

Spirent TestCenter Live

8500v Virtual Ethernet Services Probe

Spirent TestCenter Live 8500v is the industry's first virtualized distributed Ethernet probe for Data Center and Next-Generation NFV networks. TestCenter Live provides 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 analytics.

Key features

- Support for 1 active or passive test function per virtualized test set
- Separate virtualized function for performance monitoring
- Full suite of Active and Passive tests including Service activation tests including RFC-2544, y.1564 and RFC6349
- EOAM (802.1ag and Y.1731) and IP network performance measurements (TWAMP)
- On-demand performance verification and 24x7 performance monitoring

Applications

Spirent TestCenter Live 8500v provides the visibility and scalability you need to provision and monitor your data center and NFV next-generation network. The 8500v will provide the same robust suite of tests available today in our hardware probes.

- **Service activation:** Deployed to improve the efficiency and scalability of data center service provisioning as well as the evolution to NFV networks running on Intel based x86 hardware platforms for existing service providers
- **Trouble resolution:** Spirent TestCenter Live 8500v 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 8500v probes provide visibility which extends to multiple, critical locations throughout the data center or provider network, including top of rack, or rack-end of row and other aggregation locations. This provides a 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

- **Enables:** Proactive management and validation of premium services (SLA verification)
- **Improves operational efficiency:** By seamlessly integrating with test & diagnostics and performance monitoring under a single point of control
- **Efficiency of operations:** Spirent TestCenter Live 8500v probes can be placed where hardware probes cannot
- **Reduce capital expenditures:** Eliminates the need for hardware certification and deployment.
- **Reduces operational costs:** Virtual probes can reduce opex by eliminating field dispatches

Spirent services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at www.spirent.com or contact your Spirent sales representative.

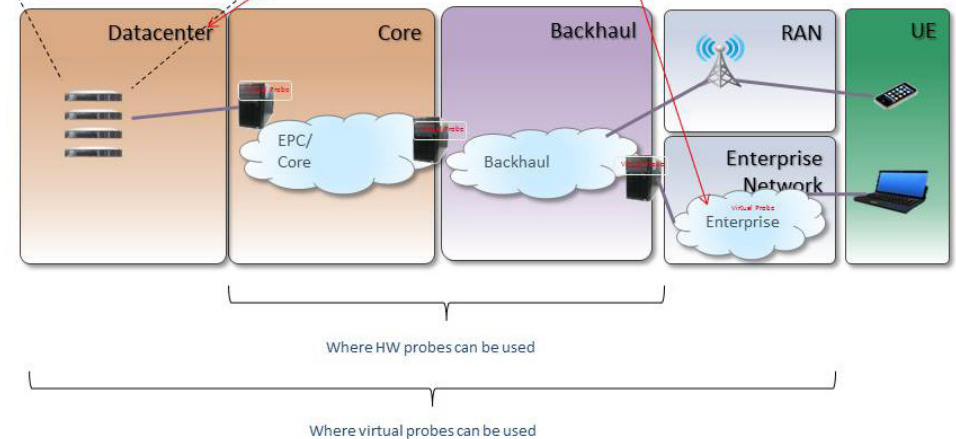
Product use case overview

Service Assurance in the Datacenter

NEBS compliance is not an issue because the server is already in the datacenter



- Virtual probes increase efficiency by increasing the limit of probe testing
- Virtual probes increase agility by offering test results and analysis quickly.
- Virtual probes cost less to use because no field technician is needed.
- Virtual probes use the same technology found in the datacenter



Technical specifications

Measurement modes

- **Multiple:** Active or passive tests
- **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, Layer 2/Layer 3 local loopback, throughput testing, Ping, and Trace Route
- **Passive tests:** Packet Capture, Link and VLAN statistics, Protocol Distribution, Top Talkers, Conversation Analysis
- **24x7 performance monitoring tests:** EOAM, Y:1564, TWAMP, Ping including availability metrics
- **Burst tests:** Traffic policing/shaping verification

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