



Avaya one-X® Deskphone H.323 Release 3.2.4 Readme

This file is the Readme for the Avaya one-X® Deskphone H.323 Release 3.2.4 (H.323 3.2.4) software for the 9620C, 9620L, 9630G, 9640, 9640G, 9650, 9650C and 9670G IP Deskphones. This file describes the contents of the **January 2015** software distribution package.

H.323 3.2.4 software is supported on the 9620C, 9620L, 9630G, 9640, 9640G, 9650, 9650C and 9670G IP Deskphones. The software will not load or operate on any other models. **H.323 3.2.4 software is specifically not supported on the 9610 IP Deskphone, 9620 IP Deskphone, and 9630 IP Deskphone.**

This release supersedes all previous Avaya one-X® Deskphone H.323 releases. Avaya recommends that all customers upgrade both new and installed IP Deskphones 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 Servers Compatibility

Servers	Supported versions	Comments
Avaya Aura® Communication Manager (CM)	6.3.2 (i.e. Avaya Aura® Platform 6.2 FP3) and higher	Avaya recommends using the latest Communication Manager release with these models of IP Deskphones in order to take advantage of the greatest functionality and quality. 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 9670 is not natively supported on CM. You must administer the 9670 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)	8.1 or later and IP500 V2 hardware only	Note that the H.323 3.2.4 software may not be included in the latest IP Office/B5800 Service Pack. IP Deskphone software is included in the IP Office software download available from http://support.avaya.com . Refer to the IP Office Technical Bulletin(s) / B5800 Release Note(s) for details on specific IP Office software compatibility and the included version of IP Deskphone software.
Avaya B5800 Branch Gateway (B5800)	6.2 or later	

New features in H.323 3.2.4

There is no new functionality with this release.

Documentation for H.323 3.2.4

There are no changes to documentation with this release of software. The following documentation list is included for reference.

- [Avaya one-X Deskphone Edition for 9600 IP Telephones Administrator Guide Release 3.2](#)
- [Avaya one-X Deskphone Edition for 9600 Series IP Telephones Installation and Maintenance Guide Release 3.2](#)
- [VPN Setup Guide for 9600 Series IP Telephones Releases 3.1 and 6.2](#)
- [Avaya one-X Deskphone H.323 for 9620, 9620C, and 9620L IP Deskphone User Guide](#)
- [Avaya one-X Deskphone H.323 for 9630 and 9630G IP Deskphone User Guide](#)
- [Avaya one-x Deskphone H.323 for 9640 and 9640G IP Deskphone User Guide](#)
- [Avaya one-X Deskphone H.323 for 9650 and 9650C IP Deskphone User Guide](#)
- [Avaya one-x Deskphone H.323 for 9670G IP Deskphone User Guide](#)
- [Avaya one-X Deskphone H.323 for 9620, 9620C, and 9620L IP Deskphone Quick Reference Guide](#)
- [Avaya one-X Deskphone H.323 for 9650 IP Deskphone Quick Reference Guide](#)
- [Avaya one-X Deskphone H.323 for 9670 IP Deskphone Quick Reference Guide](#)

This documentation is available on <http://support.avaya.com> under "9600 Series IP Deskphones" -> "H.323 3.2.x" -> Documents.

Issues resolved with H.323 3.2.4

H.323 3.2.4 provides fixes to issues not resolved in prior releases. This software release is based on H.323 3.2.3 and generally includes fixes for customer found issues.

