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CyberFlood Advanced Mixed Traffic

Introduction

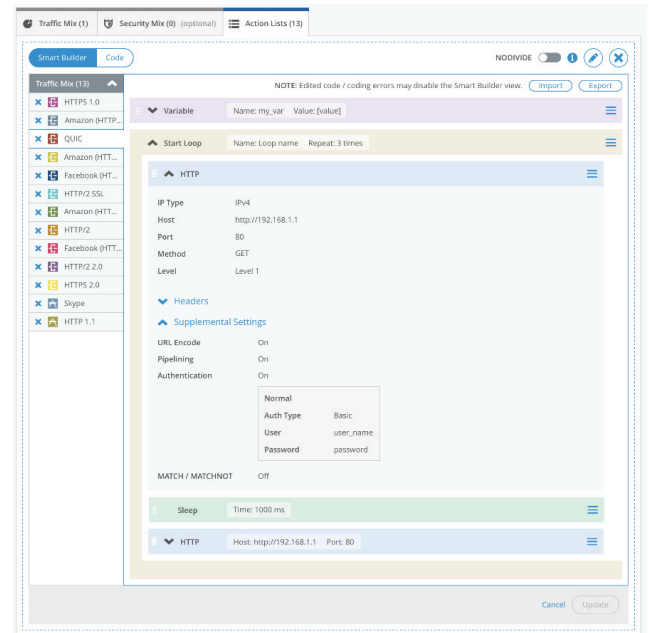
The new CyberFlood Advanced Mixed Traffic brings new levels of advanced L4–7 testing capabilities to Spirent's flagship security and performance assessment solution. The Advanced Mixed Traffic feature set is modeled on powerful functionality that has been available on Spirent's Avalanche solution. These web-based advanced functions allow users to make custom and highly configurable tests and assessments quickly and easily.

Advanced Mixed Traffic provides user action lists that allow tests and assessments to be created that execute a set of user application interactions for HTTP, HTTP/2, HTTP/3, HTTPS, SMTP, POP3, IMAP4, FTP, DNS over TLS/HTTPS, SMB, NFS and Voice and Streaming Video protocols. Additionally, users can mix action list-oriented traffic with the database of CyberFlood TestCloud scenarios, creating comprehensive real-world load traffic conditions.

The configurability of action lists allows for assessments to be two-armed where CyberFlood acts as both client and server, or one-arm testing where CyberFlood acts as emulated clients to assess actual services – such as web applications, email services and more.

Advanced Mixed Traffic can perform Web application testing including Web services, ERP and CRM applications with extended application testing capabilities to support cookie, session ID, dynamic link, automatic follow redirect, additional header, think time, variable think time and variable assignment. The action list capability in CyberFlood Advanced Mixed Traffic provides a modern interface making it easier for the creation, editing and modification of comprehensive test plans.

Advanced Mixed Traffic allows for variable parametrization allowing for different application operands for URL strings, authentication and many other protocol settings allowing for dynamic application assessments.

