



Cisco BroadWorks

Partner Configuration Guide

Poly VVX D230 DECT Phones

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Cisco® Guide

Notification

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

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Document Revision History

Version	Reason for Change
1.1	Introduced document for Poly VVX D230 DECT Phone version 7.0.0 validation with Cisco BroadWorks Release 22.0.
1.2	Edited and published document.
1.3	Updated the document for Poly VVX D230 DECT Phone version 7.1.0 validation with Cisco BroadWorks Release 22.0.
1.4	Edited changes and published document.

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1 Overview

This guide describes the configuration procedures required for the Poly VVX D230 Phone for interoperability with Cisco BroadWorks.

The Poly VVX D230 Phone are DECT phones that 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 Poly VVX D230 Phone. For those details, see the configuration guide called *Poly® VVX® D230 DECT IP Phones, Admin Guide* [\[1\]](#) supplied by Poly.

Polycom phone models:

- VVX D230 DECT Phone

2 Interoperability Status

This section provides the known interoperability status of the Poly VVX D230 Phone 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 Poly.

2.1 Verified Versions

The following table identifies the verified Poly VVX D230 Phone 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 Poly VVX D230 Phone 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 Poly.

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

Verified Versions			
Date (mm/yyyy)	Cisco BroadWorks Release	Poly Verified Version	Poly Compatible Versions
2/2021	Release 22.0	7.1.0	Any maintenance revisions of the verified version.
3/2020	Release 22.0	7.0.0	Any maintenance revisions of the verified version.

2.2 Interface Capabilities Supported

This section identifies interface capabilities that have been verified through testing as supported by Poly VVX D230 Phone.

The *Supported* column in the tables in this section identifies the Poly VVX D230 Phone' support for each of the items covered in the test plan, with the following designations:

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

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

2.2.1 SIP Interface Capabilities

The Poly VVX D230 Phone has completed interoperability testing with Cisco BroadWorks using the *Cisco BroadWorks SIP Phone Interoperability Test Plan* [5]. The results are summarized in the following table.

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

NOTE: *DUT* in the following table refers to the *Device Under Test*, which in this case is the Poly VVX D230 Phone.

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Basic	Call Origination	Yes	
	Call Termination	Yes	
	Session Audit	Yes	
	Session Timer	Yes	
	Ringback	Yes	
	Forked Dialog	Yes	
	181 Call Being Forwarded	Yes	
	Dial Plan	Yes	
	DTMF – Inband	Yes	
	DTMF – RFC 2833	Yes	
	DTMF – DTMF Relay	Yes	
	Codec Negotiation	Yes	
	Codec Renegotiation	Yes	
Cisco BroadWorks Services	Third-Party Call Control – Basic	No	Click to dial is supported
	Third-Party Call Control – Advanced	No	Click to dial is supported
	Voice Message Deposit/Retrieval	Yes	
	Message Waiting Indicator – Unsolicited	Yes	
	Message Waiting Indicator – Solicited	Yes	
	Message Waiting Indicator – Detail	Yes	Message Waiting Saved and Urgent Information is not supported
	Voice Portal Outcall	Yes	
	Advanced Alerting – Ringing	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table

Test Plan Package	Test Plan Package Items	Supported	Comments
	Advanced Alerting – Call Waiting	Yes	
	Advanced Alerting – Ring Splash	Yes	
	Advanced Alerting – Silent Alerting	Yes	
	Calling Line ID	Yes	
	Calling Line ID with Unicode Characters	Yes	
	Connected Line ID	Yes	
	Connected Line ID with Unicode Characters	Yes	
	Connected Line ID on UPDATE	Yes	
	Connected Line ID on Re-INVITE	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	No	
	Meet-Me Conferencing – Opus	Yes	
	Collaborate – Audio	Yes	
	Collaborate – Audio – G722	Yes	
	Collaborate – Audio – Opus	Yes	
	Call Decline Policy	Yes	
DUT Services – Call Control Services	Call Waiting	Yes	
	Call Hold	Yes	
	Call Transfer	Yes	Attended transfer before answer is not supported.
	Three-Way Calling	Yes	Three-Way Call Before Answer is not supported.
	Network-Based Conference	Yes	
DUT Services – Registration and Authentication	Register Authentication	Yes	
	Maximum Registration	Yes	
	Minimum Registration	Yes	
	Invite Authentication	Yes	
	Re-Invite/Update Authentication	Yes	
	Refer Authentication	Yes	
	Device Authenticating Cisco BroadWorks	No	

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

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
Advanced Phone Services – Missed Calls Display Synchronization	Missed Calls Display Sync	Yes	
Advanced Phone Services – Shared Call Appearance using Call Info	Line-Seize	Yes	Refresh Line-Seize is not supported.
	Call-Info/Lamp Management	Yes	
	Public Hold	Yes	
	Private Hold	No	
	Hybrid Key System	No	
	Multiple Call Arrangement	Yes	
	Bridge Active Line	Yes	
	Bridge Active Line – Silent Monitor	No	
	Call Park Notification	No	
Advanced Phone Services – Call Park Notification	Call Park Notification	Yes	
Advanced Phone Services – Call Center	Hold Reminder	No	
	Call Information	No	
	Hoteling Event	No	
	Status Event	No	
	Disposition Code	No	
	Emergency Escalation	No	
	Customer Originated Trace	No	
Advanced Phone Services – Call Recording Controls	Pause/Resume	No	
	Start/Stop	No	
	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Call Recording Video	Basic Call	No	
	Record Local Conference	No	
	Record Network Conference	No	
Advanced Phone Services – Security Classification	Security Classification	No	
Advanced Phone Services – Conference Event	Network-Based Conference Creator	No	
	Network-Based Conference Participant	No	
	Meet-Me Conference Participant	No	
Redundancy	DNS SRV Lookup	Yes	

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table

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

Cisco BroadWorks SIP Phone Interoperability Test Plan Support Table

Test Plan Package	Test Plan Package Items	Supported	Comments
	Voice Message Deposit/Retrieval	No	
	Call Control	No	
	Registration with Authentication	No	
	Busy Lamp Field	No	
	Redundancy	No	
	SBC	No	
	Video	No	
	Dual Stack with Alternate Connectivity	No	

2.2.2 Other Interface Capabilities

This section identifies whether the Poly VVX D230 Phone has implemented support for the following:

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

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

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

Interface	Feature	Supported	Comments
Xsi Features – Authentication	Authenticate with SIP Credentials	Yes	Preferred and implemented method in the CPE kit.
	Authenticate with Cisco BroadWorks User Login Credentials	Yes	
	Authenticate with Cisco BroadWorks User Directory Number	No	
Xsi Features – User Service Configuration	Remote Office	No	
	Cisco BroadWorks Anywhere	No	
	Simultaneous Ringing	No	
	Caller ID Blocking	No	
	Call Forwarding Always	No	
	Call Forwarding Busy	No	
	Call Forwarding No Answer	No	
	Do Not Disturb	No	
Xsi Features – Directories	Enterprise Directory	Yes	
	Enterprise Common Phone List	Yes	
	Group Directory	Yes	

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

Interface	Feature	Supported	Comments
	Group Common Phone List	Yes	
	Personal Phone List	Yes	
	Search All Directories	Yes	Exact match is not supported.
	Search Enterprise Directories	Yes	Case Insensitive is not supported.
Xsi Features – Call Logs	Placed Calls	No	
	Received Calls	No	
	Missed Calls	No	
	All Calls	No	
	Sort by Name	No	
Xsi Features – Visual Voice Mail	View Messages	No	
	Listen to Audio Message	No	
	Watch Video Message	No	
	Mark Message Read/Unread	No	
	Delete Message	No	
	Mark All Messages Read/Unread	No	
Xsi Features – Push Notification	Register/Deregister for Push Notifications	No	
	Incoming Call via Push Notification	No	
	Call Update via Push Notification	No	
	Incoming Call via Push Notification; Second Incoming Call	No	
	MWI via Push Notification	No	
	Ring Splash via Push Notification	No	
Xsi Features – Call Recording Configurations	Call Record Mode Get	No	
	Set Record Mode	No	
	Set Play Call Recording to Start and Stop Announcement	No	
	Set Record Voice Messaging	No	
	Set Pause and Resume Notification	No	
	Set Recording Notification	No	
Xsi Features – Call Recording Controls	Record Mode set to Never	No	
	Record Mode set to Always	No	
	Record Mode set to Always with Pause/Resume	No	
	Start Recording Mid-Call with Record Mode set to On Demand	No	

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

2.3 Known Issues

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

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

The *Issue Number* is a tracking number for the issue. If it is a Poly issue, the issue number is from Poly's tracking system. If it is a Cisco BroadWorks issue, the issue number is from BroadSoft's tracking system.

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

Issue Number	Issue Description	Partner Version			
	None.	7.0.0	7.1.0		

3 Cisco BroadWorks Configuration

This section identifies the required Cisco BroadWorks device profile type for the Poly VVX D230 Phone as well as any other unique Cisco BroadWorks configuration required for interoperability with the Poly VVX D230 Phone.

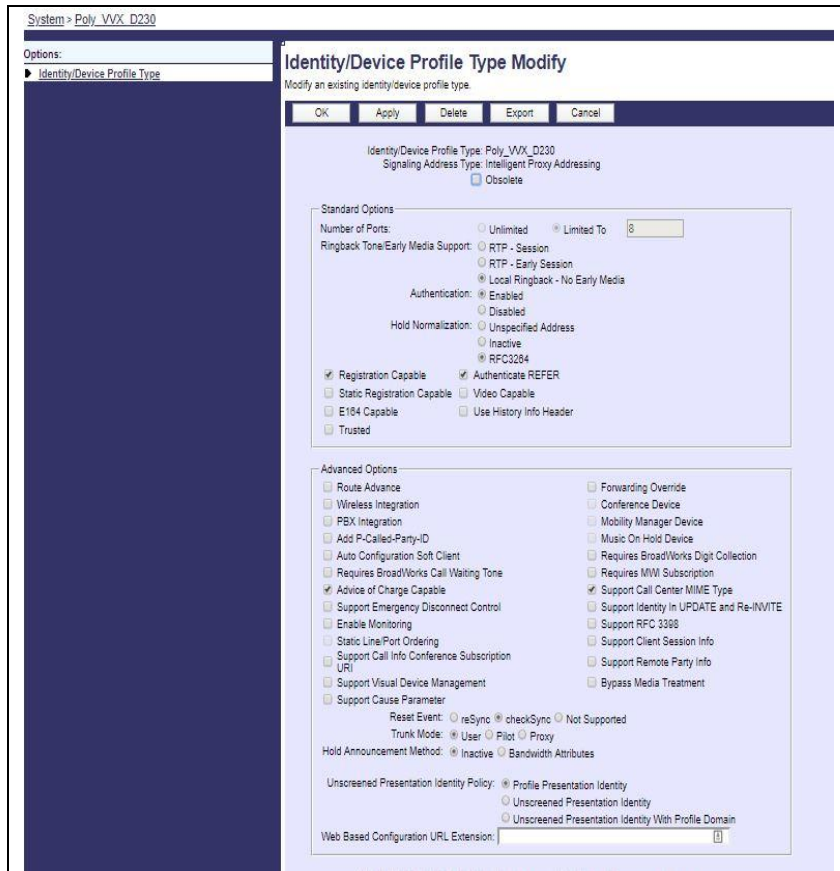
3.1 Cisco BroadWorks Device Profile Type Configuration

This section identifies the device profile type settings to use when deploying the Poly VVX D230 Phone with Cisco BroadWorks.

Create a device profile type for the Poly VVX D230 Phone with settings as shown in the following example. A separate device profile type should be created for each Poly VVX D230 Phone model. The settings shown are recommended for use when deploying the Poly VVX D230 Phone with Cisco BroadWorks. For an explanation of the profile parameters, see the *Cisco BroadWorks Device Management Configuration Guide* [2].

The device profile type shown provides the *Number of Ports* (number of SIP lines) setting for Poly VVX D230 Phone. For other Poly VVX D230 Phone models, create a new device profile type and set the *Number of Ports* to match the available number of SIP lines per model according to the following table.

Model	Number of Lines	Video Capable
VVX D230	8	Un-checked.



The screenshot shows the 'Identity/Device Profile Type Modify' configuration page for 'Poly_VVX_D230'. The page is divided into 'Standard Options' and 'Advanced Options' sections.

Standard Options:

- Number of Ports: Limited To 8
- Ringback Tone/Early Media Support: ☒ RTP - Session, ☐ RTP - Early Session, ☐ Local Ringback - No Early Media
- Authentication: ☒ Enabled, ☐ Disabled
- Hold Normalization: ☐ Unspecified Address, ☐ Inactive, ☒ RFC3284
- ☒ Registration Capable, ☒ Authenticate REFER
- ☐ Static Registration Capable, ☐ Video Capable
- ☐ E164 Capable, ☐ Use History Info Header
- ☐ Trusted

Advanced Options:

- ☐ Route Advance
- ☐ Wireless Integration
- ☐ PBX Integration
- ☐ Add P-Caller-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
- ☐ Forwarding Override
- ☐ Conference Device
- ☐ Mobility Manager Device
- ☐ Music On Hold Device
- ☐ Requires BroadWorks Digit Collection
- ☐ Requires MW 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

Reset Event: ☐ reSync, ☒ checkSync, ☐ Not Supported

Trunk Mode: ☒ User, ☐ Pilot, ☐ Proxy

Hold Announcement Method: ☒ Inactive, ☐ Bandwidth Attributes

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

Web Based Configuration URL Extension: []

Figure 1 Device Identity/Profile Type

3.2 Cisco BroadWorks Configuration Steps

No additional Cisco BroadWorks configuration steps are required.

4 Poly VVX D230 Phone Configuration

This section describes the configuration settings required for the Poly VVX D230 Phone integration with Cisco BroadWorks, primarily focusing on the SIP interface configuration. The Poly VVX D230 Phone configuration settings identified in this section have been derived and verified through interoperability testing with Cisco BroadWorks. For configuration details not covered in this section, see the *Poly® VVX® D230 DECT IP Phones* [1].

4.1 Configuration Method

Poly VVX D230 Phone can be configured through a web browser, OBitalk portal (www.obitalk.com) or configuration files. Poly VVX D230 Phone can be provisioned with the configuration files through Trivial File Transfer Protocol (TFTP) or Hypertext Transfer Protocol (HTTP). The configuration files are written in Extensible Markup Language (XML). Poly VVX D230 Phone comes with a default ITSP provisioning URL (configURL):

- \$DHCPOPT160/\$MAC.xml;\$DHCPOPT160/\$DM.xml;\$DHCPOPT160;tftp://\$DHCPOPT66/\$DM.xml;\$DHCPOPT66

After the Poly VVX D230 Phone is boot up and has received an IP address through Dynamic Host Configuration Protocol (DHCP), Poly VVX D230 Phone will replace the \$DHCPOPT160 or 66 with the server address that it received from the DHCP server to download \$DM.xml, device model, for example, Poly_VVX_D230Template.xml, and update accordingly.

The following configuration files serve different purposes.

Configuration Files

Poly VVX D230 Phone Configuration Files	Level	Description
VVX-D230-7-1-0-7866-2020-7-7.fw	System	Contains the device firmware load.
Poly_VVX_D230Template.xml	System	Initial Configuration file.
Poly_VVX_D230-%BWMACADDRESS%.xml	Subscriber	Contains configurable parameters that apply to an individual device in a deployment.
Poly_VVX_D230system.xml	System or subscriber	Any additional files that contain configurable parameters.