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	Issue Description
Reboot / Lockup	
NA H32396X0-5075	9670G IP Deskphone reboots when using the "World Clock" application if the internet is not accessible.
NA H32396X0-5101	A phone which is configured to use 802.1x and connects to an authenticated port may intermittently reboot during the first minute of operation.
User Interface	
NA H32396X0-5057	Visiting User is configured and phone is logged out of original extension. A different user attempts to log into phone and enters invalid password. The login fails and the phone displays the original extension in the user field. The user can then press "#" two times and log into the phone without having to enter a valid password.
1-5597349964 H32396X0-5094	Even though CLDELCALLBK is configured, a Call Log entry is not deleted when a callback is initiated by pressing the Call softkey from the entry's Details screen.
NA H32396X0-5067	A phone is configured via DHCP with a single CM address and no file server. When the user attempts to log in, they are incorrectly given an option for a Visiting User log in.
NA H32396X0-4972	User of an 9670G IP Deskphone cannot access options in the Home menu after a failed login with guest user.
NA H32396X0-4477	Phone is configured to use either Chinese/Japanese/Korean languages. User makes an emergency call. Phone is subsequently configured to use either Arabic/Hebrew languages. When accessing the call log, the information associated with the emergency call is not shown correctly.
Backup / Restore	
1-5841177603 H32396X0-5102	Secure backup (SET BRAUTH 1) does not work on H.323 3.2.3.
1-5552627061 H32396X0-5098	Following a WAN outage, customized labels on an SBM24 were returned to their default.
NA H32396X0-5108	Phone is configured with valid backup/restore credentials via BRURI settings. User A is logged into the phone and successfully does a backup/restore. If they log out of the phone and User B then logs in, they are incorrectly prompted to provide the credentials.
Administration	
NA H32396X0-5074	If VUMCIPADD is configured as a FQDN, then a phone which attempts a Visiting User login will fail.
NA H32396X0-5092	If a backup file is manually edited and the last entry in the file is a custom phone label, then an extra character may appear at the end of the label on the phone and also be transmitted to Communication Manager.
Security	
1-5718799506 H32396X0-5097	During an 802.1x authentication sequence, if the authenticating switch responds in the middle of a Failure/Start sequence from the deskphone,

External ID Internal ID	Issue Description
	then authentication may fail.
Interworking – Avaya Diagnostic Services	
NA H32396X0-5099 H32396X0-511	Avaya one-X Deskphone H.323 Release 3.2.4 includes an updated version of the SLAMon agent software (2.0). The SLMSRVR parameter must be set in the 46xxsettings.txt file for this version of the agent to register with ADS. In addition, a valid certificate file must be downloaded via TRUSTCERTS. Finally, the SLMCLIENT and SLMFSB parameters are no longer supported.
WML Browser	
1-5471914743 H32396X0-5089	Phone fails to process files if the web server includes “HTTP” substring in the “Server” header.

Advisements for H.323 3.2.4 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	Issue Description	Solution, Remedy, Notes or Workaround (if exist)
Upgrades		
NA NA	Using a Utility Server for upgrading IP Deskphones	'GOTO' keywords in the 96xxupgrade.txt should all be in lower case. Refer to the 96xxupgrade.txt file packaged with the release, for an example.
Networking		
NA NA	Customers running Avaya one-X® Deskphone H.323 Release 3.1 SP2 (R3.102S) software who use 802.1x for authenticating their IP Deskphones on their network, i.e. they have 802.1x Supplicant enabled on their phones, should NOT upgrade directly to H.323 3.2.x. Upgrading to H.323 3.2.x will cause the Supplicant on their IP Deskphones to be turned OFF, with the result that they will no longer be able to connect to the data network. This advisory does NOT apply to customers who do not use 802.1x to authenticate IP Deskphones (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 IP Deskphones. Such customers can safely upgrade to H.323 3.2.x.	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: 1. Upgrade first to R3.941a, available at: ftp://ftp.avaya.com/incoming/Up1cku9/AvayaT4APP/IPT/96xxPatchesAndSoftware/R3.1SP3xx/96xx-IPT-H323-R3_941-112911.zip 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 3.2.x.
User Interface		
NA H32396X0-4739	When in Edit Dialing Mode, a "#" gets added to the end of the dialed number.	

