**OPEN SOURCE SOFTWARE NOTICE**

Please note we provide an open source software notice along with this product and/or this product firmware (in the following just “this product”). The open source software licenses are granted by the respective right holders. And the open source licenses prevail all other license information with regard to the respective open source software contained in the product, including but not limited to End User Software Licensing Agreement. This notice is provided on behalf of Huawei Technologies Co. Ltd. and any of its local subsidiaries which may have provided this product to you in your local country.

**Warranty Disclaimer**

**The open source software in this product is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the applicable licenses for more details.**

**Copyright Notice and License Texts**

Software: libreswan 4.5

**Copyright notice:**

Copyright (c) 2007, NLnet Labs. All rights reserved.  
Copyright (C) 1998-2001,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.  
Copyright (C) 2003-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2015-2019 Andrew Cagney  
Copyright (C) 2003-2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2015-2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 1999-2001,2013-2017 D. Hugh Redelmeier  
Copyright (C) 2018, 2021 Andrew Cagney.  
Copyright (C) 2018, 2019, 2020 Andrew Cagney  
Copyright (C) 2010,2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2012-2015 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2016 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2017-2018 Antony Antony <antony@phenome.org>  
Copyright (C) 2019 Andrew Cagney  
Copyright (C) 2003 Mathieu Lafon <mlafon@arkoon.net>  
Copyright (C) 2012-2016 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2015 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2013-2015 Matt Rogers <mrogers@redhat.com>  
Copyright (C) 2015-2018 Antony Antony <antony@phenome.org>  
Copyright (C) 2020 Ravi Teja <hello@rtcms.dev>  
Copyright (C) 2015 Antony Antony <antony@phenome.org>  
Copyright (C) 2004 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 2008-2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2015-2017 Andrew Cagney  
Copyright (C) 2010-2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 1998-2002,2010-2017 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2003 Herbert Xu  
Copyright (C) 2011-2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2013-2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2021 Andrew cagney  
Copyright (C) 2002-2003 Mathieu Lafon - Arkoon Network Security  
Copyright (C) 2000 Henry Spencer.  
Copyright (C) 2015 Paul Wouters  
Copyright (C) 2001-2002 Mathieu Lafon - Arkoon Network Security  
Copyright (C) 2016-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2003-2008 Herbert Xu  
Copyright (C) 1998-2001 D. Hugh Redelmeier. <hugh@mimosa.com>  
Copyright (C) 2015-2019 Andrew Cagney  
Copyright (C) 2015, 2016 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2012 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2014 Andrew Cagney <andrew.cagney@gmail.com>  
Copyright (C) 2008-2012 Paul Wouters  
Copyright (C) 2021 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2017 Mayank Totale <mtotale@gmail.com>  
Copyright (C) 2013-2018 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 1998-2001, 2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2018-2019 Andrew Cagney  
Copyright (C) 2002 Henry Spencer.  
Copyright (C) 2020 Richard Haines <richardchaines@btinternet.com>  
Copyright (C) 2012-2013 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2021 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2015 Matt Rogers, <mrogers@libreswan.org>  
Copyright (C) 2019-2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2012-2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2016-2020 Andrew Cagney <cagney@gnu.org>  
Copyright (c) 2018 Andrew Cagney  
Copyright (C) 2012-2013 Philippe Vouters <philippe.vouters@laposte.net>  
Copyright (C) 2012 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2020 Antony Antony <antony@phenome.org>  
Copyright (C) 2013 Kim B. Heino <b@bbbs.net>  
Copyright (C) 2012-2013 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2014-2016 Antony Antony <antony@phenome.org>  
Copyright (C) 2017 Richard Guy Briggs <rgb@tricolour.ca>  
Copyright (C) 2020-2021 Andrew Cagney  
Copyright (C) 1999, 2000, 2001 Richard Guy Briggs  
Copyright (C) 1998-2005,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2011 Michael Richardson <mcr@sandelman.ca>  
Copyright (C) 2016-2020 Andrew Cagney  
Copyright (C) 2012 Philippe Vouters <philippe.vouters@laposte.net>  
Copyright (C) 2012-2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2013-2015 Antony Antony <antony@phenome.org>  
Copyright (C) 2004-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 1998, 1999 D. Hugh Redelmeier.  
