

Veryx ATTEST

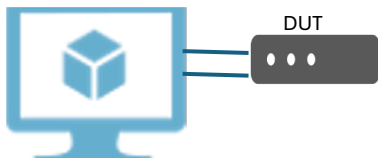
Generation-based Network Protocol Fuzz Testing Engine & Suites - DATASHEET



Security testing has become mandatory to identify known vulnerabilities in network devices and to prevent unauthorized access by malicious actors. Fuzz testing helps determine unknown device vulnerabilities due to malformed, or random inputs.

Veryx ATTEST Generation-based Networking Protocol Fuzz Testing Engine & Suites enables enterprises, equipment vendors and test labs to easily determine security weaknesses in networking and telecom devices. ATTEST validates the robustness, stability, and security of these devices by executing protocol-aware test campaigns with malformed, unexpected, and boundary-condition traffic.

ATTEST Fuzz



Benefits

- Accelerates protocol robustness testing.
- Detects security vulnerabilities.
- Improves product reliability and stability.
- Reduces manual testing effort.
- Provides centralized test management and reporting.
- Scales across multiple networking and telecom protocols.



Overview

Veryx ATTEST Fuzz Testing Engine & Suites provides an advanced **generation-based fuzz** implementation, covering various protocols for security testing of network equipment such as routers and switches, by exposing them to abnormal protocol behavior that is difficult to reproduce through conventional functional testing.

ATTEST significantly speeds-up the testing process with automation and accelerates verification by OEMs as well as independent test labs. Its unique design results in minimal time for integration and enables efficient use of time and resources.

ATTEST Fuzz Testing Engine & Suites are built on the ATTEST Test Framework, which typically runs as a virtual machine (VM) or on Linux-based systems with the required network interfaces.

Devices Under Test (DUTs) can be seamlessly integrated with the ATTEST Test Framework, enabling rapid onboarding and execution of protocol-aware fuzz testing.

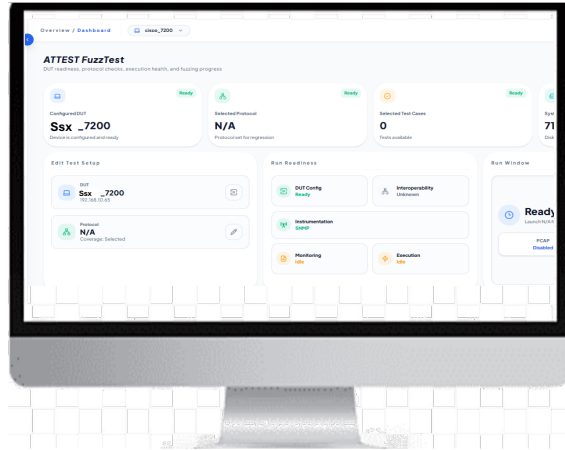
Veryx ATTEST

Generation-based Network Protocol Fuzz
Testing Engine & Suites



Feature List

- Fuzz testing UI Framework with dashboard, configuration, test execution etc.
- Optimized fuzz testing engine with generational fuzzing.
- Test instrumentation using SNMP & CLI.
- Telemetry capabilities for monitoring DUT parameters.
- Detailed test logs and packet captures.
- Test execution history with run details and logs.
- Customizable test reports
- Configurable test coverage level.



Feature Details

Fuzz Testing Framework

Veryx ATTEST Fuzz Testing Framework provides a browser-based user interface for management of the entire test process with real-time dashboard, protocol selection, test configuration, device configuration, interface configuration, execution, test logs, reports etc.

Fuzz Testing Engine

Veryx ATTEST Fuzz Testing Engine supports generational fuzzing and is the core feature that takes protocol-based information and the fuzz vectors together with the user preferences, interface and device specific configuration to perform the test in an optimized manner for fastest results.

Instrumentation

Configurable instrumentation capabilities are provided so that device management and test execution aspects can be controlled and adapted to the test requirements. Support for SNMP and CLI based device management is available.

Veryx ATTEST

Generation-based Network Protocol Fuzz
Testing Engine & Suites



Feature Details (continued)

Test automation

- Zero-touch, test execution with pre-determined tests and configurations.
- Device specific management based on SNMP and CLI.
- Can be controlled from external test frameworks.
- Support for CI/CD.

Telemetry

ATTEST Fuzz gathers telemetry of devices under test during testing in order to track system performance, system failures, and other needed parameters, using SNMP and Syslog.

Test Logs and Packet Captures

Detailed test case specific logs that record test steps, intermediate results, DUT responses and test verdicts are provided. Packet captures when enabled are also available at the end of the tests.

Test Execution History

Test execution history provides execution status of every run, along with logs, packet captures, all of which are downloadable.

Context-rich Test Reports

ATTEST Fuzz provides customizable test reports with rich context providing configuration information, execution summary, test case results and vulnerabilities.

Configurable Test Coverage Level

Flexibility is provided to configure the level of testing as First & Last, Sample, Quick, Low, Medium, High and All, so that test time could be suitably optimized where necessary based on the test process stage.

Veryx ATTEST

Generation-based Network Protocol Fuzz
Testing Engine & Suites



Ordering

ATTEST Fuzz Testing Engine and protocol fuzzing test suites bundle conforming to Indian Telecom Security Assurance Requirements (ITSAR) by NCCS- ITSAR for IP-Router, WiFi CPE, OLT and ONT:
FZFWTS-ITSAR-FB-A-5U-B

Test Coverage

IPv4

- IPv4
- ARP Client/Server
- DHCP Client/Server
- DNS
- ICMP
- UDP
- TCP for IPv4 server
- NAT

Management

- SNMPv2
- SNMPv3
- Netconf

Applications

- SFTP
- SSHv2
- TLS
- HTTPS

IPv4 Routing

- RIP
- OSPFv2
- BGP
- ISIS
- HSRP/VRRP

IPv4 Multicast

- IGMP
- PIM SM/DM

MPLS

- MPLS-LDP

WLAN

- WPA2/3
- LWAPP
- CAPWAP

IPv6

- IPv6
- IPv6ND
- ICMPv6
- TCP for IPv6 Server

IPv6 Routing

- RIPng
- OSPFv3

IPv6 Multicast

- MLD

Time

Synchronization

- NTP Client/Server
- PTP client/Server

Contact us for the latest coverage information.

For more information or to see a demo contact:

Email: info@veryxtech.com

Phone: USA : +1 267 440 0140 | International : +44 203 371 8691 | India : +91 44 6677 2200

About Veryx Technologies: Veryx Technologies was founded in 2002 and is among the industry leading providers of innovative test and measurement solutions for the global communications industry. ATTEST-based test suites verify networking equipment being used for access, edge, enterprise, industrial and security. ATTEST enables customers to significantly reduce the “time-required-to-test” and enhance their “time-to-market”.

Veryx® and Veryx ATTEST are trademarks of Veryx Technologies. All other trademarks of respective owners are acknowledged.

Copyright © 2026 Veryx Technologies. All rights reserved.

09/26 v2.3

www.veryxtech.com