

ADVANCING NEXT-GENERATION COMMUNICATION

Capabilities Statement

From wire line to wireless to satellite, Spirent offers a complete portfolio of solutions to enhance network Quality of Service and ultimately the customer Quality of Experience.

At Spirent we work behind the scenes to help the world communicate and collaborate faster, better and more often. The world's leading communications companies rely on Spirent to help design, develop and deliver world-class network, devices and services. Spirent's lab test solutions are used to evaluate performance of the latest technologies. As new communication services and applications are introduced in the market, Spirent provides tools for service management and field test to improve troubleshooting and quality. Spirent also enables enterprises, institutions and government agencies to secure and manage their networks.

INDUSTRY AND GOVERNMENT - PARTNERS IN EXCELLENCE

Spirent pioneered testing of Ethernet networks, IP Telephony and VoIP, VPNs, Multi-play, Cloud Computing environments, Data Center networks, CDMA applications, and Location Based Services. We take pride in our expertise regarding next-generation communication networks,

devices and applications. Our engineers provide valuable counsel to many of the leading communication standards organizations. Today, we are helping to test the first deployments of the next-generation Internet or IPv6 networks in North America, Europe and Asia.

Spirent Federal Tests Every Element of the Network Infrastructure

MOBILITY



Mobile packet core & backhaul testing, LTE, UMTS & CDMA device and air interface testing

APPLICATIONS



Ethernet services, video & IPTV, voice and IMS testing

NETWORKS



10/40/100G Ethernet, data centers, cloud computing and security testing

POSITIONING



GPS, GLONASS, Galileo, Multi-GNSS and Wi-Fi location testing

Spirent tests:

- **Enterprise Networks:** Performance testing of Switches, Routers, IDS/IPS, Firewalls, Datacenter elements including storage, Virtualized/Cloud computing environments, top of rack switches
- **Network Emulation:** Network Emulation and Impairment via Ethernet, Fibre Channel, SONET interface, RF network emulation (LTE, WiMAX, GSM, GPRS<EDGE, WCDMA, HSPA+), MIMO testing
- **Converged Network Services:** VoIP (SIP, AS-SIP, SKINNY, H.323, MGCP, H.248), Analog and TDM voice call generation and voice quality measurements, IPTV infrastructure testing, IP Video quality
- **Broadband Networking:** Gigabit and 100 Gigabit Ethernet, IP, MPLS
- **Wireless:** HSPA+, LTE, 3G/4G, CDMA, UMTS, MIMO & Advanced Antenna Technique, and Location Based Services
- **Satellite Navigation:** GPS, GLONASS, Galileo
- **Next-Generation Internet:** IPv6 conformance and performance validation

Network equipment manufacturers and service providers use Spirent's performance analysis systems worldwide. Spirent's test solutions simulate real world conditions in the lab to test network equipment and applications prior to deployment in a real network. Government labs utilize our products to validate manufacturer performance and interoperability. These test solutions cover every element of a telecommunications network, from LAN switch devices to web applications, mobile handsets to global positioning systems, and from converged networks to simulated carrier networks.

Spirent's solutions allow customers to reduce time-to-market for new services and equipment, lower development costs and minimize risk, and improve interoperability and scalability. Spirent also offers the next-generation network and application analyzer that features intuitive visual tools to attack network and application problems. In the lab, our test systems recreate the most demanding real world conditions for all aspects of the data and telecommunications industry.

SPIRENT EXPERTISE

As the leader in Test and Measurement, Spirent has developed numerous test methodologies for the networks and applications deployed by government and the enterprise. Our journals of PASS (Performance, Availability, Security, and Scalability) Methodology are available to our customers as a starting point for testing, but can also be coupled with Professional Services group for comprehensive out-sourced test endeavor. Our PASS journals target:

- Layer 2/3 QoS
- Core Routing and Tunneling
- IEEE 802.3ba 40/100G Ethernet
- Access and Edge
- Device Under Test Benchmarking
- Cloud Application and Security Services
- Cloud Infrastructure LAN/SAN Fabric & Virtual Server
- LTE EPC Journal
- Mobile Backhaul

COMPANY BACKGROUND

Initially, Spirent formed Global Secure Systems Inc. in July 2001 to be the proxy company serving U.S. military clients, but the name was subsequently changed to Spirent Federal Systems to more clearly reflect its purpose. In November 2001, the Defense Security Service signed a proxy agreement with key executives from parent company U.K.-based Spirent plc and U.S.-based Spirent Communications, which paved the way for business to begin. The proxy agreement permits foreign companies owned by friendly countries to participate in and contribute to U.S. classified programs under strict controls.



Spirent TestCenter is the industry's leader for delivering the realism necessary to measure the true impact on QoS and QoE.

Contact us today to discuss your testing needs. For more information on our products, visit www.spirentfederal.com

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