TTplugin SNMP

Simple Network Management Protocol

SNMP is a widely used protocol for the management of SNMP enabled devices allowing remote and local management of items on the network including servers, workstations, routers, switches and other managed devices. An SNMP-Management Information Base (MIB) is described using ASN.1, in addition SNMP messages are described using ASN.1 too.

TTplugin SNMP supports the translation of ASN.1 data structures into TTCN-3 but also the generation of complete test cases for selected scenarios out of SNMP MIBs. Together with the generation of test skeletons for testing dedicated managed objects TTplugin SNMP provides a very flexible TTCN-3 based testing framework for testing SNMP agents.

Features & Highlights

- Automatic testing of SNMP agents in the network
- Fast and easy development of tests for proprietary SNMP MIBs
- Manager-Agent Interaction Model
    - SNMP agent is the System Under Test (SUT)
    - Test system is the Network Management Station (NMS)
- Support of SNMP versions 1, 2, and 3
- Support of three security levels for SNMPv3 - noauth, auth, priv
- Support of positive tests as well as negative tests
- Freely combinable with additional test access (TTplugins)

Requirements

- TTplugin ASN.1
- Extension ASN.1 Codec Factory