

# Drive Performance Insights with Riverbed & Gigamon Visibility

## The Challenge

The complicated new world of interconnectedness—inclusive of work-from-home and hybrid cloud environments—is challenging IT organizations to ensure performance of critical business applications and services.

## The Solution

The Gigamon Visibility and Analytics™ (VAF) for intelligent traffic filtering and manipulation together with the Riverbed® Unified NPM platform deliver exceptional network performance and visibility that combines infrastructure, application, user experience and network monitoring for a holistic view of performance and security.

## Joint Solution Benefits

When used together, the two solutions can

- Protect user experience and minimize impact of downtime on business
- Improve network and application performance across on-premises, cloud, and hybrid environment from a single solution
- Reduce risks and mitigate exposure to security threats
- Mask sensitive packets according to industry regulations before sending them to SteelCentral
- Aggregate, filter, and slice packets to maximize utilization of SteelCentral processing power
- Decrypt SSL/TLS flows to enable application visibility for SteelCentral

## Introduction

Visibility into network and application performance is more important than ever for enterprise IT. Digital transformation efforts have been turned on their heads and accelerated at breakneck pace to adapt to new work-from-home (WFH) strategies and cloud strategies.

With these types of challenges, it is no surprise that customers are turning to Riverbed SteelCentral and Gigamon to solve their enterprise visibility and security problems.

Riverbed SteelCentral is the only unified NPM solution that delivers unified packet, flow, and device visibility across remote sites, data centers, and hybrid and multi-cloud environments to accelerate network and application troubleshooting. Domain-level data is collated and curated within centralized, dynamic dashboards where cross-domain analytics are used to more easily identify problem areas.

Leveraging the Gigamon VAF's ability to capture and intelligently route high-fidelity streams of network traffic, Riverbed SteelCentral enables a new and proactive approach to network and application performance management and is comprised of:

- SteelCentral AppResponse—Network-based application performance management (APM) with continuous full packet capture with rich analysis modules for network forensics, application analytics, web transactions, unified communications, Citrix, and database analysis.
- SteelCentral AppResponse Cloud—Network-based application monitoring for AWS and Azure.
- SteelCentral NetProfiler— Network flow analysis and reporting for monitoring global network performance and security health.

## The Gigamon and Riverbed Joint Solution

A comprehensive and integrated performance management platform, Riverbed SteelCentral provides centralized visibility and insight for optimal performance of enterprise applications while also maximizing IT efficiency and productivity.

Connected to the Gigamon VAF, it captures and analyzes performance data—deeply and broadly—across networks, infrastructure, applications and end-user experience. Thanks to the platform's modular nature, organizations can begin with any aspect of performance monitoring and grow that into a unified performance view.

The plug-and-play architecture of the integrated solution deploys easily in complex environments, providing performance teams or IT operations teams with the vital insight required to proactively and effectively govern IT infrastructures and ensure continuous network and application availability, reliability and security.

Key Gigamon Visibility and Analytics Fabric features that augment the value of Riverbed technology include:

**Easy access to traffic from physical and virtual networks:** Gigamon manages traffic from across the network and delivers it to Riverbed SteelCentral solutions, efficiently and in the correct format. To monitor east-west data center traffic, Gigamon taps virtual traffic and processes it through the Gigamon VAF for delivery of complete sessions to Riverbed solutions, so that the traffic can be monitored and analyzed together.

**Effective and secure public cloud monitoring:** Delivers intelligent network traffic visibility for workloads running in AWS, Azure, etc. and enables increased security, operational efficiency and scale across Virtual Private Clouds (VPCs).

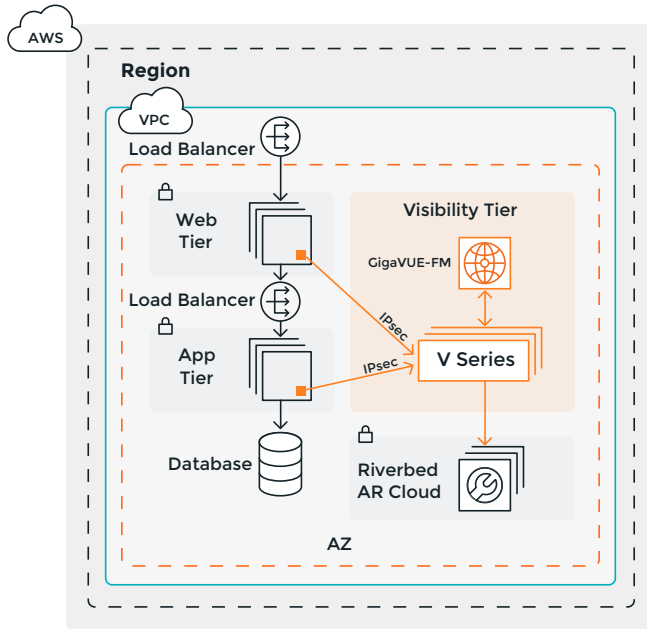


Figure 1: Example of Gigamon VAF delivering intelligent network traffic visibility for workloads running in AWS, enabling increased security, operational efficiency and scale across Virtual Private Clouds (VPCs).