4.2 System Level Configuration

This section describes system-wide configuration items that are generally required for each Poly VVX D230 Phone to work with Cisco BroadWorks. Subscriber-specific settings are described in the next section.

4.2.1 Configure Network Settings

Step	Command	Description
Step 1	Set DHCP to enable. Web: WAN Setting Internet Settings AddressingType: DHCP XML: <O> <N>DeviceInfo.WAN.</N> <P> <N>AddressingType</N> <V>DHCP</V> </P> </O>	VVX OBi phone comes with DHCP as default network setting.

Step	Command	Description
Step 2	Set Static IP, DNS. Web: WAN Settings Internet Settings AddressingType = Static IPAddress = 192.168.15.81 SubnetMask = 255.255.255.0 DefaultGateway = 192.168.15.1 DNSServer1 = 4.2.2.2 DNSServer2 = 8.8.8.8 XML: <pre> <O> <N>DeviceInfo.WAN.</N> <P> <N>AddressingType</N> <V>Static</V> </P> <P> <N>IPAddress</N> <V>192.168.15.81</V> </P> <P> <N>SubnetMask</N> <V>255.255.255.0</V> </P> <P> <N>DefaultGateway</N> <V>192.168.15.1</V> </P> <P> <N>DNSServer1</N> <V>4.2.2.2</V> </P> <P> <N>DNSServer2</N> <V>8.8.8.8</V> </P> </O> </pre>	

Step	Command	Description
Step 3	Set NTP Server. Web: WAN Settings Time Service Settings NTPServer1 = pool.ntp.org XML: <O> <N>DeviceInfo.Time.</N> <P> <N>NTPServer1</N> <V>ntp.polycom.com</V> </P> </O>	Default NTP server is ntp.polycom.com.

4.2.1.1 Configure IPV6 Settings

Not Supported.

4.2.2 Configure SIP Interface Settings

Step	Command	Description
Step 1	<pre> Set SIP proxy. Web: ITSP Profile A SIP ProxyServer = as.iopl.Cisco BroadWorks.net ProxyServerPort = 5060 ProxyServerTransport = UDP RegistrarServer = as.iopl.Cisco BroadWorks.net RegistrarServerPort = 5060 XML: <O> <N>VoiceService.1.VoiceProfile .1.SIP.</N> <P> <N>ProxyServer</N> <V>as.iopl.Cisco BroadWorks.net</V> </P> <P> <N>ProxyServerPort</N> <V>5060</V> </P> <P> <N>ProxyServerTransport</N> <V>UDP</V> </P> <P> <N>RegistrarServer</N> <V>as.iopl.Cisco BroadWorks.net</V> </P> <P> <N>RegistrarServerPort</N> <V>5060</V> </P> </O> </pre>	VVX D230 can be configured up to eight ITSP profiles, A, B, C, D, E, F, G and H. The corresponding name tag will be: VoiceService.1.VoiceProfile.1.SIP To: VoiceService.1.VoiceProfile.8.SIP

Step	Command	Description
Step 2	Set Outbound Proxy. Web: ITSP Profile A SIP OutboundProxy = sbcl.iopl.Cisco BroadWorks.net OutboundProxyPort = 5060 XML: <O> <N>VoiceService.1.VoiceProfile .1.SIP.</N> <P> <N>OutboundProxy</N> <V>sbcl.iopl.Cisco BroadWorks.net</V> </P> <P> <N>OutboundProxyPort</N> <V>5060</V> </P> </O>	If Outbound proxy is needed and this can be group with Step 1.

Step 3

```
SIP Timer Configuration.
Web:
ITSP Profile A
SIP
TimerT1 = 500
TimerT2 = 4000
TimerT4 = 4000
TimerA = 500

TimerB = 4000
TimerD = 16000
TimerE = 500
TimerF = 4000
TimerG = 500
TimerH = 16000
TimerI = 5000
TimerJ = 16000
TimerK = 5000
InviteExpires = 240
ReInviteExpires = 30
RegisterMinExpires = 1
RegisterRetryInterval = 30

XML:
<O>

<N>VoiceService.1.VoiceProfile.
1.SIP.</N>

  <P>
    <N>TimerT1</N>
    <V>500</V>
  </P>
  <P>
    <N>TimerT2</N>
    <V>4000</V>
  </P>
  <P>
    <N>TimerT4</N>
    <V>4000</V>
  </P>
  <P>
    <N>TimerA</N>
    <V>500</V>
  </P>
  <P>
    <N>TimerB</N>
    <V>4000</V>
  </P>
  <P>
    <N>TimerD</N>
    <V>16000</V>
  </P>
```

These are the preferred timer settings.
User can adjust the value accordingly.

Step	Command	Description
	<pre> <P> <N>TimerE</N> <V>500</V> </P> <P> <N>TimerF</N> <V>4000</V> </P> <P> <N>TimerG</N> <V>500</V> </P> <P> <N>TimerH</N> <V>16000</V> </P> <P> <N>TimerI</N> <V>5000</V> </P> <P> <N>TimerJ</N> <V>16000</V> </P> <P> <N>TimerK</N> <V>5000</V> </P> <P> <N>InviteExpires</N> <V>240</V> </P> <P> <N>ReInviteExpires</N> <V>30</V> </P> <P> <N>RegisterMinExpires</N> <V>1</V> </P> <P> <N>RegisterRetryInterval</N> <V>30</V> </P> </O> </pre>	

Step	Command	Description
Step 4	<pre> SIP related feature settings. Web: ITSP Profile A SIP X_UseRefer = True X_ReferAOR = True X_User302ToCallForward = True X_DnsSrvAutoPrefix = True X_Support100rel = True X_DiscoverPublicAddress = False XML: <O> <N>VoiceService.1.VoiceProfile .1.SIP.</N> <P> <N>X_UseRefer</N> <V>true</V> </P> <P> <N>X_ReferAOR</N> <V>true</V> </P> <P> <N>X_Use302ToCallForward</N> <V>true</V> </P> <P> <N>X_DnsSrvAutoPrefix</N> <V>true</V> </P> <P> <N>X_Support100rel</N> <V>true</V> </P> <P> <N>X_DiscoverPublicAddress</N> <V>>false</V> </P> </O> </pre>	

Step	Command	Description
Step 5	SIP DNS ARV (optional). Web: <pre>ITSP Profile A SIP X_ProxyServerRedundancy = True X_SecondaryRegistration = False X_CheckPrimarFallbackInterval = 1</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile .1.SIP.</N> <P> <N>X_ProxyServerRedundancy</N> <V>>true</V> </P> <P> <N>X_SecondaryRegistration</N> <V>>false</V> </P> <P> <N>X_CheckPrimaryFallbackInter val</N> <V>1</V> </P> </O></pre>	

4.2.3 Configure Service Settings

Step	Command	Description
Step 1	Digit Map settings. Web: <pre>ITSP Profile A General DigitMap = (*xx. *xx* 1xxxxxxxxxx <1>[2- 9]xxxxxxxxxx 011xx. xx. (Mipd))</pre> Physical Interfaces <pre>PHONE1 Port StarcodeProfile = None</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile .1.</N></pre>	The DigitMap is showing the default setting with additional star code feature. For more detail check the VVX D230 Admin Guide. VVX D230 comes with two identical Start Code profiles, it contains multiple internal star code features. If the user wants to use the BroadSoft star code, the internal star code should be disabled and add the star code in the DigitMap accordingly.

Step	Command	Description
	<pre> <P> <N>DigitMap</N> <V>(*xx. *xx* 1xxxxxxxxxx &lt; 1&gt;[2- 9]xxxxxxxx 011xx. xx. (Mipd)) </V> </P> </O> <O> <N>VoiceService.1.X_FXS.1.Call ingFeatures.</N> <P> <N>StarCodeProfile</N> <V>None</V> </P> </O> </pre>	

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
Step 1	Enable service for each line. Web: <pre> Voice Services SP1 Service Enable = true X_ServProvProfile = A Voice Services SP2 Service Enable = true X_ServProvProfile = A </pre> XML: <pre> <O> <N>AuthUserNameN> <P> <N>Enable</N> <V>>true</V> </P> <P> <N>X_ServProvProfile</N> <V>A</V> </P> </O> <O> <N>VoiceService.1.VoiceProfile .1.Line.2.</N> <P> <N>Enable</N> <V>>true</V> </P> <P> <N>X_ServProvProfile</N> <V>A</V> </P> </O> </pre>	This example shows both voice service is using the same ServProvProfile A, that is ITSP Profile A. Two Voice service, SP1 and SP2, value is set to Enable (default is Enable). VVX D230 phone can be configured with 8 Voice Service, SP1/2/3/4/5/6/7/8. They can be set to the same X_ServProvProfile or set to the corresponding one. For example, SP1 X_ServProvProfile = A SP2 X_ServProvProfile = B ...etc.

Step	Command	Description
Step 2	<pre> Set AOR for each service. Web: Voice Service SP1 Service URI = 2408889000@as.broadsoft.com AuthPassword = welcome SP2 Service URI = 2408889001@as.broadsoft.com AuthPassword = welcome XML: <O> <N>VoiceService.1.VoiceProfile .1.Line.1.SIP.</N> <P> <N>URI</N> <V>2408889000@as.broadsoft.com </V> </P> <P> <N>AuthPassword</N> <V>welcome</V> </P> </O> <O> <N>VoiceService.1.VoiceProfile .1.Line.2.SIP.</N> <P> <N>URI</N> <V>2408889001@as.broadsoft.com </V> </P> <P> <N>AuthPassword</N> <V>welcome</V> </P> </O> </pre>	

Step	Command	Description
Step 3	Set up Authentication user. <i>Web:</i> Voice Services SP1 Service AuthUserName = user9000 SP2 Service AuthUserName = user9001 <i>XML:</i> <pre> <O> <N>VoiceService.1.VoiceProfile .1.Line.1.SIP.</N> <P> <N>AuthUserName</N> <V>user9000</V> </P> </O> <O> <N>VoiceService.1.VoiceProfile .1.Line.2.SIP.</N> <P> <N>AuthUserName</N> <V>user9001</V> </P> </O> </pre>	This applies to the user authentication is enabled. The authentication password should be provided in the AuthPassword in Step 2 instead of user account password.

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, Feature Key Synchronization.

4.4.1 Shared Call Appearance Configuration

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

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

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

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

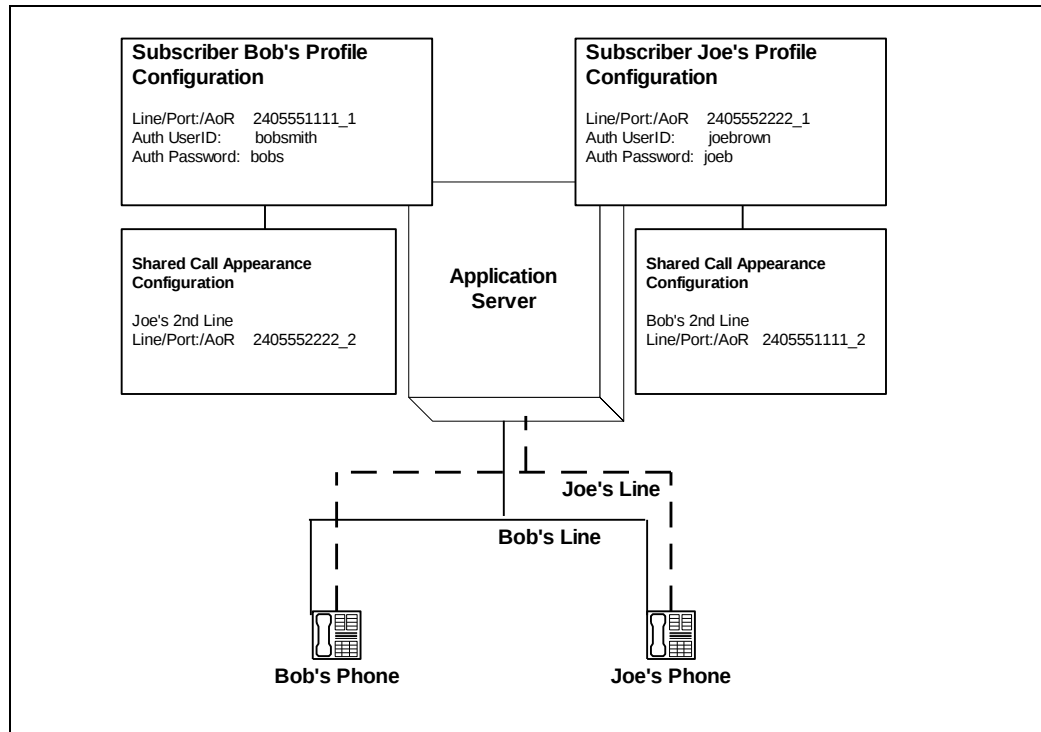


Figure 2 Shared Call Appearance Configuration

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

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

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

4.4.1.1 Bob's Phone Configuration – Poly_VVX_D230-%BWMACADDRESS%.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
Step 1	Configure the line as shared. Web: <pre>Voice Service SP1 Service X_ShareLine = true</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>X_ShareLine</N> <V>true</V> </P> </O></pre>	Configure the line as “shared” (as opposed to “private”). In this example, the SP1 service is configured as a Share Line.
Step 2	Set Register User ID. Set AOR for each service Web: <pre>Voice Service SP1 Service URI = 2405551111_1</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>URI</N> <V>2405551111_1</V> </P> </O></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication. Web: <pre> Voice Services SP1 Service AuthUserName = bobsmith AuthPassword = bobs </pre> XML: <pre> <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>AuthUserName</N> <V>bobsmith</V> </P> <P> <N>AuthPassword</N> <V>bobs</V> </P> </O> </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 the display name. Web: <pre> Left Line Keys Key 1 Function = Call Appearance Service = SP1 </pre> XML: <pre> <O> <N>VoiceService.1.Phone.LeftLineKey.1.</N> <P> <N>Function</N> <V>Call Appearance</V> </P> <P> <N>Service</N> <V>SP1</V> </P> </O> </pre>	Configure the name to be displayed on the device for this line.

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

Step	Command	Purpose
Step 1	Configure the line as shared. Web: <pre>Voice Service SP2 Service X_ShareLine = true</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>X_ShareLine</N> <V>true</V> </P> </O></pre>	Configure the line as “shared” (as opposed to “private”).
Step 2	Set the Register User ID. Set AOR for each service Web: <pre>Voice Service SP2 Service URI = 2405551111_2</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>URI</N> <V>2405551111_2</V> </P> </O></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication. Web: <pre>Voice Services SP2 Service AuthUserName = joebrown AuthPassword = joeb</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>AuthUserName</N> <V>joebrown</V> </P> <P> <N>AuthPassword</N> <V>joeb</V> </P> </O></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 the display name. Web: <pre>Left Line Keys Key 2 Function = Call Appearance Service = SP2</pre> XML: <pre><O> <N>VoiceService.1.Phone.LeftLineKey.2.</N> <P> <N>Function</N> <V>Call Appearance</V> </P> <P> <N>Service</N> <V>SP2</V> </P> </O></pre>	Configure the name to be displayed on the device for this line.

