

VIAVI

VIAVI Solutions



Product Brochure

VIAVI Observer GigaStor

Post-event analysis
and network security forensics

Rewind. Review. Resolve.

Stop Missing Critical IT Service Events

Observer® GigaStor™ is instrumental in solving IT service delivery issues whether related to network or application anomalies or security threats. The undisputed leader in forensic analysis, GigaStor eliminates the time-consuming task of recreating problems for troubleshooting or investigation. Just hit rewind to go “back in time” and review past network activity. Then, navigate to the exact moment a problem was detected or a malicious event is suspected to see detailed network conversations at the packet level before, during, and after the occurrence.

Benefits

GigaStor is the perfect solution for security, compliance, and troubleshooting needs. It ends finger pointing between network and application teams providing fast and accurate problem identification and resolution while augmenting real-time security efforts—offering corporate-wide benefits and advantages. Features and benefits include:

- Line-rate gigabit, 10 Gb, and 40 Gb support with the industry's fastest, independently validated wire-rate packet capture and storage ensures total transaction visibility and intelligence into potential security breaches
- Back-in-time functionality means never having to wait for a service anomaly to repeat before resolving. Web-based trace extraction enables third-party integration and easy sharing across IT silos
- Support 1/10, 40, and 100 Gb network interface speeds; scalability to more than a petabyte of capacity enables extended visibility into past service delivery health
- Integrated AES-256 data-at-rest encryption with no negative impact to capture or mining performance
- Tuned hardware-software design with 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
- Built-in network, application, and service analytics for simple workflows and rapid troubleshooting wherever the problem may reside
- Expert analytics with detailed network and application awareness, including deep-packet inspection, facilitates problem solving and offers comprehensive views into possible security intrusions
- Fault-tolerant rack and portable custom enclosures are designed to support five years of uninterrupted, 100 percent duty-cycle capture without dropping a single packet; software options provide for flexible hybrid-IT deployment

“In the financial industry, losing any data is a big deal. That’s why we use Observer Analyzer and GigaStor to ensure we see everything.”

- Chicago Board Options Exchange

Key Features



Web-Based Trace Extraction

Whether performing troubleshooting directly or sharing with third-party solutions, accessing packet-level data is easy with GigaStor web-based trace extraction. Critical service-level communications can be mined through a browser (without a thick client) by using the built-in web service.

Time Navigation Interface

Simplify problem isolation with GigaStor’s unique time-based navigation system. Identify time of problem occurrence, and then navigate down to the nanosecond for quick and accurate root-cause location. GigaStor also offers a big-picture view with a macro timeline graph for proactive management.



Root-Cause Analysis

Analyze up to a petabyte of data and beyond. Find the problem through root-cause analysis, minimizing downtime and user impact. From an enterprise-wide view, you can track numerous operational metrics including bandwidth utilization, network top talkers, application metrics, and even VoIP quality statistics.

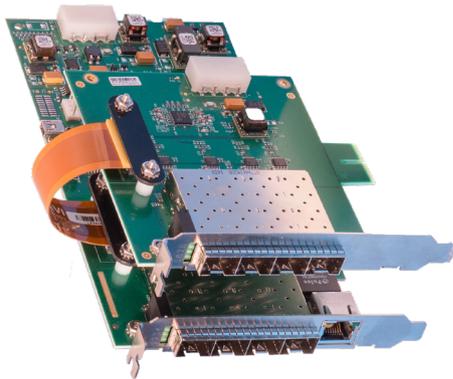
Expert Data	ID	Server	Status	Packets	Bytes	Start Time	End Time	Initial	Dur
TCP Events	Open:1223 (MUC) v1.1.7 - Andy/Y	192.168.1.166	Closed	1848	82598	11h:45m 40.995s	11h:45m 40.711s	00:00:00	01m1
UDP Events	2051020 (Jason Mook) - 2051021 (Brett Messinger)	192.168.1.166	Closed (Timed Out)	11003	22546	14h:07m 20.400s	14h:09m 39.499s	04:21:24	04:28:54
ICMP Events	1000 - 1002	192.168.1.166	Closed	1637	347070	08h:48m 35.948s	08h:48m 55.780s	04:28:54	04:28:54
	16060D6@xaullys - Dev3	207.218.14...	Closed	1244	272684	17h:09m 15.524s	17h:09m 41.503s	00:05:08	00:05:08
	Andy Yee - Russ Shotts	...	Closed	776	64345	13h:42m 57.050s	13h:42m 24.593s	02:00:15	02:00:15

