

# This Former Spirent Business is Now Part of VIAVI

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# Spirent CyberFlood

## Application Performance Testing Solution

The deployment of modern application centric infrastructures brings with it innovative capabilities for managing traffic and Quality-of-Service (QoS) policies. However, to accurately validate application-aware infrastructures, it is critical to generate realistic user activity that emulates actual application traffic on your network.

With CyberFlood, users can quickly and easily test with the latest and greatest applications (updated continuously) with unparalleled realism and scalability. Users can push their solutions to the limit while ensuring the infrastructure will stand up to real-world demands.

**Realism—test your network, your traffic, your reality:** When testing application-aware devices, it is critical that the application mix reflects real-world conditions. CyberFlood enables you to create tests by emulating the interactions of real users, on real devices, as they use real applications on your network for unprecedented realism for testing. Using CyberFlood's web-capture capabilities, you can import and replay recorded sessions of complex website interactions and traffic to validate performance and comprehensive application policies.

**Agility—test now:** CyberFlood TestCloud provides hundreds of thousands of ready-to-run application scenarios and the ability to create new tests as soon as new applications or protocols emerge. The hundreds of thousands of user/application scenarios range from mobile handset-based applications to the latest streaming, social and AI apps. Plus, in minutes, you can capture your own network traffic and generate hundreds of automated tests from a single traffic capture.

**Flexibility—The right solution for your needs:** CyberFlood is available on a number of diverse platforms to meet your specific needs—portable solutions for on-the-go testing, appliances that support 1G, 10G, 25G, 40G, 50G and 100G native speeds for higher performance and capacities, and fully virtualized and cloud-native solutions for unbounded testing of SDN/NFV devices and cloud environments.

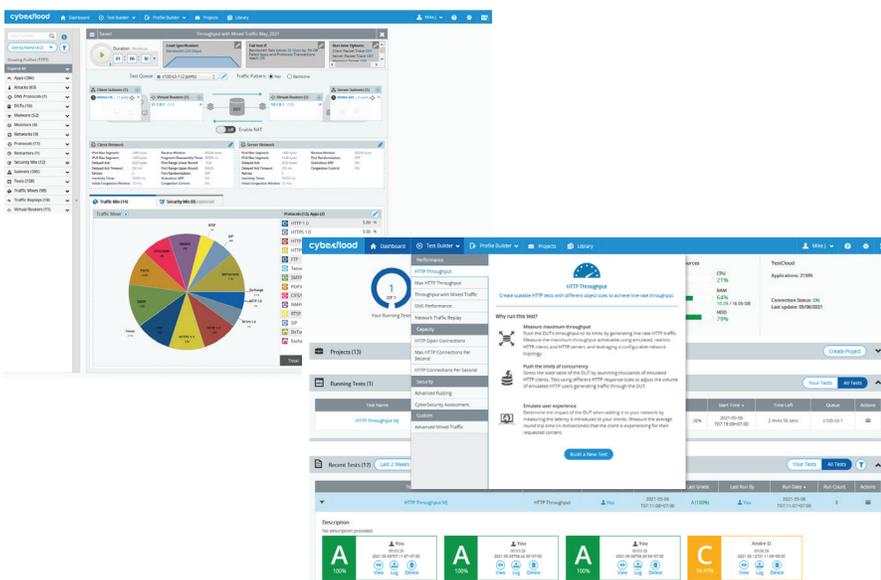
CyberFlood is a powerful, easy-to-use test solution that generates hundreds of thousands of different realistic application traffic scenarios to test the performance and scalability of today's application-aware network infrastructures. Unlike other test solutions, CyberFlood generates hyper-realistic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

## Applications

CyberFlood provides aware devices and solutions to product development teams creating next generation content, providing a competitive advantage by helping them get to market more quickly with proven scalability and performance.

Enterprise and Lab Engineers can ensure the solutions they deploy will deliver the performance required.

Optional advanced security testing solutions are also available for CyberFlood.



