

Polycom® UC Software 5.8.2

Applies to Polycom VVX Business Media Phones, Polycom VVX Business IP Phones, and Polycom SoundStructure VoIP Interface

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UC Software 5.8.2 Support

Polycom UC Software 5.8.2 supports the following Polycom endpoints.



Support for Lync 2010 is limited to testing of basic call scenarios. Microsoft support of Lync and Skype for Business is documented on Microsoft's website. Microsoft does not currently support IP phones on Lync 2010. For information, see [IP Phones](#) on Microsoft Support.

Phone Support

<i>Phone Model</i>	<i>Skype for Business On-Premises</i>	<i>Skype for Business Online</i>	<i>Open SIP</i>
VVX 101 business media phone	No	No	Yes
VVX 201 business media phone	Yes	Yes	Yes
VVX 300/301/310/311 business media phones	Yes	Yes	Yes
VVX 400/401/410/411 business media phones	Yes	Yes	Yes
VVX 500/501 business media phones	Yes	Yes	Yes
VVX 600/601 business media phones	Yes	Yes	Yes
VVX 1500 business media phone	No	No	Yes
VVX 150 business IP phone	No	No	Yes
VVX 250 business IP phone	Yes	No	Yes
VVX 350 business IP phone	Yes	No	Yes
VVX 450 business IP phone	Yes	No	Yes
VVX D60 Wireless Handset and Base Station	No	No	Yes
SoundStructure VoIP Interface phone	Yes	Yes	Yes

Polycom UC Software 5.8.2 supports the following Polycom accessories.

Accessories Support

<i>Accessories</i>	<i>Skype for Business</i>	<i>Open SIP</i>
Polycom® EagleEye™ Mini Camera	Yes	Yes
Polycom® VVX® Camera	No	Yes
Polycom® VVX® EM 50 Expansion Module	Yes	Yes
Polycom® VVX® Color Expansion Module	Yes	Yes
Polycom® VVX® Expansion Module	No	Yes

What's New in UC Software 5.8.2

Polycom UC Software 5.8.2 includes the features and functionality of previous releases and includes the following new features:

- [Introducing the Polycom VVX EM 50 Expansion Module](#)
- [Configuration File Enhancements](#)

Introducing the Polycom VVX EM 50 Expansion Module

The VVX EM 50 expansion module is a USB expansion module supported only on VVX 450 business IP phones with UC Software 5.8.2 or later.

Users can connect up to two expansion modules to the side USB port on VVX 450 business IP phones. The expansion modules include 30 line keys and three pages for a total of 90 lines on each expansion module. With two expansion modules connected to a VVX 450 phone, the phone has a total of 192 lines.

Configuration File Enhancements

The following table lists configuration file enhancements that include new or changed parameters for the Polycom UC Software 5.8.2 release. For more information on using configuration parameters to enable or disable features, see the latest *Polycom UC Software Administrator Guide* for your release, available on [Latest Polycom UC Software Release](#).

Configuration File Enhancements for UC Software 5.8.2

<i>Template</i>	<i>Parameter</i>	<i>Permitted Values</i>	<i>Change Causes Restart or Reboot</i>
reg-advanced.cfg	voIpProt.SIP.blaGlareHonorRetryAfter	<p>Controls the Retry mechanism.</p> <p>1 (default) – The phone honors the Retry-after header on glare and sends NOTIFY with the same state and line-id after the requested time interval.</p> <p>0 – The phone ignores the Retry-after header on glare and immediately sends NOTIFY with the next available line-id.</p>	No
features.cfg	attendant.behaviors.automata.pickupOnBusy	<p>Set to allow an automata resource (static BLF) pickup on a busy BLF resource.</p> <p>1 (default)</p> <p>0</p>	No
video.cfg	video.callRate	<p>The default call rate (in kbps) to use when initially negotiating bandwidth for a video call.</p> <p>512 (default) –The overlay does not time out.</p> <p>2048 (default for VVX 501/601)</p> <p>128 – 2048</p> <p>128 – 4096 for VVX 501/601</p> <p>For VVX 501 and VVX 601 phones with a connected Polycom EagleEye Mini USB camera, the permitted values are 128 - 4096, and the default is 4096.</p>	No
video.cfg	video.maxCallRate	<p>Sets the maximum call rate that the users can select. The value set on the phone cannot exceed this value. If video.callRate exceeds this value, this parameter overrides video.callRate and this value is used as the maximum.</p> <p>768 (default)</p> <p>2048 (default for VVX 501/601)</p> <p>128 - 2048</p>	

Hardware Limitations

The following sections detail hardware limitations when using the Polycom VVX EM 50 expansion module with a VVX 450 business IP phone.

