

NexGenSNMP

Embedded SNMP Agent v1/v2/v3

- Fully written in ANSI C
- Highly optimized (18-25 KB)
- Reentrant & Romable
- Small critical section
- RTOS open interface
- Easy to add a new MIB
- Fast and reliable
- Polling or RTOS mode
- No CPU/OS dependencies
- No compiler dependencies
- Fully tested
- Source code, royalty-free

BUILT FROM THE GROUND UP

NexGenSNMP was designed from the ground up to satisfy both embedded constraints and OEM specificities. It is compact, highly portable and can be easily extended to support new MIB(s). NexGenSNMP is specifically designed to work with NexGenIP.

ARCHITECTURE

NexGenSNMP enables the creation of generic SNMP agents running different applications contexts. All the standard MIB(s) are provided (along with the NexGenIP TCP/IP stack). NexGenSNMP will handle internally all low level processing including the parsing of SNMP requests as well as building the correct answers or enabling the navigation through the MIB(s) variables.

Note that NexGenSNMP does not perform any direct access to the variables in MIB(s) modules. It rather uses a callback mechanism ensuring the library remains independent of the MIB(s). It is easy to add/remove a new MIB without using any specific compiler.

SUPPORTED RFCs

- SNMP v1, v2: RFC 1155, 1157, 1353, 1354, 1398, 1447
- SNMP v2: RFC 1573, 1757, 1902 to 1908, 2011, 2012, 2013, 2096, 2863
- SNMP v3: RFC 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3584
- MIB II: RFC 1213

PORTABILITY

NexGenSNMP 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

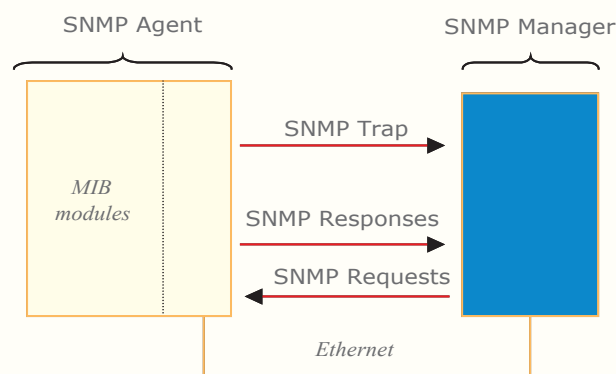
6 months free of charge. Extended annual support available. Specific development or porting are possible. Please call us.

LICENSING

Source code, per-projet, royalty-free

Optional protocols:

- HTTP client & server
- NAT
- Dual TCP/IP v4/v6
- POP3/SMTP/IMAP4
- PPPv6
- DHCP server (v4)
- FTP client & server
- SSL
- RTP/RTSP



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