MIB Explorer Pro Features

	4.x	5.x
Standards and Protocols Supported		
MIB specification formats SMIv1 (RFC 1155) and SMIv2 (RFC 2578-2580).	✓	✓
SNMPv1 (RFC 1157), SNMPv2c (RFC 1901/1905), and SNMPv3 (RFC 3412 - 3417, RFC 3826, RFC 7860).	✓	✓
Transport Protocols UDP, TCP, and. All transport protocols support with IPv4 and IPv6.	✓	✓
TLS v1.3 (RFC 5343, 5390, 5391, 6353) support over TCP transport with IPv4 and IPv6.		✓
New DTLS v1.2 (RFC 6347) support for TLS over UDP (DTLS) with IPv4 and IPv6		✓
New Diffie Hellman key exchange (RFC 2786)		✓
Platforms Supported		
Java Standard Edition (SE) Runtime Environment 8 or later.	✓	
Java Standard Edition (SE) Runtime Environment 9 or later.		✓
Query MIB Data		
Browse sub-trees while detecting inconsistencies between retrieved values and MIB definition (if available).	✓	✓
Directly edit browsed SNMP values based on the retrieved syntax type.	✓	✓
Displaying MIB object instances as leaf nodes in MIB tree.	✓	✓
View, Edit, and Create SNMP Values		
Setting single MIB instances directly from MIB tree.	✓	✓
Viewing and editing SNMP conceptual tables with multi-column sorting and transposable table editor.	✓	✓
Table editor with virtually unlimited undo/redo including row creation and deletion.	✓	✓
Column width for table views are (optionally) restored when table is browsed again.	✓	✓
Cell delta highlighting to quickly spot changed values between table refreshs.	✓	✓

	4.x	5.x
Commit changes to table cells row-by-row and auto-refresh set values.	✔	✔
Commit all writable columns of each changed row even if value has not been changed.	✔	✔
Filter table contents by setting a lower and/or upper bound limit.	✔	✔
Easy row creation with advanced index editor that allows to specify sub-index objects individually and according to its object format (including DISPLAY-HINT).	✔	✔
Duplicate an existing row with the table editor by providing just a new index.	✔	✔
Refresh table contents periodically and export table data to CSV, XML, and XLS.	✔	✔
Table editor detects augment and expansion table relationships and displays them optionally in a single editor.	✔	✔
View and edit scalar object instances with the table editor to quickly issue multi-variable SET requests.	✔	✔
Advanced value editors with DISPLAY-HINT format input and output, smart OID lookup by lastname, and IP address lookup by hostname.	✔	✔
View and edit related SNMP tables in a Grid table editor for better overiew about sparse table relationships.	✔	✔
Multi-target table view to view and edit rows (instances) of the same table (sub-tree) for multiple agents in the same table. Compare and copy content by row and side-by-side.	✔	✔

Receive Traps, Notifications, and Inform Requests

	4.x	5.x
SNMPv1 trap, SNMPv2c/v3 notification, and SNMPv2c/v3 inform request reception with configurable severity indication.	✔	✔
Run configured scripts on behalf of incoming traps/notifications/informs depending on their notification ID.	✔	✔
Persistently save trap history (optionally also as XML).	✔	✔
New Delay INFORM responses by a configurable amount of milliseconds to debug/stress test command responder applications sending IFORM requests.		✔

MIB Specification Authoring

	4.x	5.x
Edit MIB specification files with one or more MIB modules with customizable syntax highlighting and error stripe for quickly locating errors in MIB modules.	✔	✔
Export MIB modules as XML, XML Schema, HTML, PDF, and plain text files.	✔	✔
Check MIB files for syntax errors with exact error location and accurate checking results according to SMIv1 and SMIv2 rules.	✔	✔
Auto-resolve MIB module dependencies when compiling MIB files.	✔	✔
Detect all syntax errors of a MIB file at once with the advanced error recovery of MIB Explorer's MIB compiler.	✔	✔
Auto SMI syntax completion using <Ctrl>-<Space> in MIB file editor.	✔	✔

	4.x	5.x

SNMPv3

	4.x	5.x
Send, receive, and analyse SNMPv3 messages with MD5 and SHA authentication and DES, 3DES, AES 128/196/256bit encryption.	✓	✓
New Send and receive SNMPv3 messages using the TLS and DTLS transport and security model.		✓
Specify authentication and encryption passphrases as plain text, decimal, or hexadecimal strings.	✓	✓
Use non-localized passphrases as well as localized ones which allows using different passphrases for the same security name on different agents.	✓	✓
Change passphrases, delete, and create remote (and optionally local) USM users on multiple SNMP entities at once (see also Administration).	✓	✓
New Create target configurations without creating any USM user in advance. Directly localize passwords into target specific keys easily.		✓

