

SilverCreek® Model Numbers	BSCM1	TBSCM1	BSCM1 WGX	BSCM2	TBSCM2	BSCM2 WGX	BSCM3	TBSCM3	BSCM3 WGX
Platform Support:									
Windows	✓	✓	✓	✓	✓	✓	✓	✓	✓
Linux	✓	✓	✓	✓	✓	✓	✓	✓	✓
Includes all the platforms listed above	✗	✗	✓	✗	✗	✓	✗	✗	✓
Test Coverage:									
Tests for SNMPv1, v2c, all private and standard MIBs	✗	✗	✗	✓	✓	✓	✓	✓	✓
Tests for SNMPv1, v2c, v3, all private and standard MIBs	✗	✗	✗	✗	✗	✗	✓	✓	✓
Syntactic tests	✗	✗	✗	✓	✓	✓	✓	✓	✓
Semantic (functionality) tests	✗	✗	✗	✓	✓	✓	✓	✓	✓
Vulnerability (robustness) tests	✗	✗	✗	✓	✓	✓	✓	✓	✓
Additional Tests:									
DOCSIS	✗	✗	✗	✓	✓	✓	✓	✓	✓
RMON I and RMON II	✗	✗	✗	✓	✓	✓	✓	✓	✓
SNMPv3 USM-MIB (RFC-3414)	✗	✗	✗	✗	✗	✗	✓	✓	✓
SNMPv3 VACM-MIB (RFC-3415)	✗	✗	✗	✗	✗	✗	✓	✓	✓
SNMPv3 Apps (RFC-3413)	✗	✗	✗	✗	✗	✗	✓	✓	✓
SNMPv3 MPD-MIB (RFC-3412)	✗	✗	✗	✗	✗	✗	✓	✓	✓
MIB-II Tests (RFC 1213/2011/2012/2013/2196)	✗	✗	✗	✓	✓	✓	✓	✓	✓
IPv6 IP MIB Tests (RFC 4293)	✗	✗	✗	✓	✓	✓	✓	✓	✓
IPv6 ipForward MIB Tests (RFC 4292)	✗	✗	✗	✓	✓	✓	✓	✓	✓
IPv6 TCP-MIB Tests (RFC 4022)	✗	✗	✗	✓	✓	✓	✓	✓	✓
IPv6 UDP-MIB Tests (RFC 4113)	✗	✗	✗	✓	✓	✓	✓	✓	✓

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Diffie-Helman Key Change Tests	X	X	X	X	X	X	✓	✓	✓
Load tests (by simulating multiple managers)	X	X	X	✓	✓	✓	✓	✓	✓
Performance measurement tests	X	X	X	✓	✓	✓	✓	✓	✓
Tests reference source of authority in RFCs	X	X	X	✓	✓	✓	✓	✓	✓
Testing Options/Customizations:									
Ability to customize tests (for ultimate flexibility)	X	X	X	✓	✓	✓	✓	✓	✓
Source code, APIs, library definitions	✓	✓	✓	✓	✓	✓	✓	✓	✓
Customized MIB definitions (e.g. Redefine the range of an integer)	X	X	X	✓	✓	✓	✓	✓	✓
Check system reboot	X	X	X	✓	✓	✓	✓	✓	✓
Ignore lexicographic errors	X	X	X	✓	✓	✓	✓	✓	✓
Insert a delay between test packets sent (for slow agents)	X	X	X	✓	✓	✓	✓	✓	✓
Test according to MIN-ACCESS	X	X	X	✓	✓	✓	✓	✓	✓
Ignore writeable objects in SET tests (treat them as read-only)	X	X	X	✓	✓	✓	✓	✓	✓
Repetitively execute selected tests	X	X	X	✓	✓	✓	✓	✓	✓
Pause testing and resume later	X	X	X	✓	✓	✓	✓	✓	✓
Test Output:									
POSIX Standard Result Codes	X	X	X	✓	✓	✓	✓	✓	✓
Text file (human readable and machine parsable via keywords)	X	X	X	✓	✓	✓	✓	✓	✓
CSV output can be imported into a spreadsheet (e.g. Excel)	X	X	X	✓	✓	✓	✓	✓	✓
XML support (parsing by an XML parser)	X	X	X	✓	✓	✓	✓	✓	✓

