

## Optimize Replication for EMC RecoverPoint

### EMC RecoverPoint and Riverbed Steelhead Appliances

EMC® RecoverPoint enables enterprises to centralize and simplify their data protection management, providing both local continuous data protection and remote replication. Riverbed® Steelhead® wide area network (WAN) optimization solutions allow enterprises to improve their recovery point objectives and recovery time objectives (RPO/RTO) and minimize network costs by overcoming the performance constraints of the WAN, including limited bandwidth, high latency, congestion, and packet loss.

The WAN infrastructure is a critical element of any replication solution, and Riverbed solutions are optimized for EMC RecoverPoint. They deliver deterministic network quality to ensure the highest application performance levels and security for EMC disaster recovery (DR) solutions. In addition to accelerating DR operations, Riverbed WAN optimization solutions enable EMC customers of all sizes to overcome a wide range of IT infrastructure performance limitations, including:

- Incomplete data protection coverage
- Limited bandwidth for DR traffic
- RPOs not met
- RTO too long to recovery after a loss
- The bandwidth costs of the current approach are too expensive
- Shared WAN connections need prioritization

### Addressing Common Challenges in Meeting DR Objectives

Riverbed works closely with EMC to accelerate backup and data replication performance over the WAN by overcoming bandwidth and geographical limitations to achieve higher levels of data protection. By deploying Steelhead appliances with EMC RecoverPoint, the enterprise can:

- Protect enterprise data while enabling high-performance and scalability over the WAN
- Reduce bandwidth requirements up to 95% for DR operations via network de-duplication and compression
- Increase end-to-end throughput between DR sites by overcoming the effects of latency, congestion, and packet loss
- Recover faster across the WAN or failover to a DR site without negatively impacting business operations
- Postpone or avoid WAN upgrades by optimizing the use of WAN bandwidth for DR and other traffic

Riverbed Steelhead appliances have received EMC E-Lab™ qualification for EMC RecoverPoint, the leading solution for intelligent network-based data protection and DR. Riverbed WAN optimization solutions complement RecoverPoint's native compression capabilities and enable organizations of all sizes to address poor replication performance and insufficient WAN bandwidth between sites.

A Joint Solution by Riverbed and

**EMC<sup>2</sup>**  
where information lives®

### BENEFITS

Riverbed and EMC work closely together to help enterprise customers:

- Accelerate RecoverPoint replication performance
- Optimize network reliability and prioritize DR traffic
- Leverage the industry-leading WAN optimization solution that is proven in deployments worldwide
- Meet and/or exceed RTO and RPO targets
- Reduce bandwidth costs by removing huge amounts of repetitive data from the WAN



EMC RecoverPoint brings continuous data protection and continuous remote replication for on-demand protection and recovery to any point in time. With RecoverPoint, organizations can implement a single, unified solution to protect and replicate data across heterogeneous storage. The enterprise can simplify management and reduce costs, recover data at a local or remote site to any point in time, and ensure continuous replication to a remote site without impacting performance.

Riverbed's WAN optimization technology enables EMC customers to protect more data more frequently across larger distances. With Riverbed solutions, RPO/RTO targets can be met and/or exceeded while organizations minimize the monthly cost of their WAN infrastructure. Riverbed has built a repeatable, referencable WAN optimization solution that combines the Steelhead appliance with EMC replication and storage solutions. The Riverbed solution dramatically accelerates DR operations and reduces bandwidth costs by removing huge amounts of repetitive data from the WAN.

## An Established Business Partnership

Riverbed has built a WAN optimization solution that combines the Steelhead appliance with EMC storage platforms. EMC is a member of the Riverbed Technology Alliance Program, and Riverbed is a member of the EMC Select Program, which enables EMC and its channel to resell Steelhead appliances.

The Steelhead appliances perform a number of optimizations for the data transfers, including Data Streamlining (removing redundant bytes over the WAN), TCP protocol optimization (addressing chattiness and overcoming latency), and a variety of adaptively tuneable options for compression and data reduction.

In addition to reducing WAN utilization, Steelhead appliances include extensive Hierarchical Quality of Service (QoS) capabilities to ensure that EMC traffic receives the appropriate guaranteed level of WAN bandwidth and latency. This provides the traffic with priority access to the network infrastructure required to ensure consistent performance and maintain RPO/RTO targets.

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*"The Riverbed Steelhead appliances combined with EMC RecoverPoint enables us to simplify our IT infrastructure and reduce our bandwidth costs associated with replicating over our WAN, ensuring that data is protected and business is never interrupted. This affords us the ability to improve DR performance while still accelerating file sharing and email to our distributed design teams without purchasing additional bandwidth."*

*--George Tilmon, Supervisor IT Operations, G&T Conveyor Company, Inc.*

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## About EMC

EMC Corporation (NYSE: EMC) is the world's leading developer and provider of information infrastructure technology and solutions that enable organizations of all sizes to transform the way they compete and create value from their information. Information about EMC's products and services can be found at [www.EMC.com](http://www.EMC.com).

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## About Riverbed

Riverbed is the IT performance company. WAN optimization solutions from Riverbed liberate businesses from common IT constraints by increasing application performance, enabling consolidation, and providing enterprise-wide network and application visibility – all while eliminating the need to increase bandwidth, storage or servers. Thousands of companies trust Riverbed to deliver greater productivity and cost savings by making their IT infrastructure faster, less expensive and more responsive. Riverbed solutions are also available as managed services through select providers. Additional information about Riverbed (NASDAQ: RVBD) is available at [www.riverbed.com](http://www.riverbed.com).



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