PRODUCT FAMILY BROCHURE

# riverbed

# **The Riverbed Platform**

## **Unified Observability and Optimization**

## **Complexity Drives Need for AIOps**

In an era where IT complexity is accelerating at an unprecedented pace and user experience expectations have become more demanding, IT leaders have come to recognize they need an innovative approach. The advent of AIOps marks a transformative shift in addressing the complexities and the demands of enterprise IT environments.

When it comes to delivering on the promise of superior digital experiences and application performance, observability, AI, and automation are required across all points of the enterprise computing model. In addition, IT organizations require full-fidelity telemetry to understand, predict, prevent, and resolve issues. Relying on sampled or synthetic data is not optimal for building effective AI. Riverbed has a different and superior vision for an open observability and acceleration platform. Supported by full-fidelity data collection across the enterprise, Riverbed provides the depth and breadth of observability that IT teams – from the CxO to Service Desk to NetOps and SecOps –to monitor and troubleshoot all applications and all users and across edge, data center and cloud environments.

The Riverbed Platform unifies data, generates insights, and automates actions, empowering IT teams to deliver end-to-end performance visibility and seamless digital experiences.



**Figure 1:** The Riverbed Platform consists of observability and acceleration products, enabling technology that supports the platform, and an integration library of automations, remediations, and integrations.

## **Full-fidelity Telemetry**

Riverbed captures full-fidelity data from across the enterprise for total observability of health and performance. The platform marries infrastructure, network, and application observability across edge, cloud and data center locations with digital experience and application acceleration. The Riverbed Platform leverages AI techniques and automation to bring together key metrics and events for centralized analysis and reporting.

Riverbed Unified Agent provides an innovative common agent strategy that streamlines deployment and management of all Riverbed and select third-party

## **AIOps Reduces Noise**

The Riverbed Platform leverages a variety of AI techniques and correlation to improve and speed problem identification. AI identifies unusual patterns or outliers in IT operations data, while correlation organizes indicators into associated groupings to connect related indicators through use of time, location, connection, and relationship maps. This is done to reduce alert noise and identify and prioritize the business-impacting events.

## Automated Diagnosis and Remediation

Automation helps growing businesses scale IT operations by reducing operator drudgery and increasing the speed, quality, and repeatability of analysis. Riverbed automates incident response and remediation of IT problems by executing low-code runbooks in response to a correlated event. IT uses agent-based offerings. Designed to collect full-fidelity network and end user experience data from edge, data center and cloud environments, Unified Agent enables massive scalability and efficiencies.

Unlike other products that sample or use synthetic data to deal with the scale of today's distributed environments, our platform captures every transaction, packet, and flow. It also analyzes both quantitative and qualitative user experience for every type of application, including cloud, SaaS, and mobile.

Key AI techniques that Riverbed uses include:

- Causal AI is used to determine the exact underlying causes and effects of events or behaviors.
- Predictive AI identifies patterns in past events and make predictions about future events
- Generative AI is used to generate new content from existing datasets.
- Explainable AI describes an AI model, its expected impact and potential biases.
- Clustering determines if there are any commonalities or relationships between the detected anomalies.

automated investigative workflows to replicate the troubleshooting practices of both ITOps and Service Desk experts. These iterative processes gather supporting diagnostic evidence, build context, and set priorities so IT teams have the data they need to resolve problems quickly. Riverbed supports four out-of-the-box automation use cases that extract insights from across Riverbed telemetry and third-party tools to enable faster time to resolution:

- **Incident response:** Reduce incident noise by creating fewer, more meaningful alerts and resolve incidents faster and more proactively using runbooks that automate collection of diagnostic data.
- Security forensics: Investigate security threats found by traditional security tools by leveraging security runbooks to gather supporting forensics from Riverbed and third-party solutions.
- **Smart trouble ticketing:** With Riverbed AlOps, complex ticketing workflows become razor sharp, highly automated processes. Streamline ServiceNow ticket creation and escalation with context-driven insights that empower IT teams to proactively resolve issues without escalating.
- Intelligent service desk: Riverbed Aternity leverages automation runbooks to dynamically replicate advanced Service Desk processes by correlating enduser impact and real-time granular performance data to identify incident root cause.

