



# SPIRENT AVALANCHE NEXT

APPLICATIONS AND SECURITY TEST SOLUTIONS

Avalanche NEXT is a powerful, easy-to-use test solution that generates thousands of different realistic application traffic and attacks to test the performance, scalability and security of today's application-aware network infrastructures. Unlike other test solutions, Avalanche NEXT generates real high-performance user applications based on actual application scenarios for realistic security, load and functional testing.

## APPLICATIONS

The Avalanche NEXT solution gives product development teams creating next generation content aware devices and solutions a competitive advantage by helping them get to market more quickly with proven scalability, security and performance. Enterprise and lab engineers can ensure the solutions they deploy will deliver the security required.

With Avalanche NEXT, engineers can quickly and easily test with the latest and greatest applications and attacks (updated continuously), all with unparalleled realism and scalability. Engineers can push their solutions to the limit and ensure the infrastructure will stand up to real-world demands.

- **Realism—test your network, your traffic, your reality:** When testing application-aware devices, it is critically important that the application mix reflects real-world conditions from Layer 2-7. Avalanche NEXT enables you to create tests by capturing the interactions of real users on real devices as they use real applications on your network for unprecedented realism.
- **Agility—test now, not months from now:** Avalanche NEXT includes the TestCloud, giving you access to thousands of ready-to-run performance and security tests and the ability to create new tests as soon as new applications or cutting edge protocols emerge. With thousands of user scenarios—from mobile handset-based apparitions to the latest in P2P file transfer—Avalanche NEXT has you covered. Plus, in minutes you can capture your own network traffic and generate hundreds of automated tests from a single traffic capture.
- **Security—find and fix vulnerabilities quickly:** The Avalanche NEXT TestCloud includes thousands of known attack profiles, so you can test any mix of attacks and applications to ensure network security including malware infected host emulation and malware binary transfer based security testing. Plus, you can quickly create custom tests for unique protocols and applications without scripting and leverage smart remediation tools to shorten the time to fix vulnerabilities.

- **Power—Extreme Scale Performance:** Avalanche NEXT Delivering more than 7M HTTP connections/second (more than 2 times the current industry standard), Avalanche NEXT is the world's highest performing rate tester for HTTP.



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### FEATURES & BENEFITS

- **Throughput with mixed apps:** Create and run tests with preconfigured enterprise traffic mix to achieve high throughput
- **Cybersecurity Assessment:** Run over tens of thousands of modern and advanced attacks and malware (both binary transfer and infected host emulation)
- **Application Identification:** Create high volumes of the latest mobile and cloud applications and security traffic patterns with many thousands of applications from the TestCloud database which is updated and available for download monthly ensuring you have the most popular and relevant applications and attacks for your testing
- **High-Scale Throughput:** Create tests that operate at multi 10G line rate to push the bounds of carrier class devices and network services
- **High-Scale Connections per Second:** Create tests to achieve industry's highest state generator with Extreme Scale and Performance (ESP) modules
- **Fuzzing:** Perform different service and protocol mutation scenarios through fuzz player to find vulnerabilities and test the reliability of implemented protocols with millions of test iterations created on-the-fly
- **Reliability Testing:** Perform long duration soak tests with the TestCloud application load to ensure solutions work at high capacity for long periods of time

### REQUIREMENTS

- Avalanche NEXT Virtual Controller—Hardware provided by Spirent or use your own hardware to host Avalanche NEXT Web based controller
- Avalanche NEXT C100MP test Appliance
- Avalanche NEXT compatible Spirent TestCenter Modules (available soon)
- Avalanche NEXT C1 portable 1G or 10G Appliance (available soon)

### TECHNICAL SPECIFICATIONS

#### Avalanche C100 MP comes in numerous NIC configurations

- 8 X 10G
- 4 X 10G and 16 X 1G
- 8 X 10G and 8 X 1G
- 16 X 1G

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PHYSICAL SPECIFICATIONS	
Dimensions	5.25" H x 16.53" W x 19.75" D (Fits standard 19" rack, 3U high)
Weight	32 lbs. (14 kg)
Operating Environment	5°C–35°C
Non-Operating Environment	0°C–50°C
Relative Humidity	10%–90% (non-condensing)
Power Requirements	115-230V, 50/60 Hz – 750W
Regulatory Approvals	FCC Class A, EN 55022 Class A, EN 55024

### SYSTEM REQUIREMENTS

#### CLIENT REQUIREMENTS

The client used to access the virtual host must meet the following minimum requirements to run the Spirent Avalanche NEXT:

- Any Windows, Mac or Linux PC running the latest browsers versions (June 2013 or greater)
  - Firefox browser
  - Google Chrome browser

#### VIRTUAL HOST REQUIREMENTS

User provided virtual host systems must meet the following minimum requirements to run the Spirent Avalanche NEXT Virtual Host software

- VMware vSphere Hypervisor ESXi (v4.1.0 or higher, 64-bit only, bare metal)
- 128G Hard Drive
- 4G RAM
- 2+ GHz Dual Core Processor (64-bit)
- VT extensions enabled for 64-Bit OS
- Dedicated network interface with a static IP address

### 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](http://www.spirent.com) or contact your Spirent sales representative.

