SNMP Agent Simulation Datasheet

The SNMP Agent Simulator is an intuitive, easy-to-use GUI tool that enables simulation of standalone SNMP agents.

Overview

The SNMP Agent Simulator enables simulation of standalone SNMP agents to test and demonstrate SNMP-based management applications. Its unique ability to create default values from any SMI-compliant MIB or record variables from an existing agent and create variations on this basic simulation enables rapid simulation of SNMP devices. All SNMPv1, SNMPv2, and SNMPv3 operations (Get / GetNext / GetBulk / Set / Traps / Notifications) are supported.

The advanced modeling of SNMP agent behavior and trap generation can be done with ease using Jython-based scripts. The SNMP agent simulator combined with the SNMP Trap Stormer and SNMP Trap Recorder provides a complete suite for testing SNMP manager applications.

SNMP Agent Simulator Features and Benefits

Features	Benefits
User Customization of SNMP Agent Values	SNMP agent responses can be configured in the UI or at runtime through scripts or using RMI. Device values can be made to remain constant or vary based on the simulation type configured. SNMP Agent Simulator supports Constant, Random, Linear, Wave, Exponential, Sine Wave simulation types.
Multilingual Support	Supports complete SNMPv1, SNMPv2, and SNMPv3 agent simulation. Allows easy configuration of SNMPv3 user entries with the help of SNMPv3 configuration tool.
Record and Replay of SNMP Agents	Allows to record and replay real SNMP agent values to create simulations of actual SNMP devices. Any variation on this basic simulation can be created for use with the SNMP Agent Simulator. Read more..
Record and Replay of SNMP Traps	Allows to record and replay SNMP v1 and SNMPv2c traps. The traps can be replayed in the SNMP agent simulator as request-based, threshold-based or time-based traps. Read more..
SNMP Trap / Inform Generation	Allows to configure and generate request-based, threshold-based and timer-based SNMPv1,v2,v3 traps and SNMPv2,v3 informs. The SNMP Simulator also allows to generate default traps defined in the MIB.
Behavior Simulation	Simulates behavior using Jython scripts to model SNMP agent behavior and express inter-relationships among MIB variables. Powerful built-in SNMP script APIs can be used to format SNMP agent responses and trap messages.
SNMP PDU Customization	Supports customizing the request and response SNMP PDU to send garbled/invalid responses to test the SNMP managers' robustness in the event of receiving bad packets. The PDU scrambler also provides access to the SNMP script API methods.
SNMP Error Simulation	Supports simulation of SNMPv1, SNMPv2, SNMPv3 error conditions from UI or using scripts.
SNMP Trap Stormer	Generates SNMPv1, SNMPv2 trap storms at burst and normal modes to test the reliability of the management application for receiving / processing of SNMP traps over a specified time interval or at the burst mode.
SNMP Proxy Agent Simulation	Enables simulation of multiple SNMP v1 and SNMPv2c agents running at the same port with different community strings. Read more..
SNMP Agent Management through RMI	Provides means to manage the simulated SNMP agent values and traps via RMI (Remote Method Invocation) to have a good control over the simulated environment.
User-Friendly GUI Display	The SNMP Agent Simulator provides an extremely user-friendly graphical interface that makes the simulator very easy to work with and offers you the complete SNMP agent simulation experience. The SNMP MIB Browser tool facilitates complete testing of the simulated agent. .
Value Added Features	Offers other value added features such as logging error messages, configurable buffer size for enhanced performance, command line utilities to start/stop the simulated SNMP agent for automated testing.

SSNMP Agent Simulation Experience

The SNMP Agent Simulator offers a simplified and complete SNMP agent simulation experience. The following diagram depicts this functionality offered by the SNMP Agent Simulator.

The SNMP Agent Simulator can simulate an SNMPv1, SNMPv2, SNMPv3 agent in three simple steps:

1. Load any SMI-compliant MIB(s) in the SNMP Agent Simulator and create a basic simulation of the SNMP agent.
2. Create variations on this basic simulation by recording real SNMP agents; configuring MIB values, SNMP traps and informs ; configurng jython scripts, simulating SNMP error conditions, and so on.
3. Start the SNMP agent at the specified port and test the SNMP manager application.

System Requirements

Hardware Requirements	
Windows	CPU: 2.0 GHz Pentium Processor Memory: 1 GB RAM Disk Space: Minimum 40 GB
Linux	CPU: 2.0 GHz Processor Memory: 1 GB RAM Disk Space: Minimum 40 GB
Solaris	CPU: 2.0 GHz Processor Memory: 1 GB RAM Disk Space: Minimum 40 GB
Software Requirements	
Supported Platforms	Windows XP+SP2 / Vista Windows XP with Hyper Threading enabled Linux RH 9.0 and above Linux RH AS, ES, WS and Debian Solaris 5.6 & above Fedora - 3 core
Java Version	JRE 1.6.0_11 is bundled with the product for all operating systems
Database	MySQL Database is bundled with the product for all operating systems

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