Step	Command	Purpose
Step 5	Configure Display Label (Optional). Web: <pre>Voice Service SP2 Service X_DisplayLabel = Joe Brown X_DisplayNumber = 2405551111_2</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.</N> <P> <N>X_DisplayLabel</N> <V>Joe Brown</V> </P> <P> <N>X_DisplayNumber</N> <V>2405551111_2</V> </P> </O></pre>	Customized the line key label.
Step 6	Enable Shareline optional features. Web: <pre>Voice Service SP1 Service X_ShareLineBargeIn = true X_ShareLineMonitor = true X_ShareLinePrivateHold = true X_ShareLineCallPickup = true</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>X_ShareLineBargeIn</N> <V>true</V> </P> <P> <N>X_ShareLineMonitor</N> <V>true</V> </P> <P> <N>X_ShareLinePrivateHold</N> <V>true</V> </P> <P> <N>X_ShareLineCallPickup</N> <V>true</V> </P> </O></pre>	

4.4.1.2 Joe's Phone Configuration – Poly_VVX_D230-%BWMACADDRESS%.xml

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

Step	Command	Purpose
Step 1	Configure the line as shared. Web: Voice Service SP1 Service X_ShareLine = true XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>X_ShareLine</N> <V>true</V> </P> </O>	Configure the line as "shared" (as opposed to "private").
Step 2	Set the Register User ID. Web: Voice Service SP1 Service URI = 2405552222_1 XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>URI</N> <V>2405552222_1</V> </P> </O>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.

Step	Command	Purpose
Step 3	Enable SIP Authentication. <pre> Web: Voice Services SP1 Service AuthUserName = joebrown AuthPassword = joeb XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>AuthUserName</N> <V>joebrown</V> </P> <P> <N>AuthPassword</N> <V>joeb</V> </P> </O> </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 the display name. <pre> Web: Left Line Keys Key 1 Function = Call Appearance Service = SP1 XML: <O> <N>VoiceService.1.Phone.LeftLineKey.1.</N> <P> <N>Function</N> <V>Call Appearance</V> </P> <P> <N>Service</N> <V>SP1</V> </P> </O> </pre>	Configure the name to be displayed on the device for this line.

Step	Command	Purpose
Step 5	Configure Display label (optional). Web: Voice Service SP1 Service X_DisplayLabel = Joe Brown X_DisplayNumber = 2405552222_1 XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.</N> <P> <N>X_DisplayLabel</N> <V>Joe Brown</V> </P> <P> <N>X_DisplayNumber</N> <V>2405552222_1</V> </P> </O>	Customize line key label.

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

Step	Command	Purpose
Step 1	Configure the line as shared. Web: Voice Service SP2 Service X_ShareLine = true XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>X_ShareLine</N> <V>true</V> </P> </O>	Configure the line as "shared" (as opposed to "private").

Step	Command	Purpose
Step 2	Set the Register User ID. Web: <pre>Voice Service SP1 Service URI = 2405552222_2</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>URI</N> <V>2405552222_2</V> </P> </O></pre>	The register user ID must correspond with the line/port setting on Cisco BroadWorks.
Step 3	Enable SIP Authentication. Web: <pre>Voice Services SP2 Service AuthUserName = bobsmith AuthPassword = bobs</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>AuthUserName</N> <V>bobsmith</V> </P> <P> <N>AuthPassword</N> <V>bobs</V> </P> </O></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	Command	Purpose
Step 4	Configure the display name. Web: Left Line Keys Key 2 Function = Call Appearance Service = SP2 XML: <pre><O> <N>VoiceService.1.Phone.LeftLineKey .2.</N> <P> <N>Function</N> <V>Call Appearance</V> </P> <P> <N>Service</N> <V>SP2</V> </P> </O></pre>	Configure the name to be displayed on the device for this line.
Step 5	Configure Display Label (optional). Web: Voice Service SP2 Service X_DisplayLabel = Bob Smith X_DisplayNumber = 2405552222_2 XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.</N> <P> <N>X_DisplayLabel</N> <V>Bob Smith</V> </P> <P> <N>X_DisplayNumber</N> <V>2405552222_2</V> </P> </O></pre>	Customize line key label.

Step	Command	Purpose
Step 6	Enable Shareline feature (Optional). Web: <pre>Voice Service SP2 Service X_ShareLineBargeIn = true X_ShareLineMonitor = true X_ShareLinePrivateHold = true X_ShareLineCallPickup = true</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N> <P> <N>X_ShareLineBargeIn</N> <V>true</V> </P> <P> <N>X_ShareLineMonitor</N> <V>true</V> </P> <P> <N>X_ShareLinePrivateHold</N> <V>true</V> </P> <P> <N>X_ShareLineCallPickup</N> <V>true</V> </P> </O></pre>	

4.4.2 Feature Key Synchronization Configuration

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

Step	Command	Purpose
Step 1	Enable Feature Key Synchronization. Web: <pre>Voice Service SP1 Service X_ASFeatureEventSubscribe = %ASFEATURE_EVENT_ENABLE%</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.</N> <P> <N>X_ASFeatureEventSubscribe</N> <V> %ASFEATURE_EVENT_ENABLE% </V> </P> </O></pre>	The feature can be enabled per service. Tags: %ASFEATURE_EVENT_ENABLE% true - enable false – disable (default)
Step 2	Enable feature, for example: Web: <pre>Voice Services SP1 Service Network Provided Service CallForwardAlways = true DoNotDisturbEnable = true</pre> XML: <pre><O> <N>VoiceService.1.VoiceProfile.1.Line.1.X_NetServices.</N> <P> <N>CallForwardAlways</N> <V>true</V> </P> <P> <N>DoNotDisturbEnable</N> <V>true</V> </P> </O></pre>	

4.5 Xtended Services Interface (Xsi) Feature Configuration

Poly VVX D230 Phone XSI feature can be enabled by adding the XSI server, authentication credential (SIP auth or XSP auth) and required XSI service.

4.5.1 Xsi Authentication Methods

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 configurations required.

XSI User credential configuration using SIP Auth Credentials.

Step	Command	Purpose
Step 1	XSI User credential configuration using SIP Auth Credentials. <pre> Voice Service SP1 Service AuthUserName = %BWAUTHUSER-1% AuthPassword = %BWAUTHPASSWORD-1% XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>AuthUserName</N> <V>%BWAUTHUSER-1%</V> </P> <P> <N>AuthPassword</N> <V>%BWAUTHPASSWORD-1%</V> </P> <P> <N>X_XsiUserName</N> <V></V> </P> <P> <N>X_XsiPassword</N> <V></V> </P> </O> </pre>	The example is assuming SP1 is configured with service with SIP Auth Credentials
Step 2	XSI server configuration(optional). <pre> Web: ITSP Profile A SIP X_XsiServer = %XSP_ADDRESS_XSI_ACTIONS% X_XsiServerPort = 1234 X_XsiServerScheme = HTTP XML: <O> <N>VoiceService.1.VoiceProfile.1.SIP.</N> <P> <N>X_XsiServer</N> <V>%XSP_ADDRESS_XSI_ACTIONS%</V> </P> <P> <N>X_XsiServerPort</N> </pre>	Tags: %XSP_ADDRESS_XSI_ACTIONS% Address of XSP server

Step	Command	Purpose
	<pre> <V>1234</V> </P> <P> <N>X_XsiServerScheme</N> <V>HTTP</V> </P> </O> </pre>	

XSI User credential configuration using XSP Auth credentials.

Step	Command	Purpose
Step 1	XSI User credential configuration using XSI Auth credentials. <pre> Voice Service SP1 Service X_XsiUserName = %BWLOGIN-ID-1% X_XsiPassword = %BWAUTHPASSWORD-1% XML: <O> <N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N> <P> <N>X_XsiUserName</N> <V>%BWLOGIN-ID-1%</V> </P> <P> <N>X_XsiPassword</N> <V>%BWAUTHPASSWORD-1%</V> </P> </O> </pre>	The example is assuming SP1 is configured with service using XSI auth credentials.
Step 2	XSI server configuration(optional). <pre> Web: ITSP Profile A SIP X_XsiServer = xsi.Cisco BroadWorks.net X_XsiServerPort = 1234 X_XsiServerScheme = HTTP XML: <O> <N>VoiceService.1.VoiceProfile.1.SIP.</N> <P> <N>X_XsiServer</N> <V>%XSP_ADDRESS_XSI_ACTIONS% Address of XSP server </V> </P> <P> </pre>	Tags: %XSP_ADDRESS_XSI_ACTIONS% Address of XSP server

Step	Command	Purpose
	<pre> <N>X_XsiServerPort</N> <V>1234</V> </P> <P> <N>X_XsiServerScheme</N> <V>HTTP</V> </P> </O> </pre>	

4.5.2 Cisco BroadWorks Directory Configuration

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

Step	Command	Purpose
Step 1	XSI Service configuration. Web: <pre> Voice Service SP1 Service Network Provided Service Directory = %BSFT_DIR_ENABLE% Voice Service SP1 Service Network Directory Setup DirectoryType = %BSFT_DIR_TYPE% </pre> XML: <pre> <O> <N>VoiceService.1.VoiceProfile.1.Line.1.X_NetServices.</N> <P> <N>Directory</N> <V>true</V> </P> </O> <O> <N>VoiceService.1.VoiceProfile.1.Line.1.X_NetServices.Dir.</N> <P> <N>URL</N> <V></V> </P> <P> <N>DirectoryType</N> <V>%BSFT_DIR_TYPE%</V> </P> </O> </pre>	List the VVX OBi phone XSI supported feature list. Tags: %BSFT_DIR_ENABLE% true – enable feature false – disable (default) %BSFT_DIR_TYPE% Enterprise Enterprise Common Group Group Common Personal

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 Poly VVX D230 Phone and the configuration steps required. For Device Management configuration details not covered here, see the *Cisco BroadWorks Device Management Configuration Guide* [2] and the *Cisco BroadWorks CPE Kit Usage Guide* [8].

5.1 Device Management Capabilities Supported

The Poly VVX D230 Phone has completed Device Management interoperability testing with Cisco BroadWorks using the *Cisco BroadWorks Device Management Interoperability Test Plan* [7]. The results are summarized in the following table.

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

The *Supported* column in the following table identifies the Poly VVX D230 Phone's support for each of the items covered in the test plan packages, with the following designations:

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

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

NOTE: *DUT* in the following table refers to the *Device Under Test*, which in this case is the Poly VVX D230 Phone.

Cisco BroadWorks Device Management Interoperability Test Plan Support Table			
Test Plan Package	Test Plan Package Items	Supported	Comments
HTTP File Download	HTTP Download Using XSP IP Address	Yes	
	HTTP Download Using XSP FQDN	Yes	
	HTTP Download Using XSP Cluster FQDN	Yes	
	HTTP Download With Double Slash	Yes	
HTTPS File Download	HTTPS Download Using XSP FQDN	Yes	
	HTTPS Download Using XSP Cluster FQDN	Yes	
HTTPS File Download with	HTTPS Download with Client Authentication Using XSP FQDN	Yes	

Cisco BroadWorks Device Management Interoperability Test Plan Support Table

Test Plan Package	Test Plan Package Items	Supported	Comments
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	No	
	HTTP Upload Using XSP FQDN	No	
	HTTP Upload Using XSP Cluster FQDN	No	
Call Processing Sanity Tests	Register with Authentication	Yes	
	Call Origination	Yes	
	Call Termination	Yes	
	Remote Restart	Yes	
	Shared Line Origination	Yes	
	Shared Line Termination	Yes	
	Shared Line Status	Yes	
	Busy Lamp Field	No	
	Network-Based Conference	Yes	
Flexible Seating	Association via Voice Portal	No	
	Association via Phone	No	
No Touch Provisioning	Provision via DHCP Options Field	Yes	
	No Touch Provision via DM redirect	Yes	
	No Touch Provision via Vendor redirect	Yes	

5.2 Device Management Configuration

This section identifies the steps required to enable the Poly VVX D230 Phone for device management. For Device Management configuration details not covered here, see the *Cisco BroadWorks Device Management Configuration Guide* [2] and the *Cisco BroadWorks CPE Kit Usage Guide* [8].

5.2.1 Configure Cisco BroadWorks Tags

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

The Poly VVX D230 Phone makes use of custom tags which can be configured by a Cisco BroadWorks administrator as either system default or device type-specific tags. This section identifies the required tags.

5.2.1.1 Create System Default Tags

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

The Poly system configuration file also uses the *%BWASCLUSTERFQDN%*, which is a pre-defined tag. For this tag to resolve properly, make sure that the following command line interface (CLI) parameter is set to the Application Server cluster address as follows:

```
AS_CLI/System/Device/IpDeviceMgmt> set deviceAccessAppServerClusterName
<AS-Cluster-FQDN>
```

Tag Name	Valid Settings	Description
%SBC_ADDRESS%	IP address or FQDN	This is the SBC SIP address.
%XSP_ADDRESS_XSI_ACTIONS%	IP address or FQDN Example: xsp1.iop1.Cisco BroadWorks.net	This is the Cisco BroadWorks Xtended Services Platform (Xsp) server address, which provides the Xsi-Actions web services.
%DNS_SERVER_1%	IP address	IP address of the DNS server
%DNS_SERVER_2%	IP address	IP address of the alternate DNS server

Example System Default Tag Settings

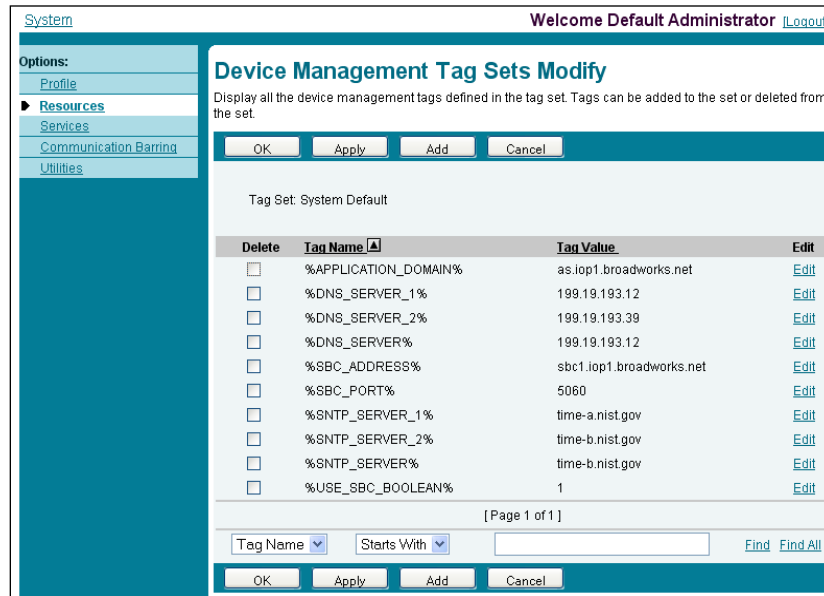


Figure 3 System Default Tag Settings

5.2.1.2 Create Device Type-specific Tags

Browse to *System* → *Resources* → *Device Management Tag Sets* and then click **Add** to add a new tag set. Configure the tag set name using the device name appended by *Tags*: *VVX D230 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
%ASFEATURE%	true/false	Enable or disable the AS Feature Sync subscription feature.
%DigitMap%	(*xx *xx* 1xxxxxxxxx <1>[2-9]xxxxxxxx 011xx. xx. (Mipd))	This is the dial plan for the U.S.
%NETSERV_CFWD_ALWAYS%	true/false	Enable or disable Call Forward Always.
%NETSERV_CFWD_BUSY%	true/false	Enable or disable Call Forward Busy.
%NETSERV_CFWD_NOANSWER%	true/false	Enable or disable Call Forward No Answer.
%NETSERV_CALLPARK%	true/false	Enable or disable Call Park.
%NETSERV_CALLPARK_STATUS_ENABLED%	true/false	Enable or disable Call Park Status.
%NETSERV_CALLPARK_EXT%	String value comma separated	Configured extensions to park against. i.e. 1001,1002
%NETSERV_CALLPICKUP%	true/false	Enable or disable Call Pickup.
%NETSERV_DIRECTORY%	true/false	Enable or disable Directory.

