



# SPiRENT TESTCENTER LIVE

## ETHERNET PROBES 6500 SERIES

Spirent Test Center Live 6500 series logical network probes gives you a customer-centric diagnostic view of your IP and Ethernet-based services, 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 6500 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 handoff points to alternate access or backhaul providers, 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 VoIP, IP VPNs, or VLANs, each Spirent TestCenter Live probe gives you an independent means of verifying the service prior to handover to the customer, as well as, identifying and locating problems during established service restorations and verifying Service Level Agreements with 24x7 performance monitoring.

Each durable, compact TestCenter Live probe is built from the ground up to support the demands of today's carrier environment, including NEBS Level 3 and CE Class A certification. Rackmounted with -48V DC-power, 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 personnel.
- **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.



Spirent TestCenter Live 6500 Series

## **SPIRENT TESTCENTER LIVE**

### **ETHERNET PROBES 6500 SERIES**

#### **KEY FEATURES**

- Dual 1GbE 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
- VoIP transport signaling and call quality measurements
- IPTV video quality monitoring

#### **TECHNICAL SPECIFICATIONS**

##### **Measurement Modes**

Multiple simultaneous Active and/or Passive 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

##### **Ethernet, IP, and VoIP Testing 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, Packet Size Distribution, Top Talkers, Conversation Analysis
- Active and Passive VoIP Call Quality and Signaling Analysis
- Passive IPTV video quality monitoring and content analysis
- Active performance monitoring testing to 4,000 simultaneous endpoints

##### **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**

- 3.50” (H) x 19” (W) x 12” (D) and 16 lbs
- -48VDC (400 watt max)
- Operating temperature –5° C to +55° C (41° F to 130° F)
- Humidity 5% to 96% @ 40 C (104 F), non-condensing
- NEBS level 3 compliant CE Class A

##### **Management Interfaces**

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

##### **External Connections**

- Test interfaces: – Model 6500 = Qty. 2 1000BaseX SFP

**AMERICAS** 1-800-SPIRENT • +1-818-676-2683 • sales@spirent.com

**EUROPE AND THE MIDDLE EAST** +44 (0) 1293 767979 • emainfo@spirent.com

**ASIA AND THE PACIFIC** +86-10-8518-2539 • salesasia@spirent.com

© 2010 Spirent Communications, Inc. All of the company names and/or brand names and/or product names referred to in this document, in particular the name “Spirent” and its logo device, are either registered trademarks or trademarks pending registration in accordance with relevant national laws. All rights reserved. Specifications subject to change without notice. Rev. D 02/10

