
Cloud Accelerator

Cloud workload acceleration for users and developers anywhere

The Business Challenge

Today's digital enterprise with multiple datacenters, remote branch offices, and work-from-anywhere users over public and private environments face performance limitations inherent in networks and applications—bandwidth constraints, latency, and contention among applications. Cloud workloads, in particular, frequently experience slow performance and deliver a less-than-optimal user experience due to the distance and unreliability from the cloud to the user consuming the application.

As organizations migrate their initial data and later broaden their application footprint into the cloud, ensuring that applications perform as expected becomes critical. For cloud applications, reduced application visibility, loss of control, unpredictable performance, as well as complex migrations will prove challenging to IT departments.

The Riverbed Solution

Riverbed's Cloud Accelerator solution extends subscription-based network optimization and application acceleration to IaaS clouds. With support for Microsoft Azure, AWS and OCI, the solution is particularly well suited for cloud migrations

by eliminating network inhibitors inherent with today's data-rich and distributed collaboration environments, and drastically enhancing access and reliability for any workload from any location, including:

- **Internal Apps:** Data Center/proprietary apps, Collaborative, Email, SharePoint
- **Line-of-Business Mission-critical Apps:** Cross-Site Replication, Disaster Recovery
- **Media:** Video Streaming
- **Tiered Storage:** Hot data on premise, Cold data move to public cloud, Web Applications E-Business, Internet-facing web

"Not only have we been able to maintain the same performance, but we have lowered our operational costs...we're sitting at 58% of traffic compared to what it would have been without SteelHead."

Sam Mannix
Business Engagement and Architecture Manager, RSM

Key Use Cases

Application Acceleration

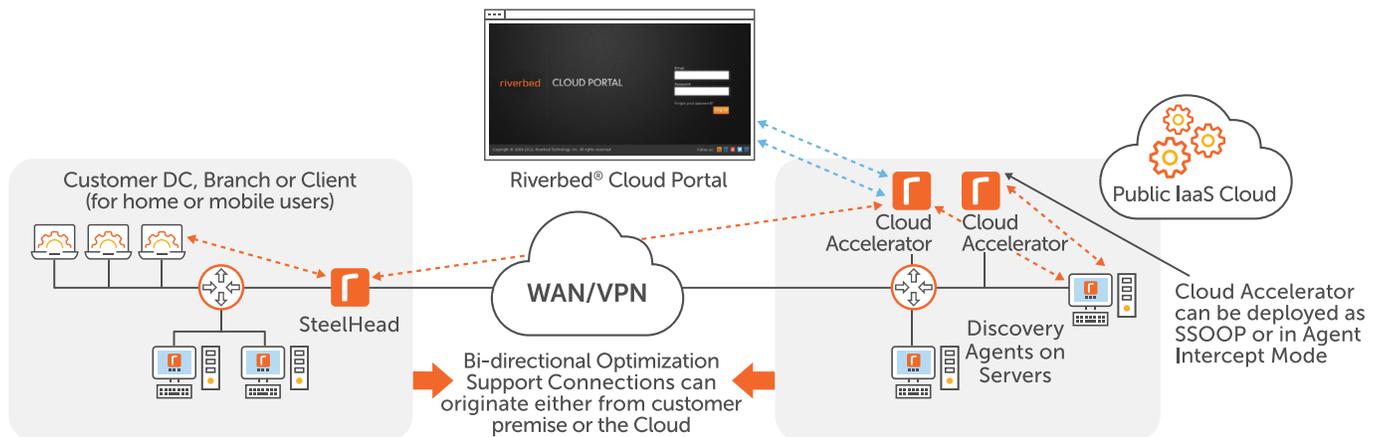
- Increase application and data transfer performance up to 33x
- Reduce bandwidth utilization by up to 95%, thus deferring costly network bandwidth upgrades
- Allow distributed workforce optimized access to their files and applications anytime, anywhere

Cloud Migration

- Enable shift from high capital expenditures to lower overall operational cost model
- Compatible with a wide variety of cloud services including Microsoft Azure, AWS, and Oracle OCI for the freedom to move between providers with ease
- Seamless integration with the Riverbed's WAN Optimization solutions
- Elastic sizing and easy cloning for a scale-as-you-go infrastructure for cloud

Streamline Disaster Recovery and Business Continuity

- Control and optimize large data set transfers to and from the public cloud
- Accelerate cloud to data center replication flows by up to 50x or more
- Certified compatibility with enterprise-class storage vendors to ease transition to cloud-based data protection strategy



Key Features

Transport Streamlining

- Reduces the number of TCP packets required to transfer data by 65-98%
- Acceleration of SSL-encrypted traffic to eliminate the security versus performance trade-offs
- Improved end user experience and reduced traffic over direct Internet connections with a fully embedded, transparent HTTP(S) proxy
- Enhanced satellite optimization for TCP links (based on SCPS extensions) over satellite connections that tend to be high latency, dynamic bandwidth, or lossy due to signal-to-noise ratio

Application Streamlining

- Broadest support for application-specific modules to provide performance improvements on top of the data and transport streamlining optimization performed on all TCP traffic
- Reduced application protocol chattiness up to 98%
- Minimized application overhead to provide massive throughput increases to applications such as file sharing (SMB2/3, and NFS), collaboration software (SharePoint), email (Exchange and IBM Lotus Notes), cloud-based SaaS offerings (Office 365 and Salesforce), Web applications (HTTP and HTTPS), database (Oracle), and storage and disaster recovery (NetApp SnapMirror and EMC SRDF/A)

Manageability

- Web-based portal hosted and maintained by Riverbed
- The Riverbed® Cloud Portal allows organizations to connect to their cloud provider and deploy a Riverbed® SteelHead™ CX cloud instance in just a few clicks
- Simplified deployment, management, licensing, and allows for instant upgrades

Cloud Accelerator Tech Specs

Riverbed SteelHead-C Model	Optimized WAN Capacity	Maximum Number of Connections (All IaaS Vendors)
CCX-SUB-PERF-TIER1	10 Mbps	1,250
CCX-SUB-PERF-TIER2	50 Mbps	4,500
CCX-SUB-PERF-TIER3	200 Mbps	9,000
CCX-SUB-PERF-TIER4	500 Mbps	1,000
CCX-SUB-PERF-TIER4-H	500 Mbps	30,000
CCX-SUB-PERF-TIER5	1 Gbps	1,000
CCX-SUB-PERF-TIER5-H	1 Gbps	50,000

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.

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