## IT Complexity Drives Need for Acceleration

Many companies are challenged by today's modern hybrid workplace and work styles. Networks are increasingly complex having migrated from onprem, MPLS solutions to supporting mobility and internet-based applications and now leveraging remote, mobile, on-prem and edge capabilities with Cloud/SaaS, Internet, MPLS, and SASE. In addition, employees, partners, and customers expect "always on" 24/7 digital support. They need accessible, secure, encrypted, and high-performing applications. If these challenges are not successfully met, business continuity, customer satisfaction, employee productivity and engagement, and the successful execution of business-critical initiatives are impacted. Ultimately, how well companies support today's network and application performance impacts the bottom line.

## The Riverbed Platform

An open observability suite evolves and extends the benefits of visibility and monitoring by adding intelligence and automation to create actionable insights that help IT make better, faster decisions, prioritize actions, and quickly resolve problems. It leverages full-fidelity telemetry of Riverbed DEM/DEX and NPM solutions (see Figure 2) to provide an enterprise view of digital experience. In short, Observability enables IT to turn monitoring data into actionable insights and automated actions.



Figure 2: Riverbed is helping it organizations build actionable unified observability and optimization strategies with a full-stack telemetry and an AI engine that are simple, smart, and open.

## AlOps

AlOps or Artificial Intelligence for IT Operations leverages Al/ML techniques and automation to get precise root cause, reduce alert fatigue, and enable proactive remediation.

#### **Riverbed IQ Ops**

Riverbed® IQ Ops is a SaaS-based, open, and programmable unified observability service that captures full-fidelity user experience, application, and network performance data on every transaction across the digital enterprise. It applies AI and ML and contextually correlates across disparate data streams to identify issues. This intelligence also powers the low-code investigative runbooks that automated and replicate the troubleshooting investigations of IT experts. It gathers supporting context, filters out noise, and sets priorities—reducing the volume of alerts to the most business impacting. By unifying knowledge across all skill levels, IT teams can accelerate problem-solving, break down silos, and avoid time-consuming war rooms.

"Riverbed IQ Ops is helping my team realize a self-healing network. Using the built-in features of runbooks and AI/ML we can reduce the number of alerts and capitalize on our automation processes to perform corrective actions to the network before users experience impact. Riverbed IQ Ops is a game changer in monitoring and unified observability."



Earl Foster, Manager Network Services, American Airlines

Figure 3: Riverbed IQ Ops low-code runbooks automate the data collection process for guided troubleshooting and faster root cause analysis.

#### **Riverbed IQ Assist**

Riverbed IQ Assist delivers Generative AI functionality, based on a secure, private, observability domain-specific large language model (LLM). Riverbed IQ Assist has also adopted an LLM-agnostic approach that gives customers the power to use an LLM of their choice. Riverbed IQ Assist delivers natural language summaries of observability data and incident analysis from across the landscape of deployed observability tools, making it easy to identify and understand anomalies and root causes. Unlike competitors' GenAI products that require lengthy chatbot interactions, Riverbed IQ Assist provides automated, contextual diagnostic insights upfront. In addition, IT staff can describe issues in natural language to receive prioritized, actionable remediation steps powered by AI. These capabilities simplify diagnostics, empower less experienced staff, and significantly reduce Mean Time to Repair (MTTR) and First Call Resolution (FCR).



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### **Riverbed Portal**

Riverbed® Portal redefines how companies visualize, monitor, report, and troubleshoot enterprise performance metrics by integrating Riverbed user experience, application, and network data into centralized, dynamic dashboards. The holistic views keeping IT resources focused on strategic trouble spots and enable operational teams, executives, and line of business teams to collaborate more effectively on enterprise performance. Ultimately, IT can fast-track troubleshooting across the entire hybrid network.



