

**Oracle® Communications
WebRTC Session Controller**

Licensing Information User Manual

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Patents/Applications covered

US 61/284,154

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Patents/Applications covered

US 61/406,106

US 61/394,842

US 7,353,168

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US-2010-0174535-A1

US-2010-0174534-A1

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modules/audio_coding/codecs/g722/main/source/g722_decode.c

modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/isac/main/source/fft.c
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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h
modules/audio_processing/aec/aec_rdft.c
modules/audio_processing/utility/fft4g.c
system_wrappers/interface/scoped_ptr.h
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 * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 * Subject: Re: sqrt routine
 * To: Kevin Ma <kma@google.com>
 * Hi Kevin,
 * Thanks for asking. Those routines are public domain (originally posted to
 * comp.sys.arm a long time ago), so you can use them freely for any purpose.
 * Cheers,
 * Wilco
 *
 * ----- Original Message -----
 * From: "Kevin Ma" <kma@google.com>
 * To: <Wilco.Dijkstra@ntlworld.com>
 * Sent: Thursday, June 23, 2011 11:44 PM
 * Subject: Fwd: sqrt routine
 * Hi Wilco,
 * I saw your sqrt routine from several web sites, including
 * http://www.finesse.demon.co.uk/steven/sqrt.html.
 * Just wonder if there's any copyright information with your Successive
 * approximation routines, or if I can freely use it for any purpose.
 * Thanks.
 * Kevin
 */
```

Files:

modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
```

```
*
* g711.h - In line A-law and u-law conversion routines
*
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```

Files:

```
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modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c
```

License:

```
/*
* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
* Written by Steve Underwood <steveu@coppice.org>
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*
* Based in part on a single channel G.722 codec which is:
*
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 modules/audio_device/mac/portaudio/pa_ringbuffer.c
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/*

* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$
 * Portable Audio I/O Library
 * Memory barrier utilities

*

* Author: Bjorn Roche, XO Audio, LLC

*

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* license above.
*/

/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
 * This program uses the PortAudio Portable Audio Library.
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modules/audio_processing/utility/fft4g.c
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//
```

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system_wrappers/source/spreadsortlib/constants.hpp
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modules/audio_coding/codecs/g722/main/source/g722_decode.c

modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h

modules/audio_coding/codecs/g722/main/source/g722_encode.c

modules/audio_coding/codecs/isac/main/source/fft.c

modules/audio_device/mac/portaudio/pa_memorybarrier.h

modules/audio_device/mac/portaudio/pa_ringbuffer.c

modules/audio_device/mac/portaudio/pa_ringbuffer.h

modules/audio_processing/aec/aec_rdfc.c

modules/audio_processing/utility/fft4g.c

system_wrappers/interface/scoped_ptr.h

system_wrappers/source/condition_variable_event_win.cc

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* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco

*
* ----- Original Message -----
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* <http://www.finesse.demon.co.uk/steven/sqrt.html>.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

Files:
modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g711.h - In line A-law and u-law conversion routines
*
* Written by Steve Underwood <steveu@coppice.org>
*
* Copyright (C) 2001 Steve Underwood
*
* Despite my general liking of the GPL, I place this code in the
* public domain for the benefit of all mankind - even the slimy
* ones who might try to proprietize my work and use it to my
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Files:
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c

License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.

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* Written by Steve Underwood <steveu@coppice.org>
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* Copyright (C) 2005 Steve Underwood
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* Based in part on a single channel G.722 codec which is:
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* Chengxiang Lu and Alex Hauptmann
*/
```

Files:

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modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:

```
/*
* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
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* Author: Bjorn Roche, XO Audio, LLC
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* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
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* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
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Files:

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modules/audio_processing/utility/fft4g.c
```

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Files:

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system_wrappers/interface/scoped_ptr.h
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See http://www.boost.org/libs/smart_ptr/scoped_ptr.htm for documentation.

Files:

system_wrappers/source/condition_variable_event_win.cc

Source:

<http://www1.cse.wustl.edu/~schmidt/ACE-copying.html>

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Files:

system_wrappers/source/spreadsortlib/constants.hpp
system_wrappers/source/spreadsortlib/spreadsort.hpp

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r3959 by and...@webrtc.org on May 5, 2013 Diff

Consolidate all third party licenses in LICENSE_THIRD_PARTY.

- Add the full license to all third party files.
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r3950 by leozw...@webrtc.org on May 3, 2013 Diff

r3939 by niklas.e...@webrtc.org on May 2, 2013 Diff

r2963 by and...@webrtc.org on Oct 22, 2012 Diff

All revisions of this file

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r4356 by henr...@webrtc.org on Jul 16, 2013 Diff

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BUG=1935

R=andrew@webrtc.org, fischman@webrtc.org

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