Power Management

For improved power management, use the corresponding VVX 450 power supply and connect it to the phone instead of relying on PoE to power the phone and two expansion modules.

External USB Cable Connection

VVX 450 phones cannot power expansion modules connected to the phone with an external USB cable. In order for the phone to properly power the expansion module, the expansion module must be connected directly to the phone, and the second expansion module must be connected directly to the first expansion module.

Security Updates

Please refer to the [Polycom Security Center](#) for information about known and resolved security vulnerabilities.

Install

Consider the following information when installing or updating to Polycom UC Software 5.8.2:

- BToE 3.8.0 is a must for use with UC Software 5.8.1 or later.
- Before updating your VVX 1500 phone to UC Software 5.8.2, make sure that the phone is updated to BootBlock 3.0.4. For more information, see [Technical Bulletin 695: Upgrading the Polycom VVX 1500 Business Media Phone to UC Software 5.2.0](#).

Download the Distribution Files

To download UC Software 5.8.2, you can choose the combined UC Software package or the split UC Software package, both in ZIP file format. The combined version contains all files for all phone models. The split software package is smaller, downloads more quickly, and contains sip.ld files for each phone model, enabling you to choose provisioning software for your phone model and maintain software versions for each model in the same root directory.

For general use, Polycom recommends using the split resource file that corresponds to the phone models for your deployment. To match the correct UC software resource file to your phone model, see the table [Understand the Combined ZIP and Split ZIP Files](#). If you are provisioning your phones centrally using configuration files, download the corresponding resource file and extract the configuration files to the provisioning server, maintaining the folder hierarchy in the ZIP file.

The current build ID for the sip.ld and resource files is **UCS 5.8.2.4732 rts68**.

Understand the Combined and Split ZIP Files

To understand the files distributed in the combined ZIP file, refer to the following table.

Understand the Combined and Split ZIP Files

<i>Distributed Files</i>	<i>File Purpose and Application</i>	<i>Combined</i>	<i>Split</i>
3111-40250-001.sip.ld	SIP application executable for VVX 101 business media phone	x	✓
3111-40450-001.sip.ld	SIP application executable for VVX 201 business media phone	x	✓
3111-46135-002.sip.ld	SIP application executable for VVX 300 business media phone	x	✓
3111-48300-001.sip.ld	SIP application executable for VVX 301 business media phone	x	✓
3111-46161-001.sip.ld	SIP application executable for VVX 310 business media phone	x	✓
3111-48350-001.sip.ld	SIP application executable for VVX 311 business media phone	x	✓
3111-46157-002.sip.ld	SIP application executable for VVX 400 business media phone	x	✓
3111-48400-001.sip.ld	SIP application executable for VVX 401 business media phone	x	✓
3111-46162-001.sip.ld	SIP application executable for VVX 410 business media phone	x	✓
3111-48450-001.sip.ld	SIP application executable for VVX 411 business media phone	x	✓
3111-44500-001.sip.ld	SIP application executable for VVX 500 business media phone	x	✓
3111-48500-001.sip	SIP application executable for VVX 501 business media phone	x	✓
3111-44600-001.sip.ld	SIP application executable for VVX 600 business media phone	x	✓
3111-48600-001.sip	SIP application executable for VVX 601 business media phone	x	✓
2345-17960-001.sip.ld	SIP application executable for VVX 1500 business media phone	x	✓