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Web page (display results in a web browser)	X	X	X	✓	✓	✓	✓	✓	✓
Journal	X	X	X	✓	✓	✓	✓	✓	✓
Log of test session (machine parsable via 3 digit code)	X	X	X	✓	✓	✓	✓	✓	✓
ODBC support (store results and SQL query your database)	X	X	X	✓	✓	✓	✓	✓	✓
" " pipe delimited output can be imported into a spreadsheet (e.g. Excel)	X	X	X	✓	✓	✓	✓	✓	✓
Agent Setup:									
Save agent setup to file	✓	✓	✓	✓	✓	✓	✓	✓	✓
Share agent setup file with other users	✓	✓	✓	✓	✓	✓	✓	✓	✓
Agent capabilities	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Agent Setup - customize interactive parameters	X	X	X	✓	✓	✓	✓	✓	✓
Agent setup context specific MIB sets	✓	✓	✓	✓	✓	✓	✓	✓	✓
Agent setup specific MIB repertoire (to be deleted)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Toolsets:									
SNMP Command Tool (simple)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Send SNMP GET, NEXT, SET requests	✓	✓	✓	✓	✓	✓	✓	✓	✓
SNMP Command Wizard (advanced)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Send SNMP GET, NEXT, SET, GET-BULK requests	✓	✓	✓	✓	✓	✓	✓	✓	✓
Send a series of requests with multiple objects	✓	✓	✓	✓	✓	✓	✓	✓	✓
Save and load previous command sets	✓	✓	✓	✓	✓	✓	✓	✓	✓
SNMP Command Tcl Script Generator	X	X	X	✓	✓	✓	✓	✓	✓

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Build test scripts automatically (without programming knowledge)	X	X	X	✓	✓	✓	✓	✓	✓
Create one or more agents to test	X	X	X	✓	✓	✓	✓	✓	✓
Test both scalar and columnar (table) objects	X	X	X	✓	✓	✓	✓	✓	✓
Exercise row creation and row status transition for any table	X	X	X	✓	✓	✓	✓	✓	✓
Write verification on read-write objects using allowable values	X	X	X	✓	✓	✓	✓	✓	✓
Resulting test script may be added to SilverCreek Test Suite	X	X	X	✓	✓	✓	✓	✓	✓
SNMPv3 USM Manager	X	X	X	✓	✓	✓	✓	✓	✓
Show table relations among the five key tables (USM and VACM)	X	X	X	X	X	X	✓	✓	✓
Create a new user, assign user to group, assign MIB views to group	X	X	X	X	X	X	✓	✓	✓
Key Change	X	X	X	X	X	X	✓	✓	✓
Manage MIB View Names	X	X	X	X	X	X	✓	✓	✓
Test and Delete User	X	X	X	X	X	X	✓	✓	✓
Configuration Notification Tables	X	X	X	X	X	X	✓	✓	✓
Show Current Setting and Table Relations	X	X	X	X	X	X	✓	✓	✓
Create Notification Names	X	X	X	X	X	X	✓	✓	✓
Create Notification Targets	X	X	X	X	X	X	✓	✓	✓
Create Notification Targets Parameters	X	X	X	X	X	X	✓	✓	✓
Create Notification Files	X	X	X	X	X	X	✓	✓	✓
Create Community String Mappings	X	X	X	X	X	X	✓	✓	✓
Polling Tool	X	X	X	✓	✓	✓	✓	✓	✓
Poll selected objects via GET, GET-BULK, and Walking Branch	X	X	X	✓	✓	✓	✓	✓	✓

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Modify interval and duration of polling for load testing	X	X	X	✓	✓	✓	✓	✓	✓
Tab delimited output can be imported into a spreadsheet (e.g. Excel)	X	X	X	✓	✓	✓	✓	✓	✓
Performance Measuring Tool	X	X	X	✓	✓	✓	✓	✓	✓
Measure performance of GET, NEXT, SET, GET-BULK	X	X	X	✓	✓	✓	✓	✓	✓
Measure performance of walking a MIB branch via NEXT, GET-BULK	X	X	X	✓	✓	✓	✓	✓	✓
Measure performance of any scalar and columnar (table) objects	X	X	X	✓	✓	✓	✓	✓	✓
Send both synchronously and asynchronously	X	X	X	✓	✓	✓	✓	✓	✓
Tab delimited output can be imported into a spreadsheet (e.g. Excel)	X	X	X	✓	✓	✓	✓	✓	✓
Memory Leak Tool	X	X	X	✓	✓	✓	✓	✓	✓
Notification Monitor:									
Check variables bindings of received notifications	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support listening on multiple ports for traps and informs	✓	✓	✓	✓	✓	✓	✓	✓	✓
Synchronize with, and receive encrypted traps from SNMPv3 notification originator	✓	✓	✓	✓	✓	✓	✓	✓	✓
Option to skip check time window for SNMPv3 notifications	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tab delimited output can be imported into a spreadsheet (e.g. Excel)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Documentation:									
Online Help (user manual)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Task-based Flash Training Videos	✓	✓	✓	✓	✓	✓	✓	✓	✓

