



## **Avaya B189 IP Conference Phone H.323 Release 6.6.2 Readme**

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This file is the Readme for the Avaya B189 IP Conference Phone H.323 Release 6.6.2 software. This file describes the contents of the May 2016 (**6.6.2.29**) software distribution package.

Avaya B189 H.323 6.6.2 software is supported on the Avaya B189 IP Conference Phone only and when used with Avaya Aura<sup>®</sup> Communication Manager. The Avaya B189 H.323 6.6.2 software will not load or operate on any other models.

This release supersedes all previous Avaya B189 software releases. Avaya recommends that all customers using Avaya B189 H.323 1.x/6.x software upgrade to this version at their earliest convenience.

The information in this document is accurate as of the issue date and subject to change.



Please refer to the advisements in this file for important information prior to deploying this software.

## **Avaya Aura<sup>®</sup> Communication Manager Compatibility**

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The Avaya B189 IP Conference Phone using B189 H.323 Release 6.6.2 software is supported on:

- Avaya Aura<sup>®</sup> Platform 6.2 FP4 (Avaya Aura<sup>®</sup> Communication Manager 6.3.6, Avaya, Avaya Aura<sup>®</sup> System Manager 6.3.8) and associated service packs
- Avaya Aura<sup>®</sup> Platform 7.0.0 (Avaya Aura<sup>®</sup> Communication Manager 7.0.0, Avaya Aura<sup>®</sup> System Manager 7.0.0) and associated service packs
- Avaya Aura<sup>®</sup> Platform 7.0.1 (Avaya Aura<sup>®</sup> Communication Manager 7.0.1, Avaya Aura<sup>®</sup> System Manager 7.0.1) and associated service packs

Administer the Avaya B189 IP Conference phone as a 9620 IP desk phone

## New features in B189 H.323 Release 6.6.2

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Avaya B189 H.323 Release 6.6.2 contains the following new features:

New with this release	Description
Retain user setting for volume on reboot or login.	The volume settings for the speaker and ringing are saved in flash memory so that they will persist following a reboot. Additionally, they are backed up to the HTTP server such that the same settings will be used when a user logs into a different B189.
Recovery from incorrect username/password entry.	Pressing the "Reset" softkey when the B189 is in the process of registering will result in a clearing of the previously-entered username/password.
Support for TLS 1.2	B189 6.6.2 upgrades TLS to support TLS 1.2. In addition, a configuration parameter has been added to restrict the use of TLS 1.0/1.1.

## Documentation for B189 H.323 Release 6.6.2

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The following documentation has been updated to support this release of software.

- [Installing and Maintaining Avaya B189 IP Conference Phone H.323](#)
- [Administering B189 IP Conference Phone H.323](#)
- [Using Avaya B189 IP Conference Phone](#)
- [Avaya B189 IP Conference Phone Quick Reference Guide](#)

These documents are available on <http://support.avaya.com> under "B100 Series Conference Phones" -> "B189 H.323 6.6.x" -> Documents

## B189 H.323 6.6.2 Package Contents

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The B189 H.323 6.6.2 software package contains all the files necessary to upgrade Avaya new or previously installed B189 Conference IP Phone to the B189 H.323 6.6.2 load.

The following files are included in each package:

- SB189\_HAL\_R6\_6\_1\_15\_V474.tar - The 6.6.1 H.323 phone application tar file for B189 model.
- SB189\_HAL\_R6\_6\_2\_29\_V474 V474.tar - The 6.6.2 H.323 phone application tar file for B189 model.
- SB189\_UKR\_V25r10\_V25r10.tar - The 6.6.1 H.323 Kernel and root file system tar file.
- SB189\_UKR\_V27r14\_V27r14.tar - The 6.6.2 H.323 Kernel and root file system tar file.
- B189Hupgrade.txt – This file is downloaded by the B189 Conference IP Phone and instructs the phones on how to upgrade.
- 19 predefined language files for phone display:
  - mlf\_B189\_V148\_chinese.txt
  - mlf\_B189\_V148\_french\_paris.txt
  - mlf\_B189\_V148\_german.txt
  - mlf\_B189\_V148\_italian.txt
  - mlf\_B189\_V148\_japanese.txt
  - mlf\_B189\_V148\_korean.txt
  - mlf\_B189\_V148\_portuguese.txt
  - mlf\_B189\_V148\_russian.txt
  - mlf\_B189\_V148\_spanish\_latin.txt
  - mlf\_B189\_V148\_template\_en.txt
- av\_prca\_pem\_2033.txt (Avaya Product Root CA certificate)
- Avaya-96x1IPTelephone-MIB.txt for reference
- 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 CM6.x/7.x Utility Server is the only file server that currently supports this. System specific parameters should be entered into the 46xxsettings.txt file which is available for separate download at <http://support.avaya.com>. **New or changed configuration parameters with this release of software are shown in Appendix 3.**