Distributed Files	File Purpose and Application	Combined	Split
3111-48810-001.sip.ld	SIP application executable for VVX 150 business IP phone	x	✓
3111-48820-001.sip.ld	SIP application executable for VVX 250 business IP phone	x	✓
3111-48830-001.sip.ld	SIP application executable for VVX 350 business IP phone	x	✓
3111-48840-001.sip.ld	SIP application executable for VVX 450 business IP phone	x	✓
3111-33215-001.sip.ld	SIP application executable for SoundStructure VoIP Interface phone	x	✓
3111-17823-001.dect.ld	SIP application executable for VVX D60 Wireless Handset and Base Station	x	✓
sip.ld	Concatenated SIP application executable.	✓	x
dect.ver	Text file detailing build-identification(s) for the VVX D60.	✓	✓
sip.ver	Text file detailing build-identification(s) for the release.	✓	✓
000000000000.cfg	Master configuration template file.	✓	✓
000000000000-directory~.xml	Local contact directory template file. To apply for each phone, replace the (zeroes) with the MAC address of the phone and remove the ~ (tilde) from the file name.	✓	✓
applications.cfg	Configuration parameters for microbrowser and browser applications.	✓	✓
device.cfg	Configuration parameters for basic device configuration.	✓	✓
features.cfg	Configuration parameters for telephony features.	✓	✓
firewall-nat.cfg	Contains configuration parameters for telephony features.	✓	✓
H323.cfg	Configuration parameters for the H.323 signaling protocol.	✓	✓
lync.cfg	Contains Lync specific configuration parameters.	✓	✓
pstn.cfg	Contains parameters for PSTN use.	✓	✓

<i>Distributed Files</i>	<i>File Purpose and Application</i>	<i>Combined</i>	<i>Split</i>
reg-advanced.cfg	Contains configuration parameters for the line and call registration and advanced phone feature settings.	✓	✓
reg-basic.cfg	Configuration parameters for line and call registration and basic phone settings.	✓	✓
region.cfg	Configuration parameters for regional and localization settings such as time and date and language.	✓	✓
sip-basic.cfg	Configuration parameters for the VoIP server and softswitch registration.	✓	✓
sip-interop.cfg	Configuration parameters for the VoIP server, softswitch registration, and interoperability configuration.	✓	✓
site.cfg	Configuration parameters that are set for each site.	✓	✓
video.cfg	Configuration parameters for video connectivity.	✓	✓
video-integration.cfg	Configuration parameters for Polycom® SoundStation® IP 7000 conference phone and Polycom® HDX® system integration.	✓	✓
Welcome.wav	Startup welcome sound effect.	✓	✓
LoudRing.wav	Sample loud ringer sound effect.	✓	✓
Polycom-hold.wav	Sample ringer sound effect.	✓	✓
Warble.wav	Sample ringer sound effect.	✓	✓
polycomConfig.xsd	Master configuration file that contains the parameters and its values.	✓	✓

Version History

This following table lists the version history of UC Software 5.8.

Version History

<i>Release</i>	<i>Release Date</i>	<i>Features</i>
5.8.2	November 2018	<p>This release includes important field fixes and support for the following features:</p> <ul style="list-style-type: none"> • Polycom VVX EM 50 Expansion Module support • Important field fixes

<i>Release</i>	<i>Release Date</i>	<i>Features</i>
5.8.1	September 2018	<p>This release includes important field fixes and support for following features:</p> <ul style="list-style-type: none"> • Polycom EagleEye Mini Camera Support • Forward Error Correction • Simulcast Video • Centralized Conference Control Protocol (CCCP) Conference View Support • Quality of Service (QoS) for Skype for Business Video Calls • Toggling Between Audio-only or Audio-Video Calls
5.8.0	June 2018	<p>This release includes support for the following features:</p> <ul style="list-style-type: none"> • Introducing Polycom VVX Business IP Phones • Open SIP Enhancements <ul style="list-style-type: none"> ➢ Enhanced IPv4 ICMP Management ➢ Wireless Network Connectivity ➢ Support for REST API ➢ Uploading Logs to a USB Flash Drive ➢ uaCSTA Lines ➢ Enhancements to Check Sync Event ➢ Early Media Call Handling Support ➢ Voice Quality Monitoring Support for the OPUS Codec ➢ BroadSoft Aggregated Self-Presence • Skype for Business Enhancements <ul style="list-style-type: none"> ➢ Hybrid Line Registration ➢ Support for PSTN Gateway on Failover ➢ Reverse Name Lookup

Language Support

The VVX phones user interface include native support for the following languages:

- Arabic, UAE
- Chinese, Traditional
- Chinese, Simplified
- Danish, Denmark
- Dutch, Netherlands
- English, Canada
- English, United Kingdom
- English, United States

- French, Canada
- French, France
- German, Germany
- Italian, Italy
- Japanese, Japan
- Korean, Korea
- Norwegian, Norway
- Polish, Poland
- Portuguese, Brazil
- Russian, Russia
- Slovenian, Slovenia
- Spanish, Spain
- Swedish, Sweden

Resolved Issues

The following table lists the resolved issues for this release.