Copyright (C) 1998-2002,2013,2015 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2003-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 1991 Free Software Foundation, Inc.  
Copyright (C) 2019 Andrew Cagney  
Copyright (C) 2007 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 2012-2017 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2008 Neil Horman <nhorman@redhat.com>  
Copyright (C) 2015,2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2018-2020 Andrew Cagney  
Copyright (C) 1999-2001 D. Hugh Redelmeier  
Copyright (c) Hewlett-Packard Development Company, L.P., 2008, 2010  
Copyright (C) 2018 Vukasin Karadzic <vukasin.karadzic@gmail.com>  
Copyright (C) 2007-2008 Antony Antony <antony@xelerance.com>  
Copyright (C) 2009 Jose Quaresma <josequaresma@gmail.com>  
Copyright (C) 2017,2021 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2015-2016,2018, Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2010 D. Hugh Redelmeier  
Copyright (C) 2003-2004 Andreas Steffen, Zuercher Hochschule Winterthur  
Copyright (C) 2006-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2012 Andrey Alexandrenko <aalexandrenko@telco-tech.de>  
Copyright (C) 2008-2010 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2014-2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2012 Antony Antony <antony@phenome.org>  
Copyright (C) 1998-2001,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2005 Maurice Massar  
Copyright (C) 2021 Paul Wouters <paul.wouters@aiven.io>  
Copyright (C) 1997 Angelos D. Keromytis.  
Copyright (C) 2007-2008 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2014-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2018 D. Hugh Redelmeier (hugh@mimosa.com)  
Copyright (C) 2013 Matt Rogers <mrogers@redhat.com>  
Copyright (C) 2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2021 Daiki Ueno <dueno@redhat.com>  
Copyright (C) 1998, 1999, 2000 Henry Spencer.  
Copyright (C) 2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2007-2011 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2018 Andrew Cagney.  
Copyright (C) 2015 Matt Rogers <mrogers@redhat.com>  
Copyright (C) 1998-2002 D. Hugh Redelmeier.  
Copyright (C) 2012,2107 Antony Antony <antony@phenome.org>  
Copyright (C) 2010-2011 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 1998-2002,2010,2013,2018 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2017, 2020 Andrew Cagney  
Copyright (C) 2016,2018 Andrew Cagney  
Copyright (C) 2013,2016 Antony Antony <antony@phenome.org>  
Copyright (C) 2011 Anthony Tong <atong@TrustedCS.com>  
Copyright (C) 2014-2016 Andrew Cagney <andrew.cagney@gmail.com>  
Copyright (C) 2014,2016 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2009 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2015 Paul Wouters <pwouters@redaht.com>  
Copyright (C) 2012,2016-2017 Antony Antony <appu@phenome.org>  
Copyright (C) 2018 Andrew cagney  
Copyright (C) 2010-2019 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2003-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2008 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2014-2018 Andrew Cagney <andrew.cagney@gmail.com>  
Copyright (C) 2015-2016, Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2007 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2006-2008 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 2018 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2021 Andrew Cagney  
Copyright (C) 2018, 2019 Andrew Cagney  
Copyright (C) 2017-2018 Andrew Cagney  
Copyright (C) 2004-2008 Michael Richardson <mcr@sandelman.ottawa.on.ca>  
Copyright (C) 2009 Ken Wilson <KenWilson@securecomputing.com>  
Copyright (C) 2011 Wolfgang Nothdurft <wolfgang@linogate.de>  
Copyright (C) 2013 D. Hugh Redelmeier  
Copyright (C) 2017 Vukasin Karadzic <vukasin.karadzic@gmail.com>  
Copyright (C) 2009 - 2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2010 Michael Smith <msmith@cbnco.com>  
Copyright (C) 2019 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2015-2017, Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2013 Kim Heino <b@bbbs.net>  
Copyright (C) 2013 Florian Weimer <fweimer@redhat.com>  
Copyright (C) 2013 David McCullough <ucdevel@gmail.com>  
Copyright (C) 2010 Shinichi Furuso <Shinichi.Furuso@jp.sony.com>  
Copyright (C) 2011 Shinichi Furuso <Shinichi.Furuso@jp.sony.com>  
Copyright (C) 2018 Andrew Cagney  
Copyright (C) 2020 Yulia Kuzovkova <ukuzovkova@gmail.com>  
Copyright (C) 2016-2018 Sahana Prasad <sahana.prasad07@gmail.com>  
Copyright (C) 2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2013 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2016 Andrew Cagney <andrew.cagney@gmail.com>  
Copyright (C) 2015-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2015-2016,2018, Andrew Cagney  
Copyright (C) 2010-2017 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2008,2009 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2019-2019 Stepan Broz <stepan@izitra.cz>  