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CookBook of Tcl Scripts (for Controlling and Automating SilverCreek)	X	X	X	✓	✓	✓	✓	✓	✓
SilverCreek Developer's Guide (for Creating Your Own Tests)	✓	✓	✓	✓	✓	✓	✓	✓	✓
SilverCreek Test Handbook (details of each test)	X	X	X	✓	✓	✓	✓	✓	✓
Diagnostic Tools:									
SilverCreek Console	✓	✓	✓	✓	✓	✓	✓	✓	✓
Summary (summarized form of packets sent)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Watch (pseudo ASN.1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Debug (octet dump)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Packet Recorder and Decoder:	✓	✓	✓	✓	✓	✓	✓	✓	✓
Capture packets	✓	✓	✓	✓	✓	✓	✓	✓	✓
Decode any SNMP HEX data to human readable form	✓	✓	✓	✓	✓	✓	✓	✓	✓
Additional MIB Capabilities									
add and compile any MIB (private or standard)	✓	✓	✓	✓	✓	✓	✓	✓	✓
automatically compile and load multiple MIBs (all at once)	✓	✓	✓	✓	✓	✓	✓	✓	✓
add and compile an agent-capability MIB	✓	✓	✓	✓	✓	✓	✓	✓	✓
select one or more branches of MIBs for testing	X	X	X	✓	✓	✓	✓	✓	✓
automatically test your private MIBs	X	X	X	✓	✓	✓	✓	✓	✓
MIB Tools:									
MIB Browser	✓	✓	✓	✓	✓	✓	✓	✓	✓
MIB Walker	✓	✓	✓	✓	✓	✓	✓	✓	✓

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modify, create new rows in tables)	✓	✓	✓	✓	✓	✓	✓	✓	✓
MIB Dictionary	✓	✓	✓	✓	✓	✓	✓	✓	✓
MIB Compiler	✓	✓	✓	✓	✓	✓	✓	✓	✓
MIB Compare	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scripting Facilities for Control, Automation, and Integration:									
For Writing Tests									
Classic SNMP requests API (optimized for testing)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Light weight SNMP requests API	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scotty/TNM API with support for IPv6 and SNMPv3	✓	✓	✓	✓	✓	✓	✓	✓	✓
Synchronous and Asynchronous API	✓	✓	✓	✓	✓	✓	✓	✓	✓
For Automating Tests									
Control API for Running Tests (automating tests in CLI)	X	X	X	✓	✓	✓	✓	✓	✓
Remote interface (legacy support to telnet into SilverCreek to run tests)	X	X	X	✓	✓	✓	✓	✓	✓
Expect ("screen scraper" support) (Linux ONLY)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tcl shell integration	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automation Wizard	X	X	X	✓	✓	✓	✓	✓	✓
Build a script to drive GUI to automatically run test suites	X	X	X	✓	✓	✓	✓	✓	✓
Miscellaneous									
Full support of Tcl language	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sample Scripts Available	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Any Tcl extensions can be added to the SilverCreek environment	✓	✓	✓	✓	✓	✓	✓	✓	✓
SilverCreek libraries can be added to any standard Tcl environment	✓	✓	✓	✓	✓	✓	✓	✓	✓
SilverCreek may be integrated with other products (e.g. to control the Spirent packet generator)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Consistent Architecture and Operation of Tools	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encryption and Key Exchange Algorithms Supported:									
Diffie Helman	X	X	X	X	X	X	✓	✓	✓
DES	✓	✓	✓	X	X	X	✓	✓	✓
AES 128, 192, 256	✓	✓	✓	X	X	X	✓	✓	✓
Triple DES	✓	✓	✓	X	X	X	✓	✓	✓
Authentication Supported:									
MD5	✓	✓	✓	X	X	X	✓	✓	✓
SHA	✓	✓	✓	X	X	X	✓	✓	✓
DTLS Transport									
SNMP over DTLS	✓	✓	✓	X	X	X	✓	✓	✓