Resolved Issues

<i>Issue ID</i>	<i>Release Found In</i>	<i>Description</i>
EN-96771	UC Software 5.8.0	The VVX phone does not pick up the busy lamp field (BLF) incoming call when the line key is pressed while the phone is off-hook.
EN-98152	UC Software 5.6.1	In certain environments, the VVX business media phone is not able to retrieve the parked call using the BLF line key.
EN-99248	UC Software 5.7.0	Audio quality is bad when using the handset.
EN-99563	UC Software 5.5.2	When you configure the Busy Lamp Field feature on the VVX business media phones and search for a directory via the directory soft-key, the phone returns to the Home screen.
EN-100101	UC Software 5.8.0	While using handsfree, headset or lifting handset to initiate a call, the idle display screensaver continues to stay on VVX business IP phone's screen.
EN-101056	UC Software 5.7.2	The VVX business media phone web UI help text for the <code>msg.bypassInstantMessage</code> parameter displays incorrect information.
EN-101083	UC Software 5.7.2	Removed <code>up.onHookDialingEnabled</code> parameter from the code as this parameter is applicable only for Spectralink wireless phones.

<i>Issue ID</i>	<i>Release Found In</i>	<i>Description</i>
EN-101376	UC Software 5.8.0	VVX phones fail to open the Web Configuration Utility in the browser in Chinese due to an insufficient size of the buffer to hold the Chinese Language file. The buffer size was increased to 256MB to hold large files.
EN-101383	UC Software 5.7.0	When you enable the Device lock feature for the guest user, the phone asks to set a PIN lock.
EN-101930	UC Software 5.8.0	The SRTP status for a call obtained using REST API <code>/api/v1/webCallControl/callStatus</code> is incorrect or missing.
EN-103223	UC Software 5.8.0	The VVX phones were using TLS version 1.0, which was causing a failed connection with TLS version 1.2.
EN-103991	UC Software 5.6.0, UC Software 5.61	When entering the PIN code to a conference bridge, some digit plays a long tone as if it gets stuck.
EN-104208	UC Software 5.8.2	No action occurs when a user long-presses the page key on the expansion module. Short press of page key is used to switch between pages.
EN-104339	UC Software 5.8.0	The phone crashed during a reboot.
EN-104641	UC Software 5.5.1	VVX phones fail to get an IP address when they receive two server identifiers (Option 54) in a DHCP offer.
EN-104743	UC Software 5.6.2	A MADN call is answered on the headset when a user tries to pick up the held MADN call on a remote, shared device using the handset.
EN-104783	UC Software 5.8.0	VVX business media phones don't send any error response when the phone is in an idle state and receives an INVITE with replace header.
EN-105017	UC Software 5.8.2	When a flexible line key (FLK) contact is removed from a line on the VVX EM 50 expansion module, the page refreshes on the expansion module.
EN-105252	UC Software 5.5.0, UC Software 5.6.0, UC Software 5.7.0	After a PTT/Group Paging call, active call audio is split between the speaker and handset when the parameter <code>feature.persistentMute.enabled</code> is set to "1".
EN-105354	UC Software 5.8.0	The VVX phone does not send events in response to the "MonitorStart" command.
EN-106734	UC Software 5.7.0	Intermittently, a VVX phone does not register with the backup server after an outage.
EN-107289	UC Software 5.8.1	Some calls on VVX business media phones display a non-emergency call as an emergency call in a GENBAND environment.
EN-107376	UC Software 5.7.2	In a Skype for Business environment, the description is missing in Field Help for the <code>server.log.setting.enabled</code> parameter.

