SPIRENT PROFESSIONAL SERVICES

OnDEMAND Testing

MICROBURST PERFORMANCE

Periodic Transaction Spikes Can Cripple Financial Institutions. Microbursts (sub-second spikes) in the form of periodic surges of vigorous transaction cycles affect the majority of financial institutions. These microbursts, which can last for several milliseconds, impact network infrastructure in ways that are critically different from traditional traffic. Microburst problems include increased latency, buffer overflow, as well as lost and orphanded packets. These issues can have severe consequences for the integrity and reliabilty of the network. As unresolved problems build up, the escalating jeopardy to a business includes data and revenue loss. Research from Nemertes, Gartner and the Standish Group states the risks involved with network downtime often translate into revenue losses of thousands of dollars a minute, or even millions of dollars in mission-critical applications.

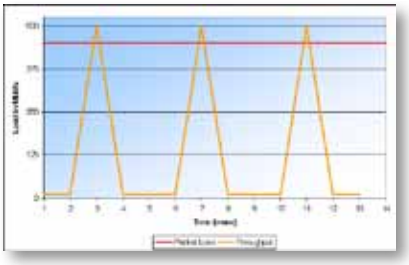
Financial institutions, including brokerage firms, banks, or any organization that experiences these periodic spikes, whose networks remain untested for the unanticipated and potentially crippling scale of microbursts, put their very business livelihood at risk. Research revealed at a recent SANS conference stated that financial enterprises that have downtime exceeding more than 72 hours may never recover as a business.

AVOID SYSTEM FAILURES

Testing your network against robust Microburst activity ensures your capacity is in synch with your needs and requirements. Assure the seamless operation and optimal productivity of your sensitive data transactions with Spirent Professional Services and OnDEMAND testing.

BENEFITS & VALUE

- Discover and correct network deficiencies
- Assure performance
- Insure service availability
- Protect revenue streams



Microburst Traffic Pattern

Spirent's OnDEMAND Microburst Performance Test Package includes:

- **Assessment:** Performance and Compatibility
- **Vendor Selection:** Core, Aggregation and Closet Switches, Routers
- **End-to-end performance, interoperability**
- **Standard On Site Engagement Length:** 3 days

SOLUTION COMPONENTS – TESTS

- **Bursty vs.Throughput:** Capacity benchmark multicast traffic versus iterative bursty traffic
- **Layer 2/3 Latency:** Does it conform to Service Level Agreements (SLAs) and user expectations?
- **High Availability:** Reliability and failover/convergence time established

OUR CUSTOMERS

Spirent has been a pioneer since the advent of network testing and has provided services to customers across a broad range of global industries. These varied business sectors include telecommunications and wireless service providers, network equipment manufacturers, petroleum, education, the media, financial institutions and stock exchanges, technology enterprises and publishing giants. Spirent also services the US government which includes military and space agency projects.

SPIRENT EXPERTISE

Spirent provides services expertise for all major communications vendors. Our test methodology and automation experts include IETF engineers and RFC authors who have developed many of the industry's acclaimed benchmarks. They help define standards and performance tests for dozens of industry forums and standards bodies.

ONDEMAND ON SITE PACKAGED TEST SERVICES

Spirent OnDEMAND Performance Testing is a suite of test services designed to detect and mitigate problems before you launch new infrastructure and applications. Through the use of proven, advanced techniques, a structured testing approach, and full benefit of Spirent's broad array of test equipment, we eliminate risks of poor performance for new or enhanced data centers, converged networks, multi-play solutions and applications.

OnDEMAND Performance Test Services include:

- Vendor selection: load and stress testing
- Scalability and volume testing
- Endurance and soak testing
- Security and Denial of Service (DoS)
- Product performance evaluation
- Performance tuning

SPIRENT OnDEMAND ON SITE TESTING

PROFESSIONAL SERVICES SOLUTIONS

Risk Mitigation:

- VoIP Assessment
- E-Commerce Web Performance
- Data Center Networking (DCN)
- WAN Optimization
- Security Assessment
- IPTV Performance
- CCTV over IP
- DMZ Architecture
- VPN Scalability and Performance
- 3G/4G Wireless Performance

Maximizing Productivity:

- NoCode Lab and Test Automation Solutions
- Regression Testing:
  - Automated DSL
  - Cable
  - PON
  - IPTV
  - MPLS VPN
- UMA Test Automation

SERVICE DELIVERY PROCESS

Spirent provides services expertise for all major communications vendors. Our test methodology and automation experts include IETF engineers and RFC authors who have developed many of the industry's acclaimed benchmarks. They help define standards and performance tests for dozens of industry forums and standards bodies.

- **Discover:** Gather requirements; perform Gap Analysis
- **Define:** Create Statement of Work; present roadmap and resources, illustrate ROI
- **Develop:** Develop test cases; write scripts; develop code
- **Deliver:** Deploy test engineers; manage project; measure and report
- **Debrief:** Refine service optimization; assure customer needs, expectations are met

CONTACT US

Don't wait until your project has already begun, or worse, when you are behind schedule. Contact Spirent now and enlist our Professional Services team to streamline your project. Let our experts help you improve operational productivity and accelerate your time-to-market. Call your Spirent sales representative or visit us on the Web at www.spirent.com/GS.

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