PDU Editor

	4.x	5.x
Create and modify SNMP PDUs by dragging/selecting object types and instances from the MIB tree and browe results into the editor.	✓	✓
Save and open PDUs as XML and MIB Explorer's PDU files.	✓	✓
Send a PDU as GET, GETNEXT, SET, GETBULK, TRAP, and INFORM request to multiple target addresses at once.	✓	✓
New Send any PDU type quickly to the current target and get results displayed in PDU editor		✓

Debugging and Analyzing SNMP Devices/Entities

	4.x	5.x
SNMP Packet Analyzer for tree structured BER decoding and hex-dumping of all sent and received SNMP messages.	✓	✓
SNMP Packet Analyzer decrypts scoped PDUs of SNMPv3 encrypted messages on the fly using MIB Explorer's user configuration.	✓	✓
Logging with configurable log levels.	✓	✓
Browse results indicate type inconsistencies between MIB specification and agent implementation as well as missing MIB specifications.	✓	✓
Use MIB sets to group a set of MIB modules together and associate targets with MIB sets for faster loading of the appropriate MIB modules for a target.	✓	✓
Auto-detect MIB modules supported by a SNMP agent and store it as a MIB set.	✓	✓
Take snapshots from agents as a whole or in parts, open and compare snapshots, apply snapshots to agents (through SNMP SETs), and merge snapshots.	✓	✓
Run stress tests against SNMP agents by using scripting (e.g. trap-gun or simulating complex configuration steps).	✓	✓
New Packet analsysis supports quick search to find packets with special data fast		✓

MIB Analysis

	4.x	5.x
Search a loaded MIB modules for duplicate OIDs.	✓	✓

	4.x	5.x
Search a MIB repository (= a set of compiled MIB modules) by OID, object name, description, or whole object definition with regular expressions.	✓	✓
Fully customizable script (mib2text.vm) to format MIB module as text file.	✓	✓
Example script to extract OID to object name mappings for Java (can be customized for any other programming language).	✓	✓

SNMP Data Export

	4.x	5.x
Dump MIB tree, including possibly retrieved instances, to a text file.	✓	✓
Export table data to CSV (Comma Separated Values), XLS (MS Excel®), and XML.	✓	✓
Export browse data to text file.	✓	✓
Save received traps and inform requests as PDUs for reuse in PDU editor or scripts.	✓	✓

Monitoring SNMP Entities

	4.x	5.x
Monitor SNMPv1/v2c/v3 targets and collect data in round robin database with fully configurable data consolidation and display data as 2D and 3D charts.	✓	✓
Monitor chart images (GIF, JPEG, PNG, PS, PDF) and data (CSV, XLS, HTML, ..) can be accessed via HTTP using a built-in HTTP server (see also HTTP Server).	✓	
Monitor chart images and data can be exported periodically to files.	✓	✓
Monitor configuration is highly customizable and supports index calculation and spreadsheet like expressions.	✓	✓
Monitor data passively collected from notifications and inform requests.	✓	✓
Configure alarm conditions for Monitors to send notifications, SNMP operations, E-Mails, or execute a system commands when an alarm condition is met.	✓	✓
Run MIB Explorer as a background process (headless) to server SNMP data through the built-in HTTP server and to monitor/control SNMP entities.	✓	
Monitor configuration and collected data can be saved/loaded to/from XML.	✓	✓
Monitor configuration and collected data can be stored/loaded to/from relational databases with JDBC interface.	✓	

SNMP Network Discovery

	4.x	5.x
Discovery of SNMPv1/v2c/v3 agents and other network elements by periodically scanning networks using seeds.	✓	✓

	4.x	5.x
Discovered network elements are pinged periodically for connectivity test.	✔	✔
Add SNMP objects to include in SNMP entity scan.	✔	✔
Easily add scanned SNMP entities as new targets to MIB Explorer's configuration.	✔	✔

Administration

	4.x	5.x
SNMPv3 user administration on multiple targets at once, including USM user creation for local and remote users, password modification, and user deletion.	✔	✔
Backup critical SNMP data by saving a snapshot from a table or sub-tree and restore it to an agent at a later time via SNMP SET commands.	✔	✔
TFTP server and client to backup and restore bulk data (e.g. system configuration) of SNMP devices.	✔	✔
New Atomatic software update notifications with option to do an in-place update (plain Java installation) or run matching OS installer.		✔
New Protect all SNMP credentials (i.e. passwords and keys) optionally with a master password.		✔

Support

	4.x	5.x
Free informational support through the AGENTPP SNMP forum at: https://forum.snmp.app	✔	✔
One year free e-mail support from support@agentpp.com.	✔	✔
Comprehensive, non-nonsense online help (also available as PDF) and HTML scripting API documentation.	✔	✔

*New in MIB Explorer version 5.0 compared with MIB Explorer 4.x.

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MIB Explorer can be downloaded from http://www.agentpp.com/download.html for free evaluation