Flexible Deployment Options

GigaStor is available in multiple form factors. Hardware versions include rack-mount and portable models. Gain core GigaStor functionality with the software edition which can be installed nearly anywhere - from a laptop (for anytime, anywhere visibility) to a VM instance for hypervisor east-west traffic visibility.

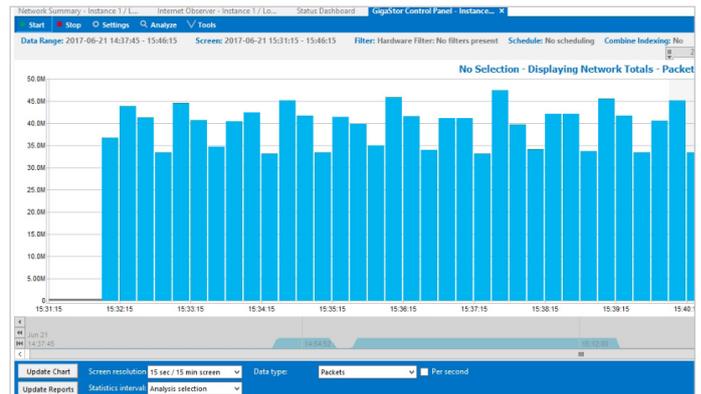
Optimized Packet Capture

Custom Gen3 capture card provides the fastest write-to-storage performance and mining speeds in the industry. Designed to integrate nearly all core packet processing and analytics functionality in hardware, GigaStor keeps up with the world's fastest networks, supporting interface speeds of 1/10 Gb, 40 Gb, and 100 Gb. The advanced analytics and capture engines process, index, and then store each packet providing detailed breakdowns of all network conversations and transactions while also making every packet retrospectively available—if required—for advanced application troubleshooting and security breach remediation. Independent third-party testing has confirmed no packet loss capturing wire-data streams on saturated 40 Gb links.



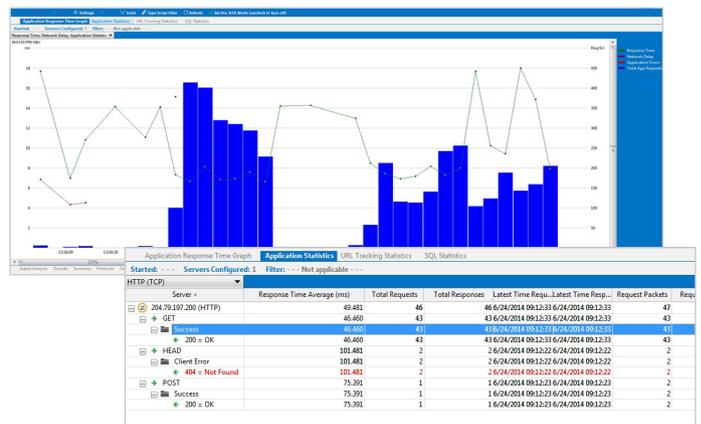
Network Forensics for Security and Compliance

GigaStor serves as a network eyewitness, determining whether a problem relates to the network, security, or application. It passively captures and archives all data traversing the network for later analysis and reporting. Beyond rapid application troubleshooting, GigaStor is ideal for augmenting existing security initiatives and can provide crucial operational information for compliance objectives. With total awareness into all network conversations, it can aid in determining which assets and data were compromised in the event of a security breach, making it ideal for post-event investigation and clean-up.