%NETSERV_DND%	true/false	Enable or disable Do Not Disturb.
%BSFT_DIR_TYPE%	Enterprise / Enterprise Common / Group / Group Common / Personal	Specify what type of BroadWorks Directory to list
%FIRMWV%	VVX-D230-7-1-0-7866-2020-7-7.fw	Firmware file
%UseExternalConfBridge%	true/false	User external bridge for conf calls. True to enable. False by default.

Example Device Type-specific Tag Settings

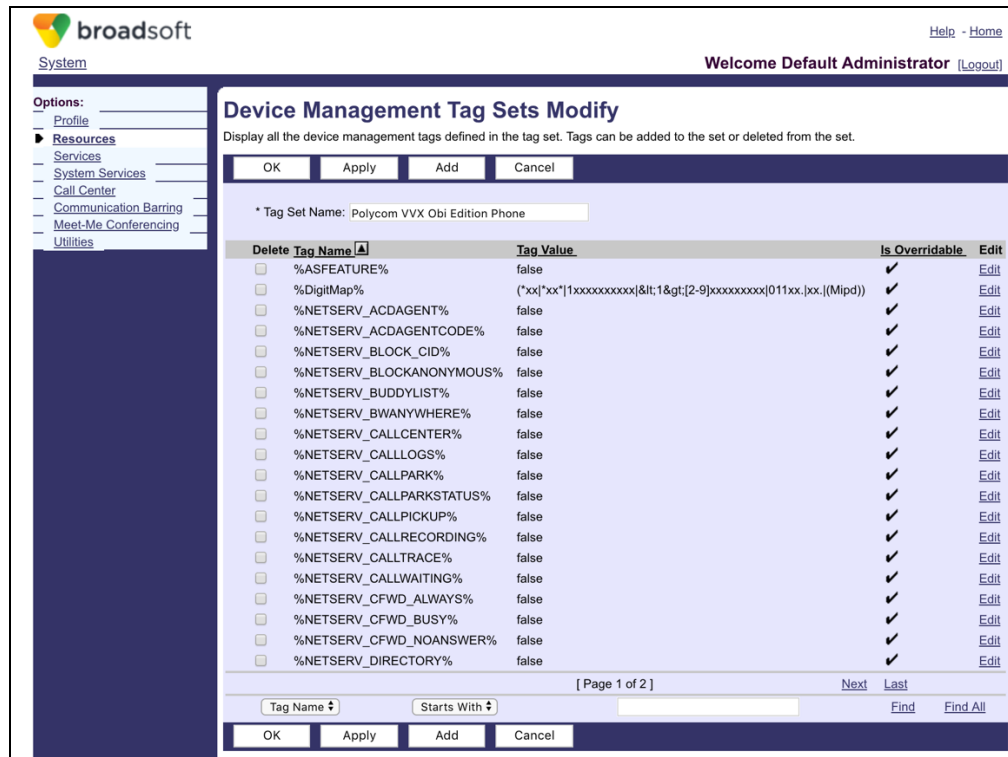


Figure 4 Device Type-specific Tag Settings

5.2.2 Configure Cisco BroadWorks Device Profile Type

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

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

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

- The Cisco BroadWorks Release is 17.0 or later.

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

Otherwise, use the manual method.

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

5.2.2.1 Configuration Method 1: Import

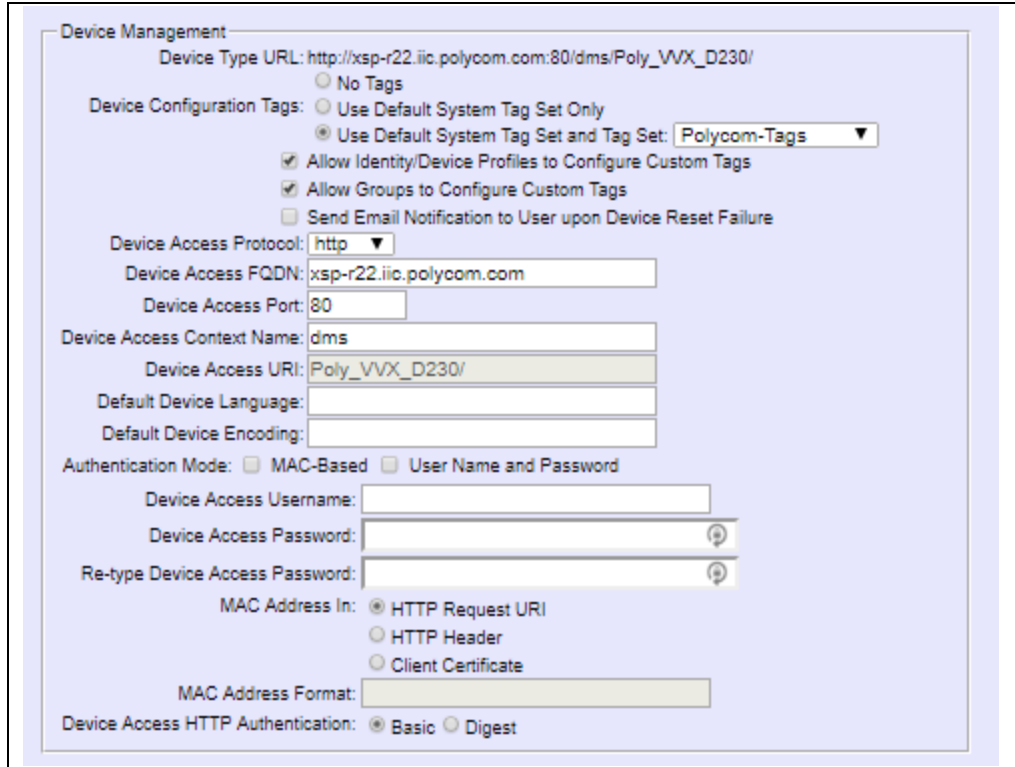
This section identifies the steps necessary to make use of the Device Management import feature to configure Cisco BroadWorks to add the Poly VVX D230 Phone as a Device Management-enabled device type. Also, see the *Cisco BroadWorks CPE Kit Usage Guide* [8].

Download the Poly VVX D230 Phone CPE kit from BroadSoft Xchange at xchange.broadsoft.com. Extract the DTAF file(s) from the CPE kit. These are the import files. Repeat the following steps for each model you wish to import.

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

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

- 4) Browse to *System* → *Resources* → *Identity/Device Profile Types*.
- 5) Perform a search to find the imported Polycom device profile type, Poly_VVX_D230 Phone.
- 6) Browse to the *Profile* page and change the Device Management Device Access FQDN to your Xtended Services Platform (XSP) or XSP cluster address.



Device Management

Device Type URL: http://xsp-r22.iic.polycom.com:80/dms/Poly_VVX_D230/

Device Configuration Tags: ☐ No Tags ☐ Use Default System Tag Set Only ☒ Use Default System Tag Set and Tag Set: **Polycom-Tags**

☒ Allow Identity/Device Profiles to Configure Custom Tags

☒ Allow Groups to Configure Custom Tags

☐ Send Email Notification to User upon Device Reset Failure

Device Access Protocol: **http**

Device Access FQDN: xsp-r22.iic.polycom.com

Device Access Port: **80**

Device Access Context Name: **dms**

Device Access URI: [Poly_VVX_D230/](http://xsp-r22.iic.polycom.com:80/dms/Poly_VVX_D230/)

Default Device Language:

Default Device Encoding:

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

Device Access Username:

Device Access Password:

Re-type Device Access Password:

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

MAC Address Format:

Device Access HTTP Authentication: ☒ Basic ☐ Digest

Figure 5 Device Access FQDN

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

Firmware files must be obtained from Poly. These files are not included in the import. Complete the steps in section [5.2.2.2.2 Define Device Profile Type Files](#) to define the static firmware files and to upload the firmware.

NOTE: The non-firmware static files in section [5.2.2.2.2 Define Device Profile Type Files](#) are normally included in the import.

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

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 Poly VVX D230 Phone as a Device Management-enabled device type. This method should not be used except in special cases as described in the opening to section [5.2.2 Configure Cisco BroadWorks Device Profile Type](#).

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

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

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

5.2.2.2.1 Create or Modify Device Profile Type

This section identifies the Cisco BroadWorks device profile type settings relevant to Device Management for the Poly VVX D230 Phone.

Browse to *System* → *Resources* → *Identity/Device Profile Types* and perform a search to find the Poly 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 Poly VVX D230 Phone downloads.

Configuration templates, firmware, and other files the Poly VVX D230 Phone uses must be uploaded to Cisco BroadWorks. Download the Poly VVX D230 Phone CPE kit from BroadSoft Xchange at xchange.broadsoft.com. Extract the configuration files from the *Configuration Files* folder of CPE kit. Obtain the firmware files directly from Poly.

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

File Name	CPE Kit Template File Name	File Type	Description
Examples			
Poly_VVX_D230-<MACAddress>.xml	Poly_VVX_D230-%BWMACADDRESS%.xml.template	Device-specific	This file contains all the configuration and firmware files that the device needs to load.
Poly_VVX_D230system.xml	Poly_VVX_D230system.xml.template	System-level	This file contains configuration parameters for all device profile types.
Poly_VVX_D230Template.xml	Poly_VVX_D230template.xml.template	System-level	This initial template file specifies the URI of the subsequent configuration files to be loaded.
TimeZoneAliasLabels_Poly_VVX_D230.properties	TimeZoneAliasLabels_Poly_VVX_D230.properties	Time Zone Alias	The time zone alias file is a Cisco BroadWorks Device Management file used to map time zone identifiers between Cisco BroadWorks and Poly devices. A time zone alias file is required for each model.

The following table identifies other files that the Poly VVX D230 Phone downloads from the server or uploads to the server. These files are not provided in the CPE kit and must be obtained from Poly.

File Name	File Type	Description
VVX-D230-7-1-0-7866-2020-7-7.fw	Static	The file is the application firmware image for D230.

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

5.2.2.2.1 System Files

This Section identifies the system-level files used by Poly VVX D230 Phone and provides instructions for defining and uploading the files for Device Management.

The Poly VVX D230 Phone downloads 2 system files, named as follows:

- *Poly_VVX_D230system.xml* and *Poly_VVX_D230template.xml*

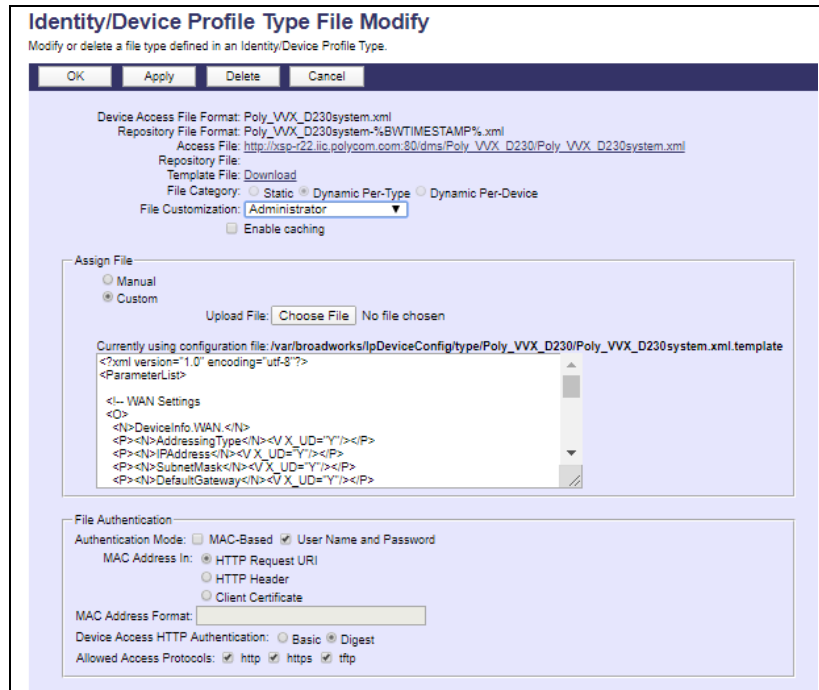
Add a Cisco BroadWorks device profile type file to the Poly VVX D230 device profile for the system file using the settings described in the following table.

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

Parameter	Value	Description
Device Access File Format	Poly_VVX_D230system.xml.template Poly_VVX_D230template.xml.template Example: Poly_VVX_D230system.xml Poly_VVX_D230Template.xml	This is the file name, which the phone uses to request the file.
Repository File Format	<system-file-name>-%BWTIMESTAMP% Example: Poly_VVX_D230system-%BWTIMESTAMP%.xml Poly_VVX_D230Template-%BWTIMESTAMP%.xml	This is the file name as stored in the Device Management repository. If group customization of the system file is required, then the repository file name must contain the <i>timestamp</i> tag.
File Category	Dynamic Per-Type	This is the system file that applies to the device type.
File Customization	Administrator	This identifies who can customize the system file template.
Enable Caching	Not set	Caching is optional for a system file.
Assign File	Custom	
Authentication Mode	User name and password	This must be set based on what the device supports. If group customization of the system file is required, then Authentication must be set to the user name and password.

