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Firmware: V1.00(ABLM3).C0

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Version 3, 29 June 2007

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OpenSSL 1.0.0-beta3 15 Jul 2009

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DESCRIPTION

The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, fully featured, and Open Source toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library. The project is managed by a worldwide community of volunteers that use the Internet to communicate, plan, and develop the OpenSSL toolkit and its related documentation.

OpenSSL is based on the excellent SSLeay library developed from Eric A. Young and Tim J. Hudson. The OpenSSL toolkit is licensed under a dual-license (the OpenSSL license plus the SSLeay license) situation, which basically means that you are free to get and use it for commercial and non-commercial purposes as long as you fulfill the conditions of both licenses.

OVERVIEW

The OpenSSL toolkit includes:

libssl.a:

Implementation of SSLv2, SSLv3, TLSv1 and the required code to support both SSLv2, SSLv3 and TLSv1 in the one server and client.

libcrypto.a:

General encryption and X.509 v1/v3 stuff needed by SSL/TLS but not actually logically part of it. It includes routines for the following:

Ciphers

libdes - EAY's libdes DES encryption package which was floating around the net for a few years, and was then relicensed by him as part of SSLeay. It includes 15 'modes/variations' of DES (1, 2 and 3 key versions of ecb, cbc, cfb and ofb; pcbc and a more general form of cfb and ofb) including desx in cbc mode, a fast crypt(3), and routines to read passwords from the keyboard.

RC4 encryption,

RC2 encryption - 4 different modes, ecb, cbc, cfb and ofb.

Blowfish encryption - 4 different modes, ecb, cbc, cfb and ofb.

IDEA encryption - 4 different modes, ecb, cbc, cfb and ofb.

Digests

MD5 and MD2 message digest algorithms, fast implementations,

SHA (SHA-0) and SHA-1 message digest algorithms,

MDC2 message digest. A DES based hash that is popular on smart cards.

Public Key

RSA encryption/decryption/generation.

There is no limit on the number of bits.

DSA encryption/decryption/generation.

There is no limit on the number of bits.

Diffie-Hellman key-exchange/key generation.

There is no limit on the number of bits.

X.509v3 certificates

X509 encoding/decoding into/from binary ASN1 and a PEM based ASCII-binary encoding which supports encryption with a private key. Program to generate RSA and DSA certificate requests and to generate RSA and DSA certificates.

Systems

The normal digital envelope routines and base64 encoding. Higher level access to ciphers and digests by name. New ciphers can be loaded at run time. The BIO io system which is a simple non-blocking IO abstraction. Current methods supported are file descriptors, sockets, socket accept, socket connect, memory buffer, buffering, SSL

client/server, file pointer, encryption, digest, non-blocking testing and null.

Data structures

A dynamically growing hashing system

A simple stack.

A Configuration loader that uses a format similar to MS .ini files.

openssl:

A command line tool that can be used for:

Creation of RSA, DH and DSA key parameters

Creation of X.509 certificates, CSRs and CRLs

Calculation of Message Digests

Encryption and Decryption with Ciphers

SSL/TLS Client and Server Tests

Handling of S/MIME signed or encrypted mail

PATENTS

Various companies hold various patents for various algorithms in various locations around the world. YOU are responsible for ensuring that your use of any algorithms is legal by checking if there are any patents in your country. The file contains some of the patents that we know about or are rumored to exist. This is not a definitive list.

RSA Security holds software patents on the RC5 algorithm. If you intend to use this cipher, you must contact RSA Security for licensing conditions. Their web page is <http://www.rsasecurity.com/>.

RC4 is a trademark of RSA Security, so use of this label should perhaps only be used with RSA Security's permission.

The IDEA algorithm is patented by Ascom in Austria, France, Germany, Italy, Japan, the Netherlands, Spain, Sweden, Switzerland, UK and the USA. They should be contacted if that algorithm is to be used; their web page is <http://www.ascom.ch/>.

The MDC2 algorithm is patented by IBM.

NTT and Mitsubishi have patents and pending patents on the Camellia algorithm, but allow use at no charge without requiring an explicit licensing agreement: <http://info.isl.ntt.co.jp/crypt/eng/info/chiteki.html>

INSTALLATION

To install this package under a Unix derivative, read the INSTALL file. For a Win32 platform, read the INSTALL.W32 file. For OpenVMS systems, read INSTALL.VMS.

Read the documentation in the doc/ directory. It is quite rough, but it lists the functions; you will probably have to look at the code to work out how to use them. Look at the example programs.

PROBLEMS

For some platforms, there are some known problems that may affect the user or application author. We try to collect those in doc/PROBLEMS, with current thoughts on how they should be solved in a future of OpenSSL.

SUPPORT

If you have any problems with OpenSSL then please take the following steps first:

- Download the current snapshot from <ftp://ftp.openssl.org/snapshot/> to see if the problem has already been addressed
- Remove ASM versions of libraries
- Remove compiler optimisation flags

If you wish to report a bug then please include the following information in any bug report:

- On Unix systems:
 - Self-test report generated by 'make report'
- On other systems:
 - OpenSSL version: output of 'openssl version -a'
 - OS Name, Version, Hardware platform
 - Compiler Details (name, version)
- Application Details (name, version)
- Problem Description (steps that will reproduce the problem, if known)
- Stack Traceback (if the application dumps core)

Report the bug to the OpenSSL project via the Request Tracker

(<http://www.openssl.org/support/rt.html>) by mail to:

`openssl-bugs@openssl.org`

Note that mail to `openssl-bugs@openssl.org` is recorded in the publicly readable request tracker database and is forwarded to a public mailing list. Confidential mail may be sent to `openssl-security@openssl.org` (PGP key available from the key servers).