Figure 4: Riverbed Portal redefines how companies visualize, monitor, report, and troubleshoot performance by combining user experience, application, and network data into centralized, dynamic and customizable dashboards.

## Infrastructure Observability

#### **Riverbed NetIM**

Riverbed® NetIM provides integrated mapping, monitoring, and troubleshooting for your IT infrastructure. With NetIM, you can capture infrastructure topology information, detect, and troubleshoot performance issues, map application network paths, and diagram your network. NetIM provides agentless infrastructure component monitoring (SNMP, WMI, CLI, API, synthetic testing, and streaming telemetry) to deliver a comprehensive picture of how your infrastructure is affecting network and application performance and how that affects user experience. NetIM infrastructure management complements Riverbed's network and application performance visibility.



Figure 5: IT Infrastructure Observability.

## "There's no other product that can find the root cause of issues faster than Riverbed's Network Observability solution."

Mehmet Arpa, IT Manager, Halkbank

## **Network Observability**

Riverbed Network Observability is an integrated, but modular solution— it can be used to provide a holistic network and application visibility while any component can be used independently to solve domain-specific problems. This allows investment protection as the NPM solutions can be extended at any time to provide additional breadth, depth, or capacity.

Riverbed network observability portfolio delivers increased business resilience, accelerating operational transformation and improving business responsiveness as organizations transition from legacy to multi-cloud networks. Our solution helps IT teams adapt to disruptions while maintaining continuous operations and safeguarding people, assets and overall brand equity. Unlike other NPM solutions, Riverbed delivers granular visibility across network domains with full-fidelity data, extracted from packets, flows and device metrics to deliver fast action and insight across hybrid environments. Sustained network innovation expanding visibility across remote, edge, cloud and zero trust environments further solidifies.

#### **Riverbed AppResponse**

Riverbed<sup>®</sup> AppResponse provides powerful, flexible network and application analytics and workflows to speed problem diagnosis and resolution. Functional out of the box with pre-defined insights and a rich variety of performance metrics. AppResponse helps you get answers fast. It combines network forensics, application analytics and end-user experience monitoring in a single solution so you have everything you need at your fingertips to resolve network and application performance issues quickly. AppResponse passively monitors the network and collects packet data for continuous, real-time, and historical application

monitoring. Continuous packet capture means rich troubleshooting details are always available when you need them, saving time and money by minimizing the effect downtime has on business productivity and reducing or avoiding business-stopping slowdowns or outages.

Riverbed AppResponse is tightly integrated with Riverbed Packet Analyzer Plus, which speeds real-time network pack analysis of large trace files using an intuitive graphical user interface and a broad selection of pre-defined analysis views.



Figure 6: Riverbed AppResponse.

#### **Riverbed NetProfiler**

Riverbed® NetProfiler is centralized network flow reporting and analysis that you can use to quickly view hybrid network performance and troubleshoot issues before your end users ever know there is a problem. It can combine network flow data with packet-based performance metrics to provide proactive monitoring, analysis, and reporting. NetProfiler uses automated discovery and dependency mapping to help you understand the application services in your environment and automated behavior analytics to baseline normal performance and alert on abnormal changes as soon as they occur—typically before users are even aware that performance is degrading. NetProfiler leverages Riverbed Flow Gateway for flow collection, aggregation, and de-duplication.



Figure 7: Enterprise Flow Monitoring.

## **Cloud Observability**

#### **Riverbed NPM+**

Riverbed® NPM+ is a SaaS-delivered service that uses Riverbed Unified Agent to collect packet and unified communications data before it's encrypted at every user and server endpoint. It fills visibility gaps caused by encrypted tunnels in Zero Trust, remote work, and cloud-native environments. Taking an agent-based deployment approach ensures flexibility, simplicity, and scalability. With this Cloud Observability service, Riverbed takes a revolutionary step towards faster issue detection and higher service availability.



Figure 8: Analyze TCP Performance RTCC.

