
EFOS Externally Licensed Software

Version 1.0

May 02, 2022

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2 General Information

2.1 Overview

EFOS 3.9 contains a number of 3rd party externally licensed software components. This document contains information regarding these components, the license for each of these components, and where these components are used in EFOS.

3 Externally Licensed Components

Component Name	Component Source	Source Version	Used in EFOS Module	Modified original code?	License Terms & Conditions
DHCP Client	Red Hat eCos http://ecos.sourceware.org/old-license.html	eCos 1.1	Switching	Yes	Appendix A
Routing	The FreeBSD Project http://www.freebsd.org/	1.130.2.21	Multicast Routing	Yes	Appendix B
Base code download and decompression	Jean-loup Gailly and Mark Adler http://sourceforge.net/projects/libpng/files/zlib/1.1.4/	1.1.4	Switching	Yes	Appendix C
SSH	The OpenSSH Project http://www.openssh.org	8.0P1	Management	Yes	Appendix D
SSL	The OpenSSL Project http://www.openssl.org	1.1.1m	Management	No	Appendix E
IP Multicast (IGMP, DVMRP)	The Regents of the University of Michigan and Merit Network, Inc. http://www.regents.umich.edu/	2.2.0	IP Multicast	Yes	Appendix F Appendix G
MD5	RSA Data Security, Inc http://www.ietf.org/rfc/rfc1321.txt	RFC 1321	Switching	Yes	Appendix H
HMAC	RSA Data Security, Inc http://www.ietf.org/rfc/rfc2104.txt	RFC 2104	Switching	Yes	Appendix H
Net-SNMP	Net-SNMP project http://net-snmp.sourceforge.net/	5.9	Management	Yes	Appendix I
i2c-ismt	http://git.kernel.org/cgit/linux/kernel/git/stable/linux-stable.git/tree/drivers/i2c/busses/i2c-ismt.c	4.4.79	Linux BSP	Yes	Appendix J
i2c-i801	http://git.kernel.org/cgit/linux/kernel/git/stable/linux-stable.git/tree/drivers/i2c/busses/i2c-i801.c	5.1.2	Linux BSP	Yes	Appendix J

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igb	https://sourceforge.net/projects/e1000/files/igb%20stable/	5.0.6	Linux BSP	Yes	Appendix J
Das U-Boot	DENX Software Engineering http://git.denx.de/?p=u-boot.git	1.1.1	Linux BSP	Yes	Appendix J
Busybox	http://www.busybox.net/downloads/	1.31.1	Linux BSP	No	Appendix J
Lrzs	Uwe Ohse http://ohse.de/uwe/software/lrzs.html	0.12.20	Linux BSP	No	Appendix J
Utelnetd	Pengutronix http://www.pengutronix.com/software/utelned/download/	0.1.4	Linux BSP	No	Appendix J
Mtd	Arcom Control System, Ltd. ftp://ftp.infradead.org/pub/mtd-utils/	2.0.2	Linux BSP	No	Appendix J
7-Zip	Igor Pavlov http://www.7-zip.org/download.html	4.48	Bootloader (CFE)	No	Appendix K
YUI Compressor	Yahoo! Inc http://yuilib.com/downloads/#yuicompressor	2.4.2	Tools/Build	No	Appendix L
Strace	https://strace.io/files/4.26/	4.26	BSP	No	Appendix M
DHCPv6	KAME Project http://sourceforge.net/projects/wide-dhcpv6/files/	20080615 tar ball	IPv6	Yes	Appendix N
ONIE	GITHUB https://github.com/opencomputeproject/onie	2016.04	ONIE	Yes	Appendix J
Ubuntu Bionic Kernel	http://kernel.ubuntu.com/git/ubuntu/ubuntu-bionic.git/tag/?h=Ubuntu-4.15.0-97.98	Ubuntu-4.15.0-97.98 linux-4.15.18	Linux BSP	Yes	Appendix R
OVS 2.3.0	http://openvswitch.org/releases/openvswitch-2.3.0.tar.gz	2.3.0	Base	Yes	Appendix S
Cjson	http://sourceforge.net/projects/cjson/	N/A	Base	Yes	Appendix T
Libnetconf	https://github.com/cesnet/libnetconf	0.10.x	Management	Yes	Appendix U
Libxml2	https://git.gnome.org/browse/libxml2/	2.9.2	Management	No	Appendix V
Libxslt	https://git.gnome.org/browse/libxslt/	1.1.27	Management	No	Appendix W
gdbserver	http://ftp.gnu.org/gnu/gdb/	7.12.1	Tools	Yes	Appendix AH
miniterm.py	https://github.com/pyserial/pyserial	2.6	Tools	Yes	Appendix X
Bootenv	Not Traceable	2.0	BSP	Yes	Appendix J

