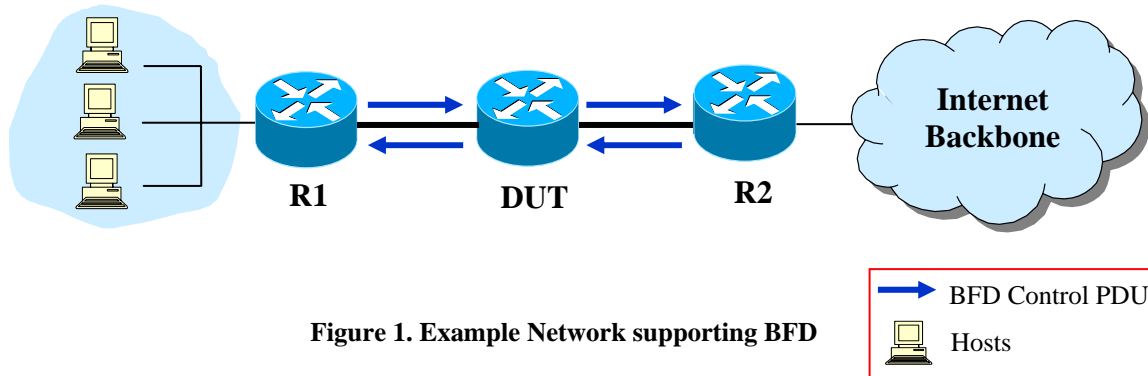


BFD Conformance Test Suite

The Net-O₂ ATTEST™ Bidirectional Forwarding Detection (BFD) automated test suite provides Equipment Manufacturers and Service Providers an easy and efficient solution for verification of BFD implementation. ATTEST enables significant speeding up of testing cycles and reduces the “time-to-market”.



Product Overview

ATTEST BFD *Conformance Test Suite* is designed for conformance testing of Bidirectional Forwarding Detection using ATTEST-- a powerful test framework that requires minimal time for set-up and enables efficient use of time and resources.

Net-O₂ has devised 148 test cases that comprehensively test for BFD conformance. These test cases have been grouped into 10 convenient test groups based on the IETF specifications for each category of functions.

BFD tests

- ❖ BFD Frame Format
- ❖ BFD Session Handling
- ❖ BFD State Machine
- ❖ BFD Authentication Support
- ❖ BFD Timer Handling
- ❖ BFD Echo Packet Handling
- ❖ BFD Demand Mode Verification
- ❖ BFD Packet Handling
- ❖ BFD Management Support
- ❖ BFD Backward Compatibility

Specifications

- ❖ Draft-ietf-magma-snoop-03.txt
- ❖ Draft-ietf-bfd-v4v6-1hop-04.txt
- ❖ Draft-ietf-bfd-mib-02.txt

ATTEST BFD test cases perform conformance testing for session initialization, session establishment, and association of the received BFD packets for asynchronous and demand mode based sessions.

Tests also verify the reception and transmission of echo packets. The Authentication support, BFD timer negotiation and timer manipulation are also tested.

The BFD State Machine changes, BFD Management configuration in the system and handling of invalid BFD control PDUs are also verified. Frame format checks and backward compatibility checks are also handled by the test cases.

ATTEST BFD Conformance 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 Test Suites like IPv4, OSPF, IGMP and PIM, Net-O₂ provides one of the most comprehensive solutions for Carrier Ethernet and Layer-3 conformance testing. Layer-2 Switch Test Suites, such as MSTP, RSTP, STP and VLAN, are also available.

Minimum Platform

- ❖ ATTEST 4.x or 6.x Framework
- ❖ 4 Ethernet ports
- ❖ Serial or additional Ethernet port for DUT management

ABOUT Net-O₂ TECHNOLOGIES

Net-O₂ is an innovative communications products company that provides solutions in the Testing and Test Automation domains. The unique offerings from Net-O₂ enable customers to drastically reduce the "time-required-to-test" and enhance their "time-to-market". Net-O₂ offers a wide range of automated test suites to address IP Protocols, Layer 2 Protocols and related standards.

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