anno Edension Cade			
Outbound Call Codec Selection Codes			
Prefer 0711 u C od	: 1017110	Force G711u Code:	1027110
Prefer 0711 a Cod	: 1017111	Force G711a Code:	1027111
Prefer 0722 Cod	101722	Force G722 Code:	*02722
Preter 0722.2 Cod	: 101724	Force G722.2 Code:	102724
Prefer 0729a Cod	: 101729	Force G728a Code:	102729
Prefer ILBC Cod	: 101016	Force ILBC Code:	102016
Prefer OPUS Ced	: 101056	Farce OPUS Cade:	102066
Time			
Set Local Date (mm/dd)yy		SetLocal Time () 44mm):	
Time Zon	GMT-08:00 *	Time Offset ()-94mm):	
Ignore DHCP Time Offse	Yes 💌		
Daylight Saving Time Rul	start=3/-17/2,end=10/-17/2;save=1		
Daylight Saving Time Enabl	Yes 💌		
Language			
Dictionary Server Scrip	sen=http://10.89.81.183/dms/CP-78-68-68-3PCC/;d1=Spanish;x1=es-ES_78xx_68xx-11.1.1.1002.xmt/		
Language Selectio	: Spaniah	Locale:	es-ES ×

Figure 89 Language File - Language Selection

5.2.2.2.2.6.1 Language Mapping

To enable Device Management control of the phone language for languages other than English, the languages defined on the Cisco BroadWorks Application Server must be

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

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

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

Enterprise ID:	DemoProductManagementEnt	Group	Video Group
User ID:	jmiller@broadsoft.com	Change User ID (Al	so saves current screen data)
* Last Name:	Miller	* First Name	Jack
* Calling Line ID Last Name:	Miller	* Calling Line ID First Name	Jack
Department	VVX (Video Group) 💌	Language	English
Time Zone:	(GMT) UTC	×	British CALA_Spanish Chinese
-Additional Information			English
Title			French
Banar		Mahilar	German
Pager.		wobile.	Italian
E-mail:		YahoolD:	Spain Spanish
Location:			
Address:			
City:		State/Province: - Select -	~
Zip/Postal Code:		Country:	

Figure 90 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* \rightarrow *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 $\langle group \rangle \rightarrow Resources \rightarrow Identity/Device Profiles page$ and then select**Add**to add a new Cisco MPP Series device profile. Configure the deviceprofile as shown in the*Figure 91*example.

Identity/	Device Pr	ofile Mo	profile.		
OK	Apply	Delete	Cancel		
Profile		Use	rs		Files
Identity/I Identity Ho Out A Una	Device Profile Nar (Device Profile Type U Proto st Name/IP Addre Transp MAC Addre Serial Numb Descripti bound Proxy Sen STUN Sen Physical Locati Lines/Po ssigned Lines/Po	me: 3pcophone pe: <u>Cisco-CP-7</u> RL: http://xsp.ie col: SIP 2.0 ***********************************	profile <u>18:00-88:00-68:00</u> pp1.broadworks ed v 19012	- <u>SPCC</u> s.net:80/dms/CP	-78-88-68-3PCC/ Port:
Authentic Use ic Use C * C * Re-type	lentity/Device Pro ustom Credential levice Access Us Device Access P Device Access P	file Type Crede s er Name: assword: assword:	entials		
OK	Apply	Delete	Cancel		

Figure 91 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* $< user > \rightarrow Addresses$.

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 \rightarrow Utilities \rightarrow 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=""></line>	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.

Device Type URL:	http://xsp.iop1.broadworks.net:80/dms/CP-78-88-68-3PCC/
	No Tag Sets
Device Configuration Tag Sets:	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
2.1	Allow Groups to Configure Custom Tags
	Allow Enterprises/Service Providers to Configure Custom Tags
	Send Email Notification to User upon Device Reset Failure
Device Access Protocol:	https ᅌ
Device Access FQDN:	xsp.iop1.broadworks.net
Device Access Port:	4433
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 User	name:
Device Access Pass	sword:
Re-type Device Access Pass	sword [.]
MAC Addre	
MAC Addre	
	HIP Header
	 Client Certificate
MAC Address Fo	ormat: .*SEP([0-9a-fA-F]{12}).*\$
Device Access HTTP Authentic	ation: 💿 Basic 🔵 Digest

Figure 92 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:

QED/	In an fA	E1(12))	¢ ۱
	[U-3a-1A	ין∠יוןי	γ. ψ

יו|ויו|וי כוsco.

[File Authentication
	Authentication Mode: 🗹 MAC-Based 🗌 User Name and Password
	MAC Address In: OHTTP Request URI
	HTTP Header
	 Client Certificate
	MAC Address Format: <mark>.*SEP([0-9a-fA-F]{12}).*\$</mark>
	Device Access HTTP Authentication: <
	Allowed Access Protocols: 🗹 http 🗹 https 🗹 tftp

Figure 93 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://bwri1- alpha.broadcloudpbx.net:443/dms/C isco-PhoneOS301-MPP1204-98-88- 78-68xx/CiscoDev- 3PCC_Bootstrap.xml	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.

Info	Voice	Call History F	Personal Direc	tory												
Configura	siP tion Profile	Provisioning	Regional	Phone	Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Ext 7	Ext 8	Ext 9	Ext 10	User	Att Cons
		Pro	vision Enable:	Yes -							Resync On Rese	Yes .				
		Resync R	landom Delay:	2						R	esync At (HHmm)					
		Resync At R	landom Delay:	1							Resync Periodic	3600				
		Resync Erro	or Retry Delay:	300						For	ced Resync Delay	: 600				
		Res	ync From SIP:	Yes -						Resync After	r Upgrade Attemp	Yes ·				
		Res	sync Trigger 1:													
		Res	sync Trigger 2:													
		Resync	Fails On FNF:	Yes -						Profi	le Account Enable	Yes ·				
			Profile Rule:													
		1	Profile Rule B:													
		F	Profile Rule C:													
		F	Profile Rule D:													
		DHCP C	Option To Use:	66,160,15	9,150,60,43,	125				DHCF	Pv6 Option To Use	17,160	0,159			
		Log	Request Msg:	SPN SMA	C Requesti	ng resync \$5	CHEME://\$S	ERVIP:SPOR	TSPATH							
		Log	Success Msg:	SPN SMA	C Success	ul resync \$S	CHEME://\$S	ERVIP:\$POR	ISPATH							
		Log	g Failure Msg:	SPN SMA	C Resync f	ailed: \$ERR										
		HTTP R	teport Method:	POST -												
			Report Rule:													
		User Configu	arable Kesync:	Yes v												
						Undo A	I Changes	Submit Al	Changes							

Figure 94 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 <u>cisco.com</u>. 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 \rightarrow Resources \rightarrow 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 \rightarrow Resources \rightarrow 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:

Device Management
Device Type URL: http://xsp1 iop1 broadworks net:80/dms/def/
O No Taos
Device Configuration Tags: Use Default System Tag Set Only
Use Default System Tag Set and Tag Set. None
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 FQDIA: xsp1.iop1.broadworks.net
Device Access Port 80
Device Access Context Name: dms
Device Access URI: def/
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 95 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 Signaling Address	Type: DeviceManagementDefaults Type: Intelligent Proxy Addressing Obsolete
Standard Options	
Number of Ports:	Unlimited Limited To
Ringback Tone/Early Media Support:	RTP - Session
	© RTP - Early Session
	C Local Ringback - No Early Media
Authentication:	Enabled
	© Disabled
	C Enabled With Web Portal Credentials
Registration Capable	Authenticate REFER
Static Registration Capable	RFC3264 Hold
E164 Capable	Video Capable
Trusted	Use History Info Header

Figure 96 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	e 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 🔍 N	lot Supported
Trunk Mode: User Pilot Proxy 	
Unscreened Presentation Identity Policy:	Profile Presentation Identity
	O Unscreened Presentation Identity
	O Unscreened Presentation Identity With Profile Domain
Web Based Configuration URL Extension:	
- 1	

Figure 97 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</broadworks-xsp-cluster- 	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</broadworks-xsp-port>	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: http	://xsp1.iop1.broadworks.net:80/dms/def/
0	No Tags
Device Configuration Tags: <a> 	Use Default System Tag Set Only
0	Use Default System Tag Set and Tag Set: None
III Allo	w Identity/Device Profiles to Configure Custom Tags
V Allo	w Groups to Configure Custom Tags
E Ser	nd Email Notification to User upon Device Reset Failure
Device Access Protocol: ht	tp 💌
Device Access FQDN: xs	p1.iop1.broadworks.net
Device Access Port: 80	
Device Access Context Name: dr	15
Device Access URI: de	f/
Default Device Language:	
Default Device Encoding:	
Authentication Mode: 🔲 MAC-Ba	ised 🔲 User Name and Password
Device Access Usernam	le:
Device Access Passwor	rd:
Re-type Device Access Passwor	rd:
MAC Address	In:
	HTTP Header with Following Format:
Device Access HTT Authenticatio	IP ● Basic [®] Digest

Figure 98 Device Management Options Settings

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5.2.7.2.1.2.2 Define Device Profile Type Files

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

- 6821-3PCC.xml
- 6841-3PCC.xml
- 6851-3PCC.xml
- 6861-3PCC.xml
- 6871-3PCC.xml
- 7811-3PCC.xml
- 7821-3PCC.xml
- 7832-3PCC.xml
- 7841-3PCC.xml
- 7861-3PCC.xml
- 8811-3PCC.xml
- 8841-3PCC.xml
- 8845-3PCC.xml
- 8851-3PCC.xml
- 8861-3PCC.xml
- 8865-3PCC.xml
- 8875-3PCC.xml
- 8832-3PCC.xml
- CiscoDev-3PCC_Bootstrap.xml
- CiscoDev_Type9841.xml
- CiscoDev_Type9851.xml

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

	Apply	Delete	Cancel					
	Device Re	e Access File Forma epository File Forma Access Fil Repository Fil Template Fil File Categor File Customization	t: 7841-3PCC. t: 7841-3PCC e: http://xsp1.it e: Download f: Ostatic • t: Disallow	.xml -%BWTIMES op1.broadwo Dynamic Pe	TAMP%.xml <u>ks.net:80/dms/d</u> r-Type O Dyna V	ef/7841-3PCC	:.xml e	
		Ľ		iing				
-As	sign File							
	Manual Custom							
	Custom	Upload File:				Browse		
	<f: <!--·<br-->: <!--·</th--><th>lat-profile> GUI SCREEN: > DNS Settin</th><th>Voice Tab</th><th>) - System</th><th>n Tab</th><th></th><th>~</th><th></th></f: 	lat-profile> GUI SCREEN: > DNS Settin	Voice Tab) - System	n Tab		~	
- File	e Authentication -	MAC-Based	Liser Name	and Passwo	rd			
Au	MAC Address			ano i asswo	u .			
		O HTTP Heade	er of the					
		O Client Certifi	cate					
	AC Address Form	at:						
MA	to maarooo r onni							
M/ De	vice Access HTT	P Authentication: (Basic O Die	iest				

Figure 99 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: <u>https://bwri1-alpha.broadcloudpbx.net:443/dms/Cisco-PhoneOS301-MPP1204-98-88-78-68xx/CiscoDev-3PCC_Bootstrap.xml</u>.



5.2.7.3 No Touch Provisioning via Cisco Redirect Service

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

5.3 Upgrade from Previous CPE Kits

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

For general instructions on upgrading, see the *Cisco BroadWorks CPE Kit Usage Guide* [2].

Appendix A: Reference MPP Series Configuration Files

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

System File: CiscoDev-3PCC_Bootstrap.xml

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

```
<device xmlns:xsi="http://www.w3.org/2001/XMLSchema-</pre>
instance" xsi:type="axl:XIPPhone">
<flat-profile>
<!--
        GUI SCREEN: Voice Tab - Provisioning Tab
        -->
<!-- Profile Rule Resync Timers -->
<Resync On Reset ua="na">Yes</Resync On Reset>
<Resync_At__HHmm_ ua="na">3600</Resync_At__HHmm_>
<Resync At Random Delay ua="na">2</Resync At Random Delay>
<Resync Periodic ua="na">3600</Resync Periodic>
<Resync Error Retry Delay ua="na">3600</Resync Error Retry Del
av>
<Forced Resync Delay ua="na">14400</Forced Resync Delay>
<!-- Resync_At_Random_Delay ua="na">1</Resync_At_Random_Delay>
        <Resync Periodic ua="na">60</Resync Periodic>
        <Resync Error Retry Delay
ua="na">300</Resync Error Retry Delay>
        <Forced Resync Delay ua="na">600</Forced Resync Delay
-->
<!-- Configuration Profile current -->
<!-- Profile Rule B ua="na">($PSN eq "7841-3PCC")? $K | ($PSN
eq "8832-3PCC") ? $J | ($PSN eq "7821-3PCC") ? $K | ($PSN eq
"7811-3PCC") ? $K | ($PSN eq "7832-3PCC") ? $L | $M
</Profile Rule B -->
<GPP G ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type8875.xml</GPP G>
<GPP H ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type6871.xml</GPP H>
<GPP I ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type6861.xml</GPP I>
<GPP J ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type8832.xml</GPP J>
<GPP K ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type78xx.xml</GPP K>
<GPP L ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type7832.xml</GPP L>
<GPP M ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type88xx.xml</GPP_M>
<GPP N ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type68xx.xml</GPP_N>
<GPP_O_ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev_Type88x5.xml</GPP_0>
<GPP P ua="na">http://10.74.10.26:80/dms/CP-78-68-88-
3PCC/CiscoDev Type6821.xml</GPP P>
```



System File: CiscoDev-3PCC_Bootstrap.xml

cisco.

