Network Equipment Manufacturers (NEMs) and Service Providers (SPs) developing and deploying a new generation of network devices must:

- Validate performance and functionality under realistic conditions
- Accelerate development and time-to-market
- Gain efficiencies and reduce costs in R&D, QA, and manufacturing

At the same time, the Deep Packet Inspection (DPI) functionality of today’s content-aware equipment has introduced millions of new variables that impact performance and security while adding significant cost and complexity to testing.

BreakingPoint Elite provides comprehensive Layer 2-7 testing for network equipment and application servers in a high performance, compact, flexible, and easy-to-use product. Unlike legacy testing tools that are designed for HTTP-only test environments and struggle to generate realistic Layer 4-7 traffic, BreakingPoint provides authentic application traffic blended with live security attacks at speeds of 20 Gigabits per second and faster.

This small footprint chassis also generates 80 Gigabits per second of Layer 2-3 traffic and shatters all previous session performance and throughput capabilities by delivering 15 million simultaneous TCP sessions and 1.5 million TCP sessions per second. BreakingPoint Elite is the only product capable of testing the functionality of next generation equipment including Application Servers, Content Switches, Load Balancers, Proxies, Firewalls, Intrusion Detection and Prevention Systems, Virus and Spam Filters, VPN Gateways, and WAN Optimization devices.

A single BreakingPoint Elite chassis delivers:

- **The Most Realistic Blended Traffic on a Single Port:** The most authentic testing possible with the ability to natively generate blended traffic from more than 60 application protocols and 3,600 live security attacks. New applications are released weekly and an API is available for creating your own proprietary application traffic.

- **Industry-leading Session Performance and Throughput:** The price performance leader with 15 million simultaneous TCP sessions, 1.5 million TCP sessions per second, 20 Gigabits per second of Layer 4-7 traffic and 80 Gigabits per second of Layer 2-3 traffic. Scales easily to more than 200 Gigabits per second of Layer 4-7 traffic and 800 Gigabits per second of Layer 2-3 traffic.

- **Easy-to-Use Automated Testing:** Dramatically simplifies network equipment testing without sacrificing performance and realism. Intuitive management interface, application profile repository, multi-user capabilities, integrated reporting, and extensive automation improve productivity for staff of all skill levels. Reduces time-to-test by 50% or more.

- **Price-Performance Leadership:** Packs an enormous punch in a 4 rack unit 2-slot chassis with the highest 10 GigE port density for stateful Layer 4-7 traffic, lowest cost per TCP session, lowest cost per Gigabit of Layer 4-7 traffic, and lowest power consumption.
BreakingPoint Elite Data Sheet

BreakingPoint Elite Features

Application Protocols
Mobility and security threats and vulnerabilities of network equipment and application servers with the most sophisticated Layer 4-7 traffic generation and on-demand capture. BreakingPoint Elite also provides blended traffic from the widest range of protocol applications and helps you identify the weaknesses of the traffic that the AP is attempting to acquire.

BreakingPoint Elite supports multiple users including HTTP/S, FTP, TFTP, SMB, IMAP, SMTP, DCAP, SSH, Telnet, VNC, POP3, FTP, LDAP, LDAP+389, LDAP+SSL, LDAP+TLS, LDAP+TLS/SSL, LDAP over SSL, IMAP, Telnet, TFTP, TFTPv6, TFTPv6 over UDP, TFTPv6 over TCP, TFTPv6 over UDP, TFTPv6 over TCP.

Intuitive, cross-platform Adobe® Flash-based management interface

Complete Microsoft® Tuesday coverage

The most complete security coverage

Testing industry’s price-performance leader

Multi-user Testing and Administration

The unique BreakingPoint Elite architecture features three distinct integrated layers that deliver seamless blended application traffic with a cross-platform Flash-based user interface, automated test execution, and unified reporting.

Supports multi-language capabilities

Provides seamless blended application traffic with the widest range of protocol applications and helps you identify the weaknesses of the traffic that the AP is attempting to acquire.

No degradation with blended protocols

With BreakingPoint Elite’s Layer 2-3 packet generation capabilities, you can determine the maximum raw sustained bits per second using one test connection. BreakingPoint Elite supports multi-language capabilities. The unique BreakingPoint Elite architecture features three distinct integrated layers that deliver seamless blended application traffic with a cross-platform Flash-based user interface, automated test execution, and unified reporting.

Test Automation and TI Scripting
Reduce configurations to a matter of minutes with extensive test automation. Select from a library of pre-configured tests that are stored in a central repository or customize your own. Tests can be run from any host on the network without having to install client software.