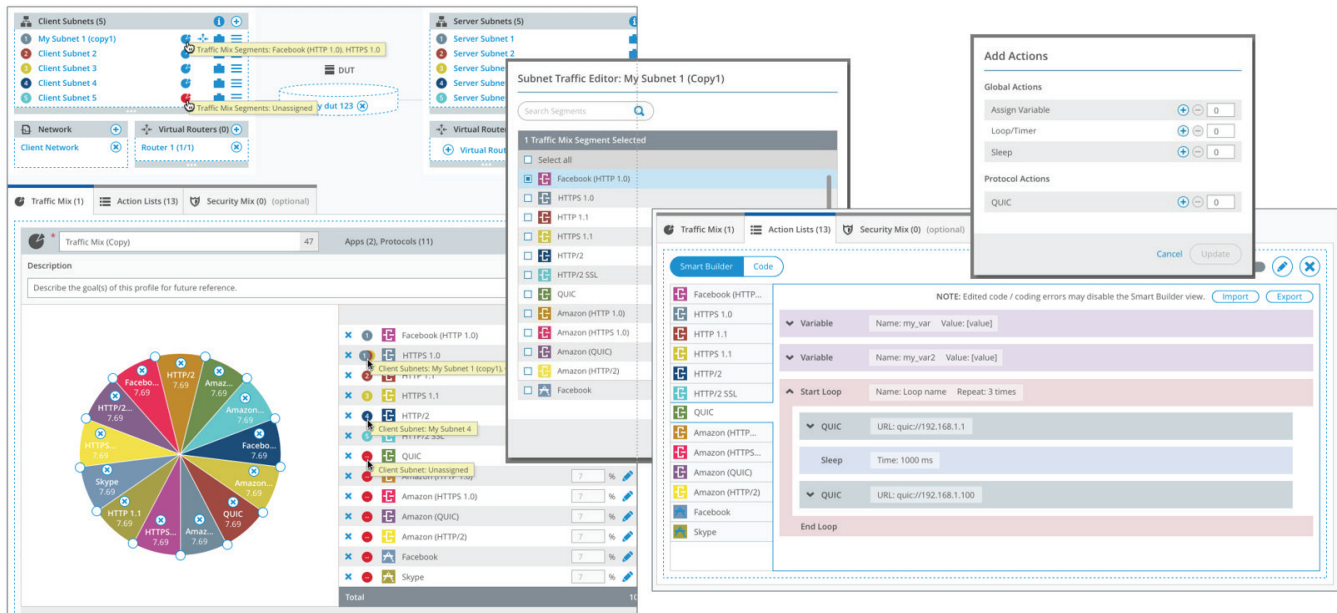


CyberFlood Advanced Mixed Traffic Test Action List Example

Users have control over network subnetting emulation and can map specific protocols to subnets allowing the segmentation of network load traffic. IP addresses can be entered or DHCP can be used to populate IP addresses from available DHCP services to create tests that align directly with the user's environment. Virtual routers can also be employed to add emulated router hops on the client and or the server side creating exacting emulated network topologies. In addition users can simulate Internet data traffic using static IPv4/IPv6 addresses, VLAN, stacked VLANs (Q-in-Q), PPPoE/PPP and VxLAN.

Advanced Mixed Traffic provides other use cases including media testing and service verification from the user's point of view with realistic voice calling (SIP over TCP and SIP over UDP), and Video Streaming Video. Video streaming includes Flash Streaming using RTMP/RTMPT, Unicast Streaming Quicktime RTSP/RTP, Unicast Streaming Real Network RTSP/RTP, Unicast Streaming Microsoft MMS, Multicast Streaming IGMPv2, IGMPv3, MLDv2 and HTTP Adaptive Bitrate streaming for Apple, DASH, Microsoft, and Adobe.

Enabling users by assigning subnets to pie slices and configuring the actions list



CyberFlood Advanced Mixed Traffic Test Topology Configuration

IPSec and SSL VPN Support

Advanced Mixed Traffic provides users the ability to realistically test their **IPSec and SSL VPN*** gateways and cloud-based VPN deployments. IPSec in Advanced Mixed Traffic provides complete performance assessment of gateways for both site to site and remote access tunnels to quickly understand and correct deficiencies before deployment. The use of real application protocols over encrypted tunnels is the best way to truly understand the gateway's overall capacities and effect on user experience.

* SSL VPN is currently supported for Cisco and Palo Alto Networks devices

CyberFlood Advanced Mixed Traffic also allows you to create comprehensive test plans with varied traffic and user actions including:

- Hundreds of thousands of TestCloud Apps supporting action list-oriented traffic with SmartApps.
- PPPoE/PPP configuration to validate user authentication and network access at scale
- Optional licensed Security Testing capabilities to validate security devices and policies with built-in security mixes. Add emulated applications, attacks, and malware from a database of hundreds of thousands of scenarios to Advanced Mixed Traffic test cases
- Comprehensive topologies assessment Subnet Per Protocol (server)
- Full development action list editor to create precise user activities at scale
- Realism configuration for in-line impairment, adding real-world conditions for lab test cases
- DHCP support for hyper-realistic test case creation

Spirent Services

Professional Services

- **Test lab optimization:** Test automation engineering services
- **Service deployment and service-level optimization:** Vendor acceptance testing, SLA benchmarking, infrastructure and security validation
- **Device scalability optimization:** POC high scalability validation testing

Education Services

- **Web-based training:** 24x7 hardware and software training
- **Instructor-led training:** Hands-on methodology and product training
- **Certifications:** SCPA and SCPE certifications

Implementation Services

Optimized new customer productivity with up to three days of on-site assistance

Ordering Information

Part Number	Description
CF-SW-ADV-C100-C200	Advanced Mixed Traffic for C100/C200 Appliance
CFV-SW-ADV	Advanced Mixed Traffic for CyberFlood Virtual

Advanced Mixed Traffic comes as a standard option on the CF30 and CF400 appliances.

Other options are available please contact Spirent sales for more information.



ALSO AVAILABLE

Optional Advanced Security Testing Capabilities

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

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