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 E
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE
SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev Type9851
.xml</GPP E>
        <GPP F
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFODN%:%BWDEVICEACCE
SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev Type9841
.xml</GPP F>
        <GPP G
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE
SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev Type8875
.xml</GPP G>
       <GPP H
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE
```



ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev_Type88x5 .xml</GPP_O>

 <GPP_P ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev_Type6821 .xml</GPP_P>

<profile_Rule ua="na">%ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev_System.x ml</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") ? \$0 | (\$PSN eq "8865-3PCC") ? \$0 | (\$PSN eq "8875") ? \$G | (\$PSN eq "8875NR") ? \$G | (\$PSN eq "9851") ? \$E | (\$PSN eq "9841") ? \$F | \$M</Profile Rule B> <Profile Rule C ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCE SSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%\$MA CiscoDev.xml< /Profile Rule C> <!-- 3rd Party ROOT CA Settings: (HTTPS/TLS/SRTP) -</pre> OPTIONAL --> <!-- Custom CA Rule ua="na">http://xsp.iop1.broadworks.net:80/dms/Cisco-PhoneOS301-MPP1203-98-88-78-68xx/</Custom CA Rule --> <!-- GUI SCREEN: Voice Tab - Phone Tab --> </flat-profile> </device>

System File for 9841 and 9851 : CiscoDev-3PCC_Bootstrap.xml

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

```
<device xmlns:xsi="http://www.w3.org/2001/XMLSchema-</pre>
instance" xsi:type="axl:XIPPhone">
<flat-profile>
<!--
        GUI SCREEN: Voice Tab - Provisioning Tab
         -->
<!-- Profile Rule Resync Timers -->
<Resync On Reset ua="na">Yes</Resync On Reset>
<Resync_At__HHmm_ ua="na">3600</Resync_At__HHmm_>
<Resync At Random Delay ua="na">2</Resync At Random Delay>
<Resync_Periodic ua="na">3600</Resync_Periodic>
<Resync Error Retry Delay ua="na">3600</Resync Error Retry Del
ay>
<Forced Resync Delay ua="na">14400</Forced Resync Delay>
<!-- Configuration Profile current -->
<GPP 0 ua="na">%ACCESS PROTOCOL HTTPS%%BWDEVICEACCESSFODN%:%BW
DEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev T
ype9851.xml</GPP O>
<GPP P ua="na">%ACCESS PROTOCOL HTTPS%%BWDEVICEACCESSFQDN%:%BW
DEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%CiscoDev T
ype9841.xml</GPP P>
<Profile Rule B ua="na">($PSN eq "9841") ? $P | ($PSN eq
"9851") ? $0</Profile Rule B>
<profile Rule ua="na">%ACCESS PROTOCOL HTTPS%%BWDEVICEACCESSFQ
DN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%Cis
coDev System.xml</Profile Rule>
     3rd Party ROOT CA Settings: (HTTPS/TLS/SRTP) - OPTIONAL
<!--
-->
<!--
        <Custom CA Rule
ua="na">http://xsp.iop1.broadworks.net:80/dms/Cisco-DP-
9800/</Custom CA Rule>
         -->
<!--
        GUI SCREEN: Voice Tab - Phone Tab
        -->
</flat-profile>
</device>
```

System File: CisoDev_System.xml

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

```
<!-- DNS Settings-->
       <Primary_DNS ua="rw">%DNS SERVER 1%</Primary DNS>
       <Secondary DNS ua="rw">%DNS SERVER 2%</Secondary DNS>
       <DNS Server Order
ua="na">%DNS SERVER ORDER%</DNS Server Order>
       <DNS Caching Enable
ua="na">%DNS CACHE%</DNS Caching Enable>
       <!-- System Time Server -->
       <Primary NTP Server
ua="na">%SNTP_SERVER_1%</Primary_NTP_Server>
       <Secondary NTP Server
ua="na">%SNTP SERVER 2%</Secondary NTP Server>
       <!-- Block NonProxy SIP -->
       <Block_Nonproxy_SIP
ua="na">%Block Nonproxy SIP%</Block Nonproxy SIP>
       <!--
            GUI SCREEN: Voice Tab->SIP Tab
       -->
       <!-- SIP Parameters -->
       <RFC 2543 Call Hold
ua="na">%RFC 2543 HOLD%</RFC 2543 Call Hold>
       <Display Diversion Info
ua="na">%DISPLAY DIVERSION INFO%</Display Diversion Info>
       <!-- RTP Parameters -->
       <Call Statistics
ua="na">%CALL STATISTICS%</Call Statistics>
       <!-- Response Status Code Handling -->
       <Try Backup RSC
ua="na">%TRY BACKUP RSC%</Try Backup RSC>
       <Retry Reg RSC ua="na">%RETRY REG RSC%</Retry Reg RSC>
       <!-- BroadWork Advance Call Control -->
       <Talk Package ua="na">Yes</Talk Package>
       <Hold Package ua="na">Yes</Hold Package>
       <Conference Package ua="na">Yes</Conference Package>
       <!-- Extension Mobility -->
       <EM Enable ua="na">%EM ENABLED%</EM Enable>
       <!-- XSI Single SignOn -->
       <Profile Authentication Type
ua="na">%PROFILE AUTH TYPE%</Profile Authentication Type>
       <!--
*******
            -->
       <!-- Broadsoft XSI Directory and CallLog
-->
       <!--
-->
       <!-- Optional: Broadsoft Directory Settings -->
       <Directory Enable ua="na">Yes</Directory Enable>
       <XSI_Host_Server
ua="na">%XSI_SERVER%</XSI_Host_Server>
```

```
<Directory_Name
ua="na">%BROADSOFT DIR NAME%</Directory Name>
       <CallLog Enable ua="na">Yes</CallLog Enable>
       <XSI Authentication Type ua="na">Login
Credentials</XSI Authentication Type>
       <Directory Type
ua="na">%DIRECTORY TYPE%</Directory_Type>
       <!-- Broadsoft XMPP -->
       <XMPP Enable ua="na">Yes</XMPP Enable>
       <Call Recording Serv
ua="na">%CISCO CALL RECORDING ENABLED%</Call Recording Serv>
       <!--
*****
-->
       <!--
           GUI SCREEN: Voice Tab->Provisioning Tab
       -->
       <Peer Firmware_Sharing
ua="na">%Peer Firmware Sharing%</Peer Firmware Sharing>
       <Peer Firmware Sharing Log Server ua="na"/>
       <!-- Upload Configuration Options -->
       <Report Rule
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%/%CONF UPLOAD NAME%</Re
port Rule>
       <HTTP Report Method
ua="na">%HTTP REPORT METHOD%</HTTP Report Method>
       <Report To Server
ua="na">%REPORT TO SERVER%</Report To Server>
       <Periodic Upload To Server
ua="na">%PERIODIC_UPLOAD_TIMER%</Periodic_Upload_To_Server>
       <Upload Delay On Local Change
ua="na">%UPLOAD DELAY ON LOCAL CHANGE%</Upload Delay On Local
Change>
       <!-- Problem Report Tool -->
       <PRT Upload Rule
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%</PRT Upload Rule>
       <PRT_Upload_Method
ua="na">%PRT UPLOAD METHOD%</PRT Upload Method>
       <PRT Name ua="na">%PRT NAME%</PRT Name>
       <!--
          GUI SCREEN: Voice Tab->Regional Tab
       -->
       <!-- Vertical Service Activation Codes -->
       <Block CID Act Code
ua="na">%BLOCK CID ACTIVATE%</Block CID Act Code>
       <Block CID Deact Code
ua="na">%BLOCK CID DEACTIVATE%</Block CID Deact Code>
       <Block_ANC_Act_Code
ua="na">%BLOCK_ANC_ACTIVATE%</Block_ANC_Act_Code>
```

```
<!--
            GUI SCREEN: Voice Tab ->Phone Tab
        <!-- XSI Call Log -->
        <CallLog_Enable
ua="na">%CallLog Enable%</CallLog Enable>
        <CallLog Associated Line
ua="na">%CallLog Associated Line%</CallLog Associated Line>
        <Display Recents From
ua="na">%Display Recents From%</Display Recents From>
        <!-- Multiple Paging Group Parameters -->
<Group 1 Paging Script>%PAGING GRP 1%</Group 1 Paging Script>
        <Group_2_Paging_Script></Group_2_Paging_Script>
        <Group_3_Paging_Script></Group_3_Paging_Script>
        <Group_4_Paging_Script></Group_4_Paging_Script>
        <Group_5_Paging_Script></Group_5_Paging_Script>
<Group_6_Paging_Script></Group_6_Paging_Script>
        <Group 7 Paging Script></Group 7 Paging Script>
        <Group 8 Paging Script></Group 8 Paging Script>
        <Group 9 Paging Script></Group 9 Paging Script>
        <Group 10 Paging Script></Group 10 Paging Script>
        <!--
            GUI SCREEN: Voice Tab ->User Tab
        -->
        <!-- Screen Saver -->
        <Text Logo ua="na">%TEXT_LOGO%</Text_Logo>
        <Boot_Display ua="rw">%BOOT_DISPLAY%</Boot Display>
<!-- Options: Default/Download Picture/Logo/Text -->
        <Phone Background
ua="rw">%PHONE BACKGROUND%</Phone_Background> <!-- Options:
Default/Download Picture/Logo-->
        <Screen Saver Enable
ua="rw">%SCREEN_SAVER_ENABLED%</Screen_Saver_Enable>
        <Screen Saver Wait
ua="rw">%SCREEN SAVER WAIT%</Screen Saver Wait>
        <Screen Saver Refresh Period
ua="rw">%SCREEN SAVER REFRESH PERIOD%</Screen Saver Refresh Pe
riod>
        <Screen Saver Type
ua="rw">%SCREEN SAVER TYPE%</Screen Saver Type> <!-- Options:
Clock/Download Picture/Logo -->
        <!--
            GUI SCREEN: Ext1 Tab
        -->
        <!-- LINE1 SIP Settings -->
        <SIP 100REL Enable 1
ua="na">Yes</SIP 100REL Enable 1 >
        <Auth_INVITE_1_ ua="na">%AUTH_INVITE%</Auth INVITE 1 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 1 ua="na">No</SIP Remote-Party-
ID 1 >
        <Privacy_Header_1_
ua="na">%Privacy Header 1 %</Privacy Header 1 >
```

<P-Early-Media_Support_1 ua="na">%P EARLY MEDIA SUPPORT 1%</P-Early-Media Support 1 > <Use low-bandwidth OPUS 1 ua="na">%USE_LOW BANDWIDTH_OPUS_1%</Use low-bandwidth OPUS 1 > <MediaSec Request_1 ua="na">%MEDIASEC_REQUEST_1%</MediaSec_Request_1 > <MediaSec Over TLS Only 1 ua="na">%MEDIASEC_OVER_TLS_ONLY_1%</MediaSec_Over_TLS_Only_1 > <!-- LINE1 Call Feature Settings --> <Voice Mail Subscribe Interval 1 ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval _1_> <!-- LINE1 Proxy and Registration --> <Outbound Proxy 1 ua="na">%SBC ADDRESS 1%</Outbound Proxy 1 > <Alternate_Outbound_Proxy_1_</pre> ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 1 > <Use DNS SRV 1 ua="na">Yes</Use DNS SRV 1 > <DNS SRV Auto Prefix 1 ua="na">Yes</DNS_SRV Auto Prefix 1 > <Proxy Fallback Intvl 1 ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 1 > <!-- LINE1 Audio Configuration --> <Preferred Codec 1 ua="na">%PREFERRED CODEC%</Preferred Codec 1 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Second Preferred Codec 1 ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 1 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Third Preferred Codec 1 ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 1 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Use Pref Codec_Only_1 ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 1 > <Codec Negotiation 1 ua="na">%CODEC NEGOTIATION%</Codec Negotiation 1 > <!-- LINE1 Dial Plan --> <Dial Plan 1 ua="na">%DIAL PLAN%</Dial Plan 1 > <!-- LINE1 ACD Settings 11.0.2 wodennis--> <Broadsoft ACD 1 ua="na">%BROADSOFT ACD ENABLE-1% /Broadsoft_ACD $\overline{1}$ > <Enable Broadsoft Hoteling 1 ua="na">%BROADSOFT HOTELING ENABLE-1%</Enable Broadsoft Hoteling 1 > <Call Information Enable 1 ua="na">Yes</Call Information Enable 1 > <Disposition Code Enable 1 ua="na">Yes</Disposition_Code_Enable_1_> <Trace_Enable_1_ ua="na">Yes</Trace Enable 1 > <Emergency Escalation Enable 1 ua="na">Yes</Emergency Escalation Enable 1 > <Queue_Status_Notification_Enable_1 ua="na">Yes</Queue Status Notification Enable 1 >

<!-- XSI Line Service -->