External ID Internal ID	Issue Description	Solution, Remedy, Notes or Workaround (if exist)
NA NA	Dates and times specified in certificates are in Greenwich Mean or Universal Time (GMT/UT) but the deskphone does not know the offset of its local clock relative to GMT/UT, so renewal is initiated assuming that there is no offset, which may result in renewal starting up to 12 hours earlier or later than the specified time.	<p>Certificate renewal is initiated when the date and time of the deskphone's local clock reaches (or exceeds, if the deskphone starts up after) the date and time that corresponds to the expiration of a percentage of the certificate's valid lifetime (as specified in the certificate's Validity object) that is equal to the value of MYCERTRENEW.</p> <p>Since certificate lifetimes are typically on the order of a year or more, ignoring the offset relative to GMT/UT is expected to be well within the precision of the value of MYCERTRENEW. However, if a certificate with a very short lifetime is used for testing purposes, it should be assumed that the local time is GMT/UT.</p> <p>Even though the value of MYCERTRENEW is allowed to be set to values that correspond to from 1% to 99% of the certificate's lifetime, SCEP servers typically do not expect, and may reject, renewal requests that are received before at least 50% of the certificate's lifetime has expired. Setting MYCERTRENEW to values less than 50 is supported for testing purposes, but corresponding server administration may be required.</p>
CM/IPO		
NA H32396X0-4634	Phone doesn't renew certificate, if in unnamed registration since CM doesn't send date/time updates to endpoints registered in unnamed mode.	This requires a CM enhancement tracked by GRIP 10143
Non-Avaya Products - Interworking		
NA H32396X0-4826 NA	Use of 802.1x authentication with EAP-TLS and a Microsoft RADIUS server and IP Deskphones with one-X® H.323 release 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.	Administrators should set the MYCERTCN parameter in the settings.txt file to the MAC address of the IP Deskphone 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 IP Deskphone.

H.323 3.2.4 Package Content

The H.323 3.2.4 package (96xx-IPT-H323-R3_2_4-121214.zip) contains all the files necessary to upgrade Avaya new or previously installed IP Deskphones to the H.323 3.2.4 software release.

The following files are included in each package:

- ha96xxua3_2_4A.bin - signed binary for Phone Application for all but 9610/9620/9630/9670G
- hb96xxua3_2_4A.bin - signed binary for Boot Burner Application for all but 9610/9620/9630/9670G
- ha9670ua3_2_4A.bin - signed binary for Phone for 9670G
- hb9670ua3_2_4A.bin - signed binary for Boot Burner Application for 9670G
- ha96xxua3_2_2A.bin - signed binary for Phone Application for 9620/9630
- hb96xxua3_2_2A.bin - signed binary for Boot Burner Application for 9620/9630
- ha96xxua3_1_05_S.bin - signed binary for Phone Application for 9610
- hb96xxua3_1_05_S.bin - signed binary for Boot Burner Application for 9610
- 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 (except the 9610/9620/9630) to this maintenance release.

- *Any 9610 IP Deskphone will only upgrade to the 3.1.5 Maintenance Release, since that is the last supported software release on these phones.*
- *Any 9620 IP Deskphone or 9630 IP Deskphone will only upgrade to the 3.2.2 Maintenance Release, since that is the last supported software release on these phones.*

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.

- 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
 - 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
 - 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
 - DUN_S20_v3.tar (Dutch).
 - ENG_S20_v3.tar (UK English)

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

NOTE - The VID files used with H.323 3.2 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.

- 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 zipped 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.

The current 46xxsettings.txt file is available for separate download at <http://support.avaya.com>. **Changed configuration parameters with this release of software are shown in Appendix 3.**

Appendix 1 – Supported Hardware

H.323 3.2.4 software is supported on the following models of IP Deskphones. The Lifecycle status shows the status of these hardware model as of the date of issue of this file.

