

Spirent **Avalanche**

Scalable Application Protocol Emulation Engine (SAPEE)

Application and Security Testing Solutions

The Avalanche Scalable Application Protocol Emulation Engine provides the ability to configure, modify, and scale up practically any application layer network traffic. With SAPEE you can replay captured protocols across a system or device under test to evaluate overall capacities, error-handling, effectiveness of (QoS) and (QoE) mechanisms, and other capabilities. SAPEE allows you to blend custom stateful and proprietary protocols into a test alongside other natively-supported protocols and attack traffic. As an application layer feature, SAPEE can play back and magnify traffic that runs over TCP or UDP transports on top of IPv4 or IPv6. It includes an expandable playback library, containing P2P protocols such as Bit Torrent and Gnutella, Instant Messaging, and other business application protocols. You can also import a PCAP file of a protocol and replay the transaction, modify packet contents or create your own custom stream, recreate specific transactions and network behaviors.

Applications

- Create and magnify virtually any UDP or TCP capture quickly and easily—even custom and proprietary traffic
- Create transaction flows from a library of preconfigured protocols such as BitTorrent, Netflix, Instant Messaging, and others
- Blend standard Avalanche protocols and custom protocols directly from the action list for advanced real-world network modeling testing
- Protocol mixes to directly test cloud and virtual services with Avalanche Virtual
- Replay with complete original timing integrity or modify for specific corner case testing
- Replay custom traffic flows at line rate—up to multi 10Gbps

Features & Benefits

- Create and playback your own application protocols over TCP/UDP. Allows users the flexibility to create their own protocols with their own timing information
- Import custom traffic and replay over TLS-encrypted sessions
- Modify inter-packet timings of original capture to adjust the nature of the playback to test the effect of timing and latency adjustments on content delivery devices
- Built-in protocol library provides a dynamic library of pre-made protocols for specific test cases: Select Protocol, Configure and Test
- Packet level control allows users to modify information at per packet levels including packet ordering and content
- Add parameters and dynamic data to existing payloads to create realistic dynamic users transactions from static captures
- Modify TCP parameters
- Ability to use variables within SAPEE to replace payload (and parts of this payload) while the SAPEE stream is running/replaying

About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

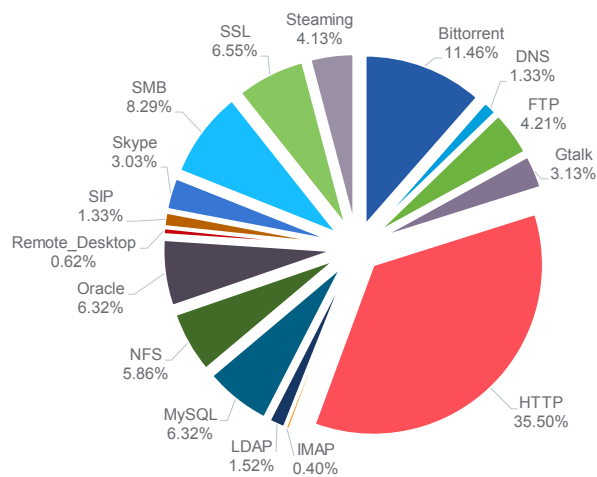
Spirent’s customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: www.spirent.com

Supported Modules & Platforms

- Spirent C100 Appliances
- Spirent C1 Appliances
- Spirent CF20 Appliance
- Spirent mX2 modules
- Avalanche Virtual

Traffic Model Service Providers (Bandwidth)



Choose from existing library of traffic distribution for various network profiles including service provider, enterprise, etc.

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Ordering Information

Description	Part Number
Avalanche SAPEE Protocol Emulation Environment for CF20	CMP-ASW-SAPEE-CF20
Avalanche SAPEE Protocol Emulation Environment for C100	CMP-ASW-SAPEE-CF20
Avalanche SAPEE Protocol Emulation Environment for Compatible Spirent TestCenter Modules (full chassis)	BPK-1224A
Avalanche SAPEE Protocol Emulation Environment for Compatible Spirent TestCenter Modules (2 Modules)	BPK-1224A-2XMOD

Available in license bundles for C1 and Avalanche Virtual.