```
<XSI Host Server 1
ua="na">%XSI_Host_Server_1%</XSI_Host_Server_1>
        <XSI Authentication Type 1
ua="na">%XSI Authentication Type 1 %</XSI Authentication Type
1 >
        <Anywhere Enable 1
ua="na">%Anywhere Enable 1 %</Anywhere Enable 1 >
        <Block CID Enable 1
ua="na">%Block CID Enable 1 %</Block CID Enable 1 >
        <DND Enable 1
ua="na">%XSI DND ENABLE 1%</DND Enable 1 >
        <CFWD Enable 1
ua="na">%XSI CFWD ENABLE 1%</CFWD Enable 1 >
<Block Anonymous Call Enable 1
ua="na">%Block Anonymous Call Enable 1%</Block Anonymous Call
Enable>
<Call Waiting Enable 1
ua="na">%Call Waiting Enable 1%</Call Waiting Enable 1 >
        <!--
            GUI SCREEN: Ext2 Tab
        -->
        <!-- LINE2 SIP Settings -->
        <SIP 100REL Enable 2
ua="na">Yes</SIP 100REL Enable 2 >
        <Auth INVITE 2 ua="na">%AUTH INVITE%</Auth INVITE 2 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 2 ua="na">No</SIP Remote-Party-
ID 2 >
        <P-Early-Media_Support_2
ua="na">%P_EARLY_MEDIA_SUPPORT_2%</P-Early-Media_Support_2>
<SIP_SessionID_Support_2_
ua="na">%SIP_SESSIONID_SUPPORT_2%</SIP_SessionID_Support_2_>
        <Use low-bandwidth OPUS 2
ua="na">%USE LOW BANDWIDTH OPUS 2%</Use low-bandwidth OPUS 2>
        <MediaSec Request_2
ua="na">%MEDIASEC REQUEST 2%</MediaSec Request 2.>
        <MediaSec Over TLS Only 2
ua="na">%MEDIASEC OVER TLS ONLY 2%</MediaSec Over TLS Only 2 >
        <!-- LINE2 Call Feature Settings -->
        <Voice Mail Subscribe Interval 2
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail_Subscribe_Interval
2 >
        <!-- LINE2 Proxy and Registration -->
        <Outbound Proxy 2
ua="na">%SBC ADDRESS 1%</Outbound Proxy 2 >
        <Alternate Outbound Proxy 2
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 2 >
        <Use DNS SRV 2 ua="na">Yes</Use DNS SRV 2 >
        <DNS SRV Auto Prefix 2
ua="na">Yes</DNS_SRV Auto Prefix 2 >
        <Proxy Fallback Intvl 2
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 2 >
        <!-- LINE2 Audio Configuration -->
        <Preferred Codec 2
ua="na">%PREFERRED_CODEC%</Preferred_Codec_2_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
```

```
<Second Preferred Codec 2
ua="na">%SECOND_PREFERRED_CODEC%</Second Preferred Codec 2 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_2
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 2 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 2
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 2 >
        <Codec Negotiation 2
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 2 >
        <!-- LINE2 Dial Plan -->
        <Dial Plan 2 ua="na">%DIAL PLAN%</Dial Plan 2 >
        <!-- LINE2 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 2 ua="na">%BROADSOFT ACD ENABLE-
2\%</Broadsoft ACD \overline{2} >
        <Enable Broadsoft Hoteling 2
ua="na">%BROADSOFT HOTELING ENABLE-
2%</Enable Broadsoft Hoteling 2 >
        <Call Information Enable 2
ua="na">Yes</Call_Information_Enable_2_>
        <Disposition Code Enable 2
ua="na">Yes</Disposition Code Enable 2 >
        <Trace Enable 2 ua="na">Yes</Trace Enable 2 >
        <Emergency Escalation Enable 2
ua="na">Yes</Emergency_Escalation_Enable_2_>
        <Queue Status Notification Enable 2
ua="na">Yes</Queue Status Notification Enable 2 >
        <!-
           GUI SCREEN: Ext3 Tab
        -->
        <!-- LINE3 SIP Settings -->
        <SIP 100REL_Enable_3
ua="na">Yes</SIP 100REL Enable 3 >
        <Auth_INVITE_3_ua="na">%AUTH_INVITE%</Auth_INVITE 3 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 3 ua="na">No</SIP Remote-Party-
ID 3 >
        <P-Early-Media Support 3
ua="na">%P EARLY MEDIA SUPPORT 3%</P-Early-Media Support 3 >
<SIP_SessionID_Support_3_
ua="na">%SIP_SESSIONID_SUPPORT_3%</SIP_SessionID_Support_3_>
        <Use_low-bandwidth_OPUS_3
ua="na">%USE LOW BANDWIDTH OPUS 3%</Use low-bandwidth OPUS 3 >
        <MediaSec Request 3
ua="na">%MEDIASEC_REQUEST_3%</MediaSec_Request_3 >
        <MediaSec Over TLS Only 3
ua="na">%MEDIASEC_OVER_TLS_ONLY_3%</MediaSec_Over_TLS_Only_3 >
        <!-- LINE3 Call Feature Settings -->
        <Voice Mail Subscribe Interval 3
ua="na">%VM SUBSCRIBE_INTERVAL%</Voice_Mail_Subscribe_Interval
_3_>
        <!-- LINE3 Proxy and Registration -->
        <Outbound Proxy_3_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_3_>
        <Alternate Outbound_Proxy_3
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 3 >
```

```
<Use_DNS_SRV_3_ ua="na">Yes</Use_DNS_SRV_3_>
        <DNS_SRV_Auto_Prefix_3
ua="na">Yes</DNS SRV Auto Prefix 3 >
        <Proxy Fallback Intvl 3
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 3 >
        <!-- LINE3 Audio Configuration -->
        <Preferred Codec 3
ua="na">%PREFERRED CODEC%</Preferred Codec_3 > <!-- options:</pre>
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 3
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 3 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 3
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 3 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref_Codec_Only_3_
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_3_>
        <Codec Negotiation 3
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 3 >
        <!-- LINE3 Dial Plan -->
        <Dial Plan 3 ua="na">%DIAL PLAN%</Dial Plan 3 >
        <!-- LINE3 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 3 ua="na">%BROADSOFT ACD ENABLE-
3%</Broadsoft ACD 3 >
        <Enable Broadsoft Hoteling 3
ua="na">%BROADSOFT HOTELING ENABLE-
3%</Enable Broadsoft Hoteling 3 >
        <Call_Information_Enable_3
ua="na">Yes</Call_Information_Enable_3_>
        <Disposition_Code_Enable_3</pre>
ua="na">Yes</Disposition Code Enable 3 >
        <Trace Enable 3 ua="na">Yes</Trace Enable 3 >
        <Emergency Escalation Enable 3
ua="na">Yes</Emergency Escalation Enable 3 >
        <Queue Status Notification Enable 3
ua="na">Yes</Queue Status Notification Enable 3 >
        <!--
            GUI SCREEN: Ext4 Tab
        -->
        <!-- LINE4 SIP Settings -->
        <SIP 100REL Enable 4
ua="na">Yes</SIP 100REL Enable 4 >
        <Auth_INVITE_4_ ua="na">%AUTH_INVITE%</Auth INVITE 4 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 4 ua="na">No</SIP Remote-Party-
ID 4 >
        <P-Early-Media Support 4
ua="na">%P EARLY MEDIA SUPPORT 4%</P-Early-Media Support 4 >
        <SIP SessionID Support 4
ua="na">%SIP SESSIONID SUPPORT 4%</SIP SessionID Support 4 >
        <Use low-bandwidth OPUS 4
ua="na">%USE LOW BANDWIDTH OPUS 4%</Use low-bandwidth OPUS 4 >
        <MediaSec Request 4
ua="na">%MEDIASEC_REQUEST_4%</MediaSec_Request_4_>
        <MediaSec_Over_TLS_Only_4_
ua="na">%MEDIASEC_OVER_TLS_ONLY_4%</MediaSec_Over_TLS_Only_4 >
```

```
<!-- LINE4 Call Feature Settings -->
        <Voice Mail Subscribe Interval 4
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_4_>
        <!-- LINE4 Proxy and Registration -->
        <Outbound Proxy 4
ua="na">%SBC ADDRESS 1%</Outbound Proxy 4 >
        <Alternate Outbound Proxy 4
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 4 >
        <Use DNS SRV 4 ua="na">Yes</Use DNS SRV 4 >
        <DNS SRV Auto Prefix 4
ua="na">Yes</DNS_SRV Auto Prefix 4 >
        <Proxy Fallback Intvl 4
ua="na">%FAILBACK INTVL%</Proxy_Fallback_Intvl_4_>
        <!-- LINE4 Audio Configuration -->
        <Preferred Codec 4
ua="na">%PREFERRED CODEC%</Preferred Codec 4 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 4
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 4 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 4
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 4 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 4
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 4 >
        <Codec Negotiation 4
ua="na">%CODEC_NEGOTIATION%</Codec Negotiation 4 >
        <!-- LINE4 Dial Plan -->
        <Dial Plan 4 ua="na">%DIAL PLAN%</Dial Plan 4 >
        <!-- LINE4 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 4 ua="na">%BROADSOFT ACD ENABLE-
4%</Broadsoft ACD \overline{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</pre>
ua="na">Yes</Emergency Escalation Enable 4 >
        <Queue Status Notification Enable 4
ua="na">Yes</Queue_Status_Notification_Enable_4_>
        <!--
            GUI SCREEN: Ext5 Tab
        -->
        <!-- LINE5 SIP Settings -->
        <SIP 100REL Enable 5
ua="na">Yes</SIP 100REL Enable 5 >
        <Auth_INVITE_5_ua="na">%AUTH_INVITE%</Auth_INVITE_5_>
<!-- Enable Yes if Device Auth is desired -->
        <SIP_Remote-Party-ID_5_ ua="na">No</SIP_Remote-Party-
```

```
ID 5 >
```

<P-Early-Media_Support_5_ ua="na">%P EARLY MEDIA SUPPORT 5%</P-Early-Media Support 5 > <SIP_SessionID_Support_5_ ua="na">%SIP_SESSIONID_SUPPORT_5%</SIP_SessionID_Support_5_> <Use low-bandwidth OPUS 5 ua="na">%USE LOW BANDWIDTH OPUS 5%</Use low-bandwidth OPUS 5 > <MediaSec Request_5 ua="na">%MEDIASEC_REQUEST_5%</MediaSec_Request_5 > <MediaSec Over TLS Only 5 ua="na">%MEDIASEC OVER TLS ONLY 5%</MediaSec Over TLS Only 5 > <!-- LINE5 Call Feature Settings --> <Voice Mail Subscribe Interval 5 ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval _5_> <!-- LINE5 Proxy and Registration --> <Outbound Proxy 5 ua="na">%SBC ADDRESS 1%</Outbound Proxy 5 > <Alternate_Outbound_Proxy_5</pre> ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 5 > <Use DNS SRV 5 ua="na">Yes</Use DNS SRV 5 > <DNS SRV Auto Prefix 5 ua="na">Yes</DNS_SRV Auto Prefix 5 > <Proxy Fallback Intvl 5 ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 5 > <!-- LINE5 Audio Configuration --> <Preferred Codec 5 ua="na">%PREFERRED CODEC%</Preferred Codec 5 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Second Preferred Codec 5 ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 5 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Third Preferred Codec 5 ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 5 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Use Pref Codec Only 5 ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 5 > <Codec Negotiation 5 ua="na">%CODEC NEGOTIATION%</Codec Negotiation 5 > <!-- LINE5 Dial Plan --> <Dial Plan 5 ua="na">%DIAL PLAN%</Dial Plan 5 > <!-- LINE5 ACD Settings 11.0.2 wodennis--> <Broadsoft ACD 5 ua="na">%BROADSOFT ACD ENABLE-5%</Broadsoft_ACD 5 > <Enable Broadsoft Hoteling 5 ua="na">%BROADSOFT HOTELING ENABLE-5%</Enable Broadsoft Hoteling 5 > <Call Information Enable 5 ua="na">Yes</Call Information Enable 5 > <Disposition Code Enable 5 ua="na">Yes</Disposition_Code_Enable_5_> <Trace_Enable_5_ ua="na">Yes</Trace Enable 5 > <Emergency Escalation Enable 5 ua="na">Yes</Emergency_Escalation_Enable_5_> <Queue_Status_Notification_Enable_5 ua="na">Yes</Queue Status Notification Enable 5 >

GUI SCREEN: Ext6 Tab --> <!-- LINE6 SIP Settings --> <SIP 100REL Enable 6 ua="na">Yes</SIP 100REL Enable 6 > <Auth INVITE 6 ua="na">%AUTH INVITE%</Auth INVITE 6 > <!-- Enable Yes if Device Auth is desired --> <SIP Remote-Party-ID 6 ua="na">No</SIP Remote-Party-ID 6 ><P-Early-Media Support 6 ua="na">%P EARLY MEDIA SUPPORT 6%</P-Early-Media Support 6 > <SIP SessionID Support 6 ua="na">%SIP_SESSIONID_SUPPORT_6%</SIP_SessionID_Support_6 > <Use_low-bandwidth_OPUS_6_ ua="na">%USE_LOW BANDWIDTH_OPUS_6%</Use low-bandwidth OPUS_6 > <MediaSec Request 6 ua="na">%MEDIASEC_REQUEST_6%</MediaSec_Request_6_> <MediaSec Over TLS Only 6 ua="na">%MEDIASEC_OVER_TLS_ONLY_6%</MediaSec_Over_TLS_Only_6_> <!-- LINE6 Call Feature Settings --> <Voice Mail Subscribe Interval 6 ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval _6_> <!-- LINE6 Proxy and Registration --> <Outbound Proxy 6 ua="na">%SBC ADDRESS 1%</Outbound Proxy 6 > <Alternate Outbound Proxy 6 ua="na">%SBC_ADDRESS_2%</Alternate_Outbound_Proxy 6 > <Use_DNS_SRV_6_ ua="na">Yes</Use_DNS_SRV_6_> <DNS SRV Auto Prefix 6 ua="na">Yes</DNS_SRV Auto Prefix 6 > <Proxy Fallback Intvl 6 ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 6 > <!-- LINE6 Audio Configuration --> <Preferred Codec 6 ua="na">%PREFERRED CODEC%</Preferred Codec 6 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Second Preferred Codec 6 ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 6 > <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Third_Preferred_Codec_6_ ua="na">%THIRD_PREFERRED_CODEC%</Third_Preferred_Codec_6_> <!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC --> <Use Pref Codec Only 6 ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 6 > <Codec_Negotiation_6_ ua="na">%CODEC NEGOTIATION%</Codec Negotiation 6 > <!-- LINE6 Dial Plan --> <Dial Plan 6 ua="na">%DIAL PLAN%</Dial Plan 6 > <!-- LINE6 ACD Settings 11.0.2 wodennis--> <Broadsoft ACD 6 ua="na">%BROADSOFT ACD ENABLE-6%</Broadsoft_ACD_6_> <Enable Broadsoft_Hoteling_6_ ua="na">%BROADSOFT HOTELING ENABLE-6%</Enable Broadsoft Hoteling 6 >

