

Avaya one-X[®] Deskphone H.323 Release 3.1.5 Readme

This file is the Readme for the Avaya one-X[®] Deskphone H.323 Release 3.1.5 (H.323 3.1.5) software for the 9610, 9620, 9620C, 9620L, 9630, 9630G, 9640, 9640G, 9650, 9650C and 9670G IP Deskphones. This file describes the contents of the **August 2012** Maintenance Release software distribution package.

H.323 3.1.5 software is supported on the 9610, 9620, 9620C, 9620L, 9630, 9630G, 9640, 9640G, 9650, 9650C and 9670G IP Deskphones. It will not load or operate on any other models.

This Maintenance Release supersedes all previous Avaya one-X[®] Deskphone H.323 Release 3.1 releases. Avaya recommends that all customers upgrade both new and installed IP Deskphones to this version at their earliest convenience.

NOTE: The zip and tar packages were up-issued on 26 September 2012 to address an issue with upgrading to this version of software on the Avaya Utility Server.

Avaya Aura[®] Communication Manager (CM) Compatibility

Avaya one-X[®] Deskphone H.323 Release 3.1.5 is supported on Avaya Aura[®] Communication Manager 5.2.1 and higher. We recommend using the latest Communication Manager release with these models of IP Deskphones. See the "Communication Manager Software & Firmware Compatibility Matrix" at http://support.avaya.com for the supported software/firmware versions of the Media Server, Media Gateway, and circuit packs.

The 9670G is not natively supported on CM. You must administer the 9670G as a 9630.

For more details refer to the H.323 configuration section in the Communication Manager Administration Guide which can be downloaded from http://support.avaya.com.

Avaya IP Office (IPO) Compatibility

Note that the H.323 3.1.5 software may not be included in the latest IP Office Service Pack.

The 9620L/9620C/9630G/9640/9640G/9650/9650C IP Deskphones are supported on IP Office 6.0 or later and IP500 V2 hardware only.

IP Deskphone software is included in the IP Office software download available from <u>http://support.avaya.com</u>.

Please consult the IP Office Technical Bulletin(s) for details on specific IP Office software compatibility and the included version of IP Deskphone software.

Avaya B5800 Branch Gateway (B5800) Compatibility

Note that the H.323 3.1.5 software may not be included in the latest B5800 Service Pack.

The 9620L/9620C/9630G/9640/9640G/9650/9650C IP Deskphones are supported on B5800 6.1 or later.

IP Deskphone software is included in the B5800 software download available from <u>http://support.avaya.com</u>.

Please consult the B5800 Release Note(s) for details on specific B5800 software compatibility and the included version of IP Deskphone software.

H.323 3.1.5 Package Content

The H.323 3.1.5 package contains all the files necessary to upgrade Avaya new or previously installed IP Deskphones to H.323 3.1.5

The following files are included in each package:

- hb96xxua3_1_05_S.bin signed binary for Boot Burner Application for all but 9670G IP Deskphone
- hb9670ua3_1_05_S.bin signed binary for Boot Burner Application for 9670G IP Deskphone
- ha96xxua3_1_05_S.bin signed binary for IP Deskphone Application for all but 9670G IP Deskpone
- ha9670ua3_1_05_S.bin signed binary for IP Deskphone Application for 9670G IP Deskphone
- 96xxupgrade.txt To upgrade to this release, you must change your 96xxupgrade.txt file. The sample upgrade script that is included in this package is generic, in that it will upgrade all existing 9600 phones to this maintenance release. If you have other phones that are using this script for other software upgrades and installations, ensure that you note the changes between the scripts. Make a backup copy of your current upgrade script, and incorporate the binary name changes for this release into your 96xxupgrade.txt file. If you are going to modify your 46xxsettings file, make a backup copy of this file, and incorporate the feature changes for this release.
- Sixteen predefined language files for phone display:
 - mlf_S31_v76_arabic.txt
 - mlf_S31_v76_chinese.txt
 - mlf_S31_v76_dutch.txt
 - mlf_S31_v76_english_large.txt
 - mlf_S31_v76_french_can.txt
 - mlf_S31_v76_french_paris.txt
 - mlf_S31_v76_german.txt
 - o mlf S31 v76 hebrew.txt
 - mlf_S31_v76_italian.txt
 - mlf_S31_v76_japanese.txt
 - mlf_S31_v76_korean.txt
 - mlf_S31_v76_portuguese.txt
 - o mlf_S31_v76_russian.txt
 - mlf_S31_v76_spanish.txt
 - mlf_S31_v76_spanish_latin.txt
 - mlf_S31_v76_template_english.txt