Copyright (C) 2014,2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2012 Wes Hardaker <opensource@hardakers.net>  
Copyright (C) 2014 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2012-2013 D. Hugh Redelmeier  
Copyright (C) 1995, 1996, 1997, 1998, and 1999 WIDE Project.  
Copyright (C) 2008-2009 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2017-2019 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2013 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2017 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2015-2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2019-2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 1998-2001,2010-2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2014-2015 Matt Rogers <mrogers@redhat.com>  
Copyroght (C) 2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2004-2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2018-2019 Andrew Cagney  
Copyright (C) 2012-2017 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2018-2020 Antony Antony <antony@phenome.org>  
Copyright (C) 2007 Ken Bantoft <ken@cyclops.xelerance.com>  
Copyright (C) 2008-2011 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2004-2005 Maurice Massar  
Copyright (C) 2014-2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2017-2019 Antony Antony <antony@phenome.org>  
Copyright (C) 2008 Shingo Yamawaki  
Copyright (C) 1998-2010,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2011 Mattias Walström <lazzer@vmlinux.org>  
Copyright (C) 2005 Michael Richardson <mcr@marajade.sandelman.ca>  
Copyright (C) 1998-2010,2013-2016 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2010 FURUSO Shinichi <Shinichi.Furuso@jp.sony.com>  
Copyright (C) 2014,2016-2017 Andrew Cagney  
Copyright (C) 2012 David McCullough <davidmccullough@mcafee.com>  
Copyright (C) 2003 Ken Bantoft <ken@xelerance.com>  
Copyright (C) 1997 Angelos D. Keromytis.  
Copyright (C) 2009 Carsten Schlote <c.schlote@konzeptpark.de>  
Copyright (C) 2005-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2014 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2013-2016 Antony Antony <antony@phenome.org>  
Copyright (C) 2013,2018 Matt Rogers <mrogers@redhat.com>  
Copyright (C) 2020 Ravi Teja  
Copyright (C) 2017, 2018 Andrew Cagney  
Copyright (c) 2001 by Massimiliano Pala - OpenCA Project.  
Copyright (C) 2008 Ilia Sotnikov  
Copyright (C) 2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2017-2018 Vukasin Karadzic <vukasin.karadzic@gmail.com>  
Copyright (C) 2012 Philippe Vouters <Philippe.Vouters@laposte.net>  
Copyright (C) 2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2013-2014 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2001-2002 Colubris Networks  
Copyright (C) 2004-2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2019-2021 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2006-2007 Michael C Richardson <mcr@xelerance.com>  
Copyright (C) 2012-2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2010 Roman Hoog Antink <rha@open.ch>  
Copyright (C) 2011 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2015-2017 Andrew Cagney <cagney@gnu.com>  
Copyright (C) 2018-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2003-2008 Michael C Richardson <mcr@xelerance.com>  
Copyright (C) 2020, Yulia Kuzovkova <ukuzovkova@gmail.com>  
Copyright (C) 2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 1998-2010 D. Hugh Redelmeier.  
Copyright (C) 1998-2001,2013-2014 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2007-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2017 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2012-2013,2017 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 1998-2001,2015-2017 D. Hugh Redelmeier.  
Copyright (C) 1998-2001, 2013-2017 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2019 Antony Antony <antony@phenome.org>  
Copyright (C) 2016-2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2017, 2021 Andrew Cagney  
Copyright (C) 1998,1999,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2013,2015 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2015 Valeriu Goldberger <vgoldberger@ventusnetworks.com>  
Copyright (C) 2003-2008 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
Copyright (C) 2019 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2017 Andrew Cagney  
Copyright (C) 2000 Henry Spencer.  
Copyright (C) 2012 Bram <bram-bcrafjna-erqzvar@spam.wizbit.be>  
Copyright (C) 2016-2018 Andrew Cagney  
Copyright (C) 2003-2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2007 Ken Bantoft <ken@xelerance.com>  
Copyright (C) 2009-2011 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2016-2017 Andrew Cagney  
Copyright (C) 2014-2015 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2019-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2001 Henry Spencer.  
Copyright (C) 2009-2010 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2014 D. Hugh Redelmeier. <hugh@mimosa.com>  
Copyright (C) 2006 Luis F. Ortiz <lfo@polyad.org>  