```
<Call Information Enable 6
ua="na">Yes</Call Information Enable 6 >
        <Disposition Code Enable 6
ua="na">Yes</Disposition Code Enable 6 >
        <Trace Enable 6 ua="na">Yes</Trace Enable 6 >
        <Emergency Escalation Enable 6
ua="na">Yes</Emergency Escalation Enable 6 >
        <Queue Status Notification Enable 6
ua="na">Yes</Queue Status Notification Enable 6 >
        <!--
           GUI SCREEN: Ext7 Tab
        -->
        <!-- LINE7 SIP Settings -->
        <SIP 100REL Enable 7
ua="na">Yes</SIP 100REL Enable 7 >
        <Auth_INVITE_7_ua="na">%AUTH_INVITE%</Auth_INVITE 7 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 7 ua="na">No</SIP Remote-Party-
ID 7 >
        <P-Early-Media Support 7
ua="na">%P EARLY MEDIA SUPPORT 7%</P-Early-Media Support 7 >
        <SIP SessionID Support 7
ua="na">%SIP_SESSIONID_SUPPORT_7%</SIP_SessionID_Support_7 >
        <Use low-bandwidth OPUS 7
ua="na">%USE_LOW_BANDWIDTH_OPUS_7%</Use low-bandwidth OPUS 7 >
        <MediaSec_Request_7_
ua="na">%MEDIASEC_REQUEST_7%</MediaSec_Request_7 >
        <MediaSec_Over_TLS_Only_7
ua="na">%MEDIASEC_OVER_TLS_ONLY_7%</MediaSec_Over_TLS_Only_7 >
        <!-- LINE7 Call Feature Settings -->
        <Voice Mail Subscribe Interval 7
ua="na">%VM SUBSCRIBE INTERVAL%</Voice_Mail_Subscribe_Interval
_7_>
        <!-- LINE7 Proxy and Registration -->
        <Outbound Proxy 7
ua="na">%SBC ADDRESS 1%</Outbound Proxy 7 >
        <Alternate Outbound Proxy 7
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 7 >
        <Use_DNS_SRV_7_ ua="na">Yes</Use_DNS_SRV_7 >
        <DNS_SRV_Auto_Prefix_7
ua="na">Yes</DNS_SRV_Auto_Prefix_7_>
        <Proxy_Fallback_Intvl_7_
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 7 >
        <!-- LINE7 Audio Configuration -->
        <Preferred Codec 7
ua="na">%PREFERRED CODEC%</Preferred Codec 7 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 7
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 7 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 7
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 7 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref_Codec_Only_7
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_7_>
        <Codec Negotiation 7
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 7 >
```

```
<!-- LINE7 Dial Plan -->
        <Dial Plan 7 ua="na">%DIAL PLAN%</Dial Plan 7 >
        <!-- LINE7 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 7 ua="na">%BROADSOFT ACD ENABLE-
7\%</Broadsoft ACD 7 >
        <Enable Broadsoft_Hoteling_7_</pre>
ua="na">%BROADSOFT HOTELING ENABLE-
7%</Enable Broadsoft Hoteling 7 >
        <Call Information Enable 7
ua="na">Yes</Call Information Enable 7 >
        <Disposition Code Enable 7
ua="na">Yes</Disposition Code Enable 7 >
        <Trace_Enable_7_ua="na">Yes</Trace_Enable_7_>
        <Emergency Escalation Enable 7
ua="na">Yes</Emergency Escalation Enable 7 >
        <Queue Status Notification Enable 7
ua="na">Yes</Queue Status Notification Enable 7 >
        <!--
            GUI SCREEN: Ext8 Tab
        -->
        <!-- LINE8 SIP Settings -->
        <SIP 100REL Enable 8
ua="na">Yes</SIP 100REL Enable 8 >
        <Auth_INVITE_8_ua="na">%AUTH_INVITE%</Auth_INVITE 8 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 8 ua="na">No</SIP Remote-Party-
ID 8 >
        <P-Early-Media_Support_8_
ua="na">%P EARLY MEDIA SUPPORT 8%</P-Early-Media Support 8 >
<SIP_SessionID_Support_8_
ua="na">%SIP_SESSIONID_SUPPORT_8%</SIP_SessionID_Support_8_>
        <Use low-bandwidth OPUS 8
ua="na">%USE LOW BANDWIDTH OPUS 8%</Use low-bandwidth OPUS 8 >
        <MediaSec Request 8
ua="na">%MEDIASEC REQUEST 8%</MediaSec Request 8 >
        <MediaSec Over TLS Only 8
ua="na">%MEDIASEC OVER TLS ONLY 8%</MediaSec Over TLS Only 8 >
        <!-- LINE8 Call Feature Settings -->
        <Voice Mail Subscribe Interval 8
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_8_>
        <!-- LINE8 Proxy and Registration -->
        <Outbound Proxy 8
ua="na">%SBC ADDRESS 1%</Outbound Proxy 8 >
        <Alternate Outbound_Proxy_8
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 8 >
        <Use DNS SRV 8 ua="na">Yes</Use DNS SRV 8 >
        <DNS SRV Auto Prefix 8
ua="na">Yes</DNS SRV Auto Prefix 8 >
        <Proxy Fallback Intvl 8
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 8 >
        <!-- LINE8 Audio Configuration -->
        <Preferred Codec 8
ua="na">%PREFERRED_CODEC%</Preferred_Codec_8_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
```

```
<Second Preferred Codec 8
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 8 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 8
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 8 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 8
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 8 >
        <Codec Negotiation 8
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 8 >
        <!-- LINE8 Dial Plan -->
        <Dial Plan 8 ua="na">%DIAL PLAN%</Dial Plan 8 >
        <!-- LINE8 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 8 ua="na">%BROADSOFT ACD ENABLE-
8\%</Broadsoft ACD 8 >
        <Enable Broadsoft Hoteling 8
ua="na">%BROADSOFT HOTELING ENABLE-
8%</Enable Broadsoft Hoteling 8 >
       <Call Information Enable 8
ua="na">Yes</Call_Information_Enable_8_>
        <Disposition Code Enable 8
ua="na">Yes</Disposition Code Enable 8 >
        <Trace Enable 8 ua="na">Yes</Trace Enable 8 >
        <Emergency Escalation Enable 8
ua="na">Yes</Emergency_Escalation_Enable_8_>
        <Queue Status Notification Enable 8
ua="na">Yes</Queue Status Notification Enable 8 >
        <!-
           GUI SCREEN: Ext9 Tab
        -->
        <!-- LINE9 SIP Settings -->
        <SIP 100REL Enable 9
ua="na">Yes</SIP 100REL Enable 9 >
        <Auth_INVITE_9_ua="na">%AUTH_INVITE%</Auth_INVITE 9 >
<!-- Enable Yes if Device Auth is desired -->
        <SIP Remote-Party-ID 9 ua="na">No</SIP Remote-Party-
ID 9 >
        <P-Early-Media Support 9
ua="na">%P EARLY MEDIA SUPPORT 9%</P-Early-Media Support 9 >
        <SIP_SessionID_Support_9
ua="na">%SIP_SESSIONID_SUPPORT_9%</SIP_SessionID_Support_9_>
        <Use_low-bandwidth_OPUS 9
ua="na">%USE LOW BANDWIDTH OPUS 9%</Use low-bandwidth OPUS 9 >
        <MediaSec Request 9
ua="na">%MEDIASEC_REQUEST_9%</MediaSec_Request_9 >
        <MediaSec Over TLS Only 9
ua="na">%MEDIASEC_OVER_TLS_ONLY_9%</MediaSec_Over_TLS_Only_9 >
        <!-- LINE9 Call Feature Settings -->
        <Voice Mail Subscribe Interval 9
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail_Subscribe_Interval
_9_>
        <!-- LINE9 Proxy and Registration -->
        <Outbound Proxy_9_
ua="na">%SBC_ADDRESS_1%</Outbound_Proxy_9_>
        <Alternate Outbound Proxy 9
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 9 >
```

```
<Use DNS SRV 9 ua="na">Yes</Use DNS SRV 9 >
        <DNS_SRV_Auto Prefix 9
ua="na">Yes</DNS_SRV Auto Prefix 9 >
        <Proxy Fallback Intvl 9
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 9 >
        <!-- LINE9 Audio Configuration -->
        <Preferred Codec 9
ua="na">%PREFERRED_CODEC%</Preferred Codec 9 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 9
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 9 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 9
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 9 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 9
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_9_>
        <Codec Negotiation 9
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 9 >
        <!-- LINE9 Dial Plan -->
        <Dial Plan 9 ua="na">%DIAL PLAN%</Dial Plan 9 >
        <!-- LINE8 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 9 ua="na">%BROADSOFT ACD ENABLE-
9%</Broadsoft ACD 9 >
        <Enable Broadsoft_Hoteling_9_
ua="na">%BROADSOFT HOTELING ENABLE-
9%</Enable Broadsoft Hoteling 9 >
        <Call_Information_Enable_9
ua="na">Yes</Call Information Enable 9 >
        <Disposition Code Enable 9
ua="na">Yes</Disposition Code Enable 9 >
        <Trace Enable 9 ua="na">Yes</Trace Enable 9 >
        <Emergency Escalation Enable 9
ua="na">Yes</Emergency Escalation Enable 9 >
        <Queue Status Notification Enable 9
ua="na">Yes</Queue Status Notification Enable 9 >
        <!--
           GUI SCREEN: Ext10 Tab
        -->
        <!-- LINE10 SIP Settings -->
        <SIP 100REL Enable 10
ua="na">Yes</SIP 100REL_Enable_10_>
        <Auth INVITE 10
ua="na">%AUTH INVITE%</Auth INVITE 10 > <!-- Enable Yes if
Device Auth is desired -->
        <SIP Remote-Party-ID 10 ua="na">No</SIP Remote-Party-
ID 10 >
        <P-Early-Media Support 10
ua="na">%P EARLY MEDIA SUPPORT 10%</P-Early-Media Support 10_>
        <SIP SessionID Support 10
ua="na">%SIP SESSIONID SUPPORT 10%</SIP SessionID Support 10 >
        <Use low-bandwidth OPUS 10
ua="na">%USE_LOW_BANDWIDTH_OPUS_10%</Use_low-
bandwidth OPUS 1\overline{0} >
        <MediaSec_Request_10
ua="na">%MEDIASEC REQUEST 10%</MediaSec Request 10 >
```