## Features and Benefits

- **Throughput with Mixed Traffic:** Create and run tests with preconfigured traffic mixes to achieve high throughput SSL/ TLS encryption, or create your own mixes from a database of hundreds of thousands of application scenarios to verify performance under load.
- **Test the Future of Encryption:** CyberFlood is the first to bring quantum-safe cryptography to performance testing. With support for NIST’s FIPS 203/204/205 PQC cipher suites and hybrid KEMs such as X25519Kyber768, CyberFlood validates readiness, identifies compatibility risks, and helps you plan for next-gen security upgrades—without compromising performance or QoE.
- **Application Identification:** Create high volumes of the latest mobile and cloud applications with hundreds of thousands of apps from TestCloud. The TestCloud libraries are updated continually and downloaded directly, ensuring you have the most popular and relevant apps for your testing needs. Create tests that use next generation web protocols, including the industry’s first support for HTTP/3.
- **Advanced Mixed Traffic Assessment:** Create custom and highly configurable tests and assessments with user action lists that execute a set of user application interactions for HTTP, HTTP/2, HTTP/3, HTTPS, SMTP, POP3, IMAP4, FTP, DNS over TLS and HTTPS, and other protocols.
- **AI/LLM Policy and Security Validation:** CyberFlood tests 36 GenAI apps with editable prompts to detect LLM threats such as prompt injection and measures policy impact on performance and QoE.
- **High-Scale Throughput:** Create tests that operate from a 1Gbps to 100Gbps rate to push the bounds of carrier class devices and network services.
- **IPSec Assessment:** Create comprehensive assessments of IPSec VPN setup rates, concurrent tunnels, and data rates.
- **Automatic Goal Seeking:** Determine maximum capabilities of a device with minimal user interaction.
- **SSL VPN:** Test tunnel setup and data traffic throughput capacity over an expanding set of SSL VPN dialects. Create comprehensive scale and accuracy tests with full control over data plane traffic profiles.
- **Projects:** Create groups of tests with common objectives to be worked on by multiple team members, greatly improving test lab efficiencies.
- **Traffic Replay:** Replay and scale captured traffic, recreating conditions from your own environment. Replay large files “as is” to maintain the original traffic fidelity or modify the amount of traffic.
- **High-Scale Connections per Second:** Quickly create tests to verify encrypted and/or non-encrypted capacity that a device or network can handle.
- **Reliability Testing:** Perform long duration soak tests with the TestCloud application load to ensure solutions work at high capacity for long periods of time.
- **NetSecOPEN Built-in Tests:** NetSecOPEN is a networking industry group where networking vendors, tool vendors, labs and enterprises collaborate to create open and transparent performance testing standards for today’s modern content-aware solutions.
- **ZTNA Testing:** Test the Zero Trust Policy Enforcement Point (PEP), validate that secure network and application access are delivered and verify that connections and per-user access policies are functioning as intended without impacting performance or QoE.
- **Container Support Cloud-Native Platforms:** Open-source Kubernetes, OpenShift, AWS EKS, and VMware TKG

## Platform Options

- **CF30 1U Self-Contained Appliance**  
8 x 1G/10G
- **C100-S3 High Performance Appliance**  
16 x 1G, 8 x 10G, 16 x 10G, 4 x 25G, 4 x 40G, 4 x 50G, 4 x 100G
- **C200 Slim-lined Ultra Performance Appliance**  
8 x 10G, 16 x 10G, 4 x 25G, 4 x 40G, 4 x 50G, 4 x 100G
- **CF400 High-Density Carrier Class Performance Appliance**  
2U, 16 x 10G, 16 x 25G, 8 x 40G, 8 x 50G, 8 x 100G
- **CyberFlood Virtual**  
ESXi or KVM instances—flexible scalability
- **Amazon AWS, Azure, and Google Cloud (GCP)**  
Deployments for use in cloud environments

## System Requirements

**Client**—The client used to access the virtual host must meet the following minimum requirements to run CyberFlood: Any Windows, Mac or Linux PC running the latest versions of Firefox browser, Google Chrome browser

**Virtual Host**—User provided virtual host systems must meet the following minimum requirements to run the CyberFlood Virtual Host software

- VMware vSphere Hypervisor ESXi (v6.50 or higher, 64-bit only, bare metal)
- KVM on Linux (64-bit only, bare metal)
- 320G Hard Drive
- 16G RAM
- 2+ GHz Dual Core Processor (64-bit)
- VT extensions enabled for 64-Bit OS
- Dedicated network interface with a static IP address

## Ordering Information

Description	Part Number
CyberFlood Base License for C100	CF-SW-BASE
CyberFlood Advanced Mixed Traffic Test	CF-SW-ADV
CyberFlood DNS Test Methodology	CF-SW-DNS
CyberFlood Emix Tests—Throughput with Mixed Apps	CF-SW-EMIX
CyberFlood HTTP Open Conns Testing Methodology	CF-SW-HCONNS
CyberFlood Traffic Replay	CF-SW-TRAFFREP
CyberFlood TestCloud Apps Content-1Yr	CF-C-TESTCLOUD-1Y

Other CyberFlood options are available for specific hardware platforms.

Security Testing options and other bundles are also available. Please contact Spirent Sales for more information.