

## An Easy-to-use SNMP MIB Browser, Plotter & Trap Receiver



Simplifying  
Network  
Management

The screenshot displays the SimpleMIBBrowser application interface. It features a main window with a menu bar (File, Edit, MIBs, Action, Monitor, Traps, Help) and a toolbar. The interface is divided into several panes:

- Devices:** A tree view showing a hierarchy of devices including Switch-221, Router-222, Hub-223, and Modem-224.
- MIB Tree:** A hierarchical tree of Management Information Base (MIB) objects, such as iso(1), org(3), dod(6), internet(1), directory(1), ping(2), mib-2(1), system(1), sysDescr(1), sysObjectID(2), sysUpTime(3), sysContact(4), sysName(5), sysLocation(6), sysServices(7), interfaces(2), eth(3), ip(4), icmp(5), tcp(6), udp(7), ospf(8), transmission(10), and snmp(11).
- View Scalar Node Info:** A window showing details for a selected node, including Scalar Name (sysDescr), Parent Name (system), Sub DID (1), Syntax (OCTET STRING), and Access (read-only).
- Switch-221 - Get (walk) mib-2:** A table displaying retrieved data for various system objects.
- Switch-221 - Set system:** A table for configuring system parameters.
- Switch-221 - Performance graph:** A line graph showing performance metrics (Units/secs) over time (Hourly Graph).
- Trap Log:** A table listing received traps, including Time, Source, Type, and Summary.

Label	Data Type	Did	Instance	Value
1	sysDescr	OcletString	1.3.6.1.2.1.1.1	0 Hub
2	sysObjectID	ObjectID	1.3.6.1.2.1.1.2	0 1.3.6.1.4.1.3.5.175
3	sysUpTime	TimeTicks	1.3.6.1.2.1.1.3	0 3101 hrs: 14 min: 39.99 sec (1116447999)
4	sysContact	OcletString	1.3.6.1.2.1.1.4	0 SIMPLESOFT
5	sysName	OcletString	1.3.6.1.2.1.1.5	0 "Catalyst 1900"
6	sysLocation	OcletString	1.3.6.1.2.1.1.6	0 "Lab"

Time	Source	Type	Summary
1	21-Nov-2006 11 hrs:51 min:13 sec	192.168.1.222	SNMPv1 Trap Cold Start
2	21-Nov-2006 11 hrs:51 min:13 sec	192.168.1.222	SNMPv1 Trap Link Down: Interface = 1: Enterprise
3	21-Nov-2006 11 hrs:51 min:34 sec	192.168.1.223	SNMPv2c Inform Warm Start
4	21-Nov-2006 11 hrs:52 min:6 sec	192.168.1.224	SNMPv2c Trap Link Up: Interface = 1
5	21-Nov-2006 11 hrs:52 min:28 sec	192.168.1.221	SNMPv3 Inform Authentication Failure
6	21-Nov-2006 11 hrs:52 min:49 sec	192.168.1.223	SNMPv3 Trap Link Down: Interface = 1
7	21-Nov-2006 11 hrs:52 min:49 sec	192.168.1.223	SNMPv3 Trap Authentication Failure

### Overview

The Simple Network Management Protocol (SNMP) is used extensively in managing today's heterogeneous networks. Networking equipment from most vendors include an SNMP Agent that allows remote retrieval and configuration of its management data which is defined in Management Information Base (MIB) files.

**SimpleMIBBrowser** is an easy-to-use application that supports all versions of SNMP and can be used to communicate with any SNMP enabled device. It can load vendor specific MIB files and display the management data contained within it as a graphical tree for easy navigation. SimpleMIBBrowser can then send SNMP requests of all types to retrieve and configure the management data of interest from the SNMP enabled device.

Performance management data can also be retrieved and plotted by conducting periodic polling. Fault management information can be received using the SNMP Trap/inform mechanisms. Configuration data retrieved from one device, or manually created, can be stored and propagated on to other devices that need to be set up in a similar manner. Debug tracing of requests and responses also make it useful for trouble shooting and resolving communication problems.

### Features & Benefits

**SimpleMIBBrowser** is an intuitive, graphical tool that can be used to query and configure management information from any SNMP enabled device. Its various features include:

- Supports all SNMP versions: SNMPv1, SNMPv2c, SNMPv3, and even Diffie Hellman for CableModems
- Sends all SNMP request types: Get, GetNext, GetBulk and Set.
- Loads both SNMPv1 and SNMPv2 SMI compliant MIB modules.
- Event receiver can display SNMPv1/v2c/v3 Traps, SNMPv2c/v3 Informs and even Syslog events.
- Displays SNMP table data in a tabular format that is similar to its corresponding MIB definition.
- Supports display of SNMP data in multiple windows for easy comparison. Includes data profiles.
- Supports multiple device SNMP profiles for communicating with many devices.
- Includes multiple varbind support in all SNMP operations.
- Sends requests to both IPv4 and IPv6 SNMP enabled agents. AES version is also available.

**SimpleMIBBrowser** benefits include:

- Browsing: Displays MIB information related to the selected manageable objects in the MIB tree.
- Configuration: Can get SNMP configuration from one device and duplicate on others .
- Performance: Monitors and plots performance graphs for selected variables.
- Fault: View SNMP traps, informs and syslog events. Check Ping/Traceroute status.
- Debugging: Saves SNMP packets received and sent in debug mode for resolving problems.

### System Requirements

- SimpleMIBBrowser** is available on
- Microsoft Windows 2000/2003/2008/XP/7.
  - RedHat Enterprise Linux.

SimpleSoft  
257 Castro Street  
Suite 220  
Mountain View,  
CA 94041  
650.965.4515  
650.965.4505 fax  
sales@simplesoft.com  
www.simplesoft.com