SPIRENT TESTCENTER LIVE

7500 SERIES ETHERNET SERVICES PROBES

Spirent TestCenter Live 7500 series distributed Ethernet probes give you a customer-centric diagnostic view of your IP and Ethernet-based services at 1GbE and 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 analytics.

APPLICATIONS

Spirent TestCenter Live 7500 Series chassis provide the visibility and scalability you need to provision and support a wide variety of Ethernet Services including Ethernet Backhaul, Business Services, IPTV distribution, and IP backbone performance.

- **Service Activation:** Deployed to improve the efficiency and scalability of Ethernet/IP services provisioning, including Ethernet Business Services, Wireless Backhaul, Wholesale Ethernet Services, and IP/VPN. Spirent TestCenter live 7500 series probes placed at edge switches/routers provide automated and repeatable provisioning birth certificates for a wide range of Ethernet services.
- **Trouble Resolution:** Spirent TestCenter Live probes provide complete visibility to the performance of the network, allowing rapid fault isolation and sectionalization without the need for multiple dispatches.
- **Performance Monitoring:** Constant visibility to the performance of the network and services enable SLA-backed service levels and proactive alarm generation to Operations and Service resources.

Spirent TestCenter Live 7500 Series probes provide visibility which extends to multiple, critical locations throughout the provider network, including other aggregation locations or end-points such as Network Termination Equipment (NTE). This provides 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.

BENEFITS

- Reduces reliance on field technicians for service provisioning, maintenance and troubleshooting.
- Enables proactive management and validation of premium services (SLA verification).
- Improves operational efficiency by presenting a single probe and common user interface for Test & Diagnostics and Performance Monitoring.
- Reduce rack space requirements and address varied power and interface requirements—1U, AC or DC powered, modular chassis supporting multiple 1GbE and/or 10GbE modules
- Improve efficiency of operations—Spirent TestCenter Live 7500 series probes support 15 simultaneous tests/users per module. 45 session at maximum capacity. No more test queuing.
- Protect Capital Expenditures—modular architecture is ready for 40 GbE and 100GbE modules as higher speeds migrate into the network.
- Single probe is configurable for 1GbE to 30GbE test access

Spirent TestCenter Live 7500 Series

KEY FEATURES

- Modular two slot and six slot 1U chassis supporting multiple 1GbE and 10GbE configurations
- Field upgradable to higher rate modules
- Support for up to fifteen simultaneous active, passive, and performance monitoring test functions
- Optimized design in support of Ethernet services including Layer 2 VPLS and VPWS services and Layer 3 managed IP services
- EOAM (802.1ag and Y.1731) and IP network performance measurements (TWAMP)
- On-demand performance verification and 24x7 performance monitoring for L2/L3 Service Level Agreements (SLA), VoIP, and IPTV

TECHNICAL SPECIFICATIONS

Measurement Modes

- **Active**—Transmission and measurement of test traffic in order to characterize the network and/or service
- **Passive**—Nonintrusive 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
- **Performance Monitoring**—24x7 active tests to thousands of endpoints

Test Features

- **Active tests**—EOAM (Y.1731 / 802.1ag), RFC 2544, Network Quality (round trip or one-way), Y.1564, TWAMP, L2/L3 local loopback, throughput testing, Ping, and Trace Route
- **Passive tests**—Packet Capture, Link and VLAN statistics, Protocol Distribution, Top Talkers, Conversation Analysis
- **IP Video tests**—Passive or Active (IGMP joins) monitoring of IPTV Single Program and Multi-Program Transport Streams. Tracking of MDI statistics as well as TR 101 290 Priority 1, 2, and 3 statistics and errors.
- **VoIP tests**—Passive monitoring of VoIP calls and Active call generation and quality monitoring

Mechanical and Environmental

- 1.75” (H) x 19” (W) x 12” (D) and 16 lbs
- –48VDC or 110/220VAC (400 watt max)
- Operating temperature –5° C to +55° C (41° F to 130° F)
- NEBS Level 3
- CE Class A

Management Interfaces

- RS-232 (ASYNC) and 100BaseT RJ-45 IPTest Modules

CHASSIS AND TEST MODULES	
6941C-7506	STCLive 7506 Chassis—6 Slot DC Power
6941C-7502	STCLive 7502 Chassis—2 Slot DC Power
6941C-7502AC	STCLive 7502 AC Chassis—2 Slot AC Power
6941C-7511	STCLive 7506 Hard Drive Module
6941C-7521	STCLive 7502/7506 10G Dual Port I/O Module
6941C-7531	STCLive 7502/7506 1G Dual Port I/O Module
6941C-7541	STCLive 7502/7506 10G 1 Port I/O Module
6941C-7551	STCLive 7502/7506 10G Analysis Module— zero ports

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