Eight Language and Grammar files for Voice Initiated Dialing (VID) Feature

NOTE - The VID files used with H.323 3.1 software and the VID files used with H.323 6.x software (for 9608/9611G/9621G/9641G IP Deskphones) are different. In a mixed environment, ensure that your 46xxsettings.txt file is configured to provide the correct files for the different models of IP Deskphones.

- o DUN_S20_v3.tar (Dutch).
- ENG_S20_v3.tar (UK English)
- ENU_S20_v3.tar (US English)
- FRF_S20_v3.tar (Parisian French)
- o GED_S20_v3.tar (German)
- o ITI_S20_v3.tar (Italian)
- PTB_S20_v3.tar (Brazilian Portuguese)
- SPE_S20_v3.tar (Spanish)

- av_prca_pem_2033.txt Avaya Product Root CA certificate with an expiration date of 2033.
- release.xml

The signatures in the signatures subdirectory of the .zip distribution packages are only intended to be used by the file server, and the file server that is on the CM 6.x Utility Server is the only file server that currently supports this.

System specific parameters, including new paramaters introduced with this version of software, should be entered into the 46xxsettings.txt file which is available for separate download at <u>http://support.avaya.com</u>

With this release, a new MIB for the 96x0 phones is also being released and is available a separate download at <u>http://support.avaya.com</u>. A new MIB variable **endptMYCERTSUCCESS** has been added to the MIB, to indicate the enrollment status of the phone's identity certificate with a specified CA.

The H.323 3.1.5 package is available in the following versions:

- 96xx-IPT-H323-R3_1_5-092612.zip
- 96xx-IPT-H323-R3_1_5-081012.tar

Important Note for customers that use 802.1x to authenticate phones on their network

Customers running Avaya one-X[®] Deskphone H.323 Release 3.1 SP2 (R3.102S) software who use 802.1x for authenticating their phones on their network, i.e. they have 802.1x Supplicant enabled on their phones, should **NOT** upgrade directly to H.323 3.1.5. Upgrading to H.323 3.1.5 will cause the Supplicant on their phones to be turned OFF, with the result that they will no longer be able to connect to the data network.

Customers running Avaya one-X[®] Deskphone H.323 Release 3.1 SP2 (3.102S) software and use 802.1x for authenticating the phones on their network require a two-step upgrade process:

- Upgrade first to R3.941a, available at: <u>ftp://ftp.avaya.com/incoming/Up1cku9/AvayaT4APP/IPT/96xxPatchesAndSoftware/R3.1SP3xx/96x</u> <u>x-IPT-H323-R3_941-112911.zip</u> This patch contains the contents of H.323 3.1 SP3, but without turning OFF 802.1x Supplicant on the phones, thus avoiding the problem of their phones being disconnected from the network.
- 2. Upgrade next to Release 3.1.5.

Please note, this advisory does **NOT** apply to customers who do not use 802.1x to authenticate phones (i.e. the Supplicant on their phones is turned OFF) but instead use it to authenticate devices connected to the network via the secondary Ethernet port on the phones. Such customers can safely upgrade to H.323 3.1.5.

Enhancements introduced with this Maintenance Release

Visiting User

A "visiting user" is anyone who uses a 9600 Series IP Deskphone in one location (e.g. New York), and intends to register to a call server in some other location (e.g. Paris). Typically, this occurs when a user has travelled from the home location to another location in the organization, but wants to register with the call server back home (perhaps to get the specific administered feature buttons, etc. provided by the home call server).

To implement this feature, the following parameter in the 46xxsettings.txt file is used.

VUMCIPADDSpecifies a list of H.323 call server IP addresses for the Visiting User feature.
Addresses can be in dotted-decimal (IPv4) or DNS name format, separated by
commas without any intervening spaces. The list can contain up to 255 characters.