HOW TO CONTRIBUTE TO OpenSSL

Development is coordinated on the `openssl-dev` mailing list (see <http://www.openssl.org> for information on subscribing). If you would like to submit a patch, send it to `openssl-dev@openssl.org` with the string "[PATCH]" in the subject. Please be sure to include a textual explanation of what your patch does.

Note: For legal reasons, contributions from the US can be accepted only if a TSU notification and a copy of the patch are sent to `crypt@bis.doc.gov` (formerly BXA) with a copy to the ENC Encryption Request Coordinator; please take some time to look at

<http://www.bis.doc.gov/Encryption/PubAvailEncSourceCodeNotify.html> [sic]
and

<http://w3.access.gpo.gov/bis/ear/pdf/740.pdf> (EAR Section 740.13(e))
for the details. If "your encryption source code is too large to serve as

an email attachment", they are glad to receive it by fax instead; hope you have a cheap long-distance plan.

Our preferred format for changes is "diff -u" output. You might generate it like this:

```
# cd openssl-work
# [your changes]
# ./Configure dist; make clean
# cd ..
# diff -ur openssl-orig openssl-work > mydiffs.patch
```

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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Mark Adler madler@alumni.caltech.edu

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

Model: Digitalisierungsbox LTE Backup
 Firmware version: V1.00(ABLM.3)C0
 Document Version: 1

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dhcp-forwarder	0.7	http://www.tu-chemnitz.de/~ensc/dhcp-fwd/files/0.7-0.tar.bz2	GPL V2.0	Modified
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ebtables	v2.0.10-4	http://dl.sf.net/ebtables/ebtables-v2.0.10-4.tar.gz	GPL V2.0	Modified
etherdump	v.2.01	http://sourceforge.net/projects/psvdev/files/etherdump/	GPL	Modified
igmpv3	v 34	http://www.filewatcher.com/m/draft-liu-magma-igmpv3-mldv2-lite-03.txt.719-0.html	GPL V2.1	Modified
IPTables	1.4.10	http://pkgs.fedoraproject.org/repo/pkgs/iptables/iptables-1.4.10.tar.bz2/f382fe693f0b59d	GPL V2.0	Modified
I2tp	v 0.4	http://sourceforge.net/projects/irp-i2tp/	GPL V2.0	Modified
ld-uClibc	v0.9.30.3	http://uclibc.org/	LGPL V2.1	Used
Lib flex	v2.5.35	http://flex.sourceforge.net/	LGPL	Modified
Lib readline	v 5.2	http://www.gnu.org/gnu.html	LGPL	Modified
libcrypt	v0.9.30.3	http://uclibc.org/	LGPL V2.1 & GPL3	Used
libdl	v0.9.30.3	http://uclibc.org/	Apache License V2	Used
libgcc_s	v4.3.5	http://gcc.gnu.org/	GPL V2.0	Used
libz	v4.3.5	http://gcc.gnu.org/	GPL V2.0	Used
libm	v0.9.30.3	http://uclibc.org/	LGPL V3 & GPL3	Used
libns	v0.9.30.3	http://uclibc.org/	LGPL V2.1	Used
libpthread	v0.9.30.3	http://uclibc.org/	Apache License V2	Used
libresolv	v0.9.30.3	http://uclibc.org/	LGPL V2.1	Used
Librt	v0.9.30.3	http://uclibc.org/	LGPL V2.1	Modified
libutil	v0.9.30.3	http://uclibc.org/	LGPL V2.1	Used
libz	v1.2.5	http://www.zlib.net/	zlib License	Used
linux	v2.6.36	https://www.kernel.org/	GPL2	Modified
MiniUPnP	v 1.7	http://freecode.com/projects/miniupnp	GPL V2.0	Modified
MtdUtils	v1.5.0	http://www.linux-mtd.infradead.org/	GPL V2.0	Modified
npd6	v1.1.0	http://npd6.github.io/npd6/	GPL3	Used
ntpclient	ntpclient_2007_365	http://doolittle.icarus.com/ntpclient/	GPL V2.0	Modified
OpenSSL	v1.0.2c	http://www.openssl.org/	GPL V2.0	Modified
pppd	v 2.4	http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/ppp.html	GPL V2.0	Modified
pppoe	v 3.6	https://www.roaringpenguin.com/penguin/pppoe/irp-pppoe-3.6.tar.gz	GPL V2.0	Modified
pptp	v 1.4	http://pptpclient.sourceforge.net/	GPL V2.0	Modified
Quagga Routing	0.99.22	https://bugzilla.quagga.net	GPL V2.0	Modified
radvd	v 1.1	http://www.litech.org/radvd/	BSD	Modified
snmp	v 4.1.2	http://www.filewatcher.com/m/Net-SNMP-4.1.2.tar.gz.71965-0.html	GPL V2.0	Modified
Socat	v2.0.0-b4	http://www.dest-unreach.org/socat/	GPL V2.0	Modified
tc	v 0.8	http://www.driverguide.com/driver/detail.php?driverid=824210	GPL V2.0	Modified
udhcp server/client	0.9.9-pre	http://www.linuxfromscratch.org/blfs/view/7.6/basicnet/dhcp.html	GPL V2.0	Modified
Wget	v 1.7.1	ftp://ftp.gnu.org/pub/gnu/wget/wget-1.7.tar.gz	GPL V2.0	Modified
WIDE-DHCPv6	v 1.3	http://sourceforge.net/projects/wide-dhcpv6/	BSD	Modified
Wireless Tools	v29	http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html	GPL V2.0	Modified