<i>Issue ID</i>	<i>Release Found In</i>	<i>Description</i>
EN-107656 EN-109370 EN-109967	UC Software 5.8.0	VVX phones failed to accept the finalized peer-reflexive ICE candidates published by the far end.
EN-108122	UC Software 5.8.0	The VVX expansion modules do not refresh the speed dial list after a favorite is added or removed from the phone keys.
EN-108275	UC Software 5.8.0	VVX phones are freezing and crashing after users press the Group softkey in a Group Call Pickup.
EN-108931	UC Software 5.8.1	VVX phones are freezing and crashing after users press the Group softkey in a Group Call Pickup.
EN-109131	UC Software 5.8.0	VVX phones are freezing and crashing after users press the Group softkey in a Group Call Pickup.
EN-109392	UC Software 5.8.2	After connecting the VVX EM 50 expansion module to a VVX 450 phone, the user needs to restart or reboot the phone. Power off the phone before connecting the expansion module.
EN-109712	UC Software 5.6.0	Polycom terminates NOTIFY line seize BLA dialog event after it gets a 500-internal error with a retry-after 3 seconds from UAS. The parameter <code>voIpProt.SIP.blaGlareHonorRetryAfter</code> was introduced to control this issue.
EN-110931	UC Software 5.8.0	Do not use basic authentication on VVX phones due to security issues.
EN-111077	UC Software 5.8.0	A 3-second timer is applied to 911 calls on VVX phones when "[2-9]11" is not at the beginning of the digit map.

Known Issues

The following table lists known issues in this release.

Known Issues

<i>Category</i>	<i>Issue ID</i>	<i>Description</i>	<i>Workaround</i>
Hardware	HWE-742	An image is burned into the background of the screen on expansion modules that remain on for a week or longer.	None

Updates to Previous Software Releases

This section describes the new features and enhancements to previous UC Software releases.

What's New in Polycom UC Software 5.8.1

Polycom Unified Communications (UC) Software 5.8.1 is a release for Open SIP and Skype for Business deployments. These release notes provide important information on software updates, phone features, and known issues.

New Features and Enhancements

Polycom UC Software 5.8.1 includes the following new features and enhancements.

When BToE is enabled and the video-enabled phone is paired to the Skype for Business client on your computer, the preference for transmitting and receiving video streams is given to Skype for Business client. The preference is given to VVX phones only when the phone unpairs with the Skype for Business client. You can place all Skype for Business related calls from VVX phones as audio-only irrespective of the call mode selected on the phone. However, users can choose to enable video from the paired Skype for Business client.

Polycom EagleEye Mini Camera Support

VVX 501 and 601 business media phones support the Polycom EagleEye Mini USB camera with all the features and capabilities supported with the Polycom VVX camera.

VVX 501 and VVX 601 business media phones with a connected EagleEye Mini camera support the following features:

- Video stream transmissions up to 1080p with a maximum bit rate of 4 Mbps for AVC calls.
- Microsoft H.264 UC video codec for Skype for Business peer-to-peer video calls and video conference calls.
- Forward Error Correction (FEC) with the Microsoft H.264 UC video codec.
- Simulcast video streams with the Microsoft H.264 UC video codec.
- CCCP video conference calls.
- Quality of Service (QoS) for Skype for Business video calls. The following lists the video and video codec parameters:
 - `video.enable`
 - `video.codecPref.XH264UC`

For more information on configuration details, see Polycom UC Software with Skype for Business - Deployment Guide on Polycom Support.

Forward Error Correction

Polycom phones support Forward Error Correction (FEC) DV0 and DV1 with Skype for Business Server 2015, Skype for Business 2015 client, and Lync 2013 environments for H.264 SVC. The scheme introduces recovery packets on the transmitter which recover lost video packets on the receiver.

FEC performance and quality improvements with this release may vary depending on network conditions.

Use the following parameter to set the FEC codec priority:

- `video.codecPref.XUlpFecUC`

For more information on configuration details, see Polycom UC Software with Skype for Business - Deployment Guide on Polycom Support.

Simulcast Video

Polycom phones registered to Skype for Business can simultaneously send a low resolution video stream and a second higher-resolution video stream to conference participants in a Skype for Business AVMCU meeting. Simulcast is enabled by default.

Skype for Business AVMCU-based video meetings are driven by endpoint requests to receive video, which is called a video source request (VSR). The VSR specifies the resolution (among other constraints) and the participant(s) whose video the endpoint would like to display. The requested resolution in Skype for Business client video calls is based on the size of the video window and new VSRs are sent when the size of the window changes.

Centralized Conference Control Protocol (CCCP) Conference View Support

With the support of Polycom EagleEye Mini USB camera, the VVX 501 and 601 business media phones support the Centralized Conference Control Protocol (CCCP) Skype for Business conference view during a video call.

You can configure the phone allowing users to control the Skype for Business conference view during a video call. Users can set the conference view from Conference Settings menu.