The H.323 6.6.2 package is available in the following versions:

- Versions with encryption enabled
  - B189-IPT-H323-R6\_6\_2\_29-050316.zip
- Versions with encryption disabled
  - B189-IPT-H323-R6\_6\_2\_29U-050316.zip

**Note:** .tar files are no longer generated for B189 H.323 software.

**Note:** B189 H.323 6.6.1 binary files are included with this package as those are required for interim upgrades from a release prior to B189 H.323 6.6.1 to B189 H.323 6.6.2 or later to enable SHA2 image signature validation. Refer to the "Support for SHA2-signed software files" section for further information.

## Advisements with B189 6.6.2 software

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### Interworking – TLS 1.2

B189 H.323 6.6.2 and later software upgrades TLS to support TLS 1.2.



B189 H.323 6.6.2 also adds a new configuration parameter (TLS\_VERSION) which can be used to configure the B189 to only use TLS 1.2. Care must be taken to only use this parameter when all components to which the B189 will communicate can also support TLS 1.2.

### Interworking – HTTPS - MVIPTTEL, IIS 6

B189 H.323 6.6.2 and later software does not support secure HTTP (HTTPS) with MVIPTTEL or IIS 6. MVIPTTEL is end-of-support by Avaya and IIS 6 is end-of-support by Microsoft. Customers using either of these servers are recommended to upgrade to a current version of an HTTPS server which supports TLS 1.2.

### Support for SHA2-signed software files

As part of the security enhancements in B189 H.323 6.6.2 or later software, the software files are signed using SHA-256 digital signatures. B189 H.323 6.6.1 software files are signed using SHA-1 digital signatures only and capable of SHA-1 and SHA-256 digital signature verification. B189 H.323 6.6.0 and earlier software files are signed using SHA-1 digital signatures only and capable of SHA-1 digital signature verification. Customers upgrading from B189 H.323 6.6.0 or earlier will automatically upgrade to B189 H.323 6.6.1 and from there to B189 H.323 6.6.2 or later. This interim upgrade is automatic but will result in an additional reset during this particular upgrade.

## B189 H.323 6.6.2 Resolved Issues (since B189 H.323 6.6.1)

The following table includes issues which are resolved with this release of software compared to B189 H.323 6.6.1.15.

External ID	Internal ID	Issue Description
1-9328465534 1-9328465534	H32396X1-13057 H32396X1-13056	RTCP reports payload type as PCMU even if other codec is used. RTCP misses DSCP parameter.
1-9331136863	H32396X1-13009	Phone will go into rolling reboot when connected to HP switch with PoE.
1-9326400961 1-9303749525	H32396X1-12988	Re-entering the password field in the login window will cause login to fail.
1-9303749630	H32396X1-12987	Phone will fail to initiate a second call from call history while on active call.
1-6369276514	H32396X1-12680	In rare cases phone will fail to register after network outage.
	H32396X1-11956	HTTPS backup/restore does not work in a VPN environment
1-9324389002	H32396X1-12979	Wrong values of sysLocation/sysContact/sysName returned in SNMP walk
1-9331534877	H32396X1-13022	Phone reboots when it tries to restore a corrupted backup file.
1-9252483795 1-9348183035	H32396X1-13050	Time on deskphone will drift (~ 40 seconds every 24 hours) if CM is not configured to periodically update the time/date.
1-9383143063	H32396X1-13174	Cannot call forward to contact if smart enbloc dialing is enabled.
1-9408765020	H32396X1-13228	Contact pairing intermittently does not work.
1-11131034913	H32396X1-13568	Following a CM forced interchange, some deskphones did not successfully register back.
1-9303749694	H32396X1-13010	When the "Enhanced Call Forward" button is used, sometimes the sequence is recorded in the Call Log even though it should not be.
	H32396X1-13586	Deskphone cannot register to CM after accessing a VPN network via security router SA2330.
	H32396X1-13645	Deskphones is configured with GUESTDURATION 1 and GUESTWARNING 5 and a valid HTTP backup/restore server. User logs into the phone as a visiting user. After the Visiting User warning screen is shown, the user changes the ringer/handset/headset speaker volume. The phone is then logged out automatically. After logging back in the phone, the phone is unable to do any automatic/manual backup/restore.
	H32396X1-13005	Deskphone is stuck and rebooted when doing a guest login.
1-11476446568	H32396X1-13830	Phone is configured to provide EU ringtone. After logging out and back in, the deskphone rings with US ringtones.