## **Digital Experience**

Riverbed® Aternity full-spectrum Digital Experience provides insight into the business impact of both the customer and employee digital experience by capturing and storing technical telemetry at scale, capturing data across employee devices, every type of business application, cloud-native application services, and end-user sentiment. It unifies the digital experience for customers interacting with the digital services on your website and for employees servicing customers in the contact center, retail branch, or back office.

With the aggregation of insights across application and device performance along with human reactions, Aternity ultimately provides organizations with total experience for both employees and their customers.

#### **Riverbed Aternity Employee Experience**

Deployed as an agent on end-user devices, Riverbed<sup>®</sup> Aternity measures what users actually see for every transaction and every application running on any device. It automatically discovers EVERY app in your enterprise, tracks actual usage, and provides a score for app performance and health, based on crashes, hangs, errors, page load time and wait time. Isolate the causes of delay to the network, device, or application backend to quickly diagnose and resolve user-impacting issues. Leverage the Riverbed Aternity library of remediation scripts to automatically resolve the most common device or user issues. With Riverbed Aternity, you'll boost customer satisfaction and optimize the productivity of your tech-dependent workforce.

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Figure 9: Riverbed Aternity shows you the end-user experience on any application or device. Isolate the cause of delays to the network, device, or app backend to quickly diagnose and resolve user-impacting issues.

### **Riverbed Aternity Mobile**

Aternity Mobile, a SaaS solution, empowers IT teams to proactively detect digital experience issues on Android and iOS mobile apps and devices. By implementing prescriptive, targeted actions, it boosts employee productivity, enhances customer services, and improves overall business outcomes. Deployed as a mobile app on company-owned Android and iOS devices, Aternity Mobile represents the next frontier for front-line employee experience, allowing IT to swiftly identify and resolve experience issues for both employees and customers. Additionally, Aternity Mobile provides features such as identifying alerts and fleet inventory, tracking trends to address chronic issues, troubleshooting individual device problems, and monitoring mobile app usage and performance.



Figure 10: Riverbed Aternity Mobile Dashboard.

## **Riverbed Aternity Customer Experience**

Aternity Customer Experience monitor users' digital experience along their journey across your web sites and associate performance to business metrics like revenue, conversion rate, and abandonment rate. It helps increase engagement by optimizing the performance of high converting journeys and cost-justifies improvements where poor customer experience results in drop-offs. Aternity helps prioritize optimizations by web page, device, browser, geography, user persona, traffic source and medium, etc. It automatically locates broken links or out of stock inventory and prioritizes the business impact of repairing those links to improve business metrics and the digital customer experience.



**Figure 11:** Riverbed Aternity enables IT to measure the digital experience of ALL applications involved in the customer journey – from unique paths across digital services on the website to the business-critical applications used by employees.

### Digital Experience Index (DXI)

Riverbed Aternity Digital Experience Index automatically identifies digital experience hot spots impacting employees and customers across your enterprise, then sets you on a path to action and improvement. It enables you to tailor your digital experience goals based on industry benchmarks or to your own historical baselines. DXI automatically shows the business impact of potential improvements on employee productivity by trending performance, associating gaps to lost productivity or revenue, and enabling quick root cause analysis and rapid remediation of the worst performing areas.

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Figure 12: Riverbed Aternity DXI automatically identifies digital experience hot spots, then sets you on a path to improvement.

#### **Riverbed Employee Sentiment**

Aternity Sentiment, built into the Aternity Digital Experience (DEX) solution, enables IT teams to identify user experience issues and take prescriptive, targeted actions, to increase employee productivity, satisfaction, service quality and business performance. With Sentiment, Aternity provides the most complete view of total digital employee experience by tightly correlating quantitative and qualitative measures. Aternity already offers the deepest quantitative insights into employee and customer experience and the ability to benchmark digital experience against industry peers. With Sentiment, Aternity correlates aggregated insights on application and device performance data to human reactions, providing total experience management for employees and customers.