Use the following parameter to configure the Skype for Business conference view settings on the phone:

- `video.CCCPView`

For more information on configuration details, see Polycom UC Software with Skype for Business - Deployment Guide on [Polycom Support](#).

Quality of Service (QoS) for Skype for Business Video Calls

With the release and support of the Polycom EagleEye Mini USB camera, the VVX 501 and 601 business media phones support QoS of Skype for Business video calls. You can configure VVX 501 and 601 phones to receive Differentiated Services Code Point (DSCP) for audio and video calls.

You can configure the phones to support QoS of Skype for Business video calls using the following parameters:

- `qos.ip.rtp.dscp`

- `qos.ip.rtp.video.dscp`

For more information on configuration details, see Polycom UC Software with Skype for Business - Deployment Guide on [Polycom Support](#).

Toggleing Between Audio-only or Audio-Video Calls

You can enable users to toggle between audio-only and audio-video calls.

When this feature is enabled on the video-enabled business media phones, a soft key displays to enable users to toggle calls between audio-only or audio-video. This feature also applies to audio and video conference calls in Skype for Business environments.

When the phone is registered, you can:

- Use `video.callMode.default` to begin calls as audio-video or audio only. By default, calls begin as audio. After a video call has ended, the phone returns to audio-only.
- If you set this parameter to audio, users can choose to add video to the call.
- Use `feature.audioVideoToggle.enabled` to enable users to choose audio-video before placing a call.
- If set to audio-only, users must choose to use audio-video before the call begins. After the video call ends, the phone returns to audio-only.
- Use `audioVideoToggle.callMode.persistent` to maintain or reset the call mode set by users.

For more information on configuration details, see Polycom UC Software with Skype for Business - Deployment Guide on Polycom Support.

Configuration File Enhancements

The following table lists configuration file enhancements that include new or changed parameters for Polycom UC Software Skype for Business profile.

Configuration File Enhancements for UC Software 5.8.1

<i>Template</i>	<i>Parameter</i>	<i>Permitted Values</i>	<i>Change Causes Restart or Reboot</i>
video.cfg	<code>video.enable</code>	To ensure the USB port is disabled on when you set <code>feature.usbTop.power.enabled</code> to 0, you must also disable this parameter. 1 (default) - Enables video in outgoing and incoming calls. 0 - Disables video.	Yes

<i>Template</i>	<i>Parameter</i>	<i>Permitted Values</i>	<i>Change Causes Restart or Reboot</i>
video.cfg	video.allowWithSource	Restricts sending video codec negotiation in Session Description Protocol (SDP) when camera is not connected. 1 (default) 0 This parameter applies only for VVX 501 and VVX 601 business media phones.	No

What's New in Polycom UC Software 5.8.0

Polycom Unified Communications (UC) Software 5.8.0 is a release for Open SIP and Skype for Business deployments. These release notes provide important information on software updates, phone features, and known issues.

Polycom UC Software 5.8.0 includes the following new features and enhancements:

- Introducing Polycom VVX Business IP Phones
- Open SIP Enhancements
- Skype for Business Enhancements

Introducing Polycom VVX Business IP Phones

Polycom introduces the following Polycom® VVX® business IP phones:

- VVX 150
- VVX 250
- VVX 350
- VVX 450

These Polycom VVX business IP phones include all the features and functionalities that are currently available for VVX 201, 300 series, and 400 series business media phones, including support for Polycom VVX D60 wireless handsets. These VVX business IP phones support UC Software 5.8.0 and later, and previous versions of UC Software are not supported.

On-Premise Skype for Business Support

The following table shows the Polycom VVX business IP phones with UC Software 5.8.0 that are supported on Skype for Business Server On-Premise.

Microsoft Server Support on VVX Business IP Phones

Phone Model	Skype for Business On-Premises	Microsoft Exchange (On-Premise or Online)	Skype for Business Office 365
VVX 150 business IP phone	No	No	No
VVX 250 business IP phone	Yes	Yes	No
VVX 350 business IP phone	Yes	Yes	No
VVX 450 business IP phone	Yes	Yes	No

Open SIP Enhancements

Enhanced IPv4 ICMP Management

You can configure your phone to ignore Internet Control Message Protocol (ICMP) redirect requests for an alternate path from the router or gateway. Use the following parameter to configure the Enhanced IPv4 ICMP Management feature:

- `device.icmp.ipv4IcmpIgnoreRedirect`

For configuration details, see the *Polycom UC Software Administrator Guide* on [Polycom Support](#).