When this parameter contains one or more IP addresses, the user sees a slight change to the Login screen in that the user is asked to specify a Login Mode of either "Default" or "Visiting User." If the user selects Default, the deskphone uses the MCIPADD parameter value whereas if the user selects Visiting User, the deskphone attempts to register with each IP address in VUMCIPADD simultaneously until it gets a positive response.

Please note the following:

• Visiting User is not supported on the 9670G IP Deskphone.

802.1Q over VPN

With H.323 3.1.4 and below, 802.1Q tagging is not used if an IP Deskphone is operating over a VPN (Virtual Private Network) using the built-in VPN client. In an environment where VPN is used within the enterprise network for security purposes, you may want to use 802.1Q tagging in conjunction with the built-in VPN client. H.323 3.1.5 adds this capability.

To implement this feature, the following parameter in the 46xxsettings.txt file is used.

VPNALLOWTAGS Specifies whether 802.1Q tagging is used when NVVPNMODE is also enabled.

Valid values: 0 (default) – do not use 802.1Q tagging when phone is operating in VPN mode

1 – use 802.1Q tagging when phone is operating in VPN mode

Top Line Readability Improvement

The top line on the screen of the 9620C, 9640, 9640G, and 9650C IP Deskphones has been changed to use a white background with black lettering.

Differentiated Ringing for Internal/External Calls with "Alternative" Ringing.

The "Alternative" ringing patterns were initially introduced in H.323 3.0 and offered the same ringing patterns for both internal and external calls. This was different from the "Classic" ringing patterns which did provide different ringing patterns between internal and external calls. With H.323 3.1.5, both the "Alternative" and "Classic" ringing patters provide different ringing patterns between internal and external calls.

Note: This feature is not supported on the 9670G IP Deskphone.

Unresolved issues in H.323 3.1.5

The following table includes unresolved issues with this release of software.

Customers who are using interim patches must consult with Avaya prior to upgrading to this software to ensure that the content of their patch has been included with this version. Failure to take this precaution could lead to the re-appearance of a previously-resolved issue.

External ID	Internal ID	Patch	Issue Description
1-333138022	H32396X0-4023		9670 ip phone resets when modifying personal labels, if user presses the Back button while the label is being saved.
1-1942850572	H32396X0-3978		9620 VPN cannot establish connection in subnet
	H32396X0-4204		Phones cannot download new Voice Initiated Dialing dictionary files, using HTTPS, if the user changes the Voice Initiated Dialing language.
	H32396X0-4240		Visiting user feature is not supported on the 9670
	H32396X0-4256		9670 Phone sends a malformed GET request to the HTTP server, if the "Refresh" is pressed more than once.
	H32396X0-4311		Phone displays "USB Login not allowed during Guest Login" if it is in Visiting User mode and a USB key is plugged into it, and the phone is rebooted.
	H32396X0-4000	3.950	Backup/restore fail on 96X0 stations using IIS7 with basic authentication Note: A patch addressing this issue comprehensively will be delivered based on 3.1.5. Contact Avaya Support for a date when this patch will be available or to access the patch.
1-1428290389	H32396X0-3983	3.917	DTMF Clipped or Delayed on Rapid Dialing Note: This issue is related to network latency and there is no software fix for it.
1-1267590761	H32396X0-3994	3.919	VPN phone reboots once phones do the re-key every 6 hours Note: This occurs only in the event that the re- key results in the phone's IP Address changing and the phone rebooting in this event, is as per design, therefore there is no software fix for it.
1-3739958340	H32396X0-4379		Weather application on the 9670, may not display certain cities outside the United States, correctly.
	H32396X0-4318		Phones automatically login to the previous user's extension, after a USB login session is ended by rebooting phone and plugging out the USB stick.
	H32396X0-4406		Memory leak when using HTTPS based Backup operation.
1-2260826722	H32396X0-4286		Prevent memory fragmentation by using Best Fit instead of First fit memory allocation algorithm.
1-2260826722	H32396X0-4375	3.959b	Plug a small memory leak on logff/login

1-2260826722	H32396X0-4376	3.959b	Creating memory partitions after phone has logged in, to reduce fragmentation.
	H32396X0-3816	3.920c	Frequent web page pushes to the phone, lead to memory fragmentation and eventual freezing of the phone.
1-3720887172	H32396X0-4409		A missed call does not activate the call log button when 9650 is adminstered as 9650 on CM and SAC is activated
1-3703378577	H32396X0-4395		Phones lose the ability to interact with the default gateway (router). Note: This issue only happens with HP routers whose MAC addresses begin with: 08:2e:5f
1-3775120282	H32396X0-4431		Phone responds with NULL 802.1x Password causing AAA server to lock account
1-3707112274	H32396X0-4284		Phone generate an exception when doing 802.1x using EAP-TLS authentication.
1-3666783247	H32396X0-4268		Call Timer runs continuously even when call is dropped. Note: Only happens with IP Office AND when the Line Appearance label contains a colon (:) character.