Parameter	Value	Description
Device Access HTTP Authentication	Digest	

After defining the system file type, upload the corresponding system file template downloaded from BroadSoft Xchange. Click the **Browse** button on the file definition screen and click the **Apply** button 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: Poly_VVX_D230system.xml
Repository File Format: Poly_VVX_D230system-%BWTIMESTAMP%.xml
Access File: http://xsp-722.ilc.polycom.com:80/dms/Poly_VVX_D230/Poly_VVX_D230system.xml
Repository File: [Download](#)
Template File: [Download](#)
File Category: ☐ Static ☒ Dynamic Per-Type ☐ Dynamic Per-Device
File Customization: Administrator
☐ Enable caching

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

Currently using configuration file: /var/broadworks/lpDeviceConfig/type/Poly_VVX_D230/Poly_VVX_D230system.xml.template

```
<?xml version="1.0" encoding="utf-8"?>
<ParameterList>
<!-- WAN Settings
<D>
<N>DeviceInfo WAN </N>
<P><N>AddressingType</N><V X_UD="Y"/></P>
<P><N>IPAddress</N><V X_UD="Y"/></P>
<P><N>SubnetMask</N><V X_UD="Y"/></P>
<P><N>DefaultGateway</N><V X_UD="Y"/></P>
```

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

Figure 6 Poly_VVX_D230system.xml

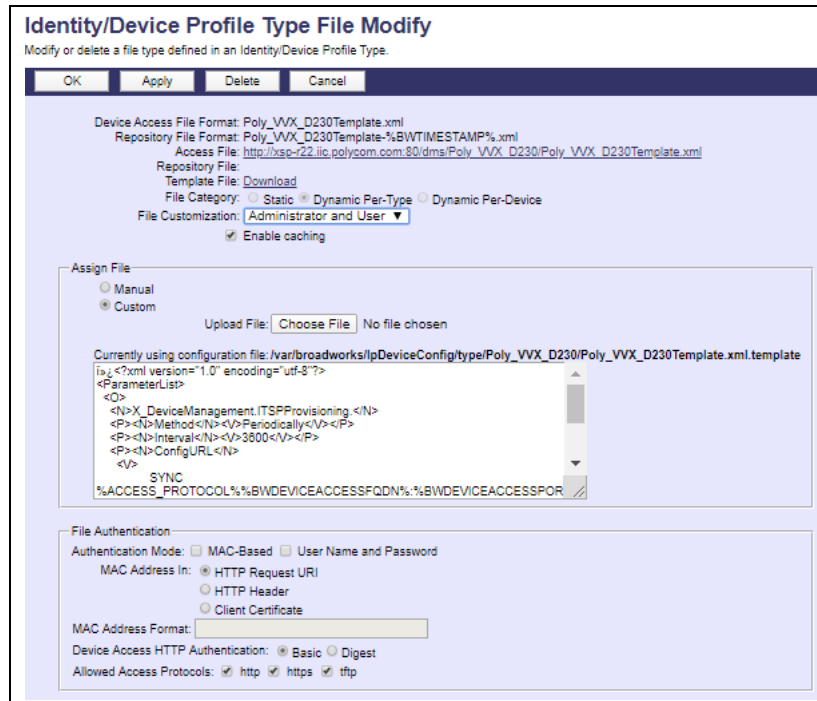


Figure 7 Poly_VVX_D230template.xml Device-Specific Files

This section identifies the device-specific files used by Poly VVX D230 phone and provides instructions for defining the files and uploading for Device Management.

The Poly VVX D230 phone downloads one device-specific file, named as follows:

- *Poly_VVX_D230-%BWMACADDRESS%.xml*

Add a BroadWorks device profile type file to the Poly VVX D230 device profile for the system file using the settings described in the following table.

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

Parameter	Value	Description
Device Access File Format	Poly_VVX_D230-%BWMACADDRESS%.xml	This is the file name that the phone uses when requesting the file.
Repository File Format	Poly_VVX_D230-%BWFQDEVICEID%.xml	This is the file name as stored in the Device Management repository.
File Category	Dynamic Per-Device	This file is unique per device.
File Customization	Administrator and User	This identifies who can customize this file template.
Enable Caching	Not set.	Caching should not be enabled for device-specific files.
Assign File	Custom	
Authentication Mode	User name and password	This must be set based on what the device supports. If group customization of the system file is required, then Authentication must be set to the user name and password.

Device Access HTTP
Authentication

Digest

After defining the system file type, upload the corresponding system file template downloaded from BroadSoft Xchange. Click the **Browse** button on the file definition screen and click the **Apply** button 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: Poly_VVX_D230-%BWMACADDRESS%.xml
Format: Poly_VVX_D230-%BWMACADDRESS%.xml

Repository File: Poly_VVX_D230-%BWFQDEVICEID%.xml
Format: Poly_VVX_D230-%BWFQDEVICEID%.xml

Access File: http://xsp-r22.ilc.polycom.com:80/dms/Poly_VVX_D230/Poly_VVX_D230-[%25BWMACADDRESS%25].xml
Note: this URL has undefined content. Validate it manually by replacing any content between {} with valid value(s).

Repository File: Download

Template File: Download

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

File: Administrator and User

Customization: ☐ Allow Upload from Device

Extended File Capture: ☐ Default Extended File Capture Mode
Enable for All File Instances Disable for All File Instances

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

Currently using configuration file: /var/broadworks/lpDeviceConfigType/Poly_VVX_D230/Poly_VVX_D230-%BWMACADDRESS%.xml.template

```
<?xml version="1.0" encoding="utf-8"?>
<!-- QBI Configuration File -->
<ParameterList>
  <O>
    <N>DeviceInfo.Time.</N>
    <P>
      <N>LocalTimeZone.</N>
      </P>
    </O>
  </P>
</O>
```

File Authentication: ☐ MAC-Based ☒ User Name and Password

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

MAC Address Format:

Device Access HTTP Authentication: ☐ Basic ☒ Digest

Allowed Access Protocols: ☒ http ☒ https ☒ tftp

Figure 8 Device-specific File

5.2.2.2.2 Application Firmware

The static application firmware and medial files are not configurable and/or do not make use of the dynamic Cisco BroadWorks Device Management tags.

The Poly VVX D230 Phone with 7.1.0 firmware release requires static files in the following format:

- VVX-D230-*<FW version-buildID>*-*<YYYY-M-DD>*.fw

Example:

- VVX-D230-7-1-0-7866-2020-7-7.fw

Add a Cisco BroadWorks device profile type file to the Poly VVX D230 device profile for the application file using the settings described in the following table.

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

Example application firmware file settings:

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: VVX-D230-7-1-0-7866-2020-7-7.fw
 Repository File Format: VVX-D230-7-1-0-7866-2020-7-7.fw

Access File: http://xsp-r22.ilc.polycom.com:80/dms/Poly_VVX_D230/VVX-D230-7-1-0-7866-2020-7-7.fw
 Repository File: [Download](#)
 Template File: [Download](#)

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

File Customization: Disallow

☒ Enable caching

Assign File

☐ Manual
☒ Custom

Upload File: Choose File No file chosen

Currently using configuration file: /var/broadworks/lpDeviceConfig/type/Poly_VVX_D230/VVX-D230-7-1-0-7866-2020-7-7.fw.template

```
VVX200C_FW_PKG0VE01e A00%0y00  ièuδ"oy"wZ/U
7.1.0 (Build: 7866)0_òÀ0000@00WJ0"00¶0;0A0
0"A0000@4W000h0000$0D000E_Y0000×&A00E0èA8×;
stIAZY00jY0000~Ç00C9<R"s0P0"0S0~v00
"s0U W0MucA%A0U(0A00àwwkUpI
¶QúTeh00RG00FM<P> 0Kxx00@00O0Èue0±#*00b000]0F'Z-ÓU]0
|06"0R00W0L000Z*]0p000000
"K000û0EN:A:00?hy0A0çtæ00²0800'0zNWY0';
0&(zSU0 iærWi<UY0D00pæ00ér+nM06"0"0ôav*00]7
0C°Vs7s04"UynOIÀ0EI=0IH0<Ak%00u$ sUX0¶HJ4AUJ;
```

File Authentication

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

MAC Address In: ☒ HTTP Request URI

☐ HTTP Header

☐ Client Certificate

MAC Address Format:

Device Access HTTP Authentication: ☒ Basic ☐ Digest

Allowed Access Protocols: ☒ http ☒ https ☒ tftp

Figure 9 Application Firmware File Settings

5.2.2.2.3 Time Zone Mapping

To map a Cisco BroadWorks configured user time zone properly to the Poly VVX D230 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 phone's time zone settings. Time zone mapping for the device profile type is documented in the *Cisco BroadWorks Device Management Configuration Guide* [2].

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

For example, if the device type name is `Poly_VVX_D230`, the time zone mapping file name must be `TimeZoneAliasLabels_Poly_VVX_D230.properties`. If a space exists in the device name, the space character must be converted to a "+" in the file name.

- `US_HAWAII=GMT-10:00 (Hawaii)`
- `US_ALASKA=GMT-09:00 (Alaska)`
- `CANADA_PACIFIC_TIME=GMT-08:00 (Pacific Time)`
- `MEXICO_PACIFIC_TIME=GMT-08:00 (Pacific Time)`
- `US_PACIFIC_TIME=GMT-08:00 (Pacific Time)`
- `US_ARIZONA=GMT-07:00 (Mountain Time)`
- `CANADA_MOUNTAIN_TIME=GMT-07:00 (Mountain Time)`
- `MEXICO_MOUNTAIN_TIME=GMT-07:00 (Mountain Time)`
- `US_MOUNTAIN_TIME=GMT-07:00 (Mountain Time)`
- `CANADA_CENTRAL_TIME=GMT-06:00 (Central Time)`
- `US_CENTRAL_TIME=GMT-06:00 (Central Time)`
- `US_INDIANA=GMT-05:00 (Eastern Time)`
- `CANADA_EASTERN_TIME=GMT-05:00 (Eastern Time)`
- `US_EASTERN_TIME=GMT-05:00 (Eastern Time)`
- `CANADA_ALTANTIC_TIME=GMT-04:00 (Atlantic Time)`
- `CANADA_NEWFOUNDLAND=GMT-03:30 (Newfoundland)`
- `VENEZUELA_TIME=GMT-04:30 (Caracas)`
- `CHILE_TIME=GMT-03:00 (Buenos Aires, Greenland)`
- `ARGENTINA_TIME=GMT-03:00 (Buenos Aires, Greenland)`
- `GREENWICH_MEAN_TIME=GMT+00:00 (London, Lisbon)`
- `CENTRAL_EUROPEAN_TIME=GMT+01:00 (Rome, Paris, Madrid)`
- `EASTERN_EUROPEAN_TIME=GMT+02:00 (Athens, Cairo)`
- `EAST_AFRICAN_TIME=GMT+03:00 (Moscow, Baghdad)`
- `IRAN_TIME=GMT+03:30 (Tehran)`
- `AZERBAIJAN_TIME=GMT+04:00 (Abu Dhabi)`
- `AFGHANISTAN_TIME=GMT+04:30 (Kabul)`
- `PAKISTAN_TIME=GMT+05:00 (Islamabad, Karachi)`
- `INDIA_TIME=GMT+05:30 (New Delhi)`

- EASTERN_KAZAKHSTAN_TIME=GMT+06:00
- MYANMAR_TIME=GMT+06:30 (Yangon)
- THAILAND_TIME=GMT+07:00 (Bangkok, Jakarta)
- CHINA_TIME=GMT+08:00 (Beijing, HK, Singapore)
- JAPAN_TIME=GMT+09:00 (Tokyo, Seoul)
- AUSTRALIAN_CENTRAL_STANDARD_TIME=GMT+09:30 (Adelaide)
- AUSTRALIAN_EASTERN_STANDARD_TIME=GMT+10:00 (Sydney, Guam)
- NEWZEALAND_TIME=GMT+12:00 (Fiji, Auckland)

This file must contain all the time zones supported by the service provider's Cisco BroadWorks system. You must restart the Application Server to load this file.

5.2.3 Create Device Profile Instance

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

Browse to the Cisco BroadWorks *<group>* → *Resources* → *Identity/Device Profiles* page and then select **Add** to add a new Poly VVX D230 Phone device profile. Configure the device profile as shown in the [Figure 10](#) example.

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

Parameter	Value	Description
Identity/Device Profile Name	<device-profile-name> Example: D230_user1	The device profile name is a unique identifier for the device profile instance.
Identity/Device Profile Type	<Polycom VVX device profile type> Example: Poly_VVX_D230	From the drop-down menu, select the Poly VVX D230 device profile type (created in the previous section).
Authentication	Use custom credentials	Set a unique login ID and password for each phone.
Device Access User Name	<phone-login-name> Example: user123	This is the user name to log in from the phone. The phone login user naming convention must be determined by the service provider.
Device Access Password	<phone-login-password> Example: 1234	This is the password to log in from the phone.
MAC Address (Optional)	<MAC Address of the VVX D230>	Populate this field only if the device is using MAC address authentication.

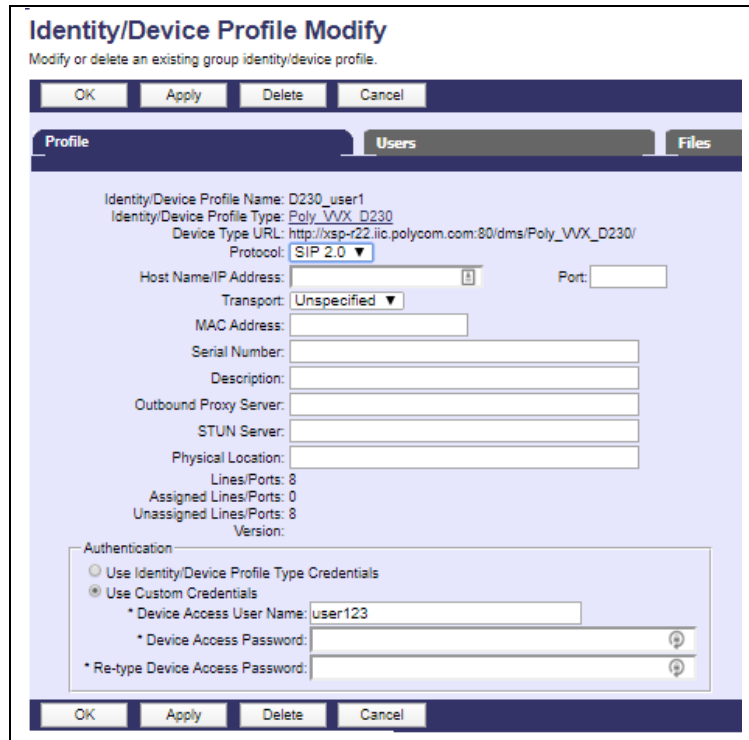


Figure 10 Device Profile Instance

5.2.4 Configure Cisco BroadWorks User

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

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

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

5.2.5 Customize Tags

This section identifies custom tags used by the Poly VVX D230 Phone that may need to be customized at the group or device profile. Customizing a tag at the group level overrides the setting on the device profile type for the device profiles created within the group. Customizing a tag at the device profile level overrides the setting at the device profile type and/or group level for the individual device profile.

5.2.5.1 SBC Address Customization for Edge Device

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

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

- 1) At the *Group* → *Utilities* → *Configure Device* page, select the Poly device profile (for example, *Poly_VVX_D230*).
- 2) Click on the *Custom Tags* tab.
- 3) Click **Add**.
- 4) For the tag, enter “SBC_ADDRESS”.
- 5) For the value, enter the edge device LAN IP address.
- 6) To save the tag data, click **OK**.

Repeat these steps for each Poly model provisioned in the group.

5.2.6 Configure Poly VVX D230 Phones

This section describes the steps necessary to configure the Poly VVX D230 Phone to integrate with Cisco BroadWorks Device Management.

5.2.6.1 Defining Device Management File Access URI

The Poly VVX D230 Phone uses the provisioning server parameters configured on the phone unless *Option 160 or 66* has been defined on the DHCP server. If the DHCP server returns data set for the *Option 160 or 66* parameter, then the Poly VVX D230 Phone uses the address defined in this field as the server address to retrieve its configuration data.

To utilize DHCP Options Field, the following value should be configured on the DHCP server for *Option 160 or 66*:

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

Example:

```
option myDevice code 66 = string;

subnet 10.2.0.0 netmask 255.255.255.0 {
option subnet-mask 255.255.255.0;
option domain-name-servers 10.2.0.29;
option routers 10.2.0.1;
option myDevice "http://xsp1.iop1.Cisco
BroadWorks.net:80/dms/myDevice/Poly_VVX_D230Template.xml"
}
```

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

- 1) Log in to the web user interface (UI) for the device. The default Username and Password is “admin” and “admin” respectively. Browse to the *Auto Provisioning* page and fill in the Device Management server address ConfigURL under ITSP Provisioning. Following is an example of the ConfigURL:
`http://$GPRM0:$GPRM1@xsp1.iop1.Cisco
BroadWorks.net/dms/Poly_VVX_D230Template.xml`
- 2) Fill in the GRPM0 and GPRM1 with the BroadSoft “Device Access User Name” and “Device Access Password” respectively.

