



Veryx ATTEST™

Layer3 IPv4 Unicast DHCP Functional DATASHEET

The **ATTEST-XP DHCP Server** automated test suite for IPv4 environment provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of DHCP Server implementation. **ATTEST** enables significant speeding up of testing cycles and reduces the “time-to-market”.

ATTEST-XP DHCP Server Comprehensive Test Suite is designed for testing of the DHCP Server functionality in IPv4 networks. ATTEST-XP DHCP Server relies on ATTEST -- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Veryx has devised about 174 test cases that comprehensively test for DHCP Server implementation in Router, L3-Switch, Firewall and Internet Access devices.

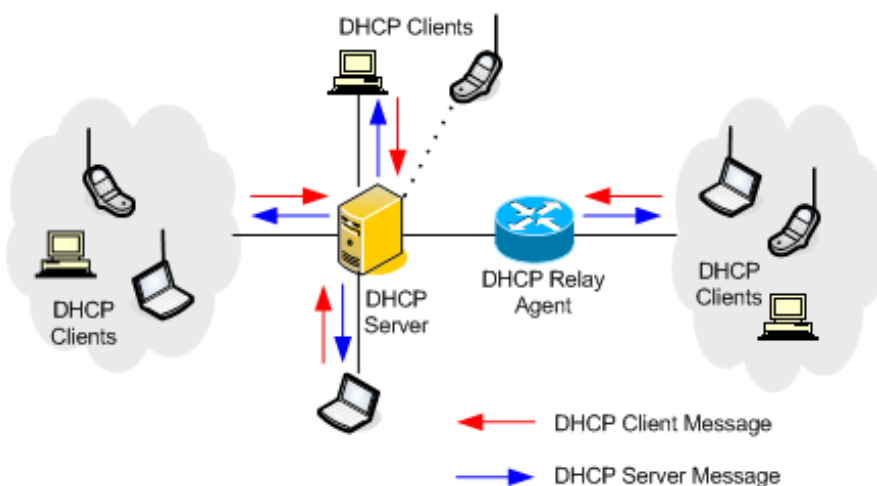


Figure 1: Sample Enterprise network with DHCP Server

SPECIFICATIONS

- ★ RFC 2131
- ★ RFC 2132

KEY TESTS

- ★ Functionality Verification Group (FVG)
- ★ DHCP Option Group (DOG)
- ★ Relay Agent Group (RAG)
- ★ Lease Time Group (LTG)
- ★ Pool Handling Group (PHG)

PLATFORM REQUIREMENTS

- ★ ATTEST 4.x or 6.x Framework
- ★ Min 2 to Max 24 Ethernet ports
- ★ Serial or additional Ethernet port for DUT management

ATTEST-XP DHCP Server verifies

- Functionality over routing or VLAN routing interfaces.
- Functionality over aggregated links.
- Robustness of the DHCP Server for Server and Client Identifier, Requested IP option etc.
- Functionality against Relay Agent.
- Support for DHCP options such as DNS Server, Router, Subnet mask, Time offset etc.,
- Behavior against simultaneous request from multiple DHCP clients on single interface.
- Behavior against simultaneous request from multiple DHCP clients on each port.

ATTEST-XP DHCP Server Comprehensive Test Suite is written in industry standard Tcl scripts. Well defined APIs and source files provide the flexibility to add, customize or modify the test cases for specific requirements.

Together with other ATTEST-XP and ATTEST-CTS test suites for IPv4 protocols, Veryx provides a wide range of test suites for verification of IPv4. Test suites for IPv6, Layer-2 bridging and Carrier Ethernet are also available.

About Veryx Technologies

Veryx Technologies (formerly Net-O2 Technologies) provides innovative Verification and Measurement Solutions for the global communications industry. ATTEST solutions verify networking equipment being used for Access, Carrier Ethernet, Data Center, Edge, Enterprise, Industrial and Security. The unique offerings from Veryx enable customers to 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.

Email : info@veryxtech.com

USA : +1 267 440 0140

Web : www.veryxtech.com

International : +44-203-371-8691

Copyright © 2009-2012 Veryx Technologies. All rights reserved

DS 2.0 / Sep 2012 Page 1 of 1