Wireless Network Connectivity

Polycom UC Software supports wireless network connectivity using the Polycom® Wi-Fi wireless network adapter (previously known as the 'Obihai Technology wireless adapter' or 'OBiWiFi5G') with all VVX phones except VVX 1500 business media phone. You cannot use Wi-Fi and ethernet simultaneously to connect your VVX phones to the network. Enabling Wi-Fi automatically disables the ethernet port. Polycom UC software supports different wireless network security profiles like Personal and Enterprise mode for better security. VVX phones support EAP-PEAP/MSCHApv2, EAP-FAST and EAP-TLS methods for Enterprise security mode. VVX phones uses 2.4GHz or 5GHz default radio bands.

You can use the following parameters to configure Wireless Network Connectivity: Enable Wi-Fi:

- `device.wifi.enabled`

Wi-Fi Network IP Settings:

- `device.wifi.dhcpEnabled`
- `device.wifi.ipAddress`
- `device.wifi.subnetMask`
- `device.wifi.ipGateway`

Wi-Fi Network Settings:

- `device.wifi.ssid`
- `device.wifi.securityMode`
- `device.wifi.radio.regulatoryDomain`

- `device.wifi.radio.band2_4GHz.enable`
- `device.wifi.radio.band5GHz.enable`

Personal Security (PSK) Wi-Fi Network Settings:

- `device.wifi.psk.keyType`
- `device.wifi.psk.key`

Enterprise based (WPA2-Enterprise) Wi-Fi Network Settings:

- `device.wifi.wpa2Ent.method`
- `device.wifi.wpa2Ent.user`
- `device.wifi.wpa2Ent.password`
- `device.wifi.wpa2Ent.anonid`
- `device.wifi.wpa2Ent.eapFast.inBandProv`

For configuration details, see the *Polycom UC Software Administrator Guide* on [Polycom Support](#).

REST API

VVX phones support REST API feature that enables you to execute certain functions and retrieve information using APIs. You can configure REST API feature using following parameters:

- `apps.restapi.enabled`
- `log.level.change.restapi`

For more information on REST API support and for configuration details, see the *Polycom UC Software Administrator Guide* and on [Polycom Support](#) and *REST API Reference Manual for Polycom VVX Business Media Phones and Polycom Business IP Phones* at [Polycom Engineering Advisories and Technical Notifications](#).

Uploading Logs to USB Storage Device

Polycom UC Software allows VVX phones to copy application and boot logs to a USB storage device connected to the phone. In addition, you can configure your phone to copy logs periodically or when the file size reaches the threshold limit.

The following VVX phones support this feature:

- VVX 401 business media phones
- VVX 411 business media phones
- VVX 500 series business media phones
- VVX 600 series business media phones
- VVX 250 business IP phones
- VVX 350 business IP phones
- VVX 450 business IP phones

You can configure the USB Logging feature using the following parameter:

- `feature.usbLogging.enabled`

For more information on USB Logging feature and for configuration details, see the *Polycom UC Software Administrator Guide* on [Polycom Support](#).

uaCSTA Lines

When you configure Polycom phones to use user agent Computer Supported Telecommunications Applications (uaCSTA) with a CSTA server, you can remotely control the phone and access phone services using a computer telephony integration (CTI) application on your computer.

The Polycom VVX 101 and 1500 business media phones do not support uaCSTA.

You can configure one CSTA line on each phone. To ensure CSTA works correctly, Polycom recommends that you configure the CSTA line x as the last among all registered lines on the phone.

Polycom phones support the Minimum and Basic profiles compliant with “ECMA TR/087: Using CSTA for SIP Phone User Agents (uaCSTA).” For information, see [ECMA international](#). Polycom phones do not support the Network Reached event.

You can configure CSTA lines using the following parameters:

- `reg.x.csta`
- `reg.x.server.y.specialInterop`
- `voIpProt.SIP.csta`

For a list of all supported CSTA services and events and for configuration details, see the *Polycom UC Software Administrator Guide* on [Polycom Support](#).

Enhancements to Check Sync Event

When a check sync event's `NOTIFY` message is received from the server even though the user is not logged-in to the phone, you can download the call list by enabling the `voIpProt.SIP.specialEvent.checkSync.downloadCallList` parameter.