- 3) Click Submit and then OK to confirm the changes.
- 4) Click Reboot to complete. Restart the device and enter the Cisco BroadWorks device access user name and password when prompted.

Example Login Screen

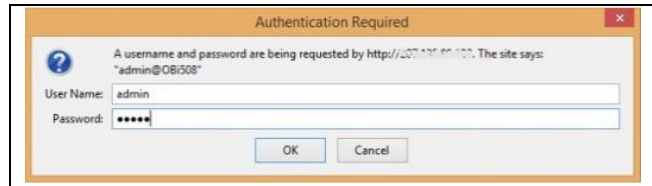


Figure 11 Example Login Screen

Example Provisioning Screen

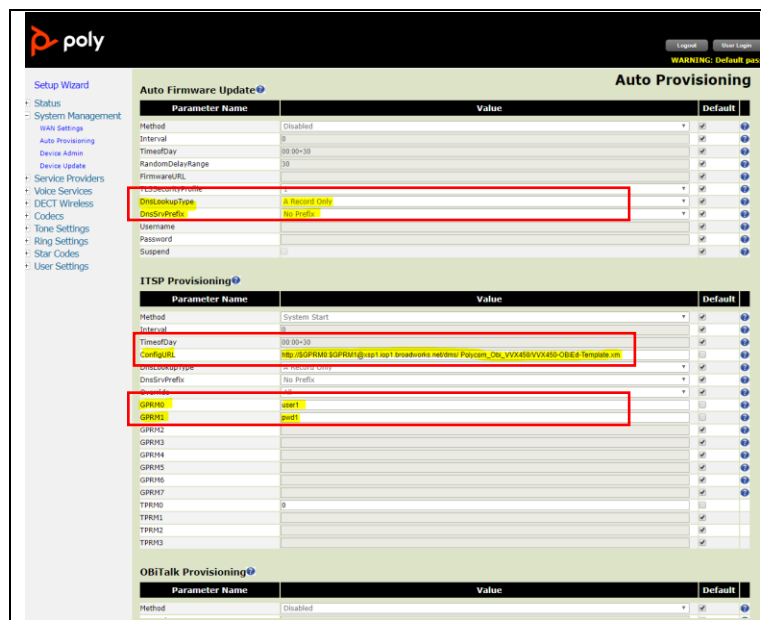


Figure 12 Example Provisioning Screen

5.2.6.2 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 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 D230 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 D230 devices containing the phone's MAC address must also be trusted by Cisco BroadWorks.

From factory, each Poly D230 Phone is installed with a client certificate that is signed by Poly's certificate authority. The public certificates of Poly's certificate authority can be obtained from Poly. The Poly certificate should be installed on the Device Management deploying Xtended Services Platform.

Caution: Altering the authentication mode from "username/password" to "MAC address in client certificate" for a given device profile type will affect all existing device profile instances on the BroadWorks system. Prepare the authentication mode switch by collecting all MAC addresses of the existing Polycom UC Software VVX Phones and follow instructions below in the specified order.

5) Create or Modify Device Profile Instance using MAC Address from Client Certificate

When MAC address authentication is chosen as the file authentication mode, every single D230 phone's MAC address must be added to the corresponding device profile on Cisco BroadWorks. The device MAC address is to be configured for the device profile as shown in the following figure. Further, select or update the *Authentication* method of *Use Custom Credentials* instead of *Use Identity/Device Profile Type Credentials*. If altering the authentication mode, repeat the steps to modify all existing device profiles on the Cisco BroadWorks system.

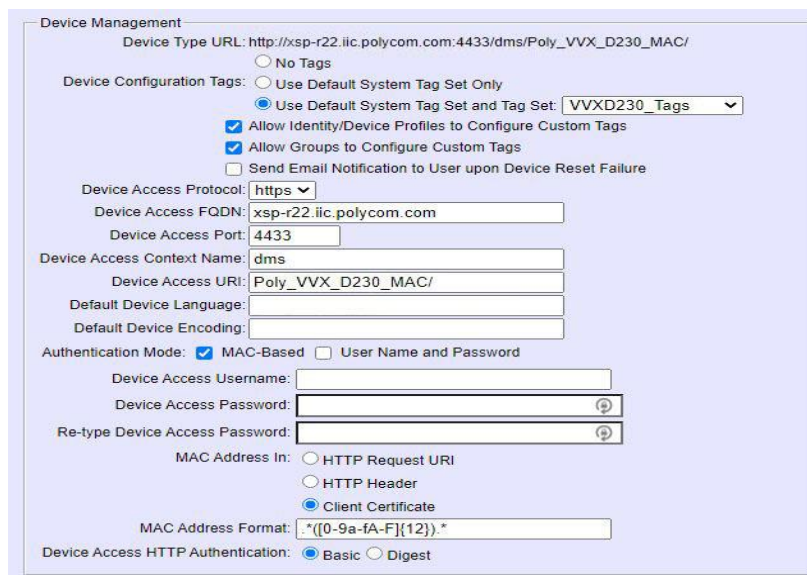


Figure 13 MAC Address Definition for Device Profile Instance

6) Update Device Management Authentication Mode on the Device Profile Type

Instructions in this section are only applicable to updating Cisco BroadWorks systems with existing Poly VVX D230 device profile types. Perform the changes as shown on the device profile type to be updated with MAC address authentication using Client Certificate.

Parameter	Value	Description
Device Access Protocol	https	HTTPS protocol is a must when using client mutual authentication with signed certificates.
Device Access Port	XSP's listening port of HTTPS mutual authentication.	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	.*([0-9a-fA-F]{12}).*	Regular expression used to parse the MAC address from the CN field of the client certificate.



Device Management

Device Type URL:

☐ No Tags

Device Configuration Tags: ☒ Use Default System Tag Set and Tag Set:

☒ Allow Identity/Device Profiles to Configure Custom Tags

☒ Allow Groups to Configure Custom Tags

☐ Send Email Notification to User upon Device Reset Failure

Device Access Protocol:

Device Access FQDN:

Device Access Port:

Device Access Context Name:

Device Access URI:

Default Device Language:

Default Device Encoding:

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

Device Access Username:

Device Access Password:

Re-type Device Access Password:

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

MAC Address Format:

Device Access HTTP Authentication: ☒ Basic ☐ Digest

Figure 14 Device Profile Type Update for MAC-Based Auth using Client Certificate

7) Change File Authentication Mode to MAC address in Client Certificate

Instructions in this section are only applicable to updating Cisco BroadWorks systems with existing Poly VVX D230 device profile types. Perform corresponding changes on the authentication mode of all authenticated files as shown in the following figure. The regular expression used in MAC Address Format is:

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



File Authentication

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

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

MAC Address Format:

Device Access HTTP Authentication: ☐ Basic ☒ Digest

Allowed Access Protocols: ☐ http ☒ https ☐ tftp

Figure 15 Authentication Mode Set to MAC-Based and Sourced from Client Certificate

5.2.6.3 Zero-Touch Device Provisioning (ZT)

Using Poly PDMS-SP (Obitalk Zero-Touch customization), the device can be bootstrapped to automatically connect to the Cisco BroadWorks Device Management server. Poly VVX D230 Phones leave the factory with their configuration set to pre-defined default values. The configuration is then changed subsequently through local configuration or remote provisioning.

Poly offers a device customization service, known as Zero-Touch or ZT, which lets service provider customers select the default values for Poly VVX D230 device configuration parameters. A typical parameter default customized to a specific service provider would be the ConfigURL which tells the device where and how to download its configuration profile(s) from the service provider's provisioning system. With the default ConfigURL pointing to their provisioning servers, service providers are in control of their devices the first time they are powered on, and therefore can provide true plug-and-play experience to their users without first preparing the units before shipping. Talk to your Poly sales representative if you would like to incorporate this service with your next order.

While the customized default values cannot be changed after the devices are shipped from the factory, customized parameter values may still be changed by subsequent provisioning, just like any other common parameter. When the device's factory resets all the customized parameters will be restored to the corresponding customized default values.

Poly Obitalk ZT is a technology (late customization) for service provider customers. Customization is finalized when the unit is first plugged in at the end-user's location. This allows service providers to ship devices in their original packaging to end-users without any pre-configuration.

When a service provider customer places an order with Poly for ZT devices, it must also define a ZT profile (or re-use an existing one previously defined). A ZT profile is just a device configuration profile with a small number of customized device parameter values. The ZT profile must be validated and approved by Poly. When ZT units are shipped from the factory, Poly records vital information (such as MAC and Serial#) for each device and links it in a database to the ZT profile already defined for that shipment. ZT enabled devices leave the factory in the "pre-customized" state. While in this state, the device will continuously attempt to complete customization by downloading its ZT profile from the ZT Server at www.oblitalk.com. Its functionality is otherwise very limited in this state, the end-user may change some basic network parameters such as DHCP and IP address, but may not set up a service provider's service for example. A very basic ZT profile would include a ConfigURL that points to a provisioning server managed by the service provider.

When a ZT profile is successfully downloaded and stored, the device operates in the customized state. It is in this state that the device can operate normally under the management of the service provider. The service provider should bear in mind the following points regarding their ZT devices:

As the ZT profile is defined, each parameter specified in the profile may be permanently locked down. No one can change the value of a locked down parameter after the unit is customized.

Factory resetting the device restores all the customized parameters to the values defined in the original ZT profile; other parameters are restored to their corresponding factory default values.

Service Providers are strongly advised to keep good records (MAC and serial# at the minimum) of the device shipment received from Poly and also devices they have shipped out to their end-users. These records would be valuable for example when a device has failed to complete ZT customization at a user's site and would allow Poly support staff to manually force the device to complete the proper ZT customization process.

For more information on Poly PDMS-SP's ZT service, see <https://www.poly.com/us/en/products/services/cloud/polycom-device-management-service-providers>

5.3 Upgrade from Previous CPE Kits

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

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

Appendix A: Reference Poly VVX D230 Phone Configuration Files

The following is a reference configuration for the Poly VVX D230 Phone configured for use with Cisco BroadWorks.

Poly VVX D230 Phone can be configured through the device web user interface (UI). The default User Name and Password is admin and admin.

Browse to the *Auto Provisioning* page, under ITSP Provisioning section, fill in ConfigURL with the Device Management server address. Here's the example:

http://xsp1.iop1.Cisco BroadWorks.net/dms/Poly_VVX_D230Template.xml

or

http://username:password@xsp1.iop1.Cisco BroadWorks.net/dms/Poly_VVX_D230Template.xml

Click Submit and then OK to confirm the changes. Then click Reboot to complete.

NOTE: These are example files and they should be used for reference only. DO NOT CUT AND PASTE THESE EXAMPLES TO GENERATE YOUR CONFIGURATION FILES. The Poly configuration files change between releases so be sure to use the configuration files from Poly for the specific release to generate your configuration files.

System Master File: Poly_VVX_D230Template.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ParameterList>
  <O>
    <N>X_DeviceManagement.ITSPProvisioning.</N>
    <P>
      <N>Method</N>
      <V>Periodically</V>
    </P>
    <P>
      <N>Interval</N>
      <V>3600</V>
    </P>
    <P>
      <N>ConfigURL</N>
      <V>
        SYNC
        %ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/
        %BWDEVICEACCESSURI%Poly_VVX_D230system.xml;
        SYNC
        %ACCESS_PROTOCOL%%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/
        %BWDEVICEACCESSURI%Poly_VVX_D230-$MAC.xml
      </V>
    </P>
  </O>
</ParameterList>
```

System Default File: Poly_VVX_D230system.xml.template

```
<?xml version="1.0" encoding="utf-8"?>
<ParameterList>

<!-- ***** Firmware upgrade -->
<O>
  <N>X_DeviceManagement.FirmwareUpdate.</N>
  <P><N>Method</N><V>Periodically</V></P>
  <P><N>Interval</N><V>3600</V></P>

  <P><N>FirmwareURL</N><V>%ACCESS_PROTOCOL%BWDEVICEACCESSFQDN:%BWDEVICEACC
ESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%FIRMWV%</V></P>
</O>

  <!-- ***** Network -->
  <O>
    <N>DeviceInfo.WAN.</N>
    <P><N>DNSServer1</N><V>%DNS_SERVER_1%</V></P>
    <P><N>DNSServer2</N><V>%DNS_SERVER_2%</V></P>
  </O>

<!-- ***** Network conference -->

  <O>
    <N>VoiceService.1.Phone.CallingFeatures.</N>
    <P><N>UseExternalConferenceBridge</N><V>%UseExternalConfBridge%</V></
P>
  </O>

<!-- SP1 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.1.</N>
  <P><N>X_RingProfile</N><V>A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"/></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
  <P><N>DirectoryNumber</N><V X_UD="Y"/></P>
  <P><N>X_DefaultRing</N><V X_UD="Y"/></P>
  <P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
  <P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

  <O>
    <N>VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.</N>
    <P><N>CallerIDName</N><V X_UD="Y"/></P>
    <P><N>MaxSessions</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
    <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
  </O>
</ParameterList>
```

```

<P><N>X_MailboxID</N><V X_UD="Y"/></P>
<P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
<P><N>MWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_VMWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_MWIRoute</N><V X_UD="Y"/></P>
<P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
<P><N>MessageWaiting</N><V X_UD="Y"/></P>
<P><N>MessageCount</N><V X_UD="Y"/></P>
<P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
<P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
<P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
<P><N>X_S RTP</N><V X_UD="Y"/></P>
<P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

<!-- SP2 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.2.</N>
  <P><N>X_RingProfile</N><V A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"/></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
  <P><N>DirectoryNumber</N><V X_UD="Y"/></P>
  <P><N>X_DefaultRing</N><V X_UD="Y"/></P>
  <P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
  <P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
  <N>VoiceService.1.VoiceProfile.1.Line.2.CallingFeatures.</N>
  <P><N>CallerIDName</N><V X_UD="Y"/></P>
  <P><N>MaxSessions</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
  <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
  <P><N>X_MailboxID</N><V X_UD="Y"/></P>
  <P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
  <P><N>MWIEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_VMWIEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_MWIRoute</N><V X_UD="Y"/></P>
  <P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
  <P><N>MessageWaiting</N><V X_UD="Y"/></P>
  <P><N>MessageCount</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
  <P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
  <P><N>X_S RTP</N><V X_UD="Y"/></P>
  <P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

```

```

    <!-- SP3 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.3.</N>
  <P><N>X_RingProfile</N><V>A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"/></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
  <P><N>DirectoryNumber</N><V X_UD="Y"/></P>
  <P><N>X_DefaultRing</N><V X_UD="Y"/></P>
  <P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
  <P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
  <N>VoiceService.1.VoiceProfile.1.Line.3.CallingFeatures.</N>
  <P><N>CallerIDName</N><V X_UD="Y"/></P>
  <P><N>MaxSessions</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
  <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
  <P><N>X_MailboxID</N><V X_UD="Y"/></P>
  <P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
  <P><N>MWIEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_VMWIEEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_MWIRoute</N><V X_UD="Y"/></P>
  <P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
  <P><N>X_MessageWaiting</N><V X_UD="Y"/></P>
  <P><N>MessageCount</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
  <P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
  <P><N>X_S RTP</N><V X_UD="Y"/></P>
  <P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