Application Analysis

GigaStor provides detailed intelligence for more than 30 well-known applications. Beyond basic response time, using expert analytics offers awareness into actual service error, reason, and response codes held within the payload, invaluable when the issue ultimately resides with non-network or operations teams. GigaStor can also display transaction-level details, crucial for understanding the interactions between application tiers. Together these capabilities mean fast problem resolution and improved user experience.



Deep-Dive Transaction Intelligence

GigaStor rack-mounted models are designed with tuned components and enclosures along with the custom Gen3 capture card. The result is the highest, independently validated performance packet capture and analytics solution in the industry. The GigaStor appliance family offers transaction visibility at 1/10, 40 or 100 Gb network interface speeds at 100% duty cycle, 24 hours a day, seven days a week, 365 days over five years of uninterrupted traffic.



Compact Troubleshooting Flexibility

GigaStor Portable is unique in the industry, a compact long-term packet capture, analytics and storage solution that can be moved anywhere the service issue is located. It supports 1/10, 40 Gb, and 100 Gb network interface speeds. Built with high performance SSD drives, GigaStor Portable leverages the same advanced, custom Gen3 capture card and user interface as the rackmount models. Take the power of back-in-time analysis wherever intelligent network troubleshooting is required with GigaStor Portable.



“The Observer Platform Expert Analysis feature lets us quickly isolate and resolve routing and retransmission issues with the e-mail server. Without GigaStor, we could have spent hours trying to replicate the slowdown.”

- Central Du Page Hospital

Observer Platform Overview

The Observer Platform is a comprehensive network performance monitoring and diagnostics (NPMD) solution that offers valuable insight and assistance to network and operations teams. As an integral part of the Observer Platform, GigaStor plays a pivotal role in providing detailed transaction and network level conversations. This data is the basis for performing fast troubleshooting while populating easy-to-use Apex dashboards with deep-packet analysis and long-term reports.

GigaStor and the Observer Platform are also ideally suited for satisfying business goals and overcoming challenges across the entire IT enterprise life cycle whether deploying new technologies, managing current resources, solving service anomalies, or optimizing IT asset usage.

Here are several GigaStor examples:

- Deploy
 - Fine-Tune Deployments – Track critical KPIs that indicate user experience by highlighting the before/after relationship to resource settings goals
- Solve
 - Improve Access and Performance – Detect anomalies using dashboards and workflows so the right team can be deployed
 - Attack Remediation – Forensically reconstruct with packet-level detail to identify who did what, when, and where

Product Options

Choose the right GigaStor for your organization's size and needs. An array of options in an assortment of form factors, network speeds, port counts, and capacities are available.



Deployment	Software Edition (Virtual Machine)	Portable for Remote Troubleshooting	Small Data Center or Network Edge	Medium Data Center
Monitoring Interfaces	—	8 x 1 Gb/10 Gb 2 x 40 Gb 2 x 100 Gb	4 x 1 Gb	4 x 1/10 Gb
Base Storage	256 GB – 64 TB	8 TB	16 TB	32 TB



Deployment	Medium/Large Data Center	Large Data Center	Multiple Large Data Centers
Monitoring Interfaces	8 x 1 Gb/10 Gb	8 x 1 Gb/10 Gb	8 x 1 Gb/10 Gb 2 x 40 Gb 2 x 100 Gb
Base Storage	96 TB	192 TB	288 TB
Storage Capacity Upgrades (Via optional JBODs)	—	384 or 768 TB	576 TB or 1152 TB
Ingress Performance	10 Gbps	20 Gbps	40 Gbps



Contact Us **+1 844 GO VIAMI**
(+1 844 468 4284)

To reach the VIAMI office nearest you,
visit viavisolutions.com/contact.

© 2018 VIAMI Solutions, Inc.
Product specifications and descriptions in this document are subject to change without notice.
gigastor-br-ec-ae
30176194 905 0718