

Ixia Joint Product Brief

Performance Management with Effective Threat Prevention

The Challenge

Rapidly growing network data loads, increasing application complexity, and emerging hybrid IT deployment environments continue to raise the bar on delivering consistently high levels of IT services. In addition, escalating end-user expectations makes achieving optimal service delivery critical to the success of the business and IT organization.

The Solution

Ixia, with their extensive line of intelligent network packet brokers and vTAP, offers exceptional visibility and packet preprocessing capabilities into on-prem, cloud, and highly virtualized environments. Combined with Viavi Observer GigaStor packet capture and long-term retention appliance, IT organizations are able to get in-depth views into service health while also providing rapid troubleshooting when anomalies occur – achieving ultimate visibility into network activity.

Joint Solution Benefits

- GigaStor back-in-time functionality via time navigation interface means never having to wait for the problem to repeat
- The deep packet inspection of Ixia network packet brokers classifies traffic in real time and directs relevant traffic to GigaStor by parameters such as application type, geolocation, or device type—further optimizing GigaStor performance and investment
- GigaStor true line-rate gigabit, 10 Gb, and 40 Gb support with the industry's fastest 40 Gb wire-rate packet capture and storage ensures total transaction visibility and intelligence into potential security breaches
- Ixia zero-loss advanced packet processing improves GigaStor tool efficiency through techniques such as deduplication and packet trimming
- Tuned hardware-software design with the advanced GigaStor accelerated analytics engine achieves simultaneous line-rate capture and the fastest packet capture mining in the industry for nearly instant network traffic awareness
- Bundled solution streamlines ordering, simplifies fulfillment and provides a single point of contact for post-sales assistance

Introduction

The key to delivering consistent end-user experience begins with uncompromised access to all the packets traversing the network (wire data). Capturing this wire data allows you to go back-in-time as required to review past application transactions or network conversations. Only then can the most difficult application issues be addressed and the most pernicious security threats and breaches be resolved.

According to recent Gartner research, the importance of wire data will continue to grow in the next several years: “While log data will certainly have a role in future monitoring and analytics, it is wire data — radically rethought and used in new ways — that will prove to be the most critical source of data for availability and performance management over the next five years.”¹

Ixia and Viavi Solutions have teamed up to deliver the two critical linchpins to accomplish this goal of total wire data visibility. Ixia intelligent network packet brokers and Viavi network performance monitoring and diagnostic (NPMD) solutions combine to streamline analytics while passing relevant, pre-processed traffic as required to achieve the unique monitoring objectives of your business.

The Ixia and Observer GigaStor Solution

Application complexity, traffic volumes, and the growth of security threats show no signs of slowing. In addition, more recent trends like hybrid IT are moving compute and network resources to more optimal locations for service delivery and financial efficiency – such as on-prem, public/private cloud or a combination—adding yet another layer of potential headaches for those responsible for maintaining acceptable IT services. This is another area where access to wire data can improve monitoring.

The combination of Ixia intelligent network packet brokers and GigaStor delivers panoramic perspectives into network activity and performance visibility. The combined solution provides IT teams with these advantages:

- The best long-term packet capture and post-event wire data analytics in the industry
- Outstanding visibility into all sources without a single dropped packet
- Visibility into cloud-based and virtualized east-west traffic
- Quick threat isolation to the area of interest
- Faster MTTR for critical and revenue-impacting problems

1. Gartner, Inc., “Use Data- and Analytics-Centric Processes With a Focus on Wire Data to Future-Proof Availability and Performance Management,” Will Cappelli, Vivek Bhalla, March 10, 2016.

Benefits of the Ixia-Viavi Unified Solution

Achieving high-levels of IT service performance consistently is best accomplished using tools that facilitate total wire-data visibility without the loss of a single packet. By delivering a coordinated network packet broker and NPMD solution, that is recognized by Gartner² as a Leader in the industry, the Ixia-Viavi partnership does just that.

Ixia vTAP facilitates the process by making network traffic visible within a hypervisor, greatly enhancing east-west traffic intelligence. Next, the Ixia family of network packet brokers offers capabilities to address the distinct needs of every enterprise size and deployment model. Advanced packet processing features include:

- Deduplication
- Header stripping
- Trimming
- Data masking
- Timestamping
- Burst protection

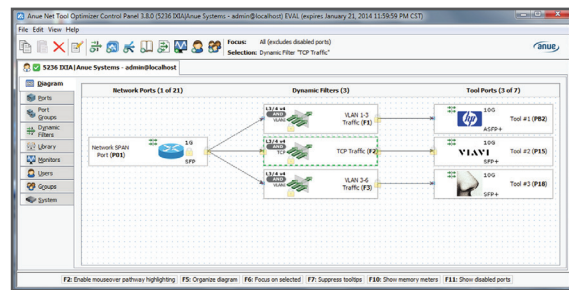
An application threat intelligence processor is also available from Ixia on select models which includes:

- Intelligent application processing
- Deep packet inspection
- Application filtering
- SSL decryption
- Flexible traffic handling
- Netflow/IPFIX generation
- Regex searching and data masking

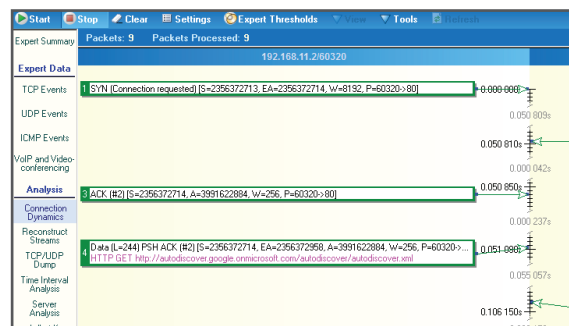
As an integral part of the Observer Platform, GigaStor and the entire suite of products is then able to exploit its pre-engineered workflows along with back-in-time functionality in conjunction with in-depth network, unified communications, and application awareness to solve your most challenging service and security anomalies.

- Web-based trace extraction
- True and sustained gigabit, 10 Gb, and 40 Gb line-rate performance
- Integrated AES-256 data-at-rest encryption
- Expert analytics with detailed network and application awareness
- Numerous form factors from a few terabytes to over a petabyte of capture capacity
- Fault-tolerant custom enclosures that support four years of uninterrupted, 100% duty-cycle usage
- Built-in network, application, and service analytics for simple workflows
- Expert analytics with detailed network and application awareness
- High-performance, in-house designed Gen3™ capture card

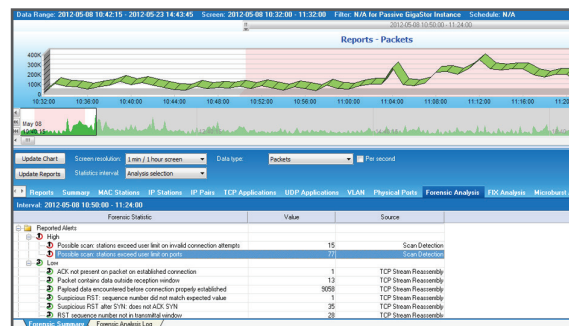
2. Gartner, Inc., "Magic Quadrant for Network Performance Monitoring and Diagnostics," Sanjit Ganguli and Vivek Bhalla, February 21, 2017.



Ixia's Dynamic Filtering for Fast Filter Setup



Viavi Solution's GigaStor Application Intelligence



GigaStor's Security Threat Back-in-Time Awareness

Learn More

For more information on the Viavi and Ixia solution, contact your local vendor sales rep or visit:

www.ixia.com/viavi_partnership

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