Copyright (C) 1998-2002,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 1998-2001 D. Hugh Redelmeier.  
Copyright (C) 2013-2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2015 Andrew Cagney  
Copyright (C) 2014 Antony Antony <antony@phenome.org>  
Copyright (c) 2009-2011, Tobias Klein.  
Copyright (C) 2018-202- Andrew Cagney  
Copyright (C) 2011 Mika Ilmaranta <ilmis@foobar.fi>  
Copyright (C) 2010 Bart Trojanowski <bart@jukie.net>  
Copyright (C) 2020 Yulia Kuzovkova <ukuzovkova@gmail.com>  
Copyright (C) 2013-2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2013-2019 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2009 Seong-hun Lim  
Copyright (C) 2013 Wolfgang Nothdurft <wolfgang@linogate.de>  
Copyright (C) 1998-2002,2015 D. Hugh Redelmeier.  
Copyright (C) 2008 Antony Antony <antony@xelerance.com>  
Copyright 2014,2015 D. Hugh Redelmeier  
Copyright (C) 2002 Mario Strasser  
Copyright (C) 2017-2018 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 1999, 2000, 2001 Henry Spencer.  
Copyright (C) 2018 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2002 Stephane Laroche <stephane.laroche@colubris.com>  
Copyright (C) 2009 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2014-2015, 2018 Andrew cagney <cagney@gnu.org>  
Copyright (C) 2017 Sahana Prasad <sahana.prasad07@gmail.com>  
Copyright (C) 2004-2007 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 2018 Andrew Cagney  
Copyright (C) 2015, 2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2003-2005 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2003 Michael Richardson <mcr@freeswan.org>  
Copyright (C) 2014,2016,2018 Andrew Cagney  
Copyright (C) 2010 Mika Ilmaranta <ilmis@foobar.fi>  
Copyright (C) 2016-2016 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2000 Andreas Hess, Patric Lichtsteiner, Roger Wegmann  
Copyright (C) 2010 Simon Deziel <simon@xelerance.com>  
Copyright (C) 2019-2020 Andrew Cagney  
Copyright (C) 2000-2003 Andreas Steffen, Zuercher Hochschule Winterthur  
Copyright (C) 2010-2019 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2000, 2001 Henry Spencer.  
Copyright (C) 2010 Tuomo Soini <tis@foobar.fi  
Copyright (C) 2009-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2016, Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2003-2004 Xelerance Corporation  
Copyright (C) 2015 Andrew Cagney <andrew.cagney@gmail.com>  
Copyright (C) 2015-2018, Andrew Cagney  
Copyright (C) 2003-2007 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2001 Marco Bertossa, Andreas Schleiss  
Copyright (C) 2019-2020 Andrew Cagney  
Copyright (C) 1998-2010,2013-2017 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2016 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2002 Mario Strasser <mast@gmx.net>, Zuercher Hochschule Winterthur,  
Copyright (C) 2005 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2009, 2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2008-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2004-2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2012-2015 Paul Wouters <paul@libreswan.org>  
Copyright (C) 1998-2001,2013-2016 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2004 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2015-2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2002 Mathieu Lafon - Arkoon Network Security  
Copyright (C) 2007 Ilia Sotnikov  
Copyright (C) 2021 Andrew Cagney  
Copyright (C) 2018 Paul Woutets <pwouters@redhat.com>  
Copyright (C) 2015, 2017, 2019 Andrew Cagney  
Copyright (C) 2008 Hiren Joshi <joshihirenn@gmail.com>  
Copyright (C) 2016 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2014 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2010, 2016 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2012-2013 Kim B. Heino <b@bbbs.net>  
Copyright (C) 1998-2002,2013-2016 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2013 Antony Antony <antony@phenome.org>  
Copyright (C) 2017-2018 Sahana Prasad <sahana.prasad07@gmail.com>  
Copyright (C) 2012-2014 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2014 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2010-2013 Paul Wouters <paul@redhat.com>  
Copyright (C) 2007 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2018 - 2020 Vukasin Karadzic <vukasin.karadzic@gmail.com>  
Copyright (C) 2003-2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2017-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 1998-2002,2010-2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2005-2006 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2009-2016 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2015 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2006-2012 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2009 Anthony Tong <atong@TrustedCS.com>  
Copyright (C) 2013-2018 Antony Antony <antony@phenome.org>  
Copyright (C) 1998-2004 D. Hugh Redelmeier.  
Copyright (C) 2010-2019 Tuomo Soini <tis@foobar.fi  
