



Avaya 1600 Series IP Deskphone Software Release 1.3.4 Readme

This file is the Readme for the Avaya 1600 Series IP Deskphone Software Release 1.3.4 (H.323 1.3 Maintenance Release 4). This file describes the content of the August 2013 Maintenance Release software distribution package. It also includes Product Advisements related to known issues with this Software Release.

Avaya 1600 Series IP Deskphone H.323 Software Release 1.3.4 is supported on the 1603, 1603-I, 1603SW, 1603SW-I, 1608, 1608-I, 1616, and 1616-I IP Deskphones only. It will not load or operate on any other models.

Aura[®] Communication Manager, IP Office and B5800 Branch Gateway users are advised to consult their respective product publications for information regarding support of this release on their platform.

This Maintenance Release supersedes all previous Avaya 1600 Series IP Deskphone Service Packs. Avaya recommends that all customers upgrade both new and installed 1600 Series IP Deskphones to this version at their earliest convenience.

To upgrade 1600 Series IP Deskphone:

1. Install zip package on Avaya Utility Server. Alternatively, the package can be unzipped in the root directory of any HTTP server.
2. Make any adjustments required by your environment to the 46xxsettings.txt
3. Reset Avaya 1600 Series IP Deskphone

Avaya Servers Compatibility

Servers	Supported versions	Comments
Avaya Aura[®] Communication Manager (CM)	5.2.1 and higher	<p>Avaya recommends using the latest Communication Manager release with these models of IP Deskphone. 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.</p> <p>CM 5.2 is the minimum version required to support the following features:</p>

		<ul style="list-style-type: none"> Native support of 1600 Series IP Deskphone <p>CM releases prior to 5.2 do not provide native support for the 1600 Series IP Deskphone. Avaya recommends that the 1616/1616-I IP Deskphone be administered as a 4620/4621 IP Deskphone, other models be administered as a 4610 IP Deskphone, and the BM32 as a EU24 expansion module.</p> <p>For more details, please refer to the H.323 configuration section in the CM Administration Guide which can be downloaded from http://support.avaya.com.</p>
Avaya IP Office (IPO)	6.0 or later and IP500 V2 hardware only	Customers are requested to consult the IP Office Technical Bulletin(s) or Release Notes for compatibility with specific IP Office releases
Avaya B5800 Branch Gateway (B5800)		Please consult the B5800 Release Note(s) for details on specific B5800 software compatibility.

H.323 1.3.4 Package Content

The H.323 Software Release 1.3.4 package contains all the files necessary to upgrade Avaya new or previously installed 1600 Series IP Deskphones to H.323 R1.3.4.

The following files are included in this package:

H.323 1.3 Maintenance Release 4 List of Firmware files and supported Phones			
Hardware		Software	
Comcode	Model	Boot Code	Application Code
700415540	1603	hb1603ua1_340B.bin	ha1603ua1_340B.bin
700476849	1603-I	hb1603ua1_340B.bin	ha1603ua1_340B.bin
700458508	1603SW	hb1603ua1_340B.bin	ha1603ua1_340B.bin
700858524	1603SW-I	hb1603ua1_340B.bin	ha1603ua1_340B.bin
700415557	1608	hb1608ua1_340B.bin	ha1608ua1_340B.bin
700458532	1608-I	hb1608ua1_340B.bin	ha1608ua1_340B.bin
700450190	1616	hb1616ua1_340B.bin	ha1616ua1_340B.bin

700458540	1616-I	hb1616ua1_340B.bin	ha1616ua1_340B.bin
-----------	--------	--------------------	--------------------

- GBM32_B_1_1_0.hex - Button Module firmware version 1.1.0 for BM32.
- 16xxupgrade.txt – To upgrade to R1.3.4, you must change your 16xxupgrade.txt file. The sample upgrade script that is included in the package is generic, in that it will upgrade all existing 1600 Series IP Deskphones to R1.3.4. If you have other phones that are using this script for other software upgrades and installations, please note the changes between the scripts. Please make a backup copy of your current upgrade script, and incorporate the binary name changes for release R1.3.4 into your 16xxupgrade.txt file.
- Ten predefined language files for phone display:
 - mlf_Sage_v69_dutch.txt
 - mlf_Sage_v69_french_can.txt
 - mlf_Sage_v69_french_paris.txt
 - mlf_Sage_v69_german.txt
 - mlf_Sage_v69_italian.txt
 - mlf_Sage_v69_japaneseKat.txt
 - mlf_Sage_v69_portuguese.txt
 - mlf_Sage_v69_russian.txt
 - mlf_Sage_v69_spanish.txt
 - mlf_Sage_v69_spanish_latin.txt
- Five configurable language files for the phone display:
 - mlf_Sage_v69_arabic.txt
 - mlf_Sage_v69_chinese.txt
 - mlf_Sage_v69_trad_chinese.txt
 - mlf_Sage_v69_hebrew.txt
 - mlf_Sage_v69_korean.txt
- Five configurable font files for the five languages above
 - Arabic_S11_V34.rbm.lzma (Font file for Arabic Language)
 - GB_S11_V34.rbm.lzma (Font file for Simplified Chinese Language)
 - Big5_S11_V34.rbm.lzma (Font file for Traditional Chinese Language)
 - Hebrew_S11_V34.rbm.lzma (Font file for Hebrew Language)
 - KSC_S11_V34.rbm.lzma (Font file for Korean Language)
- 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 6.0 Utility Server is the only file server that currently supports this.

