
Enhancing Security while Achieving Unparalleled Application Performance

Riverbed Delivers Peace-of-Mind for IT with Complete Application Visibility, Optimization and Control

Complexity breeds challenges in ensuring security and application performance

Today's organizations are facing a rapidly transforming IT landscape with users going mobile, applications being hosted in a mix of on-premises data centers and the cloud, and increasing reliance on broadband and the internet for business critical applications.

These hybrid environments are essential for businesses to remain agile and competitive in today's fast-paced world, but they also introduce complexity and create challenges for IT in ensuring security while also delivering application performance.

Whether it is the loss of visibility and control associated with adopting cloud or BYOD, the vulnerability of data stored on user devices and branch offices, or the constant barrage of cyber-attacks and threats, IT must be able to protect users, applications and data while delivering peak application performance. Too often security and application performance are viewed as competing goals and compromises are made.

Riverbed, The Application Performance Company™, specializes in providing visibility, optimization, and control solutions that enhance IT security posture while delivering unparalleled application performance.



Visibility

If you can't see it, you can't protect it

While the end goal is always to prevent intrusion, intrusion prevention is only part of the challenge. Despite multiple layers of preventative security such as firewalls, antivirus, and malware detection, security breaches do occur. Lack of visibility into the network and application layers can hamper IT's ability to identify and proactively predict and prevent threats.

Riverbed delivers end-to-end visibility for all applications across an organization's network and insight into metrics and forensic data that matter to security teams—what systems are on the network, who is talking to whom, over what ports or protocols and where the traffic is flowing.

Not only is this kind of visibility into the network beneficial for understanding what needs to be secure, it is also a common requirement across most information security regulations.

Traditional approaches to gather this data try to combine reports generated by vulnerability and patch management systems with data gathered by interviewing applications teams. This approach falls short because asset inventories are almost never complete and, at best, are only as current as the last scan. Riverbed enables you to develop and maintain an ongoing, real-time, accurate view of the network including a complete inventory of network assets, map of network dependencies and actual usage.

With Riverbed products “you can quickly identify unauthorized network traffic patterns” and it’s “a must have for any security-conscious business.”

Doug Tamasanis,
Chief IT Architect/Director of Networks and Security
Kronos

Visibility tools are necessary for developing a baseline—an understanding of what's normal. Riverbed observes system behavior in minutes before and after a breach including traffic, business unit processes, user activity, and administrator activity to generate detailed reports.

Understanding the activity immediately before and after an attack is critical for remediation steps described later. This knowledge will help you determine whether an attack was just a nuisance or a targeted intrusion specifically intended to exfiltrate your intellectual property.

Riverbed solutions provide this exact context, and can easily integrate this data into security information and event management (SIEM) and asset management data bases.

Optimization

Eliminate risks and harden security with data centralization and recovery efficiency

Datacenters are purpose-built to secure systems and data, help insure integrity of intellectual property, ensure business continuity, and provide for recovery after interruptions and disasters. Even in places where it's safe to maintain local copies of data, branches and remote offices generally lack the continuous protection mechanisms typically employed by data centers to safeguard data from risks.

Enabling consolidation and centralization of data, Riverbed solutions eliminate the operational risks and inefficiencies associated with storing data in remote locations. Virtual servers and data can be projected to remote offices over an encrypted session, while continuously backing it up for an almost real-time recovery point objective. Users experience high performance and availability because access is local, while authoritative data sources remain in the data center. If a disaster occurs, it's possible to recover the data to anywhere in the world in minutes.

Enterprises can conduct business across the globe in any location without putting data at risk. Riverbed protects data in flight with industry-standard TLS 1.2 or IPSEC encryption and secures cached in-use data with AES 256-bit encryption, compliant with FIPS 140-2 standards.

Riverbed offers operationally feasible ways to get the data out of the branch. Collapsing all data back to the data center offers an immediate improvement in security posture and enables the focus of limited security resources to fewer locations.

“This is all about risk mitigation. We’re a law firm, and having data protection as we have it protects the client’s interest.”

Searl Tate,
Director of Engineering
Paul Hastings

Control

Drive workflows for standards and consistency

As networks grow, routers, firewalls, proxies, and other devices seem to crop up at an amazing pace. Unfortunately, ensuring that they all function as anticipated can quickly become unmanageable. Riverbed’s solutions allow organizations to wrestle this under control.

Riverbed enables organizations to drive workflows into daily operation that can automatically map their networks; manage change, track compliance to PCI, NIST or other policies; plan for End of Support/Life for infrastructure; conduct robust survivability analysis; and conduct threat modeling for common attacks such as DDoS, DNS Amplification, HTTP amplification, and more. Reports provide management and operators insight into situational awareness across the enterprise.

This robust capability enables collaboration and teamwork for operators and auditors. Documentation for auditing is especially important to companies that require industry or regulatory compliance such as PCI, NIST, FIPS 200, SB-1386, GLBA, and HIPAA.

Security concerns might not matter if the performance is unacceptable

All too often, security or performance is compromised for the sake of the other. Disconnecting a system from all networks and locking it in a vault may be the most secure option, but the resulting user experience will be unacceptable. Leveraging the same instrumentation and data collection methods used for security visibility and triage, Riverbed also delivers industry leading performance management.

Riverbed offers the only performance management suite that combines enterprise-class end-user, application and network performance management in one solution. By combining industry leading¹ performance management with security visibility, IT has the control to enhance performance and provide a host of other functionality, at no additional cost, that can be leveraged by security teams.

“Our design engineers see the same high-level performance as they were getting previously, but their work is now contained within a more resilient and secure environment.”

Marco Malavolta,
Head of IT Infrastructure
Wamgroup

¹Riverbed Performance Management is a leader in the 2015 Gartner magic quadrant for Network Performance Management and Diagnostics.

Summary

Riverbed solutions augment existing security practices by enabling visibility from the user to the data center and the cloud, optimizing the performance of business-critical applications, and providing business intent-based control of network traffic across hybrid networks.

Take an important first step toward achieving security peace of mind. Engage Riverbed Professional Services to assess your current environment and the state of your security controls, identify vulnerabilities, and develop a framework of best practices for improving network security and performance. Send your request for an initial consultation proserve@riverbed.com today.

How Riverbed helps protect your enterprise

Category	Network Planning, Configuration Management and Modeling	Network Monitoring	Application Monitoring	WAN Optimization	Branch-Optimized Infrastructure
Plan for and identify risks	✓	✓			
Protect	✓			✓	✓
Detect		✓			
Respond	✓	✓	✓		✓
Recover				✓	✓

About Riverbed

Riverbed, at more than \$1 billion in annual revenue, is the leader in application performance infrastructure, delivering the most complete platform for the hybrid enterprise to ensure applications perform as expected, data is always available when needed, and performance issues can be proactively detected and resolved before impacting business performance. Riverbed enables hybrid enterprises to transform application performance into a competitive advantage by maximizing employee productivity and leveraging IT to create new forms of operational agility. Riverbed's 26,000+ customers include 97% of the *Fortune* 100 and 98% of the *Forbes* Global 100. Learn more at riverbed.com.

