

CounterPath Corporation

Suite 300, Bentall One Centre 505 Burrard Street Box 95 Vancouver BC V7X 1M3 Canada

Telephone: +1.604.320.3344 www.counterpath.com

Release Notes for CounterPath Bria 4 for Windows Version 4.3

December 14, 2015

This document applies to:



Retail client: The yellow client with perpetual license.



SaaS client: The red "Bria StrettoTM" client with cloud subscription to CounterPath Stretto.



Branded client: Customized softphone clients.

The softphone client type is identified for each of the features listed in this document.

1 Versions

This document covers the following versions of Bria:

- 4.3.1 released on December 14, 2015
- 4.3.0 released on November 25, 2015
- 4.2.1 released on October 1, 2015
- 4.2.0 released on August 4, 2015

2 System Requirements

The supported operating system are: Windows 7, 8, 8.1, and Windows 10.

Upgrading to Windows 10

After upgrading to Windows 10, you may find that your audio devices/sound have stopped working on Bria. This is due to the audio device changes in Windows 10. If you see this issue, open Bria and configure your device from Softphone > Preferences > Devices. For more details, visit https://support.counterpath.com/announcement/notice-for-all-bria-4-users-upgrading-to-windows-10.

3 Changed Features in 4.3.1

Number of Entries in Call History

Bria now shows 500 call entries maximum in the call history. If you have more than 500 call entries, you will only see the most recent 500 after upgrade.

4 Resolved Issues in 4.3.1

Bria 4.3.1 contains various bug fixes and the improvements in the stability of Bria, including:

- a crash when accessing Outlook
- an issue that Bria does not update the call history correctly
- a performance issue with a long call history

5 Known Issues

Bria Not Appearing after Upgrade

Some users have experienced that after opening Bria, Bria does not appear onscreen; however Bria is running in task manager and system tray. (IM-2082)

Workaround: Close Bria and delete the StrongName folder:

C:\Users\(USERNAME)\AppData\Local\CounterPath\Bria4.exe_StrongName_...

where Bria4 could be BriaStretto or a custom brand name.

Auto Gain Control

The Auto Gain Control setting under Preferences might not control the gain as intended under some circumstances. (IM-1956)

Group Chat

To start a group chat, you choose one or more contacts (who all have XMPP addresses) and choose Start group chat. The Messages window appears. At this point, you can add more participants but only until you send the first message. Once you have sent the first message, you will not be able to add more participants.

A future release of Bria will let you add participants once the session has started.

Installer

If you minimize the Install window during an installation, then when the installation ends, the window moves to the top left corner of the screen where it becomes difficult to close. This is a known issue with the type of installer used with Bria. When the providers of the installer resolve the problem, CounterPath will implement the solution. (K851)

Workaround: Do not minimize the Install window during an installation.

6 Bria 4.3.0 (November 25, 2015)

6.1 New and Changed Features in 4.3.0

Microsoft Outlook® 2016 Support

Bria 4.3.0 includes support for Outlook 2016. If you use Bria Add-In for Outlook® along with Bria, make sure to get the updated version.

Previously Bria only supported 32-bit Outlook for integrating Outlook contacts into Bria's contacts. Bria 4.3.0 supports both 64-bit and 32-bit Outlook. This feature does not require Bria Add-In for Outlook®. Go to Softphone > Account Settings and enable an Outlook account to start using this feature.

This introduced a small change with Profile password handling. You will be prompted if a password is required. The Profile Password field has been removed from the Outlook Account page of Bria.