Component Name	Component Source	Source Version	Used in EFOS Module	Modified original code?	License Terms & Conditions
Ext2 Filesystems Utilities	https://sourceforge.net/projects/e2fsprogs/	1.45.	Tools/Build	No	Appendix AK
i2c-tools	http://github.com/groeck/i2c-tools/	3.1.0	Linux BSP	No	Appendix Z
iproute2	https://wiki.linuxfoundation.org/networking/iproute2	3.12.0	Routing	No	Appendix J
IPTables	https://netfilter.org/projects/iptables/index.html	1.4.5	OpenApps	No	Appendix J
Port Map	git://neil.brown.name/portmap	6.0	RPC	No	Appendix AB
x86emu	https://github.com/wfeldt/libx86emu	N/A	CFE	No	Appendix AA
ezXML	https://sourceforge.net/projects/ezxml/	0.8.6	Switching	Yes	Appendix AC
Libdwarf	https://github.com/tomhughes/libdwarf	20110612	Tools/Build	No	Appendix Z
libelf	http://www.mr511.de/software/english.html	0.8.13	Tools/Build	No	Appendix J
Mongoose	https://code.google.com/archive/p/mongoose/	NA	OpenApps	No	Appendix J
Pyang	https://github.com/mbj4668/pyang	1.2	RESTCONF	No	Appendix AF
Python Serial Port Extension – pyserial	https://sourceforge.net/projects/pyserial/	NA	Base	Yes	Appendix AD
Sauce-rest-api	http://saucelabs.com/	NA	OpenApps	No	Appendix AG
DTC – libfdt	https://github.com/dgibson/dtc/tree/master/libfdt	N/A	Tools/Build	No	Appendix AA
OpenLDAP	https://www.openldap.org/software/download/OpenLDAP/openldap-release/openldap-2.4.45.tgz	2.4.45	Management	Yes	Appendix AE
efibootmgr	https://github.com/rhboot/efibootmgr	15	BSP	No	Appendix J
efivar	https://github.com/rhboot/efivar	37	BSP	No	Appendix Z
libc	git://sourceware.org/git/glibc.git	2.28	Tools/Build	No	Appendix Z
wget	https://ftp.gnu.org/gnu/wget/	1.20.3	Tools	No	Appendix AH
gettext	https://ftp.gnu.org/gnu/wget/	1.20.3	Tools	No	Appendix AL
gettext	https://ftp.gnu.org/gnu/glibc/glibc-2.28.tar.gz	2.28	Tools	No	Appendix AM
ipmitool	https://github.com/ipmitool/ipmitool/releases/download/IPMITOOL_1_8_18/ipmitool-1.8.18.tar.bz2	1.8.18	Tools	No	Appendix AN

Component Name	Component Source	Source Version	Used in EFOS Module	Modified original code?	License Terms & Conditions
libreadline	https://ftp.gnu.org/gnu/readline/readline-8.0.tar.gz	8.0	Tools	No	Appendix AH
libncurses	https://git.busybox.net/buildroot/	6.1	Tools	No	Appendix J
libtirpc	http://downloads.sourceforge.net/project/libtirpc/libtirpc/	1.1.4	Tools	No	Appendix AO
lighttpd	https://download.lighttpd.net/lighttpd/releases-1.4.x/lighttpd-1.4.26.tar.bz2	1.4.26	Management	Yes	Appendix AJ
libpcap	https://github.com/the-tcpdump-group/libpcap	1.9.1	Tools	No	Appendix AP
libsgutils	https://github.com/hreinecke/sg3_utils	NA	Tools	No	Appendix AA
tcpdump	https://github.com/the-tcpdump-group/tcpdump	4.9.3	Tools	No	Appendix AP
libnsl	https://github.com/thkukuk/libnsl	2.28	Tools	No	Appendix Z
util-linux	https://www.kernel.org/pub/linux/utils/util-linux/	2.37	Tools	No	Appendix J

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Appendix C

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.1, November 17th, 2003 Copyright (C) 1995-2003 Jean-loup Gailly and Mark Adler.

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Mark Adler madler@alumni.caltech.edu

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- RSA is no longer included, found in the OpenSSL library
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- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL

- Blowfish is now external, in the OpenSSL library

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Appendix AD

Python License Terms and Conditions

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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Theodore Ts'o
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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