## Unresolved issues in B189 H.323 6.6.2

The following table includes unresolved issues with this release of software which were known as of the issue date for this document.

External ID	Internal ID	Issue Description
	H32396X1-13936	In case AGC is turned on and user is playing dial tone on speaker for several seconds under a noisy environment, speaker volume level may be decreased a bit as part of AGC tuning. <b>Workaround:</b> The issue has no impact on functionality or any other volume settings or volume heard, but if you would still like to avoid this, you may eliminate environment noise or disable AGC settings (please view admin guide for other affect turning AGC may have prior)
	H32396X1-13900	Intermittently, if CRAFT is being accessed quickly during boot, user may see some delay. <b>Workaround:</b> After a few seconds, user may use CRAFT or in case CRAFT is being accessed at any time after the phone is already completed booting up, no delay is seen.
	H32396X1-13896	In case Backup\Restore server is unavailable, phone does not display "Retrival Failed" message on top line right after login. <b>Workaround:</b> Message will be seen correctly for any change saved on backup (volume change, call log Etc.)
	H32396X1-13875	When using VPN with VLAN configured running against VPN Juniper SSG 220 and Cisco ASA 5505 VPN gateways, phone may intermittently not get the file from the HTTP server. <b>Workaround:</b> Setup may be changed to not use VLAN over VPN.
	H32396X1-13868	In case of 2 DHCP servers are used - if the first DHCP offer comes without option 242 and second DHCP offer is with valid option 242, phone will get IP of first DHCP and loops waiting for LLDP <b>Workaround:</b> Reboot the phone and it will boot with required IP from correct DHCP.
	H32396X1-13863	After logging out guest user, phone shows "Backup failed" message <b>Workaround:</b> This is a UI issue. Please ignore the message; Backup was done correctly and all settings had been saved prior, the message will disappear after half a second.

External ID	Internal ID	Issue Description
	H32396X1-13838	On very rare cases, when using HTTP authentication, authentication screen may come up during different scenarios and show up on top of other screens. <b>Workaround:</b> In order to avoid interferences, user may 1) Configure user name and password in settings file in the form of: SET BRURI "http://iis:<password!>@<IP>/backup" 2) Enter username password when screen appear to user first time
	H32396X1-13796	Intermittently, user cannot enter User ID on the HTTP authentication screen. <b>Workaround:</b> Navigate down to the "password" field and then back up to the "User ID" field.
	H32396X1-13777	On B189, RTP may be cutoff for 1 sec right after enabling LLDP on port switch
	H32396X1-13657	Backup file on the HTTP server is manually changed to reflect Display Language = English. User changes the display language to a non-English language and then does a manual restore. The display remains blank although the backup/restore is done successfully. <b>Workaround:</b> Press the Phone button.
	H32396X1-13701	On 802.1x, when setting MYCERTCN to \$MACADDR in 46xxsetting, Phone uses SERIALNO in Device ID instead of MAC.
	H32396X1-12819	On B189, Phone will show SSH as on after clear value procedure though SSH is disabled. <b>Workaround:</b> If set SSH_ALLOWED parameter is 0 in 46xxsettings file, SSH option will be displayed as Off.
	H32396X1-12135	In some rare cases SNMP will not be available after phone restart. <b>Solution:</b> reset again the phone
	H32396X1-11741	When the B189 doesn't have a valid Ethernet connection, it would display "No Ethernet. Waiting..." message and by pressing the "Settings" soft key the user won't be able to enter into CRAFT menu. <b>Solution 1:</b> wait for the timer to expire (usually up to 1 minute) and press "Settings" again. <b>Solution 2:</b> Reboot the phone and press "*" to program for CRAFT menu.
	H32396X1-11784	On B189, when entering digits in "edit dialing" mode and then moving to phone screen and pressing on a call appearance line, the phone will start dialing immediately instead of just displaying the number and playing a dial tone. <b>Solution:</b> clean the dialer screen before pressing the phone button

