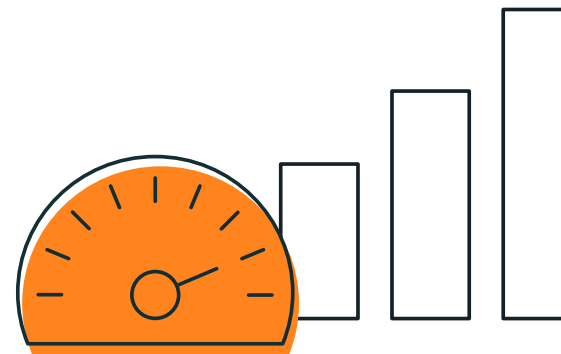


# Drive Performance Insights with Riverbed & Gigamon Visibility



## 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 Deep Observability Pipeline 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

- + 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 Riverbed NPM

## 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 and Gigamon to solve their enterprise visibility and security problems.

Riverbed Network Performance Management (NPM) 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 Deep Observability Pipeline to capture and intelligently route high-fidelity streams of network traffic, Riverbed NPM enables a new and proactive approach to network and application performance management and is comprised of:

- + Riverbed 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.
- + Riverbed AppResponse Cloud—Network-based application monitoring for AWS and Azure.
- + Riverbed NetProfiler— Network flow analysis and reporting for monitoring global network performance and security health.

# The Gigamon + Riverbed Joint Solution

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

Connected to the Gigamon Deep Observability Pipeline, 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 Deep Observability Pipeline 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 NPM solutions, efficiently and in the correct format. To monitor east-west data center traffic, Gigamon taps virtual traffic and processes it through the Gigamon Deep Observability Pipeline 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).

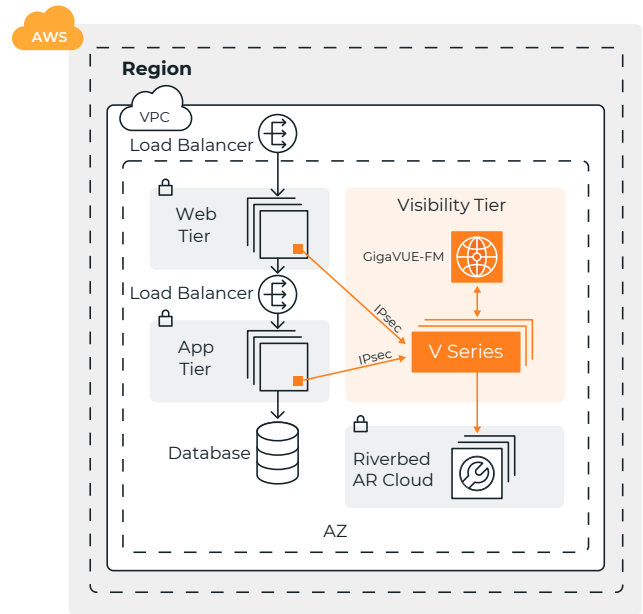


Figure 1: Example of the Gigamon Deep Observability Pipeline delivering intelligent network traffic visibility for workloads running in AWS, enabling increased security, operational efficiency and scale across Virtual Private Clouds (VPCs).

## Load balancing to spread traffic across multiple devices:

When traffic flows are larger than a single tool can handle, the Gigamon Deep Observability Pipeline 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.

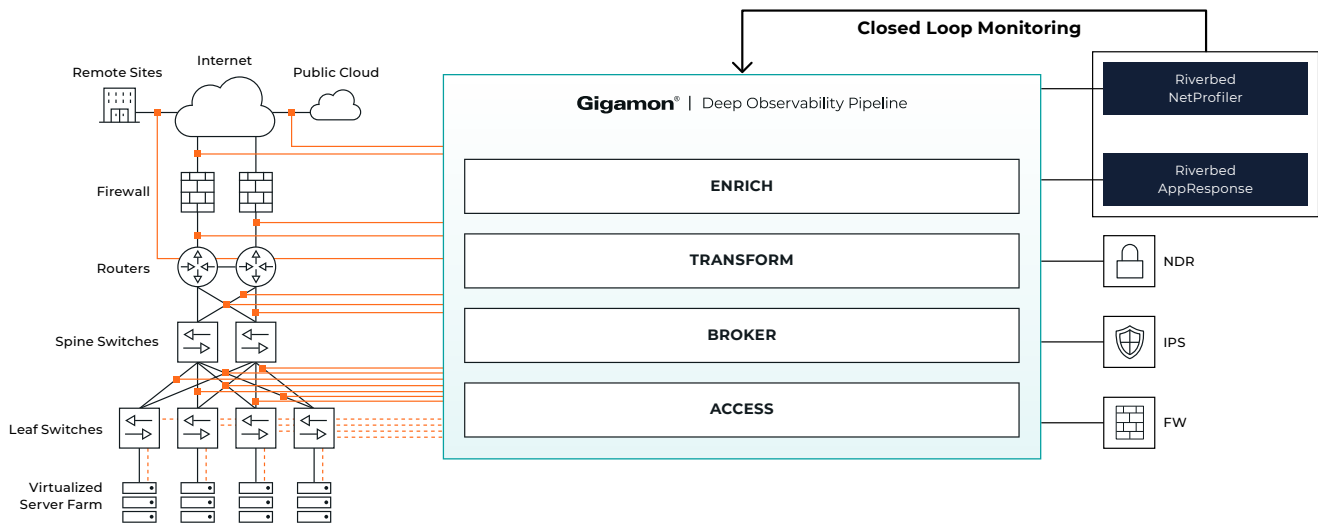


Figure 2: Gigamon manages traffic from across the network and delivers it to Riverbed NPM solutions, efficiently and in the correct form.

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

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

**Masking for compliance:** The Gigamon Deep Observability Pipeline selectively masks sensitive data (for example, 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 Gigamon Deep Observability Pipeline has a highly effective de-duplication engine that removes duplicates before they consume resources.

**SSL decryption:** The Gigamon Deep Observability Pipeline has an integrated SSL/TLS decryption (including TLS 1.3) function for decrypting in realtime, increasing traffic visibility for Riverbed solutions.

## 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](https://riverbed.com).

## About Gigamon

Gigamon offers a deep observability pipeline that harnesses actionable network-level intelligence to amplify the power of observability tools. This powerful combination enables IT organizations to assure security and compliance governance, speed root-cause analysis of performance bottlenecks, and lower operational overhead associated with managing hybrid and multi-cloud IT infrastructures. The result: Modern enterprises realize the full transformational promise of the cloud. Gigamon serves more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, 9 of the 10 largest mobile network providers, and hundreds of governments and educational organizations worldwide. To learn more, please visit [gigamon.com](https://gigamon.com).

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

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