

This Former Spirent Business is Now Part of VIAVI

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To learn more about VIAVI, visit viavisolutions.com/en-us/spirent-acquisition

Spirent TrafficApp

Application Overview

Spirent TrafficApp is a web application that provides simplified workflow for Spirent TestCenter. TrafficApp works with current and future Spirent TestCenter products and is available on the AION platform.

This application provides support for packet generation and analysis of L2-3 traffic and Layer 4+ stateless flows and enables Network Equipment Manufacturers, Service Providers and Enterprises to quickly evaluate and troubleshoot a wide range of forwarding functionality, performance and scalability of any networking devices or networks.

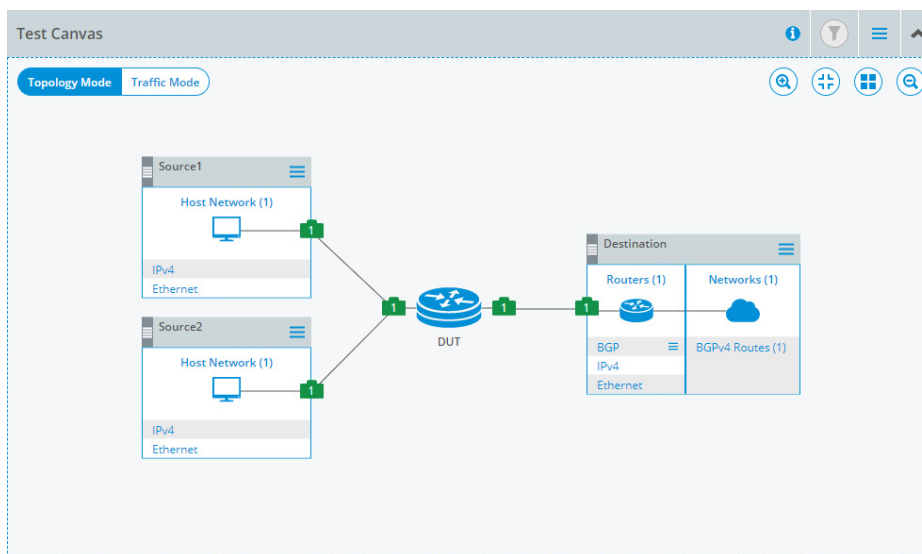
Users expose the true performance of a networking device by stress testing the routing software, data forwarding hardware, and the overall system architecture under various traffic conditions.

Intuitive Workflow

TrafficApp provides a very simplified workflow with visual test topology configuration.

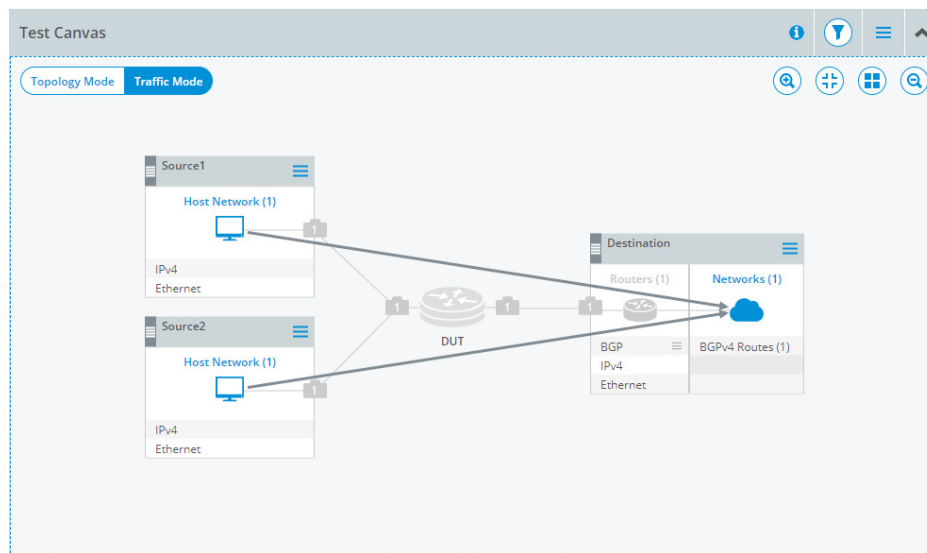
- The topologies can be dragged and dropped onto the Test Canvas from the library.
- Regular host devices are emulated by the host topologies.
- Routing protocols and routes are available in Router topologies.
- Traffic directions can be setup in a few clicks by connecting the end points and drag and drop traffic flows from an array of traffic mixes available in the traffic library.

Each traffic flow can be further customised as per user test requirements. The number of traffic endpoints can be scaled up quickly by just changing the count.



