

# See the Spike. Solve the Problem.

## High Frequency Analytics for Faster Root Cause Analysis



### Why Seconds Decide Experience

Some employee experience issues occur in seconds, not minutes. In these cases, multi-minute data rollups can hide short-lived spikes that disrupt employees and slow troubleshooting.

High Frequency Analytics (HFA) brings proven Riverbed analytics depth to the endpoint, delivering true one-second performance visibility on demand. By capturing high-resolution endpoint telemetry during active investigations and surfacing it directly within Riverbed Workspaces, HFA enables IT teams to pinpoint root cause with precision, resolve incidents faster, and collaborate more effectively, without the cost or complexity of always-on high-frequency monitoring.

### Why Short Spikes Slip Through Traditional Monitoring

IT teams face increasing pressure to resolve user-impacting issues quickly, yet for a subset of intermittent or short-lived issues, IT teams are constrained by:

- **Blind spots caused by data aggregation:** 2–5-minute rollups mask short-lived CPU, memory, disk, thermal, and network spikes.

- **Delayed or inconclusive troubleshooting:** Teams are forced to reconstruct incidents after the fact, often relying on guesswork.
- **Operational overhead of high-frequency tools:** Always-on collectors increase cost, noise, and system impact.
- **Fragmented troubleshooting workflows:** Endpoint, application, and network data live in separate tools, slowing collaboration and resolution.

### High-Frequency Insight – Activated When It Matters

High Frequency Analytics captures one-second endpoint performance data exactly when it matters, during live investigations, so IT teams can perform advanced troubleshooting and root cause analysis with confidence.

HFA is delivered through Riverbed’s Unified Agent. When an incident occurs, teams activate HFA on specific devices for a defined window, collecting ultra-granular telemetry without permanent overhead. This data is seamlessly integrated into existing Riverbed Workspaces, enabling rapid, end-to-end root cause analysis across endpoints, applications, and network domains.

## Core Capabilities



### One-Second Endpoint Data Capture

Captures memory, disk I/O, temperature, and network traffic at true one-second granularity during active troubleshooting windows.

### Customer Value

Exposes transient spikes hidden by traditional rollups, enabling accurate root cause identification instead of assumptions.



### On-Demand Activation via Unified Agent

HFA is delivered through the Unified Agent and enabled per device only when needed for investigation.

### Customer Value

Access high-fidelity insights without the cost, noise, or performance impact of always-on high-frequency monitoring.



### Endpoint-First Observability

Purpose-built for endpoint troubleshooting rather than server-only or OS-limited metrics.

### Customer Value

Delivers deeper insight into user-impacting device behavior where experience actually breaks down.



### Automated Spike Visibility

Surfaces short duration anomalies and performance spikes during active investigations.

### Customer Value

Reduces analysis time and speeds insight during high-severity incidents.

## Business Impact

- **Faster root cause analysis:** One-second endpoint telemetry aligns precisely to real events, eliminating guesswork and post-incident reconstruction.
- **Reduced MTTR without added overhead:** On-demand activation delivers deep visibility only when needed, minimizing noise while accelerating resolution.
- **Superior endpoint troubleshooting:** Endpoint-first insight surfaces experience-impacting issues beyond OS-level or backend-only tools.
- **Improved cross-team collaboration:** Shared, time-aligned evidence across endpoint, application, and network teams reduces finger-pointing and speeds resolution.

## Why Aternity High Frequency Analytics

Only Riverbed Aternity brings on-demand, one-second endpoint analytics into a unified DEX experience spanning endpoint, application, and network domains. HFA combines APM-grade analytics depth with endpoint-first design—giving IT teams the evidence they need to resolve issues faster, without burdening their environment.

Customers have activated HFA during real incidents where standard telemetry showed no clear issues. By capturing one-second endpoint data, teams identified hidden spikes and resolved problems faster and with greater confidence.

## See What Traditional Monitoring Misses

Activate High Frequency Analytics to uncover hidden endpoint performance spikes and resolve issues with precision when it matters most. Schedule a [demo](#) to learn more or visit us at [riverbed.com](https://riverbed.com).