```
<MediaSec_Over_TLS_Only_10
ua="na">%MEDIASEC_OVER_TLS_ONLY_10%</MediaSec_Over_TLS_Only_10
>
        <!-- LINE10 Call Feature Settings -->
        <Voice Mail Subscribe Interval 10
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
10 >
        <!-- LINE10 Proxy and Registration -->
        <Outbound Proxy 10
ua="na">%SBC ADDRESS 1%</Outbound Proxy 10 >
        <Alternate Outbound Proxy 10
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 10 >
        <Use_DNS_SRV_10_ ua="na">Yes</Use_DNS_SRV_10_>
        <DNS_SRV_Auto_Prefix_10
ua="na">Yes</DNS SRV Auto Prefix 10 >
        <Proxy Fallback Intvl 10
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 10 >
        <!-- LINE10 Audio Configuration -->
        <Preferred Codec 10
ua="na">%PREFERRED CODEC%</Preferred Codec 10 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 10
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 10 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third_Preferred_Codec_10_
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 10 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use_Pref_Codec_Only_10
ua="na">%USE_PREFERRED_CODEC_ONLY%</Use_Pref_Codec_Only_10_>
        <Codec Negotiation 10
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_10_>
        <!-- LINE10 Dial Plan -->
        <Dial Plan 10 ua="na">%DIAL PLAN%</Dial Plan 10 >
        <!-- LINE10 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 10 ua="na">%BROADSOFT ACD ENABLE-
10%</Broadsoft ACD 10 > \,
        <Enable Broadsoft Hoteling 10
ua="na">%BROADSOFT HOTELING ENABLE-
10%</Enable Broadsoft Hoteling 10 >
        <Call_Information_Enable_10
ua="na">Yes</Call_Information_Enable_10_>
        <Disposition Code Enable 10
ua="na">Yes</Disposition_Code_Enable 10 >
        <Trace Enable 10 ua="na">Yes</Trace Enable 10 >
        <Emergency Escalation Enable 10
ua="na">Yes</Emergency Escalation Enable 10 >
        <Queue Status Notification Enable 10
ua="na">Yes</Queue Status Notification Enable 10 >
        <!--
            GUI SCREEN: Extl1 Tab
        -->
        <!-- LINE11 SIP Settings -->
        <SIP 100REL Enable 11
ua="na">Yes</SIP 100REL Enable 11 >
```

```
<Auth_INVITE 11
ua="na">%AUTH INVITE%</Auth INVITE 11 > <!-- Enable Yes if
Device Auth is desired -->
        <SIP Remote-Party-ID 11 ua="na">No</SIP Remote-Party-
ID 11 >
        <P-Early-Media Support 11
ua="na">%P EARLY MEDIA SUPPORT 11%</P-Early-Media_Support_11_>
        <SIP SessionID Support 11
ua="na">%SIP_SESSIONID_SUPPORT_11%</SIP_SessionID_Support_11 >
        <Use low-bandwidth OPUS 11
ua="na">%USE LOW BANDWIDTH OPUS 11%</Use low-
bandwidth OPUS 11 >
        <MediaSec Request 11
ua="na">%MEDIASEC_REQUEST_11%</MediaSec Request 11 >
        <MediaSec_Over_TLS_Only_11_
ua="na">%MEDIASEC_OVER_TLS_ONLY_11%</MediaSec_Over TLS Only 11
_>
        <!-- LINE11 Call Feature Settings -->
        <Voice Mail Subscribe Interval 11
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
11 >
        <!-- LINE11 Proxy and Registration -->
        <Outbound Proxy 11
ua="na">%SBC ADDRESS 1%</Outbound Proxy 11 >
        <Alternate Outbound Proxy 11
ua="na">%SBC ADDRESS_2%</Alternate_Outbound_Proxy_11_>
        <Use DNS SRV 11 ua="na">Yes</Use DNS SRV 11 >
        <DNS_SRV_Auto_Prefix_11
ua="na">Yes</DNS_SRV_Auto_Prefix_11_>
        <Proxy Fallback Intvl 11
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 11 >
        <!-- LINE11 Audio Configuration -->
        <Preferred Codec 11
ua="na">%PREFERRED CODEC%</Preferred Codec 11 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 11
```

```
<Trace_Enable_11_ ua="na">Yes</Trace_Enable_11_>
        <Emergency Escalation Enable 11
ua="na">Yes</Emergency Escalation Enable 11 >
        <Queue Status Notification Enable 11
ua="na">Yes</Queue Status Notification Enable 11 >
        <!--
            GUI SCREEN: Ext12 Tab
        <!-- LINE12 SIP Settings -->
        <SIP 100REL Enable 12
ua="na">Yes</SIP 100REL Enable 12 >
        <Auth INVITE 12
ua="na">%AUTH INVITE%</Auth INVITE 12 > <!-- Enable Yes if
Device Auth is desired -->
        <SIP Remote-Party-ID 12 ua="na">No</SIP Remote-Party-
ID_12_>
        <P-Early-Media Support 12
ua="na">%P EARLY MEDIA SUPPORT 12%</P-Early-Media Support 12 >
        <SIP SessionID Support 12
ua="na">%SIP SESSIONID SUPPORT 12%</SIP SessionID Support 12 >
        <Use low-bandwidth OPUS 12
ua="na">%USE LOW BANDWIDTH OPUS 12%</Use low-
bandwidth OPUS 1\overline{2} >
        <MediaSec Request 12
ua="na">%MEDIASEC REQUEST 12%</MediaSec Request 12 >
        <MediaSec Over TLS Only 12
ua="na">%MEDIASEC OVER TLS ONLY 12%</MediaSec Over TLS Only 12
_>
        <!-- LINE12 Call Feature Settings -->
        <Voice Mail Subscribe Interval 12
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_12_>
        <!-- LINE12 Proxy and Registration -->
        <Outbound Proxy 12
ua="na">%SBC ADDRESS 1%</Outbound Proxy 12 >
        <Alternate Outbound Proxy 12
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 12 >
        <Use DNS SRV 12 ua="na">Yes</Use DNS SRV 12 >
        <DNS SRV Auto Prefix 12
ua="na">Yes</DNS SRV Auto Prefix 12 >
        <Proxy_Fallback_Intvl_12_
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 12 >
        <!-- LINE12 Audio Configuration -->
        <Preferred Codec 12
ua="na">%PREFERRED CODEC%</Preferred Codec 12 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 12
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 12 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 12
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 12 >
```

<Codec_Negotiation_12_ ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation_12 >

```
<!-- LINE12 Dial Plan -->
        <Dial Plan 12 ua="na">%DIAL PLAN%</Dial Plan 12 >
        <!-- LINE12 ACD Settings 11.0.2 wodennis-->
        <Broadsoft_ACD_12_ ua="na">%BROADSOFT_ACD_ENABLE-
12%</Broadsoft ACD 12 >
        <Enable Broadsoft Hoteling 12
ua="na">%BROADSOFT HOTELING ENABLE-
12%</Enable Broadsoft Hoteling 12 >
        <Call Information Enable 12
ua="na">Yes</Call Information Enable 12 >
        <Disposition Code Enable 12
ua="na">Yes</Disposition_Code_Enable_12_>
        <Trace_Enable_12_ ua="na">Yes</Trace_Enable_12_>
        <Emergency Escalation Enable 12
ua="na">Yes</Emergency Escalation Enable 12 >
        <Queue Status Notification Enable 12
ua="na">Yes</Queue Status Notification Enable 12 >
        <!--
           GUI SCREEN: Ext13 Tab
        -->
        <!-- LINE13 SIP Settings -->
        <SIP 100REL Enable 13
ua="na">Yes</SIP 100REL Enable 13 >
       <Auth INVITE 13
ua="na">%AUTH_INVITE%</Auth_INVITE_13_> <!-- Enable Yes if
Device Auth is desired -->
       <SIP Remote-Party-ID 13 ua="na">No</SIP Remote-Party-
ID 13 >
        <P-Early-Media Support 13
ua="na">%P_EARLY_MEDIA_SUPPORT_13%</P-Early-Media Support 13 >
        <SIP SessionID Support 13
ua="na">%SIP_SESSIONID_SUPPORT_13%</SIP_SessionID_Support_13 >
       <Use low-bandwidth OPUS 13
ua="na">%USE LOW BANDWIDTH OPUS 13%</Use low-
bandwidth OPUS 13 >
        <MediaSec Request 13
ua="na">%MEDIASEC REQUEST 13%</MediaSec Request 13 >
        <MediaSec Over TLS Only 13
ua="na">%MEDIASEC OVER TLS ONLY 13%</MediaSec Over TLS Only 13
>
        <!-- LINE13 Call Feature Settings -->
        <Voice Mail Subscribe Interval 13
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_13_>
        <!-- LINE13 Proxy and Registration -->
        <Outbound Proxy 13
ua="na">%SBC ADDRESS 1%</Outbound Proxy 13 >
        <Alternate Outbound Proxy 13
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 13 >
        <Use DNS SRV 13 ua="na">Yes</Use DNS SRV 13 >
        <DNS SRV Auto Prefix 13
ua="na">Yes</DNS SRV Auto Prefix 13 >
       <Proxy Fallback Intvl 13
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 13 >
        <!-- LINE13 Audio Configuration -->
```

```
<Preferred Codec 13
ua="na">%PREFERRED CODEC%</Preferred Codec 13 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 13
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 13 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 13
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 13 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 13
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 13 >
        <Codec Negotiation 13
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 13 >
        <!-- LINE13 Dial Plan -->
        <Dial Plan 13_ ua="na">%DIAL_PLAN%</Dial_Plan_13_>
        <!-- LINE13 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 13 ua="na">%BROADSOFT ACD ENABLE-
13%</Broadsoft ACD 13 >
        <Enable Broadsoft Hoteling 13
ua="na">%BROADSOFT HOTELING ENABLE-
13%</Enable Broadsoft Hoteling 13 >
        <Call Information Enable 13
ua="na">Yes</Call Information Enable 13 >
        <Disposition Code Enable 13
ua="na">Yes</Disposition Code Enable 13 >
        <Trace_Enable_13_ ua="na">Yes</Trace_Enable_13_>
        <Emergency Escalation Enable 13
ua="na">Yes</Emergency Escalation Enable 13 >
        <Queue Status Notification Enable 13
ua="na">Yes</Queue Status Notification Enable 13 >
        <!--
           GUI SCREEN: Ext14 Tab
        <!-- LINE14 SIP Settings -->
        <SIP 100REL Enable 14
ua="na">Yes</SIP 100REL Enable 14 >
        <Auth_INVITE 14
ua="na">%AUTH INVITE%</Auth INVITE 14 > <!-- Enable Yes if
Device Auth is desired -->
```

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```
<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 lowbandwidth OPUS 14 > <MediaSec Request 14 ua="na">%MEDIASEC REQUEST 14%</MediaSec Request 14 > <MediaSec Over TLS Only 14

```
ua="na">%MEDIASEC OVER TLS ONLY 14%</MediaSec Over TLS Only 14
```

<!-- LINE14 Call Feature Settings -->

_>
```
<Voice Mail Subscribe Interval 14
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
14 >
        <!-- LINE14 Proxy and Registration -->
        <Outbound Proxy 14
ua="na">%SBC ADDRESS 1%</Outbound Proxy 14 >
       <Alternate_Outbound_Proxy_14_</pre>
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 14 >
        <Use DNS SRV 14 ua="na">Yes</Use DNS SRV 14 >
        <DNS SRV Auto Prefix 14
ua="na">Yes</DNS SRV Auto Prefix 14 >
        <Proxy Fallback Intvl 14
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 14 >
        <!-- LINE14 Audio Configuration -->
        <Preferred Codec 14
ua="na">%PREFERRED_CODEC%</Preferred_Codec_14_> <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 14
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 14 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 14
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 14 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 14
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 14 >
        <Codec_Negotiation 14
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 14 >
        <!-- LINE14 Dial Plan -->
        <Dial Plan 14 ua="na">%DIAL PLAN%</Dial Plan 14 >
        <!-- LINE14 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 14 ua="na">%BROADSOFT ACD ENABLE-
14%</Broadsoft ACD 14 >
        <Enable Broadsoft Hoteling 14
ua="na">%BROADSOFT HOTELING ENABLE-
14%</Enable Broadsoft Hoteling 14 >
        <Call Information Enable 14
ua="na">Yes</Call Information Enable 14 >
        <Disposition Code Enable 14
ua="na">Yes</Disposition_Code_Enable_14_>
        <Trace_Enable_14_ ua="na">Yes</Trace_Enable_14_>
        <Emergency_Escalation_Enable_14_
ua="na">Yes</Emergency Escalation Enable 14 >
        <Queue Status Notification Enable 14
ua="na">Yes</Queue_Status_Notification Enable 14 >
        <!--
           GUI SCREEN: Ext15 Tab
        -->
        <!-- LINE15 SIP Settings -->
        <SIP 100REL Enable 15
ua="na">Yes</SIP 100REL Enable 15 >
        <Auth_INVITE_15
ua="na">%AUTH_INVITE%</Auth_INVITE_15_> <!-- Enable Yes if
Device Auth is desired -->
```