Early Media Call Handling Support

Polycom UC Software allows VVX phones to support an early media for call handling when paired with VVX D60 base station.

Voice Quality Monitoring Support for the OPUS Codec

Polycom UC Software now offers partial support for Voice Quality Monitoring metrics when using the OPUS audio codec.

BroadSoft Aggregated Self-Presence

The Broadsoft Self-Presence feature allows you to view the user's aggregated presence received from the BroadSoft Messaging Server (UMS) on the VVX phone rather than displaying the VVX phone's presence.



The following figure shows the user's aggregated presence state on a VVX 600 series business media phone.

Skype for Business Enhancements

Hybrid Line Registration

VVX phones support hybrid line registration feature that allows you to register a Skype for Business server on one line and OpenSIP server on other lines. When you enable this feature, you can configure and register a maximum of three different servers. Use the following parameters to configure Hybrid Line Registration feature:

- `reg.limit`
- `reg.1.mergeServerDigitMapLocally`
- `dialplan.digitmap.lineSwitching.enable`
- `reg.1.urlDialing.enabled`
- `tcpIpApp.port.rtp.lync.audioPortRangeStart`
- `tcpIpApp.port.rtp.lync.videoPortRangeStart`
- `tcpIpApp.port.rtp.lync.audioPortRangeEnd`
- `tcpIpApp.port.rtp.lync.videoPortRangeEnd`

The Polycom VVX 101 business media and VVX 150 business IP phone do not support Hybrid Line Registration.

For more information on Hybrid Line Registration feature and for configuration details, see the *Polycom UC Software with Skype for Business - Deployment Guide* on [Polycom Support](#).

Support for PSTN Gateway on Failover

Polycom UC Software allows your VVX phone to fail over to an alternate PSTN gateway server when the phone gets unregistered due to an outage and the Skype for Business server is not reachable. You can configure the support for PSTN gateway on failover using following parameters:

- `feature.sfbPstnFailover.enabled`
- `reg.x.server.y.pstnServerAuth.userId`
- `reg.x.server.y.pstnServerAuth.password`

For more information on PSTN Gateway on Failover and for configuration details, see the *Polycom UC Software with Skype for Business - Deployment Guide* on [Polycom Support](#).

Reverse Name Lookup

You can configure phones registered with Skype for Business to display incoming caller names, outgoing recipient names, and the source the phone obtains names from.

The phone displays all Skype for Business participant names for the following functions:

- CCCP conference calls
- Local and remote participants for Boss-Admin calls
- Response group calls
- Team calls
- Voicemails
- Placed, Received, and Missed call lists

If the phone cannot match the number of the incoming or outgoing name to a name in your organization, the phone displays the name given in the SIP signaling.

If a user saves a contact in the phone's local contact directory, the call lists display that name regardless of the priority you configure.

All VVX phones support this Skype for Business feature except the following:

- VVX 101 business media phones
- VVX 150 business IP phones

Configure Reverse Name Lookup with the following parameters:

- `up.ml.priority`

For configuration details, see the *Polycom UC Software with Skype for Business - Deployment Guide* on [Polycom Support](#).

Security Updates

Please refer to the [Polycom Security Center](#) for information about known and resolved security vulnerabilities.

The following table contains the security updates in UC Software 5.8.0.

Security Updates

<i>Category</i>	<i>CVE</i>	<i>Description</i>
Security	CVE-2017-13077, CVE-2017-13078, CVE-2017-13079, CVE-2017-13080, CVE-2017-13081.	KRACK: Re-installation of the pairwise encryption key (PTK-TK), group key (GTK), integrity group key (IGTK) in the 4-way handshake and group key (GTK), integrity group key (IGTK) in the group key handshake have been addressed.
Security	CVE-2017-1000250, CVE-2017-1000251	BlueBorne: Linux kernel RCE, Linux Bluetooth stack (BlueZ) information Leak vulnerabilities have been addressed.

Get Help

For more information about installing, configuring, and administering Polycom products, refer to [Polycom Support](#).

For information about Polycom partner solutions, see [Polycom Global Strategic Partner Solutions](#).

The Polycom Community

The [Polycom Community](#) gives you access to the latest developer and support information. Participate in discussion forums to share ideas and solve problems with your colleagues. To register with the Polycom Community, create a Polycom online account. When logged in, you can access Polycom support personnel and participate in developer and support forums to find the latest information on hardware, software, and partner solutions topics.

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