Issues resolved with H.323 3.1.5

H.323 3.1.5 provides fixes to issues not resolved in prior releases. This software release is based on H.323 3.1.4 and includes improvements from interim patches.

Customers who are using interim patches must consult with Avaya prior to upgrading to this software to ensure that the content of their patch has been included with this version. Failure to take this precaution could lead to the re-appearance of a previously-resolved issue.

Issues resolved in this release include:

External ID	Internal ID	Patch	Issue Description	
wi00959992 1-2305582659	H32396X0-3967	3.955a	Phone unable to download upgrade and settings files from HTTPS server, when customers use their own security certificates.	
wi00962138	H32396X0-4111	3.953a 3.962a	Weather and Time applications on the 9670G are no functioning.	
wi00968234 1-3277836738	H32396X0-4110	3.951b	9650 R3.1 SP3 is in rolling reboot when a DOMAIN name is provided in DHCP OFFER	
1-3437175059	H32396X0-4107	3.965a	96x0 sending continous DHCP request.	
wi00918324	H32396X0-4089	3.142	Tranmit voice is clipped when far end is loud.	
wi00955293	H32396X0-4055	3.943b	9670 reboots during Bluetooth device discovering, but only if attempt is made to pair phone with a non-headset device.	
1-3371897160	H32396X0-4054	3.960	On the 9670 if a user in a call-pickup group, picks ar incoming call, it is logged as a outgoing instead of an incoming call in the call log.	
wi00970314	H32396X0-4002	3.935	With Enhanced Call pick-up active and Edit Dial option active on the phone, the numbers entered by user during Edit Dialing, get erased, on an incoming call.	
wi00968880	H32396X0-3999	3.946a	Dial tone heard on both SPEAKER & HEADSET, when switching from HEADSET to SPEAKER, after releasing previous call on HEADSET.	
wi00968653 1-1345752092	H32396X0-3997	3.930b	9630G Fails Autonegotiation on PC Port	
wi00968642 1-2192088884	H32396X0-3992	3.946a	Speaker LED is not turning off, no voice heard when swapping from speaker and handset	
wi00968641 1-2236929373	H32396X0-3991	3.943a	Poor Data Performance on 9670G, when PC port is at 1Gbps and LAN port is at 100 Mbps	
wi00920478	H32396X0-3792	3.943a	9670 HTTPS download fails intermittently when downloading upgrade and settings files.	
	H32396X0-4155	3.970	To add new MIB variable MYCERTSUCCESS to check device certificate enrollment status.	
	H32396X0-4153	3.135	When PHNEMERGNUM is set in 46xxsettings file, the third button from IDLEFEATURES does not shift to SoftKey4.	
	H32396X0-4032	3.947a	Bad audio voice with Bluetooth devices on 9670G.	