```
<SIP Remote-Party-ID 15 ua="na">No</SIP Remote-Party-
ID 15 >
        <P-Early-Media Support 15
ua="na">%P EARLY MEDIA SUPPORT 15%</P-Early-Media Support 15 >
        <SIP SessionID Support 15
ua="na">%SIP_SESSIONID_SUPPORT_15%</SIP_SessionID_Support_15 >
        <Use low-bandwidth OPUS 15
ua="na">%USE LOW BANDWIDTH OPUS 15%</Use low-
bandwidth OPUS 15 >
        <MediaSec Request 15
ua="na">%MEDIASEC REQUEST 15%</MediaSec Request 15 >
        <MediaSec Over TLS Only 15
ua="na">%MEDIASEC OVER TLS ONLY 15%</MediaSec Over TLS Only 15
_>
        <!-- LINE15 Call Feature Settings -->
        <Voice Mail Subscribe Interval 15
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_15_>
        <!-- LINE15 Proxy and Registration -->
        <Outbound Proxy 15
ua="na">%SBC ADDRESS 1%</Outbound Proxy 15 >
        <Alternate Outbound Proxy 15
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 15 >
        <Use DNS SRV 15 ua="na">Yes</Use DNS SRV 15 >
        <DNS SRV Auto Prefix 15
ua="na">Yes</DNS SRV Auto Prefix 15 >
        <Proxy Fallback Intvl 15
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 15 >
        <!-- LINE15 Audio Configuration -->
        <Preferred Codec 15
ua="na">%PREFERRED CODEC%</Preferred Codec 15 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 15
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 15 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 15
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 15 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 15
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 15 >
        <Codec Negotiation_15
ua="na">%CODEC NEGOTIATION </Codec Negotiation 15 >
        <!-- LINE15 Dial Plan -->
        <Dial Plan 15 ua="na">%DIAL PLAN%</Dial Plan 15 >
        <!-- LINE15 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 15 ua="na">%BROADSOFT ACD ENABLE-
15%</Broadsoft ACD 15 >
        <Enable Broadsoft Hoteling 15
ua="na">%BROADSOFT HOTELING ENABLE-
15%</Enable Broadsoft Hoteling 15 >
        <Call Information Enable 15
ua="na">Yes</Call Information Enable 15 >
        <Disposition Code Enable 15
ua="na">Yes</Disposition_Code_Enable_15_>
        <Trace_Enable_15_ ua="na">Yes</Trace_Enable_15_>
        <Emergency Escalation Enable 15
ua="na">Yes</Emergency Escalation Enable 15 >
```

```
<Queue Status Notification Enable 15
ua="na">Yes</Queue Status Notification Enable 15 >
        <!--
            GUI SCREEN: Ext16 Tab
        -->
        <!-- LINE16 SIP Settings -->
        <SIP 100REL Enable 16
ua="na">Yes</SIP 100REL Enable 16 >
        <Auth INVITE 16
ua="na">%AUTH INVITE%</Auth INVITE 16 > <!-- Enable Yes if
Device Auth is desired -->
        <SIP Remote-Party-ID 16 ua="na">No</SIP Remote-Party-
ID 16 >
        <P-Early-Media_Support_16
ua="na">%P_EARLY_MEDIA_SUPPORT_16%</P-Early-Media_Support_16_>
        <SIP SessionID Support 16
ua="na">%SIP_SESSIONID_SUPPORT_16%</SIP_SessionID_Support_16 >
        <Use low-bandwidth OPUS 16
ua="na">%USE LOW BANDWIDTH OPUS 16%</Use low-
bandwidth OPUS 16 >
        <MediaSec Request 16
ua="na">%MEDIASEC REQUEST 16%</MediaSec Request 16 >
        <MediaSec Over TLS Only 16
ua="na">%MEDIASEC OVER TLS ONLY 16%</MediaSec Over TLS Only 16
_>
        <!-- LINE1 Call Feature Settings -->
        <Voice_Mail_Subscribe_Interval_16
ua="na">%VM SUBSCRIBE INTERVAL%</Voice Mail Subscribe Interval
_16_>
        <!-- LINE16 Proxy and Registration -->
        <Outbound Proxy 16
ua="na">%SBC ADDRESS 1%</Outbound Proxy 16 >
        <Alternate Outbound Proxy 16
ua="na">%SBC ADDRESS 2%</Alternate Outbound Proxy 16 >
        <Use DNS SRV 16 ua="na">Yes</Use DNS SRV 16 >
        <DNS SRV Auto Prefix 16
ua="na">Yes</DNS SRV Auto Prefix 16 >
        <Proxy Fallback Intvl 16
ua="na">%FAILBACK INTVL%</Proxy Fallback Intvl 16 >
        <!-- LINE16 Audio Configuration -->
        <Preferred Codec 16
ua="na">%PREFERRED CODEC%</Preferred Codec 16 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 16
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 16 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 16
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 16 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 16
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 16 >
        <Codec Negotiation 16
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 16 >
```

<!-- LINE16 Dial Plan --> <Dial Plan 16 ua="na">%DIAL PLAN%</Dial Plan 16 >

```
<!-- LINE16 ACD Settings 11.0.2 wodennis-->
        <Broadsoft ACD 16 ua="na">%BROADSOFT ACD ENABLE-
16%</Broadsoft ACD 16 >
        <Enable Broadsoft Hoteling 16
ua="na">%BROADSOFT HOTELING ENABLE-
16%</Enable Broadsoft Hoteling 16 >
        <Call Information Enable 16
ua="na">Yes</Call Information Enable 16 >
       <Disposition Code Enable 16
ua="na">Yes</Disposition Code Enable 16 >
        <Trace Enable 16 ua="na">Yes</Trace Enable 16 >
        <Emergency Escalation Enable 16
ua="na">Yes</Emergency_Escalation_Enable_16_>
        <Queue Status Notification Enable 16
ua="na">Yes</Queue Status Notification Enable 16 >
        <!--
             GUI SCREEN: Voice Tab - Att Console
        -->
        <!-- BLF List Feature Options -->
        <BLF List Feature Options
ua="na">%BLF_LIST_FEATURE_OPTIONS%</BLF_List Feature Options>
    </flat-profile>
</device>
```

System File: CisoDev_System.xml

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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 NANME%</XsiDir Personal Name> <XsiDir Group Name ua="na">%XSIDIR GROUP NAME%</XsiDir Group Name> <XsiDir Enterprise Name ua="na">%XSIDIR ENTERPRISE NANME%</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> <Directory Type ua="na">%DIRECTORY TYPE%</Directory Type> <!-- Broadsoft XMPP --> <XMPP Enable ua="na">Yes</XMPP Enable> <Call Recording Serv ua="na">%CISCO CALL RECORDING ENABLED%</Call Recording Serv> <!----> <!--GUI SCREEN: Voice Tab->Provisioning Tab --> <Peer_Firmware_Sharing ua="na">%Peer Firmware Sharing%</Peer Firmware Sharing> <Peer Firmware Sharing Log Server ua="na"/> <!-- Upload Configuration Options --> <Report Rule ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP

```
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%/%CONF UPLOAD NAME%</Re
port Rule>
       <HTTP Report Method
ua="na">%HTTP_REPORT_METHOD%</HTTP_Report_Method>
       <Report To Server
ua="na">%REPORT TO SERVER%</Report To Server>
       <Periodic Upload To Server
ua="na">%PERIODIC_UPLOAD_TIMER%</Periodic_Upload_To_Server>
       <Upload Delay On Local Change
ua="na">%UPLOAD DELAY ON LOCAL CHANGE%</Upload Delay On Local
Change>
        <!-- Problem Report Tool -->
       <PRT Upload Rule
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%</PRT Upload Rule>
       <PRT Upload Method
ua="na">%PRT_UPLOAD_METHOD%</PRT_Upload_Method>
        <PRT Name ua="na">%PRT NAME%</PRT Name>
        <!--
           GUI SCREEN: Voice Tab->Regional Tab
        -->
        <!-- Vertical Service Activation Codes -->
       <Block CID Act Code
ua="na">%BLOCK_CID_ACTIVATE%</Block_CID_Act_Code>
       <Block CID Deact Code
ua="na">%BLOCK CID DEACTIVATE%</Block CID Deact Code>
       <Block_ANC_Act_Code
ua="na">%BLOCK_ANC_ACTIVATE%</Block_ANC_Act Code>
       <Block_ANC_Deact_Code
ua="na">%BLOCK ANC DEACTIVATE%</Block ANC Deact Code>
        <!--
           GUI SCREEN: Voice Tab ->Phone Tab
        -->
       <!-- XSI Call Log -->
       <CallLog Enable
ua="na">%CallLog Enable%</CallLog Enable>
       <CallLog Associated Line
ua="na">%CallLog Associated Line%</CallLog Associated Line>
       <Display Recents From
ua="na">%Display Recents From%</Display Recents From>
        <!-- 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
Davs -->
       <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_</pre>
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 Preferred Codec 2
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 2 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 2
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 2 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref Codec Only 2
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 2 >
        <Codec Negotiation 2
ua="na">%CODEC_NEGOTIATION%</Codec_Negotiation 2 >
        <!-- LINE2 Dial Plan -->
        <Dial Plan 2 ua="na">%DIAL_PLAN%</Dial_Plan_2_>
        <!-- LINE2 ACD Settings -->
        <Broadsoft ACD 2 ua="na">%BROADSOFT ACD ENABLE-
2%</Broadsoft ACD \overline{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_</pre>
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
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 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/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 5
ua="na">%SECOND_PREFERRED_CODEC%</Second Preferred Codec 5 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 5
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 5 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
       <Use Pref Codec Only 5
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 5 >
       <Codec Negotiation 5
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 5 >
        <!-- LINE5 Dial Plan -->
        <Dial Plan 5 ua="na">%DIAL PLAN%</Dial Plan 5 >
        <!-- LINE5 ACD Settings -->
        <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 > <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
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_</pre>
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_</pre>
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 CODEC%</Preferred Codec 8 > <!-- options:
G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Second Preferred Codec 8
ua="na">%SECOND PREFERRED CODEC%</Second Preferred Codec 8 >
<!-- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Third Preferred Codec 8
ua="na">%THIRD PREFERRED CODEC%</Third Preferred Codec 8 > <!-
- options: G711u/G711a/G729a/G792ab/G722/G722.2/iLBC -->
        <Use Pref_Codec_Only_8
ua="na">%USE PREFERRED CODEC ONLY%</Use Pref Codec Only 8 >
        <Codec Negotiation 8
ua="na">%CODEC NEGOTIATION%</Codec Negotiation 8 >
        <!-- LINE8 Dial Plan -->
        <Dial Plan 8 ua="na">%DIAL_PLAN%</Dial_Plan_8_>
        <!-- LINE8 ACD Settings -->
        <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:</pre>
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 \overline{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: Extl1 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 >
```

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```
<Use low-bandwidth OPUS 12
ua="na">%USE_LOW_BANDWIDTH_OPUS_12%</Use low-
bandwidth OPUS 1\overline{2} >
<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_</pre>
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 1\overline{4} >
        <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 -->
<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</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 -->
<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>
```