**Figure 13:** To truly understand the complete digital experience, Aternity Sentiment lets you correlate qualitative employee feedback with full-fidelity quantitative performance metrics.

We've completely transformed the way we manage issues, moving from being reactive to proactive and now we can actually foresee and manage issues before they arise. Riverbed Aternity has transformed the way we work and how IT is perceived as a department throughout the business."

Donna Lloyd, Senior Enterprise Product Manager, Platforms & Enablement, Enterprise IT, EDF

## **Application Observability**

#### **Riverbed APM**

Riverbed APM (Application Performance Monitoring) delivers comprehensive and observability for transactions running on modern cloud and application infrastructures, including Docker, Kubernetes, Red Hat OpenShift, OpenStack, Amazon Web Services, Google Cloud Platform, and Azure. It captures, stores, and indexes across billions of transactions a day without sacrificing data completeness, granularity, or depth, letting you reconstruct incidents in detail with the most complete distributed tracing in the industry. Designed for simplicity, agility, and collaboration in alignment with modern DevOps requirements, Riverbed Aternity uses lightweight, non-intrusive instrumentation to automatically discover new code components and container instances. Its alerts, metrics, and diagnostics can be consumed across the enterprise IT ecosystem for immediate insight into even infrequent or intermittent issues.



**Figure 14:** Riverbed APM is fully adapted to the cloud-native ecosystem, delivering comprehensive observability for transactions running on modern cloud and app infrastructure.

## Optimization

#### **Riverbed Acceleration**

Riverbed Acceleration solutions provide fast, agile, secure acceleration of any app over any network to users, whether mobile, remote, or in the office. Built on Riverbed's decades of WAN optimization leadership and innovation, our industry-leading Acceleration solutions powers cloud, SaaS, and client applications at peak speeds, overcoming network speed bumps such as latency, congestion, and suboptimal last-mile conditions to empower the hybrid workforce.

• "We wanted a solution that could compress data before sending it between sites. We could see immediately how Riverbed's technology could address latency."

Medhat ElAraby, Vice President, Elaraby Group

#### **Riverbed SteelHead WAN Optimization**

The performance of networks and applications directly impacts business productivity. Riverbed draws from over two decades of experience in driving network and application performance over Wide Area Networks with its flagship offering, SteelHead. SteelHead delivers the underlying technology that helps enterprises of all sizes maximize the efficiency and performance of the networks and applications used to run modern business. The SteelHead network optimization and application performance solution is chosen by organizations worldwide to help achieve up to 33X faster application performance and up to 99% data reduction.

"Riverbed's acceleration solution, SteelHead, has improved our network performance by 25%. It enables true caching and is extremely effective in reducing the time we spend on transferring files from one office to another."

Ray Schumacher, Network Architect, Keysight Technologies

#### **Riverbed Cloud Accelerator**

Riverbed Cloud Accelerator is an Infrastructure-as-a-Service (IaaS) environment that accelerates migration and enhances access and reliability for any workload. Cloud Accelerator runs on leading IaaS platforms such as Microsoft Azure and AWS to accelerate migration and access to workloads through proven data, transport and application streamlining, ultimately increasing time to market, enhancing employee productivity, and delivering maximum cloud value to the business. Cloud Acceleration enables fast, agile, secure delivery of any cloud workload to anyone, anywhere with up to 50x faster migrations & 99% data reduction. • "Delivering business-critical apps over the Internet saves us millions without sacrificing performance."

Edward Wagoner, JLL's Chief Information Officer, Americas, JLL

#### **Riverbed Client Accelerator**

Client Accelerator extends best-in-class WAN optimization and app acceleration technology to remote users working from anywhere, providing fast and secure access to on-prem, IaaS, and SaaS-based apps across any network. The solution also interacts directly with any SteelHead, Cloud Accelerator, or SaaS Accelerator solution to optimize and accelerate on-premises or SaaS applications. The solution offers a flexible, scalable management tool that streamlines provisioning of large-scale mobile deployments. The Client Accelerator Controller helps IT teams manage client licenses and controls the deployment, management, and reporting of software clients. Client Accelerator enables fast, secure apps and data for today's hybrid workforce with up to 10x faster delivery to desktops and 99% data reduction.

