COMPLETE VISIBILITY AND TROUBLESHOOTING SOLUTIONS

The Ixia network visibility architecture provides complete network access for the Viavi GigaStor™ Retrospective Network Analysis Appliance

SOLUTION

Stop missing critical network events. Instead, rewind your network to quickly troubleshoot sporadic performance problems. Storing up to 576TB of network data for days, weeks, or months, the GigaStor can navigate to the exact moment a problem happened to show a detailed packet-level view of before, during and after the occurrence. The Ixia network visibility solution and GigaStor work together to capture and analyze network traffic in a scalable solution that can accurately and efficiently monitor networks of any size. Ixia network visibility solutions passively direct out-of-band network traffic from multiple access points, such as SPANs, taps, and virtual taps (also sold by Ixia), in the network to the GigaStor for capture. Traffic is aggregated from all needed access points in the network to provide comprehensive visibility. The GigaStor records 100 percent of full duplex network traffic at 10G line-rate speeds. The Network Instruments GigaStor and Observer products can then search and analyze the captured traffic for anomalies and quick problem resolution.

HIGHLIGHTS

The Viavi GigaStor provides massive data collection and unique time-based analysis that eliminates the need to recreate problems, rapidly decreasing resolution time. The Ixia network visibility
architecture complements the GigaStor network recorder by extending access to all needed network traffic. The joint solution provides complete visibility into network traffic in a highly scalable system that is easy to deploy.

JOINT SOLUTION BENEFITS

Full network visibility – Ixia network visibility solutions deliver all required traffic from anywhere in the network to the GigaStor to record 100% of the traffic for playback and analysis.

• Simplified deployment – The solution is flexible enough to work in any network environment and can share access with monitoring and security tools that are already deployed.

• Easily scalable - Additional 1G, 10G, 40G, 100G, or virtual ports can be added and filters dynamically adjusted to meet bandwidth requirements.

• High availability – Automatically direct traffic to other GigaStor appliances as needed.

• Expand storage capacity – Packet de-duplication can significantly increase capacity to rewind your network in time.

SAVE TROUBLESHOOTING TIME AND IMPROVE APPLICATION PERFORMANCE

GigaStor’s retrospective network analysis (RNA) capabilities provide the benefit of perfect hindsight for attacking every network problem and anomaly. With continually captured data, GigaStor makes it easy to rewind your network, determine the problem source, perform comprehensive analysis, and move on. With RNA users can:

• Quickly isolate and resolve network and application issues.

• Ensure successful application deployments.

• Reconstruct and troubleshoot VoIP calls.

• Investigate and document compliance violations.

GigaStor can be seamlessly used with Viavi’s Observer Reporter Server (ORS) that provides customizable dashboards to track critical applications and services at the highest level. ORS provides current application status to quickly assess service quality, and respond to degrading performance before it impacts users. When a problem is detected, the network manager can drill down to the problem device or packet on GigaStor.
IXIA NETWORK VISIBILITY SOLUTIONS EFFICIENTLY AND FLEXIBLY DIRECT TRAFFIC TO GIGASTOR APPLIANCES AND OTHER MONITORING TOOLS

Ixia network visibility solutions complement the GigaStor solution by providing access to all needed network traffic. The Ixia network packet broker is deployed between the access points in the network that need to be monitored and the GigaStor appliance. In addition, the Ixia packet broker simultaneously aggregates traffic from multiple SPAN ports and physical and virtual taps in the network and directs the aggregated traffic to the GigaStor. This provides efficient access to asymmetric traffic across large heterogeneous networks. Traffic that should not be recorded or is not needed can be filtered out by the Ixia packet broker prior to consuming resources on the GigaStor.

The Ixia network visibility solutions also allow traffic from a network access point to be shared with multiple monitoring tools. This eliminates the SPAN/TAP shortages that can commonly occur when the GigaStor is prevented from getting access to critical traffic because another tool is already attached to a needed access point. Additionally, by removing duplicate packets, the Ixia network packet broker can enhance the throughput and storage capacity of the GigaStor.

The Ixia network visibility solution’s advanced automation and Simple Network Management Protocol (SNMP) features are supported by Network Instruments. The Ixia network visibility solution’s SNMP enterprise is fully supported in the Observer Infrastructure network management system product to provide 100 percent visibility on what traffic is and is not being sent to the GigaStor. The Ixia network visibility solution’s automation capability can be easily used with a GigaStor for a range of applications including:

- Filtering out backup traffic automatically to save GigaStor disk space and processing.
- Detecting if a GigaStor is off-line and then immediately redirecting traffic to another GigaStor on the network to provide high availability.
- Dynamically tightening filters as needed to ensure key traffic is always recorded.
- Load balancing traffic across multiple Gigastor input ports.

An intuitive control panel makes the Ixia network visibility solutions easy to set up and use. Simply drag-and-drop a virtual connection between SPANs/TAPs and the GigaStor to make a live connection with existing network infrastructure and management systems.

ABOUT VIAVI SOLUTIONS

Viavi (NASDAQ: VIAV) software and hardware platforms and instruments deliver end-to-end visibility across physical, virtual and hybrid networks. Precise intelligence and actionable insight from across the network ecosystem optimizes the service experience for increased customer loyalty, greater profitability and quicker transitions to next-generation technologies. Viavi is also a leader in anticounterfeiting solutions for currency authentication and high-value optical components and instruments for diverse government and commercial applications. Learn more at viavisolutions.com.
ABOUT IXIA

Ixia delivers a powerful combination of innovative solutions and trusted insight to support network and security infrastructures from concept to operation. Whether you are preparing a product for launch, deploying a service or application, or managing performance in operation, we offer an extensive array of solutions for testing, visibility, and security—all in one place.

Our solutions are used worldwide to validate network functions, test the integrity of security infrastructures, and deliver an end-to-end view of the network. The result: stronger networks, better performance, increased security resilience, happier customers, and maximum ROI.