Refer to the 1600 Series IP Deskphone Administration Guide on <http://support.avaya.com> for more information on the use of FONTFILE and LANGxFILE.

System specific parameters should be entered into the 46xxsettings.txt file which is available for separate download at <http://support.avaya.com>. **Warning:** Before modifying your 46xxsettings.txt file, please make a backup copy of the file.

Resolved issues in Avaya 1600 Deskphone H.323 1.3 Maintenance Release 4

Area	Defect ID	Defect Name
Audio	SAGE16XX-751	AGC (Automatic Gain Control) is not working on 16xx.
	SAGE16XX-765	Improvement of the handset audio quality.
	SAGE16XX-774	Low Ringer Volume of second call when first call is terminated by DROP button.
Performance	SAGE16XX-745	Fixed multiple memory issues that can cause rebooting.
	SAGE16XX-746	Fixed null pointer dereferences that can cause unpredictable behavior.
	SAGE16XX-747	Fixed multiple out of bounds errors that can cause rebooting.
	SAGE16XX-607	1616 phone reboots when connected to IPO after pressing the call appearance button on BM32
	SAGE16XX-727	16xx H323 logging engine improvement.
	SAGE16XX-767	Resource leaks that can cause performance degradation and rebooting.
	SAGE16XX-775	1608 phone reboots if logged in to 1616 account with some bridge-appearances configured on BM after call to bridge-appearance numbers.
	SAGE16XX-677	16xx UI performance improvement.
	SAGE16XX-754	TFFS recovering mechanism.
	SAGE16XX-705	Font recovery mechanism.
Backup\Restore	SAGE16XX-700	Phone 1616 with BM32 is frozen at the enter credential screen when subfolder is configured on IIS7.
Application\UI	SAGE16XX-488	The phone does not synchronize language with IPO.
	SAGE16XX-731	Some parameters in Screen/Sound, Call Settings, Application, Advanced options are changed to default after rebooting.
	SAGE16XX-729	Extension configured for busy-indicator or call-forward is displayed in wrong format when changing CM language to Arabic.
	SAGE16XX-760	Phone displays wrong conference icon if it isn't main initiator.
	SAGE16XX-758	Join soft key disappears after hold recall timeout.
	SAGE16XX-762	Redial List is empty although there's information in outgoing call log.
	SAGE16XX-782	Phone displays wrong holding conference icon if it isn't main initiator.
	SAGE16XX-763	Complete and Cancel softkeys disappear when Hold Recall timeout expires
Configuration	SAGE16XX-689	Skip upgrade of 1603 phone to H323 firmware if it is a SIP phone.

Known Issues in Avaya 1600 Deskphone H.323 1.3 Maintenance Release 4

Defect Number	Description	Details/Workaround
SAGE16XX-612	Second BM is not upgrading when two BMs are connected during phone's software upgrade to R1.3 SP1.	<p>While upgrading the 1616 IP Deskphone to release 1.3200, if there are Button Modules (BMs) attached to the 1616 IP Deskphone being upgraded, then the BMs will also be upgraded.</p> <p>Note: You will need to carry out the following procedure, when updating phones with more than one Button Module attached.</p> <p>When the BM software is being upgraded, each of the BM LEDs will turn ON and then OFF in a sequential fashion. The sequence will stop after the 19th LED has turned ON as if the upgrade process has stopped. The phone will display the messaging, "Updating, Do not Unplug", while the upgrade is going on.</p> <p>After the first Button Module has upgraded, the LEDs on the second Button Module may appear to start blinking RED and GREEN. But to force the second Button Module to upgrade, you must press a button on the FIRST Button Module to start the upgrade of the SECOND Button Module. The SECOND Button Module upgrades with the same sequence of LEDs' activities as the first Button Module.</p> <p>If a phone is registered with an IP office, it may have a 3rd button module attached. In such case, the Third Button Module must be disconnected before the phone is upgraded to the new software. If this is not done, and the phone is updated before disconnecting the 3rd Button Module from the phone, the THIRD Button Module might become dysfunctional during the upgrade and it cannot be revived. The THIRD Button Module has to be upgraded independently by connecting it to any other 1616 phone or by connecting it to the same phone as above, but only after the first two button modules have been disconnected. It should be noted that Avaya doesn't recommend connecting/disconnecting Button Modules to/from the phone, while it is powered up.</p> <p>Access the 'A' menu to check the version of Button Module software, and to confirm if all the button modules have been upgraded. It</p>

Defect Number	Description	Details/Workaround
		should display: GBM32_B_1_1_0
SAGE16XX-749	Phone can't get HTTPPORT from DHCP or 46xxsetting.txt	Port 80 should be used on the server
SAGE16XX-787	Phone displays wrong call-park icon after parking call	NA

License Agreements

W3C(r) SOFTWARE NOTICE AND LICENSE

Copyright (c) 1994-2002 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University).