External ID	Internal ID	Issue Description
	H32396X1-11469	Call Appearance line numbers does not displays after rebooting the phone when personalize label given for extension.
	H32396X1-11451	When adding call parties to a conference call on the B189 phone, the phone displays the "Add" button even after reaching the maximum number of parties.
	H32396X1-11886	Phone displays incoming call icon with conference call when CALLAPPRSELMODE and CADISPMODE set to 1.
	H32396X1-11981	When deskphone boot up and automatically log in with extension and agent, phone does not always retrieve extension backup file. <b>Solution:</b> manually logout and login the extension.
	H32396X1-12026	Entered Thai characters do not display if language changed to English.
	H32396X1-11287	When "Guest login" to B189 from 96x1 9608 or 9611 configured with half width ("Phone Screen Width") and performing backup, "Phone Screen Width" parameter will disappear from the backup file.
	H32396X1-11119	B189 resumes the hold call when pressing Redial button <b>Workaround:</b> in order to start new call (when there is a exsting call on hold) user can press the on-hook button or press a new CA
	H32396X1-11041	Network delay values are high when a call is created between deskphone and E129 endpoints.
	H32396X1-10773	When a reset command is sent to the phone using a SAT terminal, talk path is lost but the phone doesn't reset immediately as expected. <b>Solution:</b> The reset will take place after the user disconnects the call.
	H32396X1-10861	Incoming calls display the caller name from the CM server, not the local contact name. When the information from the CM server contains an alphanumeric name. For example, if the caller information in the CM is "John 123" and the name is saved in the local contact list as "John W", the phone screen displays "John 123" during the call, and "John W" in the call history.
	H32396X1-10225	When changing MD5 to TLS and also changing user name on the server, the phone's authentication fails. <b>Solution:</b> Clear values through CRAFT menu.
	H32396X1-9939	The deskphone supports SRTP AES 128 HMAC 80 cryptographic Suite only. Other cryptographic suites (un-authenticated suites and HMAC 32 based suites) are not supported.



External ID	Internal ID	Issue Description
	H32396X1-9194	When Cisco Access Control Server (ACS 5.2) is configured for re-authentication timeout, using TLS session tickets to renew authentication, the phone does not re-authenticate. <b>Solution:</b> reboot the phone
	H32396X1-10118	By opening a second call appearance and start dialing, agents are able to go back to the first call appearance and disconnect the live call.
	H32396X1-7864	In some cases, when you move a phone between two CM servers that have the same station number with different configurations, the phone will not load the new configuration. <b>Solution:</b> Open the station details screen in CM and perform any update to the form. This triggers a configuration update to the phone and resolves the issue.
	H32396X1-7894	Using the IP redirect feature, the deskphone does not display the correct redirect server URL during the bootup sequence. The deskphone shows the original server UR instead.
	H32396X1-9477	If Audio report feature is active, the phone responds slowly for a few seconds until the report is complete.
	H32396X1-6339	In case the phone backup file is manually removed from the backup server, and then the phone reboots, the next backup operation would backup default parameters only. <b>Solution:</b> To ensure that the backup operation uses the correct backup parameters, do not remove the phone backup file from the backup servers manually
	H32396X1-7040	When 'Timerstat' is set to 1 and 'Timer on' softkey is chosen while on an active call, the user timer blinks when the seconds advance. <b>Solution:</b> Use 'Timer on' softkey during idle state (not during an active call).
	H32396X1-5782	If a phone is ringing while a failover between primary and secondary CMs in a Processor Ethernet duplicate setup occurs, the ringing for the current call will stop. The phone will keep alerting silently until the call is answered or disconnected. The ringing will continue to function properly in the next call.
	H32396X1-5078	If the HTTP server is down, and the user is registered by static IP address and modifies call server IP address, changes are not reflected on the phone. <b>Solution:</b> Verify that the HTTP server is up and running before making administrative changes.

External ID	Internal ID	Issue Description
	H32396X1-8812	When several certificates are provided and the first is invalid, phone will not continue to download other certificate. <b>Solution:</b> Use valid certificates.
	H32396X1-9667	Phone supports getting only one HTTP file server from LLDP. <b>Solution:</b> Multiple HTTP file servers can be configured using other ways such as settings file, DHCP and CRAFT menu.
	H32396X1-8897	If the phone is connected to the network using VPN, the BRURI parameter contains FQDN address and not the IP address, and the phone is logged out and sleep mode is activated, backup/restore will stop working until the next phone reboot. <b>Solution:</b> Configure IP and not FQDN when the phone is behind VPN.
	6121468	To drop a call that is placed on hold by the remote side and on which music on hold is configured (CM configuration): 1. Press drop button twice. 2. Press the on-hook/off-hook button.
	531979	Contact pairing - The pairing algorithm does not work in case of bridge/forward calls.
	5121728	When putting a call is on hold, pressing the dial pad will open dial pad in DTMF mode. To initiate a new call select new call appearance on the phone screen. Bridged Appearance
	712359	When the B189 phone has bridged appearance to another phone, (Phone B) in the following scenario, the call details screen is not refreshed: 1. Phone B calling phone C from the second line appearance. 2. Phone B conferences phone D to the previous call with phone C 3. User on Phone B presses join (before phone D answers) Workaround: Press Phone button or On-hook/off-hook button.
	282392	When the B189 phone have a bridged call appearance to phone B, and calls phone B and disconnects the call from phone screen before phone B answers. The entries for: "Guest login", "Logout" and "Administration menu" will not be available on the settings screen. Workaround: Touch the bridge call appearance and then disconnect.

