Fusion Embedded™ SNMP

Fusion Embedded Network Management Protocols are:

- SNMP v2c (SNMP v1 & v2)
- SNMP v3 (SNMP v1, v2, & v3)

The Fusion Embedded Networking Suite of protocols provides a complete protocol stack and run-time environment required to support an SNMP Protocol agent within an embedded system. The Fusion SNMP includes examples of device drivers, complete 'C' source code of SNMP agent, full MIB II agent support, and a MIB C code generator. Its modular design allows it to run with virtually any TCP/IP stack.

Simple Network Management Protocol

The MIB code generator reduces development time substantially by converting the output of the popular SMICng™ MIB compiler to Fusion SNMP compatible ANSI C code. The generated C code compiles as-is, and is ready to be customized as necessary to support RFC standard or enterprise-specific MIBs.

The SMICng™ MIB compiler is included with Fusion Embedded™ SNMP.

SNMPv3 Features

- Tri-lingual v1/v2c/v3 support
- Compliant with RFCs 2570 - 2575
- Access control
- AuthenticationPrivacy
- View-based access
- MD5, DES, and SHA encryption
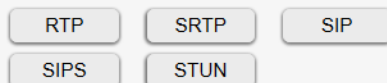- Optimized two-pass SET operation

SNMPv2 Features

- Full SNMP v2c Agent compliant to RFCs 1901-1906
- Extended error identification
- Bulk variable retrieval using GETBULK
- Full conceptual row tables with read-create capabilities
- 2 passes SET operations
- "Rollback" capability in dynamic raw allocation
- Bilingual. 2 modes of operation: SNMP v1 only, SNMP v1/v2c
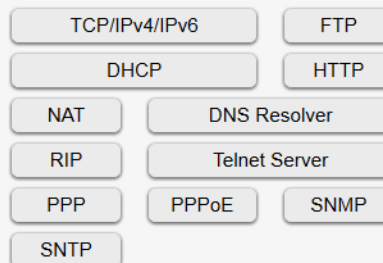
SNMPv1 Features

- Full SNMP v1 Agent compliant to RFCs 1155, 1157, 1212, and 1213
- MIB II support with full read-write capability and 100% of the mandatory variables
- High speed table searches
- Easy and straightforward API

Fusion Embedded™ Fully Integrated Protocols

Voice & Video Protocols

RTP	SRTP	SIP
SIPS	STUN	

Networking Protocols

TCP/IPv4/IPv6	FTP
DHCP	HTTP
NAT	DNS Resolver
RIP	Telnet Server
PPP	PPPoE	SNMP
SNTP	

Security Protocols

HTTPS	IPsec	SSL/TLS
IKE	SIPS	SRTP