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Family-Specific-file: CiscoDev_Type9841.xml



```
-->
        <!-- 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: Extl 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_Type78xx.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<device xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
   <flat-profile>
        <!--
            GUI SCREEN: Voice Tab->SIP Tab
        -->
        <!--
           GUI SCREEN: Voice Tab->Provisioning Tab
        -->
       <!-- Device Profile Folder (Opt1) -->
       <Upgrade Rule
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%FIRMWARE VERSION CP-
7800-3PCC%</Upgrade Rule>
       <Profile Rule C
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%$MA CiscoDev.xml</Profi
le Rule C>
        <!-- Screen Saver -->
        <Logo URL ua="rw">%7800 LOGO PIC URL%</Logo URL>
        <Picture Download URL
ua="rw">%7800 WALLPAPER PIC URL%</Picture Download URL>
        <!-- Localization -->
        <!--
           Example Script supporting English/French/Spanish.
            Device supports up to 10 language indexes. 512
character string length max.
        <Dictionary Server Script
ua="na">serv=http://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/
%BWDMSCONTEXT%/%BWDEVICEACCESSURI%;d1=Spanish;l1=es-ES;x1=es-
```

```
ES.tar;d2=French;l2=fr-FR;x2=fr-
FR.tar</Dictionary Server Script>
        -->
       <Dictionary Server Script
ua="na">serv=%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEAC
CESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%;%DICTIONARY SERVE
R_SCRIPT_7800%</Dictionary_Server_Script>
        <!--
           GUI SCREEN: Voice Tab->Regional Tab
        -->
        <!-- Vertical Service Activation Codes -->
        <!--
           GUI SCREEN: Voice Tab ->Phone Tab
        -->
       <!-- Line Key LED Pattern (Not Applicable for 7832) --
>
       <Custom_LED_Type
ua="na">%CUSTOM LED TYPE%</Custom LED Type>
       <Disabled LED ua="na">%DISABLED LED%</Disabled LED>
       <Idle LED ua="na">%IDLE LED%</Idle LED>
       <Remote Undefined LED
ua="na">%REMOTE UNDEFINED LED%</Remote Undefined LED>
       <Local_Seized LED
ua="na">%LOCAL SEIZED LED%</Local Seized LED>
       <Remote Seized LED
ua="na">%REMOTE_SEIZED_LED%</Remote_Seized_LED>
       <Local_Progressing LED
ua="na">%LOCAL PROGRESSING LED%</Local Progressing LED>
       <Remote Progressing LED
ua="na">%REMOTE PROGRESSING_LED%</Remote_Progressing_LED>
       <Local Ringing LED
ua="na">%LOCAL RINGING LED%</Local Ringing LED>
       <Remote Ringing LED
ua="na">%REMOTE RINGING LED%</Remote Ringing LED>
       <Local Active LED
ua="na">%LOCAL ACTIVE LED%</Local Active LED>
       <Remote Active LED
ua="na">%REMOTE ACTIVE LED%</Remote Active LED>
       <Local Held LED
ua="na">%LOCAL_HELD_LED%</Local_Held_LED>
       <Remote Held LED
ua="na">%REMOTE HELD LED%</Remote Held LED>
       <Register Failed LED
ua="na">%REGISTER FAILED LED%</Register Failed LED>
       <Registering_LED
ua="na">%REGISTERING LED%</Registering LED>
        <!--
           GUI SCREEN: Voice Tab ->User Tab
        -->
        <!--
           GUI SCREEN: Ext1 Tab
        -->
```

```
<!--
        GUI SCREEN: Voice Tab->Att Console Tab
        -->
       <!-- Att Console Key LED Pattern (Not Applicable for
7832) -->
       <Application LED
ua="na">%APPLICATION LED%</Application_LED>
       <Serv Subscribe Failed LED
ua="na">%SERV_SUBSCRIBE_FAILED_LED%</Serv_Subscribe_Failed_LED
>
        <Serv Subscribing LED
ua="na">%SERV SUBSCRIBING LED%</Serv Subscribing LED>
       <Parking_Lot_Idle_LED
ua="na">%PARKING_LOT_IDLE_LED%</Parking_Lot_Idle_LED>
       <Parking_Lot_Busy_LED
ua="na">%PARKING LOT BUSY LED%</Parking Lot Busy LED>
        <BLF Idle LED ua="na">%BLF IDLE LED%</BLF Idle LED>
       <BLF Ringing LED
ua="na">%BLF_RINGING_LED%</BLF_Ringing_LED>
        <BLF Busy LED ua="na">%BLF BUSY LED%</BLF Busy LED>
        <BLF Held LED ua="na">%BLF_HELD_LED%</BLF_Held_LED>
    </flat-profile>
</device>
```

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

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <flat-profile>
        <!--
        GUI SCREEN: Voice Tab->System Tab
        -->
        <!-- DNS Settings-->
        <Primary DNS ua="rw">%DNS SERVER 1%</Primary DNS>
        <Secondary DNS ua="rw">%DNS SERVER 2%</Secondary DNS>
        <!--
        GUI SCREEN: Voice Tab->SIP Tab
        -->
        <!-- SIP Parameters -->
        <SIP TCP Port Min
ua="na">%SIP_TCP_MIN%</SIP_TCP_Port_Min>
       <SIP TCP Port Max
ua="na">%SIP TCP MAX%</SIP TCP Port Max>
        <!-- Profile Rule Resync Timers -->
        <Resync On Reset ua="na">Yes</Resync On Reset>
```
```
<Resync_At__HHmm_
ua="na">%RESYNC_TIME%</Resync_At__HHmm_>
       <Resync_At_Random_Delay
ua="na">%RESYNC AT RANDOM DELAY%</Resync At Random Delay>
       <Resync Periodic
ua="na">%RESYNC_PERIODIC%</Resync_Periodic>
      <Resync Error Retry Delay
ua="na">%RESYNC ERROR%</Resync Error Retry Delay>
       <Forced Resync Delay
ua="na">%RESYNC FORCED%</Forced Resync Delay>
       <!--
-->
       <!-- Broadsoft XSI Directory and CallLog
-->
       <!--
******
-->
       <Login User ID ua="na">%BWLOGIN-ID-1%</Login User ID>
       <Login Password ua="na">%XSIPASSWORD-
1%</Login_Password>
       <SIP Auth ID ua="na">%BWAUTHUSER-1%</SIP Auth ID>
       <SIP Password ua="na">%BWAUTHPASSWORD-
1%</SIP Password>
       <!-- Broadsoft XMPP -->
       <XMPP Server ua="na">%BW IMP SERVICE NET ADDRESS-
1%</XMPP Server>
       <XMPP Port ua="na">%BW IMP SERVICE PORT-1%</XMPP Port>
       <XMPP User ID ua="na">%BW USER IMP ID-
1%</XMPP User ID>
       <XMPP Password ua="na">%BW_USER_IMP_PWD-
1%</XMPP Password>
       <!--
       GUI SCREEN: Voice Tab->Provisioning Tab
       -->
       <!-- Profile Rule Resync Timers -->
       <!--
       GUI SCREEN: Voice Tab->Regional Tab
       -->
       <!-- 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">%BWLANGUAGE-
1%</Language Selection> <!-- 88xx/78xx/68xx -->
        <Phone Language ua="na">%BWLANGUAGE-
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 \overline{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
        -->
```

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```
<!-- 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 \overline{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 \overline{2} >
        <Enable Broadsoft Hoteling 2
ua="na">%BROADSOFT HOTELING ENABLE-
2%</Enable Broadsoft Hoteling 2 >
        <!--
        GUI SCREEN: Voice Tab->Ext3 Tab
        -->
        <!-- LINE3 SIP Settings -->
        <SIP Transport_3_ ua="na">%SIP_TRANSPORT-
3%</SIP Transport 3 >
        <SIP_UDP_Port_3_ ua="na">%SIP_UDP_PORT-
3%</SIP UDP Port 3 >
        <!-- LINE3 Share Line Appearance -->
        <Share Ext 3 ua="na">%BWSHAREDLINE-ENABLED-
3\%</Share Ext 3 >
        <Shared User ID 3 ua="na">%BWLINEPORT-
3%</Shared User ID 3 >
        <Subscription Expires 3
ua="na">3600</Subscription Expires 3 >
        <!-- LINE3 Call Feature Settings -->
```

```
<Feature_Key_Sync_3_ ua="na">%BWDFS-ENABLED-
3%</Feature_Key_Sync_3_>
        <Auto_Ans_Page_On_Active Call 3
ua="na">%AUTO ANS ON CALL-3%</Auto Ans Page On Active Call 3 >
        <!-- LINE3 Proxy and Registration -->
        <Proxy 3 ua="na">%BWHOST-3%</Proxy 3 >
        <!-- LINE3 Subscriber Information -->
        <Display Name 3 ua="na">%BWNAME-3%</Display Name 3 >
        <User ID_3 ua="na">%BWLINEPORT-3%</User ID_3 >
        <Password_3_ ua="na">%BWAUTHPASSWORD-3%</Password_3_>
        <Auth ID 3 ua="na">%BWAUTHUSER-3%</Auth ID 3 >
        <Reversed Auth Realm 3
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 3 >
        <!-- LINE3 Call Feature Settings -->
        <Conference_Bridge_URL_3_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-3%</Conference Bridge URL 3 >
        <Broadsoft_ACD_3_ ua="na">%BROADSOFT ACD ENABLE-
3\%</Broadsoft ACD \overline{3} >
        <Enable Broadsoft_Hoteling_3_
ua="na">%BROADSOFT HOTELING ENABLE-
3%</Enable Broadsoft Hoteling 3 >
        <!--
        GUI SCREEN: Voice Tab->Ext4 Tab
        -->
        <!-- LINE4 SIP Settings -->
        <SIP_Transport_4_ ua="na">%SIP_TRANSPORT-
4%</SIP_Transport_4_>
        <SIP_UDP_Port_4_ ua="na">%SIP_UDP_PORT-
4%</SIP UDP Port 4 >
        <!-- LINE4 Share Line Appearance -->
        <Share Ext 4 ua="na">%BWSHAREDLINE-ENABLED-
4\%</Share Ext 4 >
        <Shared User ID 4 ua="na">%BWLINEPORT-
4\%</Shared User ID 4 >
        <Subscription Expires 4
ua="na">3600</Subscription_Expires_4_>
        <!-- LINE4 Call Feature Settings -->
        <Feature_Key_Sync_4_ ua="na">%BWDFS-ENABLED-
4%</Feature_Key_Sync_4_>
        <Auto_Ans_Page_On_Active_Call_4_
ua="na">%AUTO ANS ON CALL-4%</Auto Ans Page On Active Call 4 >
        <!-- LINE4 Proxy and Registration -->
        <Proxy 4 ua="na">%BWHOST-4%</Proxy 4 >
        <!-- LINE4 Subscriber Information -->
        <Display Name 4 ua="na">%BWNAME-4%</Display Name 4 >
        <User ID 4 ua="na">%BWLINEPORT-4%</User ID 4 >
        <Password 4 ua="na">%BWAUTHPASSWORD-4%</Password 4 >
        <Auth_ID_4_ ua="na">%BWAUTHUSER-4%</Auth ID 4 >
        <Reversed Auth Realm 4
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 4 >
        <!-- LINE4 Call Feature Settings -->
```

```
<Conference_Bridge_URL_4_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-4%</Conference Bridge URL 4 >
        <Broadsoft ACD 4 ua="na">%BROADSOFT ACD ENABLE-
4%</Broadsoft ACD \overline{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 \overline{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 \overline{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 -->
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<!-- LINE7 Proxy and Registration -->
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<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%</Password_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 \overline{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 \overline{8} >
        <Shared User ID 8 ua="na">%BWLINEPORT-
8%</Shared User ID 8 >
        <Subscription Expires 8
ua="na">3600</Subscription Expires 8 >
        <!-- LINE8 Call Feature Settings -->
        <Feature_Key_Sync_8_ ua="na">%BWDFS-ENABLED-
8%</Feature Key Sync 8 >
        <Auto Ans Page On Active Call 8
ua="na">%AUTO ANS ON CALL-8%</Auto Ans Page On Active Call 8 >
<!-- Enable Yes for Advanced Call Control Hands free mode -->
        <!-- LINE8 Proxy and Registration -->
        <Proxy_8_ ua="na">%BWHOST-8%</Proxy 8 >
        <!-- LINE8 Subscriber Information -->
        <Display Name 8 ua="na">%BWNAME-8%</Display Name 8 >
        <User ID 8 ua="na">%BWLINEPORT-8%</User ID 8 >
        <Password 8 ua="na">%BWAUTHPASSWORD-8%</Password 8 >
        <Auth ID 8 ua="na">%BWAUTHUSER-8%</Auth ID 8 >
        <Reversed Auth Realm 8
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 8 >
        <!-- LINE8 Call Feature Settings -->
        <Conference Bridge URL 8 ua="na">%BWNETWORK-
CONFERENCE-SIPURI-8%</Conference Bridge URL 8 >
        <Broadsoft_ACD_8_ ua="na">%BROADSOFT_ACD_ENABLE-
8%</Broadsoft ACD 8 >
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                               <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 -->
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<Shared User ID 10 ua="na">%BWLINEPORT-
10%</Shared User ID 10 >
        <Subscription Expires 10
ua="na">3600</Subscription Expires 10 >
        <!-- LINE10 Call Feature Settings -->
        <Feature Key Sync 10 ua="na">%BWDFS-ENABLED-
10%</Feature Key Sync 10 >
        <Auto Ans Page On Active Call 10
ua="na">%AUTO ANS ON CALL-
10%</Auto Ans Page On Active Call 10 > <!-- Enable Yes for
Advanced Call Control Hands free mode -->
        <!-- LINE10 Proxy and Registration -->
        <Proxy 10 ua="na">%BWHOST-10%</Proxy 10 >
        <!-- LINE10 Subscriber Information -->
        <Display_Name_10_ ua="na">%BWNAME-
10%</Display_Name_10_>
        <User_ID_I0_ua="na">%BWLINEPORT-10%</User_ID_10_>
<Password_10_ua="na">%BWAUTHPASSWORD-
10\% /Password 10 >
        <Auth ID 10 ua="na">%BWAUTHUSER-10%</Auth ID 10 >
        <Reversed Auth Realm 10
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 10 >
        <!-- LINE10 Call Feature Settings -->
        <Conference Bridge URL 10 ua="na">%BWNETWORK-
CONFERENCE-SIPURI-10%</Conference Bridge URL 10 >
       <Broadsoft ACD 10 ua="na">%BROADSOFT ACD ENABLE-
10%</Broadsoft_ACD_10_>
        <Enable Broadsoft Hoteling 10
ua="na">%BROADSOFT HOTELING ENABLE-
10%</Enable Broadsoft Hoteling 10 >
        <!--
        GUI SCREEN: Voice Tab->Extl1 Tab
        -->
        <!-- LINE11 SIP Settings -->
        <SIP Transport 11 ua="na">%SIP TRANSPORT-
11%</SIP Transport 11 >
        <SIP_UDP_Port_11_ ua="na">%SIP_UDP_PORT-
11%</SIP UDP Port 11 >
        <!-- LINE11 Share Line Appearance -->
        <Share Ext 11 ua="na">%BWSHAREDLINE-ENABLED-
11%</Share Ext 11 >
        <Shared User ID 11 ua="na">%BWLINEPORT-
11%</Shared User ID 11 >
        <Subscription Expires 11
ua="na">3600</Subscription Expires 11 >
        <!-- LINE11 Call Feature Settings -->
        <Feature Key Sync 11 ua="na">%BWDFS-ENABLED-
11%</Feature Key Sync 11 >
        <Auto Ans Page_On_Active_Call_11_
ua="na">%AUTO ANS ON CALL-
11%</Auto_Ans_Page_On_Active_Call_11_> <!-- Enable Yes for
Advanced Call Control Hands free mode -->
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<!-- LINE11 Proxy and Registration -->

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<Proxy 11 ua="na">%BWHOST-11%</Proxy 11 >
        <!-- LINE11 Subscriber Information -->
        <Display_Name_11_ ua="na">%BWNAME-
11%</Display Name 11 >
        <User_ID_11__ua="na">%BWLINEPORT-11%</User_ID_11_>
        <Password_11_ ua="na">%BWAUTHPASSWORD-
11\% /Password 11 >
        <Auth ID 11 ua="na">%BWAUTHUSER-11%</Auth ID 11 >
        <Reversed Auth Realm 11
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 11 >
        <!-- LINE11 Call Feature Settings -->
        <Conference_Bridge_URL_11_ ua="na">%BWNETWORK-
CONFERENCE-SIPURI-11%</Conference Bridge URL 11 >
        <Broadsoft_ACD_11_ ua="na">%BROADSOFT_ACD_ENABLE-
11%</Broadsoft ACD 11 >
        <Enable Broadsoft Hoteling 11
ua="na">%BROADSOFT HOTELING ENABLE-
11%</Enable Broadsoft Hoteling 11 >
        <!--
       GUI SCREEN: Voice Tab->Ext12 Tab
        -->
       <!-- 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 >
```