Copyright (C) 2014 D. Hugh Redelmeier.  
Copyright (C) 2020 Andrew Cagney  
Copyright (C) 2008 Anthony Tong <atong@TrustedCS.com>  
Copyright (C) 2013,2017 Antony Antony <antony@phenome.org>  
Copyright (C) 2007 Bart Trojanowski <bart@jukie.net>  
Copyright (C) 2003-2008,2012-2013,2019 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2012-2019 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2006-2010 Bart Trojanowski  
Copyright (C) 2003-2007 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2018, Andrew Cagney  
Copyright (C) 2013-2014 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2015-2016 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2014-2015,2017 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2000-2004 Andreas Steffen, Zuercher Hochschule Winterthur  
Copyright (C) 2017 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2005-2007 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2011-2012 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2010 David McCullough <davidmccullough@securecomputing.com>  
Copyright (C) 2008,2012-2017 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2015 Matt Rogers <mrogers@libreswan.org>  
Copyright (C) 2003 Sean Mathews - Nu Tech Software Solutions, inc.  
Copyright (C) 2015,2018 Matt Rogers <mrogers@libreswan.org>  
Copyright (C) 1998-2001,2013 D. Hugh Redelmeier.  
Copyright (C) 2012-2018 Antony Antony <antony@phenome.org>  
Copyright (C) 2018 Sahana Prasad <sahana.prasad07@gmail.com>  
Copyright (C) 2017-2019 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2006-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2020 Andrew Cagney  
Copyright (C) 2006 Ken Bantoft <ken@xelerance.com>  
Copyright (C) 2010 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2019-2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2015-2020 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2016-2018 Antony Antony <appu@phenome.org>  
Copyright (c) Red Hat, 2012  
Copyright (C) 2006 Bart Trojanowski <bart@jukie.net>  
Copyright (C) 2013-2015 Matt Rogers, <mrogers@libreswan.org>  
Copyright (C) 2016 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2015,2018 Andrew Cagney  
Copyright (C) 2002-2004 Andreas Steffen, Zuercher Hochschule Winterthur  
Copyright (C) 1998-2002, 2013,2016 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2010 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2005 Ken Bantoft <ken@xelerance.com>  
Copyright (C) 2010 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2013-2019 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2007-2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)  
Copyright (C) 2009 Stefan Arentz <stefan@arentz.ca>  
Copyright (C) 2009,2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2013 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2012 Kim B. Heino <b@bbbs.net>  
Copyright (C) 2012, 2016 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2003-2011 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2012-2018 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2017-2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2006-2007 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2007-2008 Michael C. Richardson <mcr@xelerance.com>  
Copyright 2005 Michael C. Richardson <mcr@xelerance.com>  
Copyright (C) 2010,2013 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2008-2010 David McCullough.  
Copyright (C) 2001-2004 Andreas Steffen, Zuercher Hochschule Winterthur  
Copyright (C) 2013-2017 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2008 Andreas Steffen  
Copyright (C) 2007,2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2012 Panagiotis Tamtamis <tamtamis@gmail.com>  
Copyright (c) 2016 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2012,2020 Paul Wouters <paul@libreswan.org>  
Copyright (C) 2013,2017 Paul Wouters <pwouters@redhat.com>  
Copyright (C) 2003-2005 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2018-2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2007-2008 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2004 Michael Richardson <mcr@sandelman.ottawa.on.ca>  
Copyright (C) 1998-2003 D. Hugh Redelmeier.  
Copyright (C) 2009-2012 Avesh Agarwal <avagarwa@redhat.com>  
Copyright (C) 2018 Kim B. Heino <b@bbbs.net>  
Copyright (C) 2004-2009 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2004 Xelerance Corporation  
Copyright (C) 2009 Gilles Espinasse <g.esp@free.fr>  
Copyright (C) 2017, 2019 Andrew Cagney  
Copyright (C) 2010,2013 D. Hugh Redelmeier <hugh@mimosa.com>  
Copyright (C) 2009-2010 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2003 Michael Richardson <mcr@xelerance.com>  
Copyright (C) 2009 Tuomo Soini <tis@foobar.fi>  
Copyright (C) 2005-2007 Michael Richardson  
Copyright (C) 2016,2020 Andrew Cagney <cagney@gnu.org>  
Copyright (C) 2013 Paul Wouters  
Copyright (C) 2003-2008 Paul Wouters <paul@xelerance.com>  
Copyright (C) 2002 D. Hugh Redelmeier.