**Aggregation to minimize tool port use:** Where links have low traffic volumes, the VAF can aggregate these together before sending them to Riverbed tools to minimize the number of ports needed. By tagging the traffic, the VAF enables the identification of the traffic sources.

**Header stripping for efficiency:** As needed, the VAF eliminates the need for Riverbed tools to decipher extraneous protocols, thus reducing their processing load and increasing efficiency.

**Masking for compliance:** The VAF selectively masks sensitive data (e.g., credit card numbers in e-commerce and patient identification in healthcare) within packets before sending them to other tools where operators or other unintended recipients may see them.

**De-duplication:** Pervasive visibility requires tapping or copying traffic from multiple points in the network, which, in turn, means tools may see the same packet more than once. To avoid the unnecessary port bandwidth usage and packet processing overhead on Riverbed tools, the VAF has a highly effective de-duplication engine that removes duplicates before they consume resources.

**SSL decryption:** The VAF has an integrated SSL/TLS decryption (including TLS 1.3) function for decrypting in real-time, increasing traffic visibility for Riverbed solutions.

**Load balancing to spread traffic across multiple devices:** When traffic flows are larger than a single tool can handle, the Gigamon VAF can split the flows across multiple tools while also ensuring sessions stay together and tool numbers can be incrementally grown by adding new devices to those already connected.

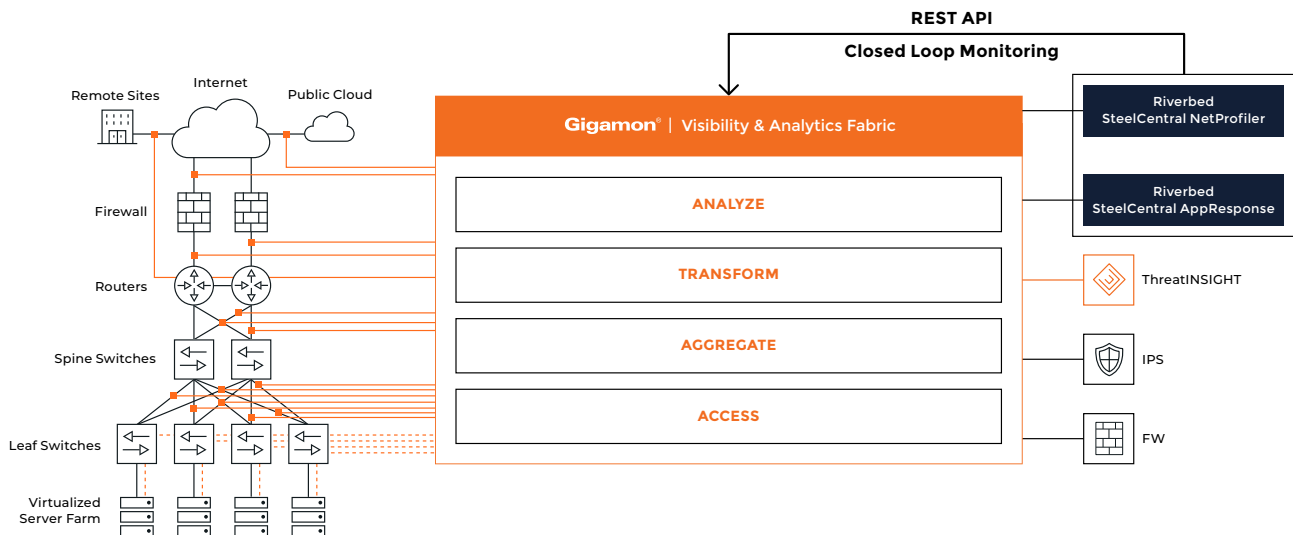


Figure 2: Gigamon manages traffic from across the network and delivers it to Riverbed SteelCentral solutions, efficiently and in the correct form.

## About Gigamon

Gigamon is the first company to deliver complete network visibility and analytics on all information-in-motion, from raw packets to apps, across physical, virtual and cloud infrastructure. We aggregate, transform and analyze network traffic to solve for critical performance and security needs, including rapid threat detection and response, freeing your organization to drive digital innovation. Gigamon has been awarded over 75 technology patents and enjoys industry-leading customer satisfaction with more than 3,000 organizations, including over 80 percent of the Fortune 100. Headquartered in Silicon Valley, Gigamon operates globally. For the full story on how Gigamon can help you to run fast, stay secure and innovate, please visit [www.gigamon.com](http://www.gigamon.com).

## About Riverbed

Riverbed enables organizations to maximize performance and visibility for networks and applications, so they can overcome complexity and fully capitalize on their digital and cloud investments. The Riverbed Network and Application Performance Platform enables organizations to visualize, optimize, remediate and accelerate the performance of any network for any application. The platform addresses performance and visibility holistically with best-in-class WAN optimization, network performance management (NPM), application acceleration (including Office 365, SaaS, client and cloud acceleration), and enterprise-grade SD-WAN. Riverbed's 30,000+ customers include 99% of the Fortune 100. Learn more at [riverbed.com](http://riverbed.com).

For more information on Gigamon and Riverbed, visit: [www.gigamon.com](http://www.gigamon.com) and [www.riverbed.com](http://www.riverbed.com).

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