External ID	Internal ID	Patch	Issue Description	
wi00959992 1-2305582659	H32396X0-3967	3.955a	Phone unable to download upgrade and settings files from HTTPS server, when customers use their own security certificates.	
wi00962138	H32396X0-4111	3.953a 3.962a	Weather and Time applications on the 9670G are not functioning.	
wi00968234 1-3277836738	H32396X0-4110	3.951b	9650 R3.1 SP3 is in rolling reboot when a DOMAIN name is provided in DHCP OFFER	
1-3437175059	H32396X0-4107	3.965a	96x0 sending continous DHCP request.	
	H32396X0-4160	3.175	Font size of the extension and date/time field for 9670G should be 21 pixels.	
	H32396X0-4171	3.161	96XX VPN phone needs to use enrollment 5 year certificate instead of default 2 years	
wi00972980	H32396X0-4031	3.172a	Redirect notification does not work for 96x0 series phone, no half ring	
wi00968652	H32396X0-3996	3.904	Button Labels on Expansion Module are corrupted after upgraded from 3.191a to 3.1SP2	
1-3450769821	H32396X0-4097	3.964a	Changes to SBM Button Label functionality on CM, do not get reflected in backups.	
IPT00053759	H32396X0-4174	3.165	Login fails if the backup file is truncated	
IPT00055487	H32396X0-4176	3.165b	96xx H.323 start sending TCP-Keep Alives at 30 second after network-region parameter change	
	H32396X0-4171	3.161	96xx VPN phone needs to able to enrollment 5 years cert instead of default 2 years cert as same as 46xx VPN 255 load./ Increase the maximum number of certificates that the phone can download.	
	H32396X0-4160	3.175	Font size of the extension date/time field on the 9670 should be 21 pixels (For English language only)	
1-3371897169	H32396X0-4132	3.960	On the 9670 if a user picks a call, it is logged as a	
1-3371897160	H32396X0-4054		outgoing instead of an incoming call in the call log.	
1-3458900434	H32396X0-4131	3.963a	Voice quality issues with 9650 phones	
1-3544629572	H32396X0-4285	3.976a	9620 missed backup up SBMLABELs	
1-3416900522	H32396X0-4102		If phone hasn't downloaded any TRUSTED CERTS, then it will accept HTTPS connection from any server.	
wi00975183 1-3289648764	H32396X0-4043	3.932b	Upgrading 96x0 IP Phones from 3.0 SP2 to 3.1 SP2 or 3.1 SP3 may cause button labels on expansion modules to either change position or disappear altogether	
wi00918392	H32396X0-4233		Quick Login Feature doesn't work with Visiting User	
wi00970635	H32396X0-4005		Phone reboots after conference 4 parties, if RSVP is enabled on one or more of the parties' network regions.	
wi00970652	H32396X0-4009		Phone suspends after dropping a call and pressing Mute CRAFT, if RSVP is enabled in the network region.	
wi00920807	H32396X0-3811		96x0: off setting for AUDIOSTHS is wrong in 3.1.1	
	H32396X0-4305		Phones fail doing backup using HTTPS after loading of WML pages using HTTPS fails.	

External ID	Internal ID	Patch	Issue Description	
wi00959992 1-2305582659	H32396X0-3967	3.955a	Phone unable to download upgrade and settings files from HTTPS server, when customers use their own security certificates.	
wi00962138	H32396X0-4111	3.953a 3.962a	953a Weather and Time applications on the 9670G are no	
wi00968234 1-3277836738	H32396X0-4110	3.951b	9650 R3.1 SP3 is in rolling reboot when a DOMAIN name is provided in DHCP OFFER	
1-3437175059	H32396X0-4107	3.965a	96x0 sending continous DHCP request.	
1-2168706015	H32396X0-4187		96x0 Not friendly to Transfer a call when using SpeedDial button Note: This is an enhancement to improve the user- experience during a Call-Transfer operation using Speed Dial Buttons	
	H32396X0-4247		Button labels are missing while upgrading from 3.1 factory load to 3.1.4	
1-3634574606	H32396X0-4246		Call control softkeys do not work on the 9670	

Issues resolved/needing support from Servers:

The following table contains issues which may appear to be related to the Avaya one-X[®] Deskphone H.323 software but are resolved through changes to the associated servers.

External ID Internal ID	Patch	Issue Description	Server Info.
1-2260826722 H32396X0-4135	3.954a	Phones stuck at login prompt	Contact CM support for the fix to MR
1-3593832942 H32396X0-4225		Change extension not working with UNNAMEDSTAT 0	defsw120141
1-34856666243 H32396X0-4252	3.974a	Picked calls are shown as missed in phone's call-log	Contact CM support for patch # 19736
1-3541098162 H32396X0-4259	3.980	9650 stations cannot register to the LSP.	Contact CM Support for patch fix for MR
1-3475598952 H32396X0-4282	3.980	9650 sets are dropping calls 60-90 seconds after a warm interchange (server -i)	defsw121271, defsw121532
1-3376211165 H32396X0-4042		Repeated login/logout of phones using hot desking and Feature Access Codes, could cause phones to reboot, if Backup/Restore is enabled	Resolved in IPO 8.0
H32396X0-3218		Can not drop conference 4 party by "Drop" softkey	Contact CM Support
H32396X0-4300		Cannot use the 'drop' softkey to drop anyone except one party from a 4 or more party conference	
1-2163689832 H32396X0-3931		VPN issue in 9620 ip phone version 3.1 SP2 (3.102S) while working with Cisco ASA.	Contact Cisco support
wi00947686		Note: This is a Cisco ASA issue, not a Avaya endpoint issue.	