Comcode	Short Description	Model	Lifecycle Status
700383938	9650	9650D01A	End-of-sale as of 29 June 2013. Will move to end-of-manufacturer support on 29 June 2016.
700408628	9650 W/O FACEPLATE	9650D01A	End-of-sale as of 3 November 2014. Will move to end-of-manufacturer-support on 3 November 2017.
700480833	9620L TAA	9601D02L	End-of-sale as of 7 October 2013. Will move to end-of-manufacturer support on 7 October 2016.
700480841	9650 TAA	9650D01A	
700405673	9630G	9630GD01A	
700408602	9630G W/O FACEPLATE		
700383920	9640	9640D01A	
700408610	9640 W/O FACEPLATE		
700419195	9640G	9640GD01A	
700429095	9640G W/O FACEPLATE		
700460215	9670G	9670GD01A	
700460215	9670G W/O FACEPLATE		
700461197	9620L	9601D02L	End-of-sale as of 3 March 2014. Will move to end-of-manufacturer support on 3 March 2017.
700461239	9620L W/O FACEPLATE	9601D03C	
700461205	9620C		
700461247	9620C W/O FACEPLATE	9650D02C	End-of-sale as of 17 March 2014. Will move to end-of-manufacturer support on 17 March 2017.
700461213	9650C		
700461254	9650C W/O FACEPLATE		
700506209	9650	9650D01A	Orderable.

H.323 3.2.4 software is specifically not supported on the following models of IP Deskphones. The Lifecycle status shows the status of these hardware model as of the date of issue of this file.

Comcode	Short Description	Model	Lifecycle Status
700383912	9610	9610D01A	End-of-manufacturer support on 12 November 2012. Last release of software is 3.1.5
700408578	9610 W/O FACEPLATE		
700426711	9620	9620D01A	End-of-manufacturer support on 12 November 2012. Last release of software is 3.2.2
700408586	9620 W/O FACEPLATE		
700426729	9630	9630D01A	End-of-manufacturer support on 12 August 2012. Last release of software is 3.2.2
700408594	9630 W/O FACEPLATE		

Appendix 2 - Release History - H.323 3.1.x/3.2.x Software

The following table provides a history of the H.323 3.1/3.2 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/9600/111609/96xx_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
3.2.0	S3.2	January 2013	http://support.avaya.com/css/P8/documents/100169011
3.2.1	S3.210A	September 2013	http://support.avaya.com/css/P8/documents/100173977
3.2.2	S3.220A	February 2014	http://support.avaya.com/css/P8/documents/100178236
3.2.3	S3.230A	July 2014	http://support.avaya.com/css/P8/documents/100181797
3.2.4	S3.240A	January 2015	http://support.avaya.com/css/P8/documents/101006277

Appendix 3 – New/Changed 46xxsettings.txt parameters

Changed parameters (changes noted in red).

```
## SLMCLIENT specifies whether the SLA Monitor agent is enabled to accept
## Command Line Interface (CLI) connections.
## Value Operation
## 0 Disabled (default)
## 1 Enabled
## This parameter is supported by:
## 96x1 SIP R6.2 and later up to R6.3.1
## 96x0 H.323 R3.1.4 and later up to R3.2,3
## SET SLMCLIENT 1
```

```
## SLMFSB specifies whether the SLA Monitor agent is enabled for file system browsing.
## Value Operation
## 0 Disabled (default)
## 1 Enabled
## This parameter is supported by:
## 96x1 SIP R6.2 and later
## 96x0 H.323 R3.1.4 and later up to R3.2.3
## SET SLMFSB 1
```

License Agreements

1) Expat 2.0

Downloaded website: <http://expat.sourceforge.net>

Copyright notice: Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and
Clark Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

License URL:

http://expat.cvs.sourceforge.net/viewvc/*checkout*/expat/expat/COPYING?revision=1.4

License version: NA

License text:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and
Clark Cooper
Copyright(c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

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.

2) OpenSSL 1.0.1g

Downloaded 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 rouines 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.]
*/

```

3) W3C Software License

License text:

This work (and included software, documentation such as READMEs, 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 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:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the 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 may 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, 2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright
(c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

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.

This program includes Fribidi software to which Avaya is licensed under a commercial license from Behdad Esfahbod and Peter Grobgeld

2014 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.