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<!-- LINE12 Call Feature Settings -->
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```
<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 -->
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```
<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 \overline{14} >
        <Subscription Expires 14
ua="na">3600</Subscription Expires 14 >
        <!-- LINE14 Call Feature Settings -->
        <Feature_Key_Sync_14_ ua="na">%BWDFS-ENABLED-
14%</Feature_Key_Sync_14_>
        <Auto_Ans_Page_On_Active_Call_14_
ua="na">%AUTO_ANS_ON_CALL-
14%</Auto Ans Page On Active Call 14 > <!-- Enable Yes for
Advanced Call Control Hands free mode -->
        <!-- LINE14 Proxy and Registration -->
        <Proxy 14 ua="na">%BWHOST-14%</Proxy 14 >
        <!-- LINE14 Subscriber Information -->
        <Display Name 14 ua="na">%BWNAME-
14%</Display Name 14 >
        <User_ID_14_ua="na">%BWLINEPORT-14%</User ID 14 >
        <Password 14 ua="na">%BWAUTHPASSWORD-
14\% /Password 14 >
        <Auth_ID_14_ ua="na">%BWAUTHUSER-14%</Auth_ID 14 >
        <Reversed Auth Realm 14
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 14 >
        <!-- LINE14 Call Feature Settings -->
        <Conference Bridge URL 14 ua="na">%BWNETWORK-
CONFERENCE-SIPURI-14%</Conference_Bridge URL 14 >
        <Broadsoft_ACD_14_ ua="na">%BROADSOFT ACD ENABLE-
14%</Broadsoft ACD 14 >
        <Enable Broadsoft Hoteling 14
ua="na">%BROADSOFT HOTELING_ENABLE-
14%</Enable Broadsoft Hoteling 14 >
        <!--
        GUI SCREEN: Voice Tab->Ext15 Tab
        -->
        <!-- LINE15 SIP Settings -->
        <SIP_Transport_15_ ua="na">%SIP_TRANSPORT-
15%</SIP Transport 15 >
        <SIP_UDP_Port_15_ ua="na">%SIP_UDP_PORT-
15%</SIP UDP Port 15 >
        <!-- LINE15 Share Line Appearance -->
        <Share Ext 15 ua="na">%BWSHAREDLINE-ENABLED-
15%</Share Ext 15 >
        <Shared User ID 15 ua="na">%BWLINEPORT-
15\% /Shared User ID 15 >
       <Subscription_Expires_15_
ua="na">3600</Subscription Expires 15 >
        <!-- LINE15 Call Feature Settings -->
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```
<Feature_Key_Sync_15_ ua="na">%BWDFS-ENABLED-
15%</Feature_Key_Sync_15_>
       <Auto Ans Page On Active Call 15
ua="na">%AUTO_ANS_ON_CALL-
15%</Auto Ans Page On Active Call 15 > <!-- Enable Yes for
Advanced Call Control Hands free mode -->
        <!-- LINE15 Proxy and Registration -->
        <Proxy 15 ua="na">%BWHOST-15%</Proxy 15 >
        <!-- LINE15 Subscriber Information -->
        <Display Name 15 ua="na">%BWNAME-
15%</Display Name 15 >
        <User_ID_15_ua="na">%BWLINEPORT-15%</User ID 15 >
        <Password_15_ ua="na">%BWAUTHPASSWORD-
15\% /Password 15 >
        <Auth_ID_15_ ua="na">%BWAUTHUSER-15%</Auth ID 15 >
        <Reversed Auth Realm 15
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 15 >
        <!-- LINE15 Call Feature Settings -->
       <Conference Bridge URL 15 ua="na">%BWNETWORK-
CONFERENCE-SIPURI-15%</Conference Bridge URL 15 >
       <Broadsoft ACD 15 ua="na">%BROADSOFT ACD ENABLE-
15%</Broadsoft ACD 15 >
        <Enable Broadsoft Hoteling 15
ua="na">%BROADSOFT HOTELING ENABLE-
15%</Enable Broadsoft Hoteling 15 >
        <!--
       GUI SCREEN: Voice Tab->Ext16 Tab
        -->
        <!-- LINE16 SIP Settings -->
        <SIP Transport 16 ua="na">%SIP TRANSPORT-
16%</SIP Transport_16_>
        <SIP UDP Port 16 ua="na">%SIP UDP PORT-
16%</SIP_UDP_Port_16_>
        <!-- LINE16 Share Line Appearance -->
        <Share_Ext_16_ ua="na">%BWSHAREDLINE-ENABLED-
16%</Share Ext 16 >
        <Shared User ID 16 ua="na">%BWLINEPORT-
16%</Shared User ID \overline{16} >
       <Subscription Expires_16_
ua="na">3600</Subscription Expires 16 >
        <!-- LINE16 Call Feature Settings -->
        <Feature_Key_Sync_16_ ua="na">%BWDFS-ENABLED-
16%</Feature Key Sync 16 >
       <Auto Ans Page On Active Call 16
ua="na">%AUTO ANS ON CALL-
16%</Auto Ans Page On Active Call 16 > <!-- Enable Yes for
Advanced Call Control Hands free mode -->
        <!-- LINE16 Proxy and Registration -->
        <Proxy 16 ua="na">%BWHOST-16%</Proxy 16 >
        <!-- LINE16 Subscriber Information -->
        <Display_Name_16_ ua="na">%BWNAME-
16%</Display Name 16 >
        <User ID 16 ua="na">%BWLINEPORT-16%</User ID 16 >
```

```
<Password 16 ua="na">%BWAUTHPASSWORD-
16\%</Password 16 >
       <Auth_ID_16_ ua="na">%BWAUTHUSER-16%</Auth_ID_16_>
       <Reversed Auth Realm 16
ua="na">%SIP AUTH REALM%</Reversed Auth Realm 16 >
       <!-- LINE16 Call Feature Settings -->
       <Conference Bridge URL 16 ua="na">%BWNETWORK-
CONFERENCE-SIPURI-16%</Conference Bridge URL 16 >
       <Broadsoft ACD 16 ua="na">%BROADSOFT ACD ENABLE-
16%</Broadsoft ACD 16 >
       <Enable Broadsoft Hoteling 16
ua="na">%BROADSOFT HOTELING ENABLE-
16%</Enable Broadsoft Hoteling 16 >
       <!--
Start of Keys
<</p>
       <!--
       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%</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 > <!--</pre> 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_Appearance_3_ ua="na">%BWSHAREDLINE-3%</Share_Call_Appearance_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_Appearance_4 ua="na">%BWSHAREDLINE-4%</Share_Call_Appearance_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_Appearance_5_ ua="na">%BWSHAREDLINE-5%</Share Call Appearance 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_> <Extended_Function_6_ ua="na">%LINE_FUNCTION-

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```
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_Appearance_7_ ua="na">%BWSHAREDLINE-
7%</Share_Call_Appearance_7_> <!-- options: private/shared -->
       <Extended_Function_7_ ua="na">%LINE_FUNCTION-
```

7%</Extended_Function_7_>

<!-- Line Key 8 -->

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```
<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_Appearance_8_ ua="na">%BWSHAREDLINE-
8%</Share Call Appearance 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 > <!--</pre>
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_9_ ua="na">$USER</Short_Name_9_>
        <Line_Label_9_ ua="na">%LINE_LABEL-9%</Line_Label_9_>
        <Share_Call_Appearance_9_ ua="na">%BWSHAREDLINE-
9%</Share Call Appearance 9 > <!-- options: private/shared -->
        <Extended_Function_9_ ua="na">%LINE_FUNCTION-
9%</Extended Function 9 >
        <!-- Line Key 10 -->
        <Extension 10 ua="na">%PLK-10%</Extension 10 > <!--
available options:
1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|Disabled -->
        <Short_Name_10_ ua="na">$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:
Veritical/Horizontal -->
        <!-- Shared Call Appearance Barge-in; Based Upon Ext1
User Settings. Change Index if required -->
        <SCA Barge-In Enable ua="na">%BWSCA-BRIDGING-ENABLED-
1%</SCA Barge-In Enable>
```

```
<!-- Programmable Soft Keys (PSK)
                Note: PSK Keys can be assigned as a
                        1) Speed Dial
                        Example)
                                PSK 1:
fnc=sd;ext=*55@PROXY;nme="VM Xfer"
        -->
        <!-- Extension Mobility-->
        <EM Enable ua="na">%EM ENABLED%</EM Enable>
        <!-- Programmable Soft-Keys (PSK) -->
        <Programmable Softkey Enable
ua="na">%PSK ENABLE%</Programmable Softkey Enable>
   <!-- PSK CallState List -->
       <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>
```

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```
<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>
```

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

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

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

</flat-profile>

</device>

System File: Default CiscoDev-3PCC_Bootstrap_def.xml

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

```
<?xml version="1.0" encoding="UTF-8"?>
<device xsi:type="axl:XIPPhone"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
       <flat-profile>
        <!--
           GUI SCREEN: Voice Tab - Provisioning Tab
        -->
        <!-- Profile Rule Resync Timers -->
        <Resync_On_Reset ua="na">Yes</Resync On Reset>
        <Resync_At_Random_Delay
ua="na">600</Resync At Random Delay>
        <Resync At Random Delay
ua="na">1</Resync At Random Delay>
       <Resync Periodic ua="na">60</Resync Periodic>
       <Resync Error Retry Delay
ua="na">300</Resync Error Retry Delay>
        <Forced Resync Delay ua="na">600</Forced Resync Delay>
       <!-- Configuration Profile current -->
       <!-- ex: http://10.89.81.183:80/dms/Cisco-CP-
78xx-88xx-68xx-3PCC/CiscoDev-3PCC Bootstrap.xml -->
        <Profile Rule
ua="na">https://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWD
MSCONTEXT%/CP-78-88-68-3PCC/CiscoDev-
3PCC Bootstrap.xml</Profile Rule>
       <!-- 3rd Party ROOT CA Settings: (HTTPS/TLS/SRTP) -
OPTIONAL -->
       < ! - -
        <Custom CA Rule
ua="na">%ACCESS PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSP
ORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%3RD PARTY CA ROOT%</Cu
stom CA Rule>
        -->
       </flat-profile>
</device>t-profile>
</device>
```

References

- [1] Cisco Systems, Inc. 2022. *Cisco IP Phone 6800/7800/8800 Series Multiplatform Phones Administration Guide.* Available from Cisco at <u>cisco.com.</u>
- [2] Cisco Systems, Inc. 2024. Cisco IP Phone 9800 Series Administration. Available from <u>https://help.webex.com/en-us/landing/ld-n0mkkj8-</u> CiscoDeskPhone9800Series/BroadWorks#Administration
- [3] Cisco Systems, Inc. 2022. *Cisco BroadWorks Device Management Configuration Guide, Release 23.0.* Available from Cisco at <u>BW-DeviceManagementConfigGuide</u>.
- [4] Cisco Systems, Inc. 2022. *Cisco BroadWorks Redundancy Guide, Release 22.0.* Available from Cisco at <u>BW-RedundancyGuide</u>.
- [5] Cisco Systems, Inc. 2022. *Cisco BroadWorks CPE Kit Usage Guide*, *Release 22.0*. Available from Cisco by request.