    <!-- SP4 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.4.</N>
  <P><N>X_RingProfile</N><V>A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"/></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
  <P><N>DirectoryNumber</N><V X_UD="Y"/></P>
  <P><N>X_DefaultRing</N><V X_UD="Y"/></P>

```

```

    <P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
    <P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
    <N>VoiceService.1.VoiceProfile.1.Line.4.CallingFeatures.</N>
    <P><N>CallerIDName</N><V X_UD="Y"/></P>
    <P><N>MaxSessions</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
    <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
    <P><N>X_MailboxID</N><V X_UD="Y"/></P>
    <P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
    <P><N>MWIEnableMask</N><V X_UD="Y"/></P>
    <P><N>X_VMWIEEnableMask</N><V X_UD="Y"/></P>
    <P><N>X_MWIRoute</N><V X_UD="Y"/></P>
    <P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
    <P><N>MessageWaiting</N><V X_UD="Y"/></P>
    <P><N>MessageCount</N><V X_UD="Y"/></P>
    <P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
    <P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
    <P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
    <P><N>X_S RTP</N><V X_UD="Y"/></P>
    <P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

    <!-- SP5 Services -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.</N>
    <P><N>X_RingProfile</N><V A</V></P>
    <P><N>X_CodecProfile</N><V X_UD="Y"/></P>
    <P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
    <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
    <P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
    <P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
    <P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
    <P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
    <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
    <P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
    <P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
    <P><N>DirectoryNumber</N><V X_UD="Y"/></P>
    <P><N>X_DefaultRing</N><V X_UD="Y"/></P>
    <P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
    <P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.CallingFeatures.</N>
    <P><N>CallerIDName</N><V X_UD="Y"/></P>
    <P><N>MaxSessions</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
    <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
    <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>

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<P><N>X_MailboxID</N><V X_UD="Y"/></P>
<P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
<P><N>MWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_VMWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_MWIRoute</N><V X_UD="Y"/></P>
<P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
<P><N>MessageWaiting</N><V X_UD="Y"/></P>
<P><N>MessageCount</N><V X_UD="Y"/></P>
<P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
<P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
<P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
<P><N>X_S RTP</N><V X_UD="Y"/></P>
<P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

<!-- SP6 Services -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.6.</N>
<P><N>X_RingProfile</N><V A</V></P>
<P><N>X_CodecProfile</N><V X_UD="Y"/></P>
<P><N>X_RegisterEnable</N><V X_UD="Y"/></P>
<P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"/></P>
<P><N>X_NoRegNoCall</N><V X_UD="Y"/></P>
<P><N>X_KeepAliveEnable</N><V X_UD="Y"/></P>
<P><N>X_KeepAliveExpires</N><V X_UD="Y"/></P>
<P><N>X_KeepAliveMsgType</N><V X_UD="Y"/></P>
<P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"/></P>
<P><N>X_UserAgentPort</N><V X_UD="Y"/></P>
<P><N>X_UserAgentPorts</N><V X_UD="Y"/></P>
<P><N>DirectoryNumber</N><V X_UD="Y"/></P>
<P><N>X_DefaultRing</N><V X_UD="Y"/></P>
<P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
<P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
<N>VoiceService.1.VoiceProfile.1.Line.6.CallingFeatures.</N>
<P><N>CallerIDName</N><V X_UD="Y"/></P>
<P><N>MaxSessions</N><V X_UD="Y"/></P>
<P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
<P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
<P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
<P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
<P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
<P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
<P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
<P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
<P><N>X_MailboxID</N><V X_UD="Y"/></P>
<P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
<P><N>MWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_VMWIEnableMask</N><V X_UD="Y"/></P>
<P><N>X_MWIRoute</N><V X_UD="Y"/></P>
<P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
<P><N>MessageWaiting</N><V X_UD="Y"/></P>
<P><N>MessageCount</N><V X_UD="Y"/></P>
<P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
<P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
<P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
<P><N>X_S RTP</N><V X_UD="Y"/></P>
<P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

```

```
<!-- SP7 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.</N>
  <P><N>X_RingProfile</N><V>A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"></P>
  <P><N>DirectoryNumber</N><V X_UD="Y"></P>
  <P><N>X_DefaultRing</N><V X_UD="Y"></P>
  <P><N>X_SatelliteMode</N><V X_UD="Y"></P>
  <P><N>X_AcceptResync</N><V X_UD="Y"></P>
</O>

<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.CallingFeatures.</N>
  <P><N>CallerIDName</N><V X_UD="Y"></P>
  <P><N>MaxSessions</N><V X_UD="Y"></P>
  <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"></P>
  <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"></P>
  <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"></P>
  <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"></P>
  <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"></P>
  <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"></P>
  <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"></P>
  <P><N>X_BlockedCallers</N><V X_UD="Y"></P>
  <P><N>X_MailboxID</N><V X_UD="Y"></P>
  <P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"></P>
  <P><N>MWIEnableMask</N><V X_UD="Y"></P>
  <P><N>X_VMWIEnableMask</N><V X_UD="Y"></P>
  <P><N>X_MWIRoute</N><V X_UD="Y"></P>
  <P><N>X_VMWIRoute</N><V X_UD="Y"></P>
  <P><N>MessageWaiting</N><V X_UD="Y"></P>
  <P><N>MessageCount</N><V X_UD="Y"></P>
  <P><N>AnonymousCallBlockEnable</N><V X_UD="Y"></P>
  <P><N>AnonymousCallEnable</N><V X_UD="Y"></P>
  <P><N>DoNotDisturbEnable</N><V X_UD="Y"></P>
  <P><N>X_S RTP</N><V X_UD="Y"></P>
  <P><N>X_S RTPCryptos</N><V X_UD="Y"></P>
</O>

<!-- SP8 Services -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.</N>
  <P><N>X_RingProfile</N><V>A</V></P>
  <P><N>X_CodecProfile</N><V X_UD="Y"></P>
  <P><N>X_RegisterEnable</N><V X_UD="Y"></P>
  <P><N>X_AcceptSipFromRegistrarOnly</N><V X_UD="Y"></P>
  <P><N>X_NoRegNoCall</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveEnable</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveExpires</N><V X_UD="Y"></P>
  <P><N>X_KeepAliveMsgType</N><V X_UD="Y"></P>
  <P><N>X_CustomKeepAliveMsg</N><V X_UD="Y"></P>
  <P><N>X_UserAgentPort</N><V X_UD="Y"></P>
  <P><N>X_UserAgentPorts</N><V X_UD="Y"></P>
```

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<P><N>DirectoryNumber</N><V X_UD="Y"/></P>
<P><N>X_DefaultRing</N><V X_UD="Y"/></P>
<P><N>X_SatelliteMode</N><V X_UD="Y"/></P>
<P><N>X_AcceptResync</N><V X_UD="Y"/></P>
</O>

<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.CallingFeatures.</N>
  <P><N>CallerIDName</N><V X_UD="Y"/></P>
  <P><N>MaxSessions</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardUnconditionalNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnBusyNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerEnable</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerNumber</N><V X_UD="Y"/></P>
  <P><N>CallForwardOnNoAnswerRingCount</N><V X_UD="Y"/></P>
  <P><N>X_BlockedCallers</N><V X_UD="Y"/></P>
  <P><N>X_MailboxID</N><V X_UD="Y"/></P>
  <P><N>X_CheckVoiceMailNumber</N><V X_UD="Y"/></P>
  <P><N>MWIEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_VMWIEnableMask</N><V X_UD="Y"/></P>
  <P><N>X_MWIRoute</N><V X_UD="Y"/></P>
  <P><N>X_VMWIRoute</N><V X_UD="Y"/></P>
  <P><N>MessageWaiting</N><V X_UD="Y"/></P>
  <P><N>MessageCount</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallBlockEnable</N><V X_UD="Y"/></P>
  <P><N>AnonymousCallEnable</N><V X_UD="Y"/></P>
  <P><N>DoNotDisturbEnable</N><V X_UD="Y"/></P>
  <P><N>X_S RTP</N><V X_UD="Y"/></P>
  <P><N>X_S RTPCryptos</N><V X_UD="Y"/></P>
</O>

<!-- ITSP Profile A General -->
<O>
  <N>VoiceService.1.VoiceProfile.1.</N>
  <P><N>Name</N><V X_UD="Y"/></P>
  <P><N>SignalingProtocol</N><V X_UD="Y"/></P>
  <P><N>DTMFMethod</N><V X_UD="Y"/></P>
  <P><N>InbandDTMFVolume</N><V X_UD="Y"/></P>
  <P><N>X_FixedDurationRFC2833DTMF</N><V X_UD="Y"/></P>
  <P><N>DigitMap</N><V %DigitMap%</V></P>
  <P><N>STUNEnable</N><V X_UD="Y"/></P>
  <P><N>STUNServer</N><V X_UD="Y"/></P>
  <P><N>X_STUNServerPort</N><V X_UD="Y"/></P>
  <P><N>X_ICEEnable</N><V X_UD="Y"/></P>
  <P><N>X_SymmetricRTPEnable</N><V X_UD="Y"/></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.ServiceProviderInfo.</N>
  <P><N>Name</N><V X_UD="Y"/></P>
  <P><N>URL</N><V X_UD="Y"/></P>
  <P><N>ContactPhoneNumber</N><V X_UD="Y"/></P>
  <P><N>EmailAddress</N><V X_UD="Y"/></P>
</O>
<!-- ITSP Profile A RTP -->
<O>
  <N>VoiceService.1.VoiceProfile.1.RTP.</N>
  <P><N>LocalPortMin</N><V X_UD="Y"/></P>
  <P><N>LocalPortMax</N><V X_UD="Y"/></P>
  <P><N>KeepAliveInterval</N><V X_UD="Y"/></P>
  <P><N>DSCPMark</N><V X_UD="Y"/></P>

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    <P><N>X_RefreshSession</N><V X_UD="Y"/></P>
    <P><N>X_SymmetricMedia</N><V X_UD="Y"/></P>
  </O>
  <O>
    <N>VoiceService.1.VoiceProfile.1.RTP.RTCP.</N>
    <P><N>Enable</N><V X_UD="Y"/></P>
    <P><N>TxRepeatInterval</N><V X_UD="Y"/></P>
    <P><N>LocalCName</N><V X_UD="Y"/></P>
    <P><N>X_RTCPmux</N><V X_UD="Y"/></P>
    <P><N>X_VqPublishEnable</N><V X_UD="Y"/></P>
    <P><N>X_VqPublishUrl</N><V X_UD="Y"/></P>
    <P><N>X_VqPublishInterval</N><V X_UD="Y"/></P>
    <P><N>X_VqPublishOnSSRCChange</N><V X_UD="Y"/></P>
  </O>
  <O>
    <N>VoiceService.1.VoiceProfile.1.RTP.JIB.</N>
    <P><N>Adaptive</N><V X_UD="Y"/></P>
    <P><N>MaximumSize</N><V X_UD="Y"/></P>
    <P><N>SetPoint</N><V X_UD="Y"/></P>
    <P><N>Target</N><V X_UD="Y"/></P>
    <P><N>AdaptationSlope</N><V X_UD="Y"/></P>
  </O>
  <O>
    <N>VoiceService.1.VoiceProfile.1.SIP.</N>
    <P><N>ProxyServer</N><V X_UD="Y"/></P>
    <P><N>ProxyServerPort</N><V X_UD="Y"/></P>
    <P><N>RestrictedDomain</N><V X_UD="Y"/></P>
    <P><N>ProxyServerTransport</N><V X_UD="Y"/></P>
    <P><N>RegistrarServer</N><V X_UD="Y"/></P>
    <P><N>RegistrarServerPort</N><V X_UD="Y"/></P>
    <P><N>X_XsiServer</N><V X_UD="Y"/></P>
    <P><N>X_XsiServerPort</N><V X_UD="Y"/></P>
    <P><N>X_XsiServerScheme</N><V X_UD="Y"/></P>
    <P><N>UserAgentDomain</N><V X_UD="Y"/></P>
    <P><N>OutboundProxy</N><V X_UD="Y"/></P>
    <P><N>OutboundProxyPort</N><V X_UD="Y"/></P>
    <P><N>X_OutboundProxyTransport</N><V X_UD="Y"/></P>
    <P><N>X_TLSSecurityProfile</N><V X_UD="Y"/></P>
    <P><N>X_UserAgentContactFollowProxyServerTransport</N><V
X_UD="Y"/></P>
    <P><N>X_BypassOutboundProxyInCall</N><V X_UD="Y"/></P>
    <P><N>RegistrationPeriod</N><V X_UD="Y"/></P>
    <P><N>X_RegistrationMargin</N><V X_UD="Y"/></P>
    <P><N>InviteExpires</N><V X_UD="Y"/></P>
    <P><N>ReInviteExpires</N><V X_UD="Y"/></P>
    <P><N>RegisterMinExpires</N><V X_UD="Y"/></P>
    <P><N>RegisterRetryInterval</N><V X_UD="Y"/></P>
    <P><N>X_RegisterRetryResponseCodes</N><V X_UD="Y"/></P>
    <P><N>X_RegisterIncludeInstance</N><V X_UD="Y"/></P>
    <P><N>DSCPMark</N><V X_UD="Y"/></P>
    <P><N>X_SpoofCallerID</N><V X_UD="Y"/></P>
    <P><N>X_UseRefer</N><V>true</V></P>
    <P><N>X_ReferAOR</N><V>true</V></P>
    <P><N>X_HoldReferee</N><V X_UD="Y"/></P>
    <P><N>X_Use302ToCallForward</N><V X_UD="Y"/></P>
    <P><N>X_UserAgentName</N><V X_UD="Y"/></P>
    <P><N>X_ProcessDateHeader</N><V X_UD="Y"/></P>
    <P><N>X_InsertRemotePartyID</N><V X_UD="Y"/></P>
    <P><N>X_EnforcePAssertedIdentity</N><V X_UD="Y"/></P>
    <P><N>X_InsertPPreferredIdentity</N><V X_UD="Y"/></P>
    <P><N>X_InsertPrivacyHdr</N><V X_UD="Y"/></P>
    <P><N>X_UseAnonymousFROM</N><V>true</V></P>

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<P><N>X_SessionRefresh</N><V X_UD="Y"/></P>
<P><N>X_SessionTimer</N><V X_UD="Y"/></P>
<P><N>X_SessionExpires</N><V X_UD="Y"/></P>
<P><N>X_AccessList</N><V X_UD="Y"/></P>
<P><N>X_InsertRTPStats</N><V X_UD="Y"/></P>
<P><N>X_MWISubscribe</N><V X_UD="Y"/></P>
<P><N>X_MWISubscribeURI</N><V X_UD="Y"/></P>
<P><N>X_MWISubscribeExpires</N><V X_UD="Y"/></P>
<P><N>X_RegSubscribe</N><V X_UD="Y"/></P>
<P><N>X_RegSubscribeExpires</N><V X_UD="Y"/></P>
<P><N>X_NoNonceAuth</N><V X_UD="Y"/></P>
<P><N>X_ProxyServerRedundancy</N><V>true</V></P>
<P><N>X_SecondaryRegistration</N><V X_UD="Y"/></P>
<P><N>X_CheckPrimaryFallbackInterval</N><V X_UD="Y"/></P>
<P><N>X_CheckSecondaryFallbackInterval</N><V X_UD="Y"/></P>
<P><N>X_ProxyFailoverResponseCodes</N><V X_UD="Y"/></P>
<P><N>X_InviteFailoverWaitRegTimer</N><V X_UD="Y"/></P>
<P><N>X_ProxyRequire</N><V X_UD="Y"/></P>
<P><N>X_MaxForward</N><V X_UD="Y"/></P>
<P><N>X_AcceptLanguage</N><V X_UD="Y"/></P>
<P><N>X_DnsSrv</N><V X_UD="Y"/></P>
<P><N>X_DnsSrvAutoPrefix</N><V X_UD="Y"/></P>
<P><N>X_Support100rel</N><V>true</V></P>
<P><N>X_UserEqPhone</N><V X_UD="Y"/></P>
<P><N>X_UseTelURI</N><V X_UD="Y"/></P>
<P><N>X_CallWaitingIndication</N><V X_UD="Y"/></P>
<P><N>X_DiscoverPublicAddress</N><V X_UD="Y"/></P>
<P><N>X_UsePublicAddressInVia</N><V X_UD="Y"/></P>
<P><N>X_PublicIPAddress</N><V X_UD="Y"/></P>
<P><N>X_UseRport</N><V X_UD="Y"/></P>
<P><N>X_UseCompactHeader</N><V X_UD="Y"/></P>
<P><N>X_OmitContentLength</N><V X_UD="Y"/></P>
<P><N>X_IncludeMessageHash</N><V X_UD="Y"/></P>
<P><N>X_EnableRFC2543CallHold</N><V X_UD="Y"/></P>
<P><N>X_VerifyServerDomain</N><V X_UD="Y"/></P>
<P><N>X_RejectKeyResponseCode</N><V X_UD="Y"/></P>
<P><N>X_Sticky18x</N><V X_UD="Y"/></P>
<P><N>X_CallParkMethod</N><V X_UD="Y"/></P>
<P><N>X_DirectedCallPickupMethod</N><V X_UD="Y"/></P>
<P><N>X_CallParkStatusMethod</N><V X_UD="Y"/></P>
<P><N>X_ShareLineMethod</N><V X_UD="Y"/></P>
<P><N>X_CallInfoSubscribeExpires</N><V X_UD="Y"/></P>
<P><N>X_ASFeatureEventSubscribeExpires</N><V X_UD="Y"/></P>
<P><N>X_LineSeizeSubscribeExpires</N><V X_UD="Y"/></P>
<P><N>X_BWCallParkSubscribeExpires</N><V X_UD="Y"/></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.X_FeatureCode.</N>
  <P><N>DirectedCallPickup</N><V X_UD="Y"/></P>
  <P><N>CallPickup</N><V X_UD="Y"/></P>
  <P><N>Park</N><V X_UD="Y"/></P>
</O>
</ParameterList>