Conference Call Recording

Conference calls can be recorded using Bria. If a conference call is a video call, only the audio portion of the call will be recorded. (I-2292/S-1658)

Video Quality Statistics

Bria now shows statistics on video quality under Troubleshooting > Video, such as video codec, video size, lost packets and framerate. (I-1336, I-862)

Bigger Video Window

The default size of the Video window has been adjusted so you can see the remote party without expanding the window. If you change the window size, Bria will remember your preference. You can open the Video windows from View > Video, or from Preferences > Devices > Test Camera. (I-2428)

Setting Primary Number in XMPP VCard with PREF Tag



If you have access to XMPP VCard configuration on the XMPP server, you can set a PREF tag for a specific number to be used as a primary phone number on Bria. For example, if a contact has 3 numbers - home, work and mobile, you can set the work number as primary by adding a PREF tag in VCard configuration. When end users double-click the contact, the primary number will be called. (I-2301, S-1684)

```
<TEL>
  <CELL/>
  <VOICE/>
  <NUMBER>7785551234</NUMBER>
</TEL>
```

Verify TLS Certificate on GUI 🍄 💟



The setting for verifying a TLS certificate is now available on GUI. This is a per account setting, configurable for each SIP and XMPP account. Go to Account Settings > SIP/XMPP account > Transport. (I-2497)

SIP Outbound Settings on GUI





A new setting has been added under Account Settings > SIP Account > Advanced. (I-2100, S-1571)

- Added: Use SIP Outbound. When on, Bria uses an existing connection by populating the SIP header as specified in RFC 5626.
 - Name change: Force outbound proxy on all requests (previously called "Use Outbound") When on, Bria will route all outgoing calls through the outbound proxy; in other words it will never send the invite directly to the endpoint but always to the proxy.

6.2 Resolved Issues in Bria 4.3.0

Attended Transfers with Asterisk VolP System

Asterisk users have reported that when transferring a call using "Call First", the recipient of the transfer hears the music on hold.

Bria 4.3.0 includes a change that aims to address the issue. Bria 4.3.0 does *not* put a call on hold before attended transfer, which will hopefully prevent the music to be played for transfer. (O-1795/I-2053)

Preferences for Sounds

When you play sounds one after another, you might hear no sound for a certain item. This issue has been resolved. (IM-2247)

7 Bria 4.2.1 (October 1, 2015)

7.1 Changed Features in Bria 4.2.1

Changes in Plantronics Support

With Bria for Windows 4.2.1, some Plantronics users are no longer required to install the Plantronics Spokes or Hub software in order to use their devices with Bria. This could depend on your device; if you find your experience not optimal, install the Plantronics Hub software to see if it improves the situation.

Note that there is a known limitation that Plantronics does not support use of two devices at the same time.

Changes in Session Timer

The default session timer has been changed from 60 to 90 seconds. Under SIP Account > Advanced. (IM-1686/S-859)

Changes in Provisioning Settings 🍪 🖸



If you provision Bria, there are changes to the provisioning settings in 4.2.1. (IM-2186)

- Deprecated: proxies:proxyN:use_proxy_for_outbound_calls
- Added: proxies:proxy*N*:use_rfc_outbound

See the Bria 4.2 Settings list for details.

7.2 Resolved Issues in Bria 4.2.1

Importing Contacts

Importing contacts using a CSV file might cause Bria to become unresponsive until complete. This issue has been resolved. (IM-1715)

Screenshare

There was an issue that the participants saw a black window when joining a "not-yet-started" session. This issue has been solved; the participants will see a message saying the screen share has not been started by the presenter. The participants will be able to see the screen when the presenter starts sharing. (IM-1582)

Changing Devices while Test Sound is Playing

There was an issue with the troubleshooting functionality that changing devices while playing a sound could cause Bria to stop unexpectedly. This issue has been solved. (IM-1527/S-555)

8 Bria 4.2.0 (August 4, 2015)

8.1 New in Bria 4.2.0

Stretto Sync 🔁 🥸



If you have the Cloud Solutions subscription from CounterPath, you can use the new Stretto Sync feature that lets you sync all the XMPP message history across all your devices. You start a chat on one device then seamlessly continue on another device without losing the previous conversations. This feature is available in the Bria Stretto client and branded clients. For more details on our Cloud Solutions, visit http://www.counterpath.com/cloudsolutions/.