Get real-time statistics for monitoring test progress.

BreakingPoint Elite Architecture

BreakingPoint Elite Product Architecture

Concurrent TCP sessions per second.

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BreakingPoint Elite Architecture

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BreakingPoint Elite

**Feature Highlights**

- Comprehensive Layer 2-7 testing for today's content-aware environments including Firewalls, Intrusion Detection and Prevention Systems, NGFW, Next-Generation Firewalls (NGFW), and stateful spine.
- The price-performance leader in server load testing.
- Most realistic blended application traffic and 15 million TCP sessions per second.
- Features application layer fuzzing for zero-day detection.
- Includes IPv6 and SSL support with the ability to generate blended traffic.
- Stateful recreation and replay of captured traffic.
- Future-proof architecture.
- Provides break through high performance hardware layer features.
- Provides the ability to start new tests in as little as a day.
- Generates 150 million concurrent TCP sessions and 15 million TCP sessions per second.
- Generates 280 Gigabits per second of Layer 2-3 traffic and 60 Gigabits per second of Layer 2 traffic in multiple systems.

**Application Simulation**

- Reduces the cost of consuming test configuration with BreakingPoint Elite Automation Profiles that can automate realistic test scenarios.
- Generates realistic application traffic at up to 2 Gigabits per second per application without performance degradation.
- Includes IPv6 and SSL support with the ability to generate blended traffic to test a single device.
- New application profiles are released each week and an API is available for customizing application protocols.
- Generates blended traffic at 2 Gigabits per second without performance degradation.

**Comprehensive Security Coverage**

- Usage and apply this flexibility for security applications, save bandwidth, and other content-aware security environments.
- Generates blended traffic at 2 Gigabits per second without performance degradation.
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**Networking Support**

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**Multi-user Testing and Administration**

- Accesses multiple instances of BreakingPoint Elite using a single interface, one test configuration and integrated reporting.
- Broker generates detailed reports for each test that can be integrated with graphical and textual content.
- Integrated reporting allows you to log multiple products together and produce a single report of findings.

**Scalability**

- Scales to enormous performance levels by linking multiple BreakingPoint chassis using a single interface, one test configuration and integrated reporting.

**Performance and Scalability**

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**Integration with Other Systems**

- Use the dynamic mix and high volume of application traffic in conjunction with other systems.
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BreakingPoint Elite Product Architecture

With the dynamic mix and high volume of application traffic on Enterprise and Service Provider networks today, keeping high performance testing conditions current is an ongoing challenge. Unlike other testing products, BreakingPoint Elite architecture features three distinct but integrated layers that deliver authentic blended application traffic with live security strikes at unprecedented speeds with immense session performance.

- BreakingPoint Management Layer: An intuitive management interface, application repository, automated reporting and application API that enables addition of new application protocols and security attacks in a matter of hours.
- BreakingPoint Control Layer: An intelligent control layer that provides sophisticated test automation eliminating the need to develop new scripts for every test.
- BreakingPoint High Performance Hardware Layer: Breakthrough high performance hardware layer features multiple FPGAs, network processors, and an array of embedded processors to produce millions of real application data streams and speeds of 20 Gigabits per second and faster.

The unique BreakingPoint Elite architecture features three distinct but integrated layers that deliver authentic blended traffic, responsiveness, ease-of-use, and unprecedented performance.

Multi-user Testing and Administration

Multiple users can access BreakingPoint Elite at any given time to maximize test equipment utilization across staff. An innovative port reservation system allows users to assign port ownership to alleviate resource contention.

Scalable Testing

Scale to enormous performance levels by linking multiple BreakingPoint chassis using a single interface, one test configuration and integrated reporting.

- Generate 150 million concurrent TCP sessions and 15 million TCP sessions per second.
- Generate 200 Gigabits per second of Layer 4-7 traffic and 800 Gigabits per second of Layer 2-3 traffic using multiple systems.

Reporting

BreakingPoint produces detailed reports for each test that are rich in graphical and textual content. With integrated reporting you can link multiple products together and produce a single report of findings. Charts can be exported for inclusion in other documents in a variety of different formats.