```

Phone-Specific File: Poly_VVX_D230-%BWMACADDRESS%.xml.template

```

<?xml version="1.0" encoding="utf-8"?>
<!-- OBi Configuration File -->
<ParameterList>
  <O>
    <N>DeviceInfo.Time.</N>
    <P><N>LocalTimeZone</N><V>%BWTIMEZONE-1%</V></P>
  </O>

```

```

<!-- ***** ITSP Profile A ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.SIP.</N>
<P><N>ProxyServer</N><V>%BWHOST-1%</V></P>
<P><N>X_XsiServer</N><V>%XSP_ADDRESS_XSI_ACTIONS%</V></P>
<P><N>OutboundProxy</N><V>%SBC_ADDRESS%</V></P>
</O>

<!-- ***** SP1 Service Profile ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.1.</N>
<P><N>X_DisplayLabel</N><V>%BWCLID-1%</V></P>
<P><N>X_DisplayNumber</N><V>%BWEXTENSION-1%</V></P>
<P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
<P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>
</O>

<!-- ***** SP1 Service SIP Credential ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.1.SIP.</N>
<P><N>AuthUserName</N><V>%BWAUTHUSER-1%</V></P>
<P><N>AuthPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>URI</N><V>%BWLINEPORT-1%</V></P>
<P><N>X_MyExtension</N><V>%BWEXTENSION-1%</V></P>
<P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
<P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>

<!-- Network Service -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.</N>
<P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
<P><N>X_ConferenceBridge</N><V>%BWNETWORK-CONFERENCE-SIPURI-1%</V></P>
</O>

<O>
<N>VoiceService.1.VoiceProfile.1.Line.1.X_NetServices.</N>
<P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
<P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
<P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
<P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
<P><N>CallFowardAlways</N><V>%NETSERV_CFWF_ALWAYS%</V></P>
<P><N>CallFowardBusy</N><V>%NETSERV_CFWF_BUSY%</V></P>
<P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWF_NOANSWER%</V></P>
<P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
<P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>

<O>
<N>VoiceService.1.VoiceProfile.1.Line.1.X_NetServices.Dir.</N>
<P><N>URL</N><V></V></P>
<P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP2 Service Profile ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.2.</N>
<P><N>X_DisplayLabel</N><V>%BWCLID-2%</V></P>
<P><N>X_DisplayNumber</N><V>%BWEXTENSION-2%</V></P>
<P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
<P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>

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</O>
<!-- ***** SP2 Service SIP Credential ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.2.SIP.</N>
<P><N>AuthUserName</N><V>%BWAUTHUSER-2%</V></P>
<P><N>AuthPassword</N><V>%BWAUTHPASSWORD-2%</V></P>
<P><N>URI</N><V>%BWLINEPORT-2%</V></P>
<P><N>X_MyExtension</N><V>%BWEXTENSION-2%</V></P>
<P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
<P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.2.CallingFeatures.</N>
<P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
<P><N>X_ConferenceBridge</N><V>%BWNETWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.2.X_NetServices.</N>
<P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
<P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
<P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
<P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
<P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
<P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
<P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
<P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
<P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.2.X_NetServices.Dir.</N>
<P><N>URL</N><V></V></P>
<P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>
<!-- ***** SP3 Service Profile ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.3.</N>
<P><N>X_DisplayLabel</N><V>%BWCLID-3%</V></P>
<P><N>X_DisplayNumber</N><V>%BWEXTENSION-3%</V></P>
<P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
<P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>
</O>
<!-- ***** SP3 Service SIP Credential ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.3.SIP.</N>
<P><N>AuthUserName</N><V>%BWAUTHUSER-3%</V></P>
<P><N>AuthPassword</N><V>%BWAUTHPASSWORD-3%</V></P>
<P><N>URI</N><V>%BWLINEPORT-3%</V></P>
<P><N>X_MyExtension</N><V>%BWEXTENSION-3%</V></P>
<P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
<P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.3.CallingFeatures.</N>

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<P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
<P><N>X_ConferenceBridge</N><V>%BWNWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.3.X_NetServices.</N>
<P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
<P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
<P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
<P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
<P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
<P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
<P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
<P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
<P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.3.X_NetServices.Dir.</N>
<P><N>URL</N><V></V></P>
<P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP4 Service Profile ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.4.</N>
<P><N>X_DisplayLabel</N><V>%BWCLID-4%</V></P>
<P><N>X_DisplayNumber</N><V>%BWEXTENSION-4%</V></P>
<P><N>X_InboundCallRoute</N><V>X_UseDefault="Yes" /></P>
<P><N>X_ServProvProfile</N><V>X_UseDefault="Yes" /></P>
</O>
<!-- ***** SP4 Service SIP Credential ***** -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.4.SIP.</N>
<P><N>AuthUserName</N><V>%BWAUTHUSER-4%</V></P>
<P><N>AuthPassword</N><V>%BWAUTHPASSWORD-4%</V></P>
<P><N>URI</N><V>%BWLINPORT-4%</V></P>
<P><N>X_MyExtension</N><V>%BWEXTENSION-4%</V></P>
<P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
<P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>X_ContactUserID</N><V>X_UseDefault="Yes" /></P>
<P><N>X_EnforceRequestUserID</N><V>X_UseDefault="Yes" /></P>
<P><N>X_ShareLine</N><V>X_UseDefault="Yes" /></P>
<P><N>X_ShareLineBargeIn</N><V>X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
<N>VoiceService.1.VoiceProfile.1.Line.4.CallingFeatures.</N>
<P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
<P><N>X_ConferenceBridge</N><V>%BWNWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.4.X_NetServices.</N>
<P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
<P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
<P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
<P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
<P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
<P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
<P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
<P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
<P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
<N>VoiceService.1.VoiceProfile.1.Line.4.X_NetServices.Dir.</N>

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    <P><N>URL</N><V></V></P>
    <P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP5 Service Profile ***** -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.</N>
    <P><N>X_DisplayLabel</N><V>%BWCLID-5%</V></P>
    <P><N>X_DisplayNumber</N><V>%BWEXTENSION-5%</V></P>
    <P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
    <P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>
</O>
<!-- ***** SP5 Service SIP Credential ***** -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.SIP.</N>
    <P><N>AuthUserName</N><V>%BWAUTHUSER-5%</V></P>
    <P><N>AuthPassword</N><V>%BWAUTHPASSWORD-5%</V></P>
    <P><N>URI</N><V>%BWLINEPORT-5%</V></P>
    <P><N>X_MyExtension</N><V>%BWEXTENSION-5%</V></P>
    <P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
    <P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
    <P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
    <P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
    <P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
    <P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.CallingFeatures.</N>
    <P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
    <P><N>X_ConferenceBridge</N><V>%BWNWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.X_NetServices.</N>
    <P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
    <P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
    <P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
    <P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
    <P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
    <P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
    <P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
    <P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
    <P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.5.X_NetServices.Dir.</N>
    <P><N>URL</N><V></V></P>
    <P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP6 Service Profile ***** -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.6.</N>
    <P><N>X_DisplayLabel</N><V>%BWCLID-6%</V></P>
    <P><N>X_DisplayNumber</N><V>%BWEXTENSION-6%</V></P>
    <P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
    <P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>
</O>
<!-- ***** SP6 Service SIP Credential ***** -->
<O>
    <N>VoiceService.1.VoiceProfile.1.Line.6.SIP.</N>
    <P><N>AuthUserName</N><V>%BWAUTHUSER-6%</V></P>
    <P><N>AuthPassword</N><V>%BWAUTHPASSWORD-6%</V></P>

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<P><N>URI</N><V>%BWLINEPORT-6%</V></P>
<P><N>X_MyExtension</N><V>%BWEXTENSION-6%</V></P>
<P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
<P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
<P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
<P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.6.CallingFeatures.</N>
  <P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
  <P><N>X_ConferenceBridge</N><V>%BWNETWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.6.X_NetServices.</N>
  <P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
  <P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
  <P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
  <P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
  <P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
  <P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
  <P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
  <P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
  <P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.6.X_NetServices.Dir.</N>
  <P><N>URL</N><V></V></P>
  <P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP7 Service Profile ***** -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.</N>
  <P><N>X_DisplayLabel</N><V>%BWCLID-7%</V></P>
  <P><N>X_DisplayNumber</N><V>%BWEXTENSION-7%</V></P>
  <P><N>X_InboundCallRoute</N><V X_UseDefault="Yes" /></P>
  <P><N>X_ServProvProfile</N><V X_UseDefault="Yes" /></P>
</O>
<!-- ***** SP7 Service SIP Credential ***** -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.SIP.</N>
  <P><N>AuthUserName</N><V>%BWAUTHUSER-7%</V></P>
  <P><N>AuthPassword</N><V>%BWAUTHPASSWORD-7%</V></P>
  <P><N>URI</N><V>%BWLINEPORT-7%</V></P>
  <P><N>X_MyExtension</N><V>%BWEXTENSION-7%</V></P>
  <P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
  <P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
  <P><N>X_ContactUserID</N><V X_UseDefault="Yes" /></P>
  <P><N>X_EnforceRequestUserID</N><V X_UseDefault="Yes" /></P>
  <P><N>X_ShareLine</N><V X_UseDefault="Yes" /></P>
  <P><N>X_ShareLineBargeIn</N><V X_UseDefault="Yes" /></P>
</O>
<!-- Network Service -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.CallingFeatures.</N>
  <P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
  <P><N>X_ConferenceBridge</N><V>%BWNETWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.X_NetServices.</N>

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<P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
<P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
<P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
<P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
<P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
<P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
<P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
<P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
<P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.7.X_NetServices.Dir.</N>
  <P><N>URL</N><V></V></P>
  <P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>

<!-- ***** SP8 Service Profile ***** -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.</N>
  <P><N>X_DisplayLabel</N><V>%BWCLID-8%</V></P>
  <P><N>X_DisplayNumber</N><V>%BWEXTENSION-8%</V></P>
  <P><N>X_InboundCallRoute</N><V>X_UseDefault="Yes" /></P>
  <P><N>X_ServProvProfile</N><V>X_UseDefault="Yes" /></P>
</O>

<!-- ***** SP8 Service SIP Credential ***** -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.SIP.</N>
  <P><N>AuthUserName</N><V>%BWAUTHUSER-8%</V></P>
  <P><N>AuthPassword</N><V>%BWAUTHPASSWORD-8%</V></P>
  <P><N>URI</N><V>%BWLINEPORT-8%</V></P>
  <P><N>X_MyExtension</N><V>%BWEXTENSION-8%</V></P>
  <P><N>X_XsiUserName</N><V>%BWLOGIN-ID-1%</V></P>
  <P><N>X_XsiPassword</N><V>%BWAUTHPASSWORD-1%</V></P>
  <P><N>X_ContactUserID</N><V>X_UseDefault="Yes" /></P>
  <P><N>X_EnforceRequestUserID</N><V>X_UseDefault="Yes" /></P>
  <P><N>X_ShareLine</N><V>X_UseDefault="Yes" /></P>
  <P><N>X_ShareLineBargeIn</N><V>X_UseDefault="Yes" /></P>
</O>

<!-- Network Service -->
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.CallingFeatures.</N>
  <P><N>X_ASFeatureEventSubscribe</N><V>%ASFEATURE%</V></P>
  <P><N>X_ConferenceBridge</N><V>%BWNETWORK-CONFERENCE-SIPURI-1%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.X_NetServices.</N>
  <P><N>CallPark</N><V>%NETSERV_CALLPARK%</V></P>
  <P><N>CallParkStatus</N><V>%NETSERV_CALLPARK_STATUS_ENABLE%</V></P>
  <P><N>CallParkExtensions</N><V>%NETSERV_CALLPARK_EXT%</V></P>
  <P><N>CallPickup</N><V>%NETSERV_CALLPICKUP%</V></P>
  <P><N>CallFowardAlways</N><V>%NETSERV_CFWD_ALWAYS%</V></P>
  <P><N>CallFowardBusy</N><V>%NETSERV_CFWD_BUSY%</V></P>
  <P><N>CallFowardNoAnswer</N><V>%NETSERV_CFWD_NOANSWER%</V></P>
  <P><N>Directory</N><V>%NETSERV_DIRECTORY%</V></P>
  <P><N>DoNotDisturb</N><V>%NETSERV_DND%</V></P>
</O>
<O>
  <N>VoiceService.1.VoiceProfile.1.Line.8.X_NetServices.Dir.</N>
  <P><N>URL</N><V></V></P>
  <P><N>DirectoryType</N><V>%BSFT_DIR_TYPE%</V></P>
</O>
</ParameterList>

```

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