

SOLUTION BRIEF

Accelerate Server Backup over the WAN with Riverbed and Double-Take

A Joint Solution by Riverbed and



One of the greatest challenges in IT is effectively backing up and protecting the vast and growing amounts of data stored throughout the distributed enterprise infrastructure.

Riverbed Steelhead appliances and Double-Take Software can enable and accelerate network-based backup approaches that can fulfill the most difficult RPO and RTO objectives in data protection.

This joint solution addresses the key limitations that make network-based backup windows too long and unreliable, as well require too much bandwidth.

Organizations are aggressively moving to WAN-based backup approaches in order to protect data located on servers and databases in remote offices. By combining Riverbed Steelhead® appliances with Double-Take®, enterprises can significantly improve backup and recovery windows over a WAN.

Double-Take software is the ideal tool for providing flexible, effective control of your backup and replication processes, ensuring compliance with strict RPO and RTO goals. Double-Take is the only host-based replication solution that provides multi-

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level intelligent compression and scheduled bandwidth throttling. Double-Take provides four options for compressing data to allow custom configuration to suit your specific requirements. Scheduled bandwidth throttling allows you to manage replication traffic based on configurable policies.

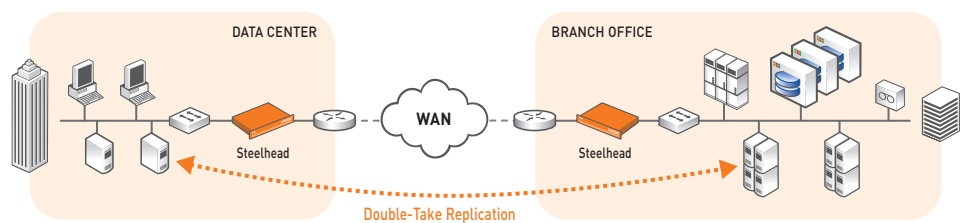
Riverbed Steelhead appliances are designed to accelerate and optimize all applications over the WAN, by 5 to 50 times, and sometimes as much as 100 times. Steelhead appliances intercept and optimize all traffic, regardless of the application that generated it. Riverbed's Data Streamlining algorithms remove redundancy from traffic to reduce bandwidth utilization typically by 60 to 95%. Steelhead appliances also typically eliminate 65 to 98% of application-level and TCP-level packet roundtrips, dramatically accelerating applications by as much as 100x.

By combining these two products, organizations can get the best possible system for simultaneously providing intelligent control of the backup process as well as accelerated performance of the backup itself. With Riverbed and Double-Take, backup and recovery windows are shortened and the strain on network and application resources are reduced. This provides enterprises with the ability to do more frequent, more reliable backups across the WAN from any branch office or any data center.

“With Double-Take and Riverbed, we have enabled tapeless backup of our remote offices over the WAN, and cut our backup windows from four hours to just five minutes.”

– Chris France, CIO, LITTLE Architecture

Typical Riverbed / Double-Take Deployment Architecture



■ Riverbed Steelhead appliances and Double-Take software interoperate in order to optimize both remote office backup and data center replication across the WAN. Double-Take software simplifies and automates data protection for continuous and near-continuous data protection, but can be hampered by latency and bandwidth limitations of the WAN – challenges which Riverbed overcomes.

ACCELERATE SERVER BACKUP OVER THE WAN WITH RIVERBED AND DOUBLE-TAKE



Centralized Backup and Recovery

Today's enterprises must support employees and computer resources that are distributed throughout the world to meet demands of the global marketplace. When critical data is no longer hosted at just one physical location, the challenge of backing up and securing data is magnified. Traditional approaches involve deploying tape backup equipment and processes to each location hosting data, and hiring or contracting local resources to manage these resources. This can be a tenuous – or even unrealistic proposition.

Network-based backup becomes feasible with Riverbed and Double-Take, in many cases through use of existing WAN links without any bandwidth upgrades. Network-based backup into the datacenter can be effectively managed by Double-Take software, enabling scheduling, bandwidth control, and flexible management policies that let you customize the software to your own environment. Backup data is then more secure, and easily accessible in the event of a restoration event. Riverbed optimizes the regular transfer of backup data over the WAN, accelerating backup across the WAN by 5 to 50 times, and up to 100 times faster. Riverbed's Data Streamlining approach eliminates data redundancy across applications or servers – typically by 60 to 95%, going well beyond other data reduction mechanisms found in other storage replication products. Riverbed's Transport Streamlining and Application Streamlining mechanisms also reduce the chatty protocols associated with long backup windows.

The Riverbed and Double-Take Joint Solution

Riverbed and Double-Take simplify and optimize the transfer of data over the WAN for backup and data migration purposes, all at an affordable price point. These revolutionary technologies have been tested and proven in numerous customer implementations for out-of-the-box compatibility that delivers the following benefits:

- Affordable CDP (continuous data protection) for all enterprises
- Best-of-breed host-based replication
- Centralized, disk-to-disk backup strategies that simplify backup replication.
- Reduced backup windows and transfer times to maximize application availability
- Increased WAN capacity or deferral of WAN upgrades
- Accelerated TCP performance to hundreds of Mbps to fully-utilize high-speed WAN links
- Simplified deployment and management: appliances can each be set up with minimal effort, typically in 20 minutes or less

About Riverbed

Riverbed Technology is the performance leader in wide-area data services (WDS) solutions for companies worldwide. By enabling application performance over the wide area network (WAN) that is orders of magnitude faster than what users experience today, Riverbed is changing the way people work, and enabling a distributed workforce that can collaborate as if they were local. Additional information about Riverbed (Nasdaq: RVBD) is available at www.riverbed.com.

About Double-Take

Double-Take Software is the industry leader in providing disaster recovery solutions. With over ten years of experience, Double-Take has been designing and deploying continuous data replication and high availability to meet the needs of every organization.

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