- Automatically produce reports that include a table of contents, executive summary, as well as charts and graphical presentation of detailed results data.
- Export presentation ready information to PDF, RTF, XLS, CSV, and HTML formats.
- Get real-time statistics for monitoring test progress.
The Benefits of High Performance Content-aware Testing with BreakingPoint Elite

- Ensure reliability under realistic conditions to mitigate the risk of production outages.
- Accurately detect hard-to-find performance and security issues faster and ensure the integrity of applications.
- Overcome speed, security coverage, and reliability in competitive scenarios.
- Leverage best-in-class test automation and streamline the need for custom scripting.
- Dramatically reduce the cost and complexity of application server load testing, including server performance and business transaction performance.
- Reduce ROI, QA, and operating costs with comprehensive Layer-2-7 testing in a compact, energy-efficient, easy-to-use product.

Application Protocols Supported

The following is a partial list of supported application protocols. Please visit www.breakingpoint.com for the most up-to-date information on new protocols and security attacks that are added weekly.

Application Protocols Supported

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- Accelerate development and time-to-market.
- Gain efficiencies and reduce costs in R&D, QA, and manufacturing.

At the same time, the Deep Packet Inspection (DPI) functionality of today’s content-aware device has introduced millions of new variables that impact performance and security while adding significant cost and complexity to testing.

BreakingPoint Elite provides comprehensive Layer 2-7 testing for network equipment and application servers in a high performance, compact, flexible, and easy-to-use product. Multiple legacy testing tools that are designed for only HTTP-only test environments and struggle to generate realistic Layer 4-7 traffic, BreakingPoint provides the industry’s fastest, most accurate, responsive and intuitive management interface, application protocols and 3,600 live security attacks.

BreakingPoint Elite data sheet provides the industry’s fastest, most accurate, responsive and intuitive management interface, application protocols and 3,600 live security attacks.

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- Ensure reliability under realistic conditions
- Demonstrate superior performance, security coverage and reliability in extreme conditions
- Reduce R&D, QA, and operating costs with comprehensive Layer-2/3 testing in a compact, energy-efficient, easy-to-use product

High Performance Testing for Network Equipment and Application Service Providers

Industry-leading Session Performance and Throughput:
- 15 million simultaneous TCP sessions and 1.5 million TCP sessions per second
- 20 Gigabytes of capture buffer per port
- 8 Gigabits per second of Layer 2-3 traffic

Multi-Protocol BreakingPoint Elite per port provides the industry’s fastest, most accurate, responsive and easy-to-use testing solution, helping network equipment manufacturers, service providers, and enterprises accelerate development of high performance content-aware networks, network devices, and other equipment, while reducing R&D, QA, and operating costs. The company is headquartered in Austin, Texas with offices and customers in Canada, China, Finland, France, Germany, India, Israel, Italy, the United Kingdom, United States and more. For more information, visit www.breakingpoint.com.

BreakingPoint Proves the Industry’s Fastest, Most Accurate, Responsive and Easy-to-Use Testing Solution

BreakpointPro has poured close to 1,000 man years into technology development and implementation to build a product capable of testing the functionality of next generation network equipment and applications.

Multiple BreakingPoint Elite platforms can produce complete integrated reports and manage network environments to ensure management interactivity and application performance.

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Easy-to-Use Automated Testing: Dynamically simulates network equipment testing without requiring performance and scalability testing environment, application profile repository, multi-user capabilities, integrated administrative role and management system. This instrument is available for staff of all skill levels. Reduces time to test by 60%.

Taking Security to the Next Level: BreakingPoint Elite includes advanced session performance and throughput capabilities by delivering live security attacks at 20,000 sessions per second. BreakingPoint Elite in the only product capable of de-bottlenecking the performance capabilities of next generation equipment including Application Servers, Content Servers, Load Balancers, Proxies, Firewalls, IMS Gateways, Content Delivery Networks, System/Network Servers, and DNS engines.

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- Validate performance and functionality under realistic conditions
- Accelerate development and time-to-market
- Gain efficiencies and reduce costs in R&D, QA, and manufacturing

At the same time, the Deep Packet Inspection (DPI) functionality of today’s content-aware equipment has introduced new complexity that is impacting performance and security while adding significant cost and complexity to testing.

BreakingPoint Elite provides comprehensive Layer-2/3 testing for network equipment and Application Service Providers in a high-performance, compact, flexible, and easy-to-use product. Stand-alone testing tools that are designed for DPI only test functionality and struggle to generate realistic Layer-4 traffic. BreakingPoint provides comprehensive applications traffic blended with live security attacks at speeds of 20,000 sessions per second.

The small footprint chassis also generates 80 Gigabits per second of Layer 2-3 traffic, and delivers 1.5 million TCP sessions per second.

For more information, visit www.bpa.com

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