External ID	Internal ID	Issue Description
	182268	When the B189 phone tries to conference through bridge appearance while "exclusion" feature is activated on the bridged phone, B189 will display call details screen (and no voice path).
	9341625	Phone supports getting only one HTTP file server from LLDP. You can configure multiple HTTP file servers can be configured using the: settings file, DHCP, "Administration" menu. Administration
	8011722	MIB browser displays the inverted value of endptTLSUSED
	5341908	When using serial cable to connect to the phone from PC, set PC serial client to the following settings: Speed = 115200 Data bits = 8 Stop bits = 1 Parity = None Flow control = None
	722253	When using "Guest login" to B189 from 96x1 9608 or 9611 phone that is configured with half width ("Phone Screen Width") and performing backup, "Phone Screen Width" parameter will disappear from the backup file.
	321725	Call Server parameter in ADD does not update after changing from an extension to another extension on different CM's Work around: Check Call Server in MENU-> Network Info-> IP Parameters before check call server Administration->ADD mode, phone will display parameter correctly

## Appendix 1 – Release History

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The following table provides a history of the B189 H323 software releases. The “ID” column shows the identifier of this software which is seen on the “About Avaya IP Conference Phone” menu item.

Release	ID	Date	Link to Readme file
1.0.0	1.0.0.21	Jan 2014	<a href="https://downloads.avaya.com/css/P8/documents/100177522">https://downloads.avaya.com/css/P8/documents/100177522</a>
1.0.1	1.0.0.08	June 2014	<a href="https://downloads.avaya.com/css/P8/documents/100180731">https://downloads.avaya.com/css/P8/documents/100180731</a>
6.6.0	6.6.0.29	May 2015	<a href="https://downloads.avaya.com/css/P8/documents/101009328">https://downloads.avaya.com/css/P8/documents/101009328</a>
6.6.1	6.6.1.15	Nov 2015	<a href="https://downloads.avaya.com/css/P8/documents/101016469">https://downloads.avaya.com/css/P8/documents/101016469</a>
6.6.2	6.6.2.29	May 2016	<a href="https://downloads.avaya.com/css/P8/documents/101025341">https://downloads.avaya.com/css/P8/documents/101025341</a>

## Appendix 2 – New/Changed 46xxsettings.txt parameters

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The latest version of the 46xxsettings.txt file can be downloaded from <https://support.avaya.com/downloads/download-details.action?contentId=C2009071016160372125345&productId=P0553>.

### New parameters.

```
## CTASTAT - Call Type Analysis Status
## Controls whether call type analysis algorithm in the Avaya Communication Manager is used
## during certain dialing behaviors.
## 1 use smart enbloc if smart enbloc is enabled/supported by Avaya Communication Manager by History, Redial and WML browser,
## but not for Contacts.
## 2 use smart enbloc if smart enbloc is enabled/supported by Avaya Communication Manager by History, Redial, WML browser and
## Contacts.
## SET CTASTAT 1

## TLS_VERSION controls TLS version used for all TLS connections (except SLA monitor agent)
## Value Operation
## 0 TLS versions 1.0 and 1.2 are supported (default).
## 1 Only TLS1.2 and up are permitted.
## This parameter is supported by:
## 96x1 SIP 7.0.1.0 and later releases
## 96x1 H.323 6.6.2 and later releases
## SET TLS_VERSION 1
```

## Appendix 3 – New/Changed backup file entries

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The following entries have been added to the backup/restore file:

Parameter Name	Meaning/Use	Value Range/ Format	Default
HANDSETVOLUME	The handset volume.	Integer 1-8	4
HEADSETVOLUME	The headset volume.	Integer 1-8	4

## License Agreements

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