All Rights Reserved. <http://www.w3.org/Consortium/Legal/>

This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make: The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code:

"Copyright (c) 2004 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.
<http://www.w3.org/Consortium/Legal/>"

Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,

COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders June NOT be used in advertising or publicity pertaining to the software without specific, written prior permission.

Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

Copyright (c) 1998, 1999, 2010 Thai Open Source Software Center Ltd

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

HTTP Server functionality is provided by the GoAhead WebServer 2.1,

Copyright (c) 2004 GoAhead Software, Inc. All Rights Reserved.

Secure sockets layer functionality is provided by **OpenSSL 0.9.7g**

Website: <http://www.openssl.org/>

Copyright notice:

Copyright(c) 1998-2005 The OpenSSL Project
Copyright(C) 1995-1998 Eric A. Young, Tim J. Hudson
All rights reserved.

License Name: BSD-style Open Source licenses

License URL: <http://www.openssl.org/source/license.html>

Licence version: NA

License text:

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

```
/* =====  
* Copyright (c) 1998-2004 The OpenSSL Project. All rights reserved.  
*  
* Redistribution and use in source and binary forms, with or without  
* modification, are permitted provided that the following conditions  
* are met:  
*  
* 1. Redistributions of source code must retain the above copyright
```



```
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in
* the documentation and/or other materials provided with the
* distribution.
*
* 3. All advertising materials mentioning features or use of this
* software must display the following acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
* endorse or promote products derived from this software without
* prior written permission. For written permission, please contact
* openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
* nor may "OpenSSL" appear in their names without prior written
* permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
* acknowledgment:
* "This product includes software developed by the OpenSSL Project
* for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* =====
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
```

```
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* "This product includes cryptographic software written by
* Eric Young (eay@cryptsoft.com)"
* The word 'cryptographic' can be left out if the routines from the library
* being used are not cryptographic related :-).
* 4. If you include any windows specific code (or a derivative thereof) from
* the apps directory (application code) you must include an acknowledgement:
* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

© 2013 Avaya Inc. All Rights Reserved

Notice

While reasonable efforts were made to ensure that the information in this document was complete and accurate at the time of printing, Avaya Inc. can assume no liability for any errors. Changes and corrections to the information in this document may be incorporated in future releases.

Documentation disclaimer.

Avaya Inc. is not responsible for any modifications, additions, or deletions to the original published version of this documentation unless such modifications, additions, or deletions were performed by Avaya.

Link disclaimer

Avaya Inc. is not responsible for the contents or reliability of any linked Web sites referenced elsewhere within this Documentation, and Avaya does not necessarily endorse the products, services, or information described or offered

within them. We cannot guarantee that these links will work all of the time and we have no control over the availability of the linked pages.

License

USE OR INSTALLATION OF THE PRODUCT INDICATES THE END USER'S ACCEPTANCE OF THE TERMS SET FORTH HEREIN AND THE GENERAL LICENSE TERMS AVAILABLE ON THE AVAYA WEBSITE AT <http://support.avaya.com/LicenseInfo/> ("GENERAL LICENSE TERMS"). IF YOU DO NOT WISH TO BE BOUND BY THESE TERMS, YOU MUST RETURN THE PRODUCT(S) TO THE POINT OF PURCHASE WITHIN TEN (10) DAYS OF DELIVERY FOR A REFUND OR CREDIT. Avaya grants End User a license within the scope of the license types described below. The applicable number of licenses and units of capacity for which the license is granted will be one (1), unless a different number of licenses or units of capacity is specified in the Documentation or other materials available to End User. "Designated Processor" means a single stand-alone computing device. "Server" means a Designated Processor that hosts a software application to be accessed by multiple users. "Software" means the computer programs in object code, originally licensed by Avaya and ultimately utilized by End User, whether as stand-alone Products or pre-installed on Hardware. "Hardware" means the standard hardware Products, originally sold by Avaya and ultimately utilized by End User.

License Type(s):

Designated System(s) License (DS). End User June install and use each copy of the Software on only one Designated Processor, unless a different number of Designated Processors is indicated in the Documentation or other materials available to End User. Avaya June require the Designated Processor(s) to be identified by type, serial number, feature key, location or other specific designation, or to be provided by End User to Avaya through electronic means established by Avaya specifically for this purpose.

Copyright

Except where expressly stated otherwise, the Product is protected by copyright and other laws respecting proprietary rights. Unauthorized reproduction, transfer, and or use can be a criminal, as well as a civil, offense under the applicable law.

Third-party Components

Certain software programs or portions thereof included in the Product may contain software distributed under third party agreements ("Third Party Components"), which may contain terms that expand or limit rights to use certain portions of the Product ("Third Party Terms"). Information identifying Third Party Components and the Third Party Terms that apply to them is available on Avaya web site at: <http://support.avaya.com/ThirdPartyLicense/>

Trademarks

Avaya, Avaya Aura, Communications Manager and the Avaya logo are registered trademarks and/or service marks of Avaya Inc. in the U.S. and certain other jurisdictions.

All other trademarks are the property of their respective owners.