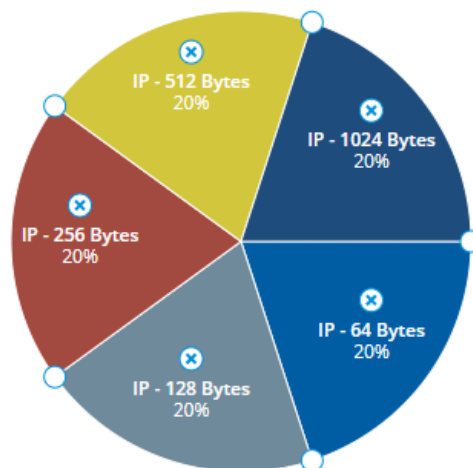
Creating test topologies quickly and with ease with TrafficApp

- **Real World Network Topologies**—emulate real world networks and evaluate key performance parameters of routers or networks under typical or extreme traffic load conditions for minutes, hours & days
- **Network/Service Reliability**—verify scale, reliability, performance of Layer 2 and 3 services
- **Reduced Time-To-Test**—accelerate time-to-market for your products and services
- **Increase Productivity**—easy-to-use, intuitive interface with visual test topology configuration means less time learning the tool & more time testing
- **Actionable Analytics**—get answers you can act upon, not just tables of results
- **Cost-Effective Solution**—TrafficApp comes as an optional application in Spirent AION platform at no additional cost
- **Trusted Partner**—benefit from decades of testing experience with Spirent as your guide through a world of complex testing



Intuitive ways to set up and connect traffic endpoints

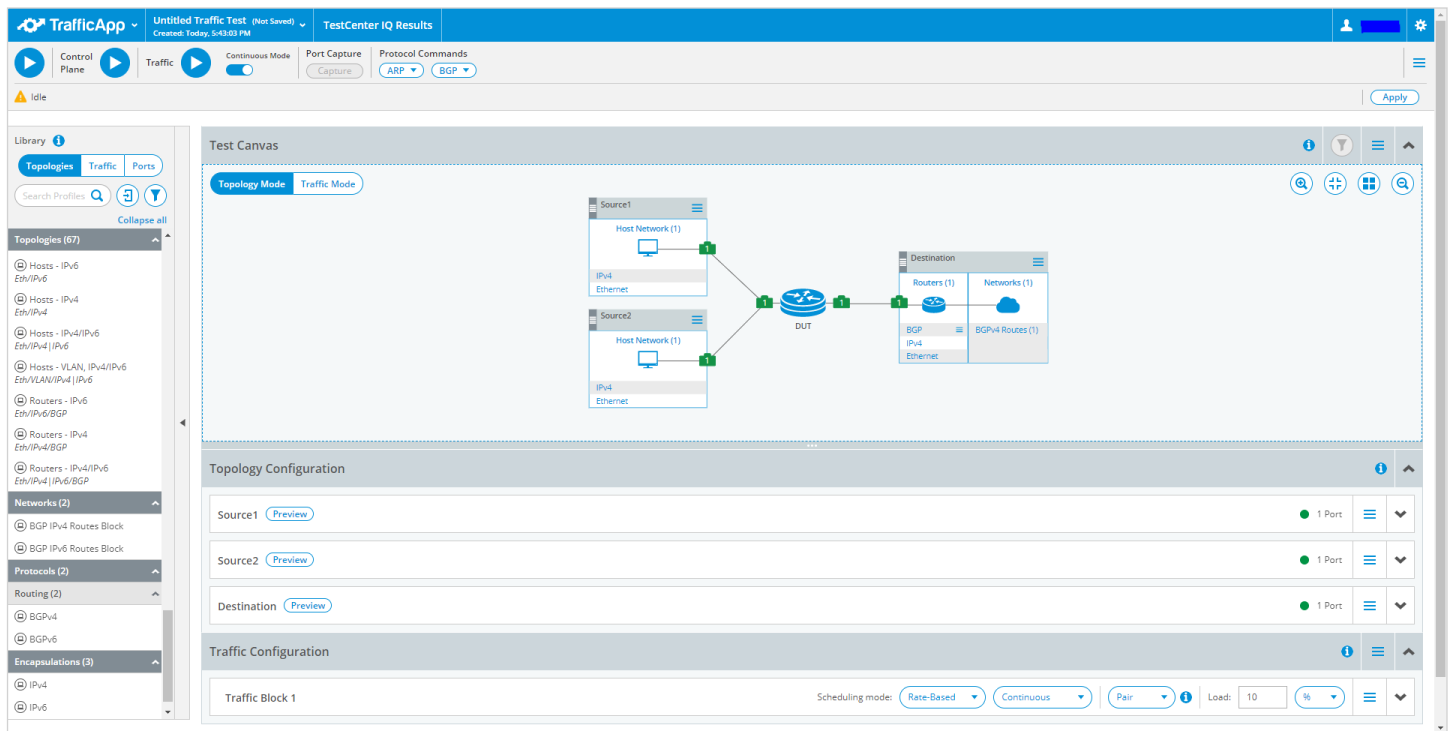
Configuration steps are very flexible; once a test topology is setup, assigning ports, adding traffic flows, editing the topologies or traffic flows can be done in any order that suits the user. Any customized topology or traffic flow can be saved to library and used later in another test. The entire configuration can also be saved for later use. The user can also configure and save details of a DUT in a test and use it later. The test controls and status notifications at the top always keep the user informed about test progress.