Advisements with H.323 3.1.5 software

Use of Microsoft Internet Information Services (IIS) 7

With IIS7, Microsoft has disallowed unauthenticated PUT requests. This has led to interoperability issues for customers with Avaya one-X[®] H.323 3.x software who are using IIS as their Web server for supporting Backup/Restore functionality. Refer to **PSN003568u** on the Avaya Support Site for further details about this issue. At this point Avaya, recommends that customers use Apache or MV_IPTel as the Web servers for supporting unauthenticated Backup/Restore functionality with Avaya one-X[®] H.323 3.x software.

Similar interoperability issues have also been discovered with using the authenticated Backup/Restore functionality of Avaya one-X[®] H.323 3.x software with IIS7. Refer to the same PSN for further details or contact Avaya Support about expected availability of a patch to address these issues.

Use of HTTPS for Backup/Restore

While Avaya one-X[®] H.323 3.x software supports the use of HTTPS for Backup/Restore of user data including Call Logs, it has been found that there is a significant memory leak that occurs whenever user data is backed up using HTTPS. This is especially relevant for those installations that have Call Log Backups enabled for every call. To prevent this memory leak from affecting the performance of the phones, Avaya recommends that the Timed Call Log Backup feature be used. For details on this feature, refer to the **9600 Series IP Telephones Administrator Guide**

Use of 802.1x authentication with EAP-TLS and a Microsoft RADIUS server

9600-Series IP Deskphones with one-X[®] H.323 3.1.4 or later software will pass their MAC address as the identity when doing 802.1x authentication using EAP-TLS. Microsoft RADIUS servers require that the CN in the certificate of the supplicant match their identity. Therefore administrators should set the MYCERTCN parameter in the settings.txt file to the MAC address of the phone using the \$MACADDR macro. If the MYCERTCN is set to any other value, then 802.1x authentication using EAP-TLS will fail since the Microsoft RADIUS server will reject the identity certificate of the phone.

Support for duplicated ESS servers and proper operation of the 9600-Series IP Deskphones with H.323 3.1 software, during failovers to LSP and after a ESS interchange

The H.323 3.1.5 software has incorporated enhancements to provide seamless failover from Main to ESS servers as well as to LSP's and ESS interchanges in duplicated ESS environments. The proper operation of these enhancement require changes to the corresponding Avaya Aura® Communication Manager. Support for these enhancements on CM 5.2.1, 6.0 and 6.2 will be made available via Service Packs. In the interim, customers are requested to contact CM Support for provision of appropriate patches that can be used to provide the feature support needed.

Release History - H.323 3.1.x Software

The following table provides a history of the H.323 3.1 software releases. The "ID" columns shows the identifier of this software which will be seen on the "About Avaya one-X" menu item.

Release	ID	Date	Link to Readme file
3.1	S3.1	November 2009	ftp://ftp.avaya.com/incoming/Up1cku9/tsoweb/9600/111 609/96xx_H323_3_10_Readme.pdf
3.1.1	S3.110b	March 2010	http://support.avaya.com/css/P8/documents/100077293
3.1 Service Pack 1	S3.101S	September 2010	http://support.avaya.com/css/P8/documents/100110607
3.1 Service Pack 2	S3.102S	March 2011	http://support.avaya.com/css/P8/documents/100129848
3.1 Service Pack 3	S3.103S	November 2011	http://support.avaya.com/css/P8/documents/100151332
3.1 Service Pack 4	S3.104S	March 2012	http://support.avaya.com/css/P8/documents/100157813
3.1.5	S3.105S	August 2012	http://support.avaya.com/css/P8/documents/100164663

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2) OpenSSL 0.9.7g

Downloaded website: <u>http://www.openssl.org/</u>

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