Adaptive Bitrate for OPUS

When a negotiated codec is Opus, Bria adjusts the bitrate throughout the call, based on the current network conditions. For example, when Bria detects many packets are lost, it tries to lower the bitrate.

XMPP Presence Aggregation

When your contact logs into their XMPP account from multiple devices, Bria previously showed only the latest presence change, which occasionally resulted in displaying offline even though the contact is online on other device. With this version, Bria aggregates presences of all the devices, and prioritizes them: for example, if one device has On the Phone and the other has Available, Bria displays On the Phone.

Custom Icons for Web Tabs



If you order a custom/branded client from CounterPath, you can now customize the globe icon used for web tabs. See the Bria 4 Branding Guide for details on the required assets.



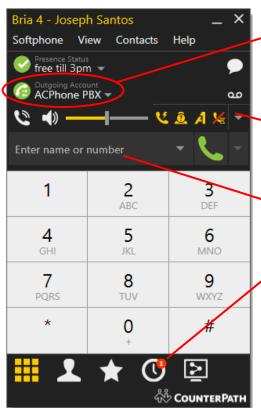
8.2 Changed in Bria 4.2.0

Changes to CounterPath License Server

If you use Bria behind a firewall and specify firewall exceptions based on IP addresses rather than DNS, there is an action required by July 31st, 2015. For details, visit https://support.counterpath.com/announcement/changes-to-counterpath%E2%80%99s-license-server.

For customers that are using the recommended DNS-based approach (secure.counterpath.com), no action is required.

Changes to Dashboard



Outgoing Account Selection

You can choose an outgoing account for calls. If you set it to auto select, the preferred account will be used for outgoing calls. It also includes a shortcut to the Account Settings page. (B-16)

Call Option Indicators

Bria shows which call options are enabled (auto-answer, anonymous calling, letters-to-numbers, disable call waiting). (B-14)

Call Entry Field

The call entry field is always shown on the dashboard. (B-2)

Missed Call Indicator

The missed call indicator has been moved to now appear on the History tab at the bottom. (B-32)

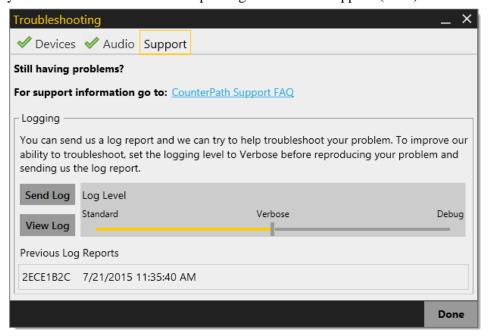
Compact View

You can now hide the dialpad, which brings back a compact view. (B-74)



Troubleshooting Dialog

The Troubleshooting dialog has been simplified. Bria also displays previous log reference numbers just in case you need to refer to them when speaking to Customer Support. (B-40)



Codecs

- Audio codecs iLBC, BV32, and BV32 FEC are no longer available in Bria.
- The Codecs Preferences window no longer shows the Best Quality (PESQ) field.

Codec Priority

The scheme for prioritizing desktop codecs has been changed in order to align with Bria Mobile implementation. If you have configured the codec priority via provisioning, we recommend you change it before rolling out the 4.2 desktop clients to end users.

Previously, a lower number has a higher priority; therefore 1 is the highest priority.

Starting 4.2.0, 0 means the lowest priority. The higher the number gets, higher the priority. For example, priority="6" gets higher priority than priority="4".

Privacy Handling

Previously the Privacy feature allowed users to block their contacts from calling, sending IM, and seeing the user's presence.

Starting this version, privacy is applied to presence subscription only. End users can block a contact through incoming presence requests; if the user ignores a request from a contact, the contact will be blocked for presence subscription, but they can still contact by phone and IM. With this change, the "Block this Person" option as well as the Privacy tab on the Preferences screen have been removed from the client; it no longer supports manual editing of a privacy list.