Traffic flow example - IMIX

Actionable Analytics

TrafficApp is integrated with TestCenter IQ for intelligent result services. Leveraging TestCenter IQ, users can quickly analyse results, sort and filter data, and easily drill-down to identify problems and discover trends. The capability to correlate real time data-plane and control-plane values across the Layer 2-3 stack is an industry-first and helps dramatically simplify troubleshooting. User defined thresholds for health indicators help to automatically isolate and present relevant data for easy analysis. With more coverage and information, users can answer questions faster in a single test run, where other tools might require multiple runs.



Intuitive TrafficApp dashboard enables creating and configuring traffic flows and profiles with ease

Features and Benefits

Ease of Use

- Intuitive, easy to use web interface to get you started quickly
- Easy to configure complex tests using visual topology and simple to navigate workflow
- Customize, save, and reuse test configurations including topology, DUT, port and traffic profiles
- Intelligent test results and reports available in Spirent TestCenter IQ
- Configure, execute a test, and analyse test results directly from a web browser
- In-app user assistance provided in UI quick tips, info boxes, hover tips
- Seamless integrated experience with application, licensing, chassis/test ports (HW/virtual) management in AION platform

Extensive Functionality

- Evaluate the performance, stability and scale of switches, routers, edge and many other devices under static or dynamic load conditions for minutes, hours and days
- Characterize and troubleshoot functional behavior (including negative testing) of new network functionality in the development lab or before deployment into the operational network, find the problems before your customers do to reduce customer churn
- Evaluate key performance parameters and functions such as per-flow QoS, fail-over time, or Access Control Lists (ACL), and ensure you can meet your SLAs
- Perform comparative analysis of devices or services with deterministic traffic during product development cycles or vendor comparisons, choose the right products/ services to build your own offering
- Actionable analytics via user definable Health Indicators for consolidated, real-time monitoring & correlation to get the answers you need faster
- Integration of events with results data for deep analysis of system behavior
- Historical time series data allows running Health Indicators on historical data to analyze system behavior in new ways, replaying completed test to analyze at any time in the future

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

Technical Specifications

Topology Library	
Hosts	IPv4, IPv6, Dual Stack - IPv4 IPv6
Routers	IPv4, IPv6, Dual Stack - IPv4 IPv6
Protocols	BGPv4, BGPv6
Networks	BGP IPv4 routes, BGP IPv6 routes
Encapsulations	IPv4, IPv6, VLAN (Ethernet is compulsory)
Traffic Library	
Traffic Flow	BitTorrent, CIFS/SMB, Exchange, FTP Stateless, HTTP 1.0 Stateless, HTTP 1.1 Stateless, HTTPS 1.0 Stateless, HTTPS 1.1 Stateless, High Priority, IMAP4, MMS, POP3, RTSP, Radius, Routine Priority, SIP, SMTP, TCP Stateless, Telnet, UDP Stateless, WOW, YouTube
Traffic Mix	Basic, Enterprise Mix, IMIX, Mixed Priority, Multiprotocol IMIX, Service Provider Mix, Stateless
Test Controls	
Test Activity	Start, Stop
Control Plane	Start, Stop
Traffic	Start, Stop, Continuous, Fixed Duration
Capture	Start, Stop
Protocol Commands	ARP, BGP
Test Settings	
ARP Settings	ARP Rate, Burst Size, Retry Count, Timeout
BGP Settings	Maximum Routes Per Update, Inter Update Delay, TCP No Delay, Pack Updates up to MTU, Ignore Attribute Errors
Traffic Flow Parameters	
Frame Size	Auto, Fixed
QOS	DiffServ, ToS
Payload Fill Type	Constant, PRBS
Traffic Generation	Inter Frame Gap, Burst Size
TCP Header	Source/Destination Port - Fixed, Random, Increment, Decrement
UDP Header	Source/Destination Port - Fixed, Random, Increment, Decrement
Traffic Block Settings	
Scheduling	Rate-Based, Priority-Based
Duration Mode	Continuous, Burst
Traffic Type	Backbone, Pair
Load	Percentage (%), fps, bps, Kbps, Mbps, Gbps
Port Settings	
Port Configuration	Port Speed, MTU
Automation	
API	Rest API
Supported Platforms and Modules	
Supported with most flavours of the Spirent Appliances - A1-400G, DX3-400G, PX3-400G, and Test Modules - MX3-100G, FX3-100G, PX3-100G, DX3-100G, MX2/FX2-10G. Please contact your Spirent Sales Representative to find the right hardware for your testing needs.	