"What Riverbed allows us to do, no matter what application we roll out, is to almost guarantee that document transfer will be more efficient with the Acceleration solutions in place."

James Oryszczyn, Director of Security and Network Services, Quarles

#### **Riverbed SaaS Accelerator**

Riverbed delivers the only cloud-based Softwareas-a-Service (SaaS) acceleration service, purposebuilt for today's dynamic workforce to ensure consistent performance of leading SaaS applications (Microsoft 365, Salesforce, ServiceNow, and more) for anyone, anywhere, regardless of distance. The solution accelerates SaaS application performance by overcoming network inhibitors such as latency, congestion, and unpredictable user-experiences. SaaS Accelerator supports fast, agile, secure delivery of mission-critical SaaS applications with up to 10x faster SaaS apps and 99% data reduction.

• "Riverbed optimizes and compresses the SaaS data perfectly. We see it accelerating the data between Microsoft 365 and the end-user."

Medhat ElAraby, Vice President, Elaraby Group

## **Enabling Technologies**

Enabling technology are important building blocks of the Riverbed Platform. These tools form the basis of our AIOps platform.

**Telemetry:** Collection of high-quality data across all elements of enterprise IT landscape to enable more precise AI outcomes.

**Edge Collector:** Used by the Data Store for secure access between Riverbed IQ Ops and Riverbed's on-premises NPM products.

**Unified Agent:** Single agent platform addresses agent fatigue and used to deploy and manage certified modules.

**Topology Viewer:** Real-time mapping of Cloud, Hybrid, and on-premises infrastructure for AI correlation.

**Data Store:** An essential element of the Riverbed Platform, and uniquely designed to gather vast amounts of observability data for AI/ML use, without needing to transfer these large volumes of data across the network.

**Analytics Engine:** Uses AI/ML across data sources to perform anomaly baselining, anomaly detection, correlation, and incident investigation and prioritization for automated remediation.

Automation Tools: Workflows to efficiently manage complex tasks such as root cause analysis, incident investigations, remediations, and for 3rd party integrations.

**Smart OTel:** Open Telemetry compliant export of data and insights from Riverbed or 3rd party products to any OTel receiver.

**Adaptive AI:** Riverbed's AI/ML updates anomaly baselines and detections continuously based on real-time observability data. Combines Causal AI, Predictive AI, Generative AI, and Agentic AI as needed for proactive troubleshooting, forecasting, and resolution.

**Visualization Tools:** Real-time dashboarding and troubleshooting canvas for customizable insights and analytics.



Figure 15: Riverbed Enabling Technologies.

## **Integrations Library**

We know that IT organizations have a diverse set of products from multiple vendors. We believe a platform needs to be open, It should embrace your current investments and doesn't force you to change the way you want to work. Riverbed's integration library offers a collection of ready-made, no/low code remediations, automations, and application integrations to popular third-party products. This means you can leverage your existing investments and reduce management complexity.

Use our pre-built integrations or use our tools to make your own, the choice is yours.



Figure 16: Open support of 3rd party applications.

### Learn More

For more information about the Riverbed Platform, visit riverbed.com/platform/.

## riverbed

#### **About Riverbed**

Riverbed, the leader in AIOps for observability, helps organizations optimize their user's experiences by leveraging AI automation for the prevention, identification, and resolution of IT issues. With over 20 years of experience in data collection and AI and machine learning, Riverbed's open and AI-powered observability platform and solutions optimize digital experiences and greatly improves IT efficiency. Riverbed also offers industry-leading Acceleration solutions that provide fast, agile, secure acceleration of any app, over any network, to users anywhere. Together with our thousands of market-leading customers globally – including 95% of the FORTUNE 100 – we are empowering next-generation digital experiences. Learn more at riverbed.com.

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