Call History

- Filters: Available filters are now All and Missed, aligning with our Mobile products. Dialed and received calls will be displayed when you choose All for the call history.
- Icon color: The icon for both outgoing calls and incoming calls are now in green (previously green and blue). (S-230)

Session Timer Options

The session timer preference has new options. Go to SIP Account > Advanced.

Zero-touch Device Configuration

Zero-touch device configuration has been removed from Preferences. Bria automatically detects new devices, but no longer attempts to determine the most appropriate device for each purpose; once you change the selection from Preferences > Devices, Bria will remember your choices when you change devices.

Account Settings

The Advanced Tab

- Added: Use outbound
- Removed: Send outgoing request directly to target
 - If you provision Bria retail clients, you can retain the same behavior by setting
 - "proxies:proxyN:override_outbound_proxy" to false, and
 - "proxies:proxyN:use_proxy_for_outbound_calls" (for 4.2.0) or "proxies:proxyN:use_rfc_outbound" (for 4.2.1) to false.
- Removed: Maximum register time

The Messages Window

The Copy command copies the entire message rather than being able to select specific portions of the message. (IM-1953)

Removed Features

Bria no longer includes the following features:

- Workgroup/BLF: If you order a custom brand, you might be able to include this feature depending on your back end implementation. Contact your CounterPath sales representative.
- HID headsets support
- Deskphone support: it is available for custom brands only.
- Presence agent mode for SIP-based IM/Presence: it is available for custom brands only.
- WebDav- as a way to store contacts in Bria
- XCAP as a way to store contacts in Bria
- Dialing via command line

Pauses iTunes

On Bria for Windows 4.1.1, a preference in Bria to pause iTunes was not working on certain OS versions, as reported by users, due to changes by Apple. As a result, this feature is no longer available on Bria for Windows. This feature is supported in current versions of Windows.

Here is an example of how to set it up, using the OS's Communication Device capability.

The OS treats Bria as a Communication Application, so when a call is received or made on Bria, the OS mutes or lowers the audio volume of other non-communication applications.

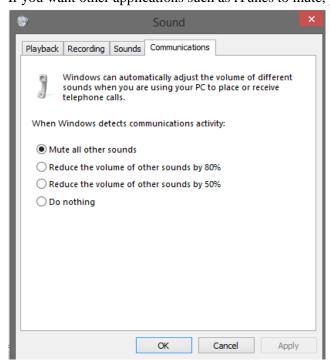
Note that this workaround depends on the support of the headsets/speakers you are using. Try the following method; if it does not work, contact the manufacturer of your headsets or speaker.

1. Right-click the Speaker icon in the task bar.



- 2. Click Playback devices. A dialog opens.
- 3. Right-click the device that you want to use for Bria, and set it to the default communication device. If you have connected only one device to your computer, that device is used as the default communication device.
- 4. Go to the Communication tab, and choose the option you want.

 If you want other applications such as iTunes to mute, pick "Mute all other sounds".



8.3 Resolved Issues in Bria 4.2.0

In general, there have been improvements in the stability of Bria.

Presence

• Presence of the contacts appeared incorrectly such as showing offline when the contact is actually available. This happened when your contacts logged in on multiple devices. This issue has been resolved by introducing the new feature: XMPP presence aggregation. (IM-1897/S-1277)

Call Option Indicators

• In Bria 3.5.4 and 3.5.5, when you choose a call option (letters-to-numbers, anonymous calling, auto-answer), an indicator appears on the call panel for that call, to show that the feature is active. These indicators have been added back to Bria 4.2.

