SPIRENT TESTCENTER LIVE

ETHERNET PROBES 7500 SERIES

Spirent TestCenter Live 7500 series logical network probe gives you a customer-centric diagnostic view of your IP and Ethernet-based services at 10GbE access points, emulating your customer's SLA characteristics while providing immediate and actionable status information about your network through a combination of active and passive tests.

APPLICATIONS

Spirent designed the TestCenter Live 7500 for co-location at service aggregation points within the provider network. Testing of both the network and IP based services is accomplished through a series of industry-standard passive and active routines. This combination provides verification of the network infrastructure, while simultaneously providing verification of revenue-generating Ethernet services.
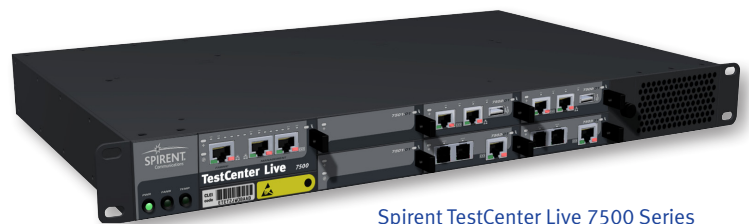
This visibility extends to multiple locations throughout the provider network, including other aggregation locations or end-points such as Network Termination Equipment (NTE), providing a complete end-to-end transport network and service validation system with sectionalization features. The result is assurance that services are provisioned correctly the first time, and when faults do occur, they are rapidly identified and corrected.

Whether it's supporting Transparent LAN Services, VPLS, or IP VPN Services , each Spirent TestCenter Live 7500 probe provides an independent means of verifying the service prior to customer handover, as well as identifying and locating problems with established services and verifying Service Level Agreements with 24x7 performance monitoring.

Each durable, compact TestCenter Live 7500 probe is built to support the demands of today's carrier environment, including NEBS Level 3 and CE Class A certification, and is powered by −48V DC, so you can deploy them with confidence wherever your central offices or serving exchanges may be.

BENEFITS

- **Network and service validation:** Verifies operational status of both underlying network capabilities and IP-based services prior to customer cutover—from a single desktop, without having to rely on expensive field services personal.

- **Emulates the customer experience:** Quickly verifies and diagnoses faults, reducing operational expenses and preventing unhappy customers. See exactly what your customer is experiencing!

- **Sectionalizes the trouble:** Provides end-to-end and single-ended measurements allowing quick and accurate dispatches.

- **Flexible to meet the needs of multiple users:** Multiple simultaneous tests meet the needs of multiple user groups and applications

- **Scalability to meet mainstream deployment:** Allows wide-scale automation to meet carrier class deployment timeframes

- **Lower cost of ownership:** Modular architecture provides ability to upgrade to higher rates – 40Gbps and 100Gbps – in the same chassis.

Spirent TestCenter Live 7500 Series

KEY FEATURES

- Dual 10GbE optical interfaces supporting simultaneous active and passive test functions
- Optimized design in support of Ethernet services including Layer 2 VPLS and VPWS services and Layer 3 managed Ethernet services
- EOAM and IP network performance measurements
- Multi-slot chassis – field upgradeable to multiple 10G and higher rate modules

TECHNICAL SPECIFICATIONS

Measurement Modes

Multiple Active and/or Passive simultaneous tests

- Active – Transmission and measurement of test traffic in order to characterize the network and/or service
- Passive – Non-intrusive observation and analysis of subscriber generated traffic
- Decode – Packet capture/decode tool supporting over 400 common network protocols providing traffic analysis on a byte-by-byte basis

Test features

- Test traffic sent and measured by VLAN tag and VLAN priority (802.1Q & Q-in-Q)
- IP traffic sent with proper CoS – DSCP or TOS
- Active tests – EOAM (Y.1731 / 802.1ag) support, RFC 2544, Network Quality (round trip or one-way), throughput testing, Ping, and Trace Route
- Active tests between selected field test units, STC Live probes, NTE devices, or IPMax xDSL probes, —end-to-end test and sectionalization capabilities
- Passive tests – Packet Capture, Link and VLAN statistics, Protocol Distribution, Top Talkers, Conversation Analysis

Network element Interoperability

Interoperability is provided at two levels:

- Management, automation, and scheduling of all accesses by controlling the appropriate routers, switches and test equipment.
- Management, automation, and scheduling of just the test equipment for deployments where control of the routers or switches is not feasible.

Mechanical and Environmental

- 1.75” (H) x 19” (W) x 12” (D) and 16 lbs
- -48VDC (400 watt max)
- Operating temperature −5º C to +55º C (41º F to 130º F)
- NEBS Level 3
- CE Class A

Management Interfaces

- Management Interfaces - RS-232 and 100BaseT RJ-45

Test Modules

- 10GE Module - Qty. 2 10GBASE SFP+ Interfaces

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