**License:** GPLv2

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991  
  
Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
  
Preamble  
  
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.  
  
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.  
  
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.  
  
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.  
  
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.  
  
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.  
  
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.  
  
The precise terms and conditions for copying, distribution and modification follow.  
  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
  
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".  
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.  
  
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.  
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.  
  
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:  
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.  
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.  
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)  
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.  
  
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.  
  
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.  
  
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:  
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,  
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,  
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)  
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.  
  
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.  
  
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.  
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.  
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.  
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.  
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.  
  
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.  
  
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.  
  
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.  
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.  
  
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.  
NO WARRANTY  
  
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.  
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.  
END OF TERMS AND CONDITIONS  
  
How to Apply These Terms to Your New Programs  
  
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.  
  
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.  
  
<one line to give the program's name and an idea of what it does.>   
Copyright (C) <yyyy> <name of author>  
  
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.  
  
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.  
  
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.  
  
Also add information on how to contact you by electronic and paper mail.  
  
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:  
  
Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.  
  
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.  
  
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:  
  
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.  
  
<signature of Ty Coon>, 1 April 1989 Ty Coon, President of Vice  
  
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

**Written Offer**

This product contains software whose rights holders license it on the terms of the GNU General Public License, version 2 (GPLv2) and/or other open source software licenses. We will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:

foss@huawei.com

detailing the name of the product and the firmware version for which you need the source code and indicating how we can contact you.

Please note you need to make a payment before you obtain the complete Corresponding Source Code from us. For how much you will pay and how we will deliver the complete Corresponding Source Code to you, we will further discuss it by mail or email.

This offer is valid to anyone in receipt of this information.

**This offer is valid for three years from the moment we distributed the product or firmware .**