

NexGenSSL

Embedded secure socket layer

- Fully written in ANSI C
- Highly secured
- Reentrant & Romable
- Client & server
- Fast and reliable
- Polling or RTOS mode
- Optimized (ROM/RAM)
- No compiler dependencies
- Fully tested over NexGenIP
- Source code, royalty-free

Optional protocols:

- NAPT
- SNMP v1/v2/v3
- Dual TCP/IP v4/v6
- POP3/SMTP/IMAP4
- PPPv6
- DHCP server (v4)
- FTP client & server
- HTTP client & server
- RTP/RTSP

BUILT FROM OPENSLL PROJECT

NexGenSSL Library is derived from the OpenSSL Project; the OpenSSL Library has been split in two parts: the NexGenCrypt library, which contains the cryptographic algorithms and the NexGenSSL library. StacLan thanks Eric A. Young and Tim J. Hudson for their excellent library.

ARCHITECTURE

Secure Sockets Layer (SSL) is a protocol that provides a secure channel between two machines. It has facilities for protecting data and identifying the peers. The secure channel is transparent, which means that it passes the data through unchanged. The data is encrypted between client and server, but the data that one end writes is exactly what the other end reads. the notation SSL means SSLv2, SSLv3 and TLS. NexGenSSL can be used as server or client side.

SSL is a new network layer that runs in-between applications and TCP/IP.

The fact that SSL is a top level network layer has two significant consequences:

- the TCP/IP sockets are now used by SSL, on behalf of the higher-level applications
- SSL applications need to be specifically designed to use SSL

In order to use NexGenSSL, you may need the NexGenCRYPT and NexGenWEB libraries.

PORTABILITY

NexGenSSL can be used either in polling or RTOS mode. All dependencies have been isolated in a porting layer called NexGenOS. By using a such architecture the stack is totally portable in few days.

NexGenOS includes a wrapper of the most popular RTOS including Nucleus, pSOS, VxWorks, Linux, DOS, Win32k, OS20/21, EmBOS, OSE, Neutrino, QNX4, RTC, RTKernel, RTX, µC/OS, and virtually any others RTOS. There are also numerous Ethernet drivers included.

SUPPORTED PROCESSORS & RTOS

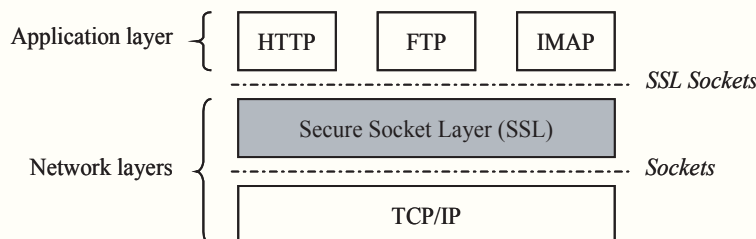
Most of the 16-32 -64 bit processors are supported. x86, SH-series, ARM, 68K, Coldfire, ARC, M16/32C, C166, StrongARM, MIPS, ST20, ST40, DSP, PowerPC, 320C5416. A new port takes a couple of days to develop.

TECHNICAL SUPPORT

6 months free of charge. Extended annual support available. Specific development or porting are possible. Please call us.

LICENSING

Source code, per-projet, royalty-free



StacLan
Embedded IP Protocols

46 Avenue des Frères Lumière
78190 TRAPPES - FR
tel: +33 (0)1 3013 2085
fax: +33 (0)1 3013 1727
<http://www.staclan.com>