Making a Call using tel:

• When using tel: links, the URI of the INVITE was incorrectly formatted (e.g., including the domain twice). This problem has been resolved. (IM-1565)

Call History

• Call history did not get properly recorded when a Windows user account has non-ASCII characters. This problem has been resolved. (IM-1576)

Messaging

- Emotions might not appear correctly if sent from a mobile device. This issue has been solved. (IM-1799)
- There have been improvements in load time of the Messages window, especially when switching between IM conversations. (IM-1953)

9 Third-party Software Notices

AES

This product includes software copyright (C) Mok-Kong Shen 2003. http://www.mokkong-shen.privat.t-online.de/

The original software has been revised. A copy of the revised package is available at forums.counterpath.com.

Ares

This product includes software Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Awesomium

This product includes software Copyright 2012 by Khrona LLC. All Rights Reserved.

Awesomium (c) 2012 Khrona LLC. All rights reserved. Awesomium is a trademark of Khrona LLC.

Copyright (c) 2008. The Chromium Authors. All rights reserved.

Copyright (c) 1995-2009 International Business Machines Corporation and others. All rights reserved.

This software is based in part on the work of the Independent JPEG Group.

This software is copyright (c) 1991-1998, Thomas G. Lane. All Rights Reserved except as specified.

Copyright (c) 2000-2002 Glenn Randers-Pehrson.

Copyright (c) 1998-2003 Daniel Veillard. All Rights Reserved

Crypto, Libeay, Libeay32, Open SSL

This product includes software Copyright (c) 1998-2005 The OpenSSL Project. All rights reserved. This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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

/

Original SSLeay License

THE POSSIBILITY OF SUCH DAMAGE.

/ 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.]

CURL

This product includes software Copyright © Daniel Stenberg, daniel@haxx.se. All rights reserved.

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2008, Daniel Stenberg, <daniel@haxx.se>.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

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 OF THIRD PARTY RIGHTS. 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.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

Expat

This product includes software Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper

Copyright (c) 2001, 2002 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.

G.722

This product includes software Copyright © 1996-2005 VoiceAge Corporation. All Rights Reserved.

Libxml2

This product includes software Copyright (C) 1998-2003 Daniel Veillard. All Rights Reserved.

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 DANIEL VEILLARD 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.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

NTP

This product includes code that is Copyright © Tom Horsley, 1997-2004. All rights reserved. The right to unlimited distribution and use of this program is granted to anyone who agrees to keep the copyright notice intact and not alter the program.

Opus

This product includes software Copyright © opus-codec.org, 2011-2012. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- Neither the name of Internet Society, IETF or IETF Trust, nor the names of specific contributors, may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, 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.

SILK

This product includes software Copyright (c) 2006-2011, Skype Limited. All rights reserved.

Copyright (c) 2006-2011, Skype Limited. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, (subject to the limitations in the disclaimer below) are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- Neither the name of Skype Limited, nor the names of specific contributors, may be used to endorse or promote products derived from this software without specific prior written permission.

NO EXPRESS OR IMPLIED LICENSES TO ANY PARTY'S PATENT RIGHTS ARE GRANTED BY THIS LICENSE. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, 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.

SOCI

This product includes software Copyright (C) 2004-2008 Maciej Sobczak, Stephen Hutton. All rights reserved.

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

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, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Speex

This product includes software © 2002-2003, Jean-Marc Valin/Xiph.Org Foundation.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- Neither the name of the Xiph.org Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, 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.

SQLite

Portions of this application were written using SQLite, http://sqlite.org/

SRTP

This product includes software Copyright (c) 2001-2005 Cisco Systems, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- Neither the name of the Cisco Systems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT HOLDERS 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.

VP8

This product includes software Copyright (c) 2010, The WebM Project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- Neither the name of Google, nor the WebM Project, nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT HOLDER 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.

This product includes software Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- 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.
- [Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT HOLDER 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.

WebRTC

This product includes software Copyright 2011, The WebRTC project authors. All rights reserved.

Copyright (c) 2011, The WebRTC project authors. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• 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.

• Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "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 COPYRIGHT HOLDER 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.