

Riverbed Wide Area Network Acceleration

“Makes 3000 miles feel like 30 feet”

Limited bandwidth, highly latent networks, chatty applications and chatty protocols are all factors that are limiting the performance of applications and data transfers across DoD networks.

Riverbed Technology, the leader in Wide Area Network Acceleration products, was founded on the exclusive premise to solve these types of problems. Through a variety of sophisticated technologies, packaged in easy-to-use appliances, Riverbed’s Steelhead products are enabling America’s war fighters to make better and faster decisions than ever before. Whether those war fighters are in garrison, are mobile or in remote hard to reach locations, Riverbed is delivering applications and data faster to their finger tips.

Riverbed’s products address wide area network problems in the following 3 areas:

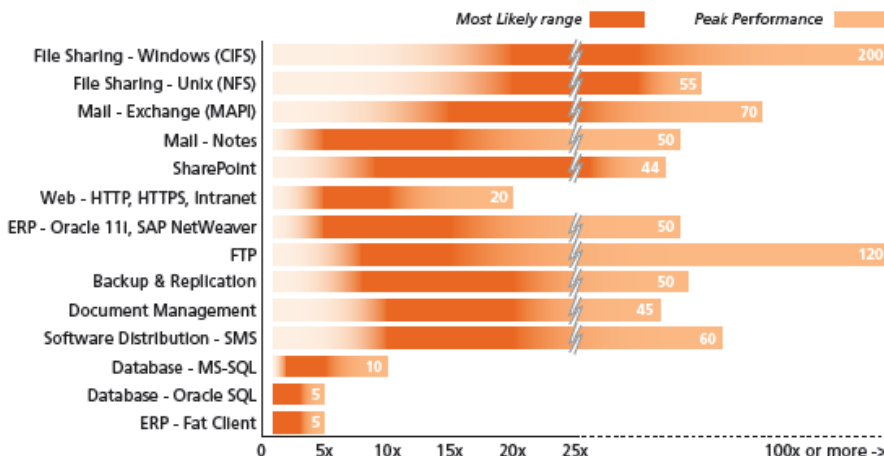
- Data Streamlining optimizes all WAN traffic by removing all redundant data and prioritizing traffic
- Application Streamlining reduces application protocol latency and enables disconnected operations
- Transport Streamlining improves the behavior of TCP in all types of scenarios.

The Steelhead products optimize traffic in both directions, transparent to applications, and require no reconfiguration to client and / or server software. All Steelhead products are designed for easy integration into your existing network, with no changes to routers or servers, and complete compatibility with existing QoS and VoIP implementations.



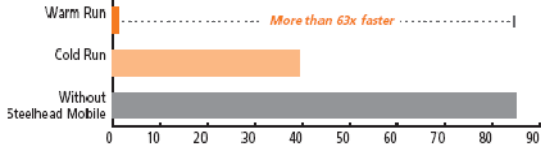
Key Benefits:

- Ensure all employees can access key applications and data, regardless of location
- Simplify backup and replication of remote data
- Consolidate remote IT infrastructure

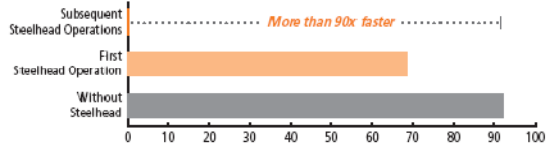


Solution Overview

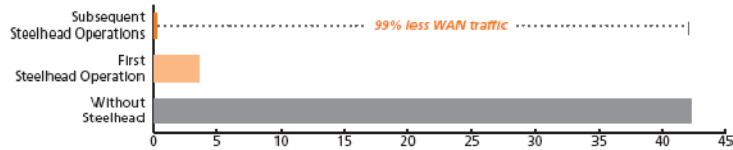
SharePoint HTTP File Save: 6.14 MB file via Verizon Wireless v620 Broadband Card (788 Kbps with 209ms RTT latency) – Time to Complete



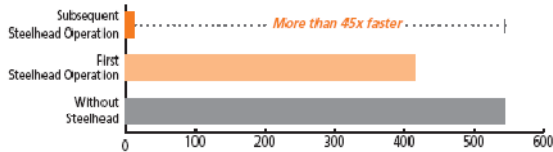
MS CIFS File Transfer: 2.37MB over 256K / 20ms Connection – Time to Complete (in seconds)



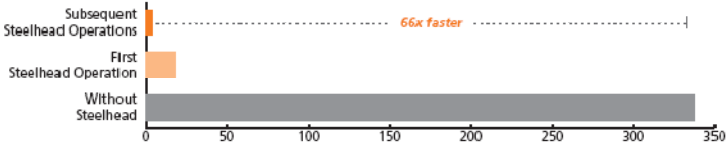
Bandwidth Reduction- Data Transferred (in bytes, in millions)



NetApp SnapMirror Full Datastore Initialization or Recovery (5GB Directory Tree) Over T1 WAN – Time to Complete (in minutes)



Performance Improvement- Time to Complete (in seconds)



Key Benefits

Application Acceleration:

Riverbed appliances deliver dramatic performance increases across the WAN for all TCP applications, sometimes by up to 100 times.

Bulk File Transfers: Riverbed appliances greatly accelerate file transfers across protocols such as CIFS, NFS, and FTP. Data Streamlining technology enables users to get files across in a small percentage of the time.

Reduced Bandwidth Utilization: Organizations that have deployed Riverbed's Steelhead products typically reduce bandwidth utilization by 60% to 99%, often allowing them to defer costly bandwidth upgrades and deliver applications and data faster than ever.

Optimized Disaster Recovery: Organizations can replicate and backup data to remote sites even faster, often reducing transfer windows from hours to minutes. Users can further enhance their data protection strategy by eliminating remote backup infrastructure to greatly reduce the risk of data loss through lost tapes or media.

Enable the Mobile User: Mobile users often receive sub-optimal application performance when they connect to resources from remote locations. With Steelhead Mobile, IT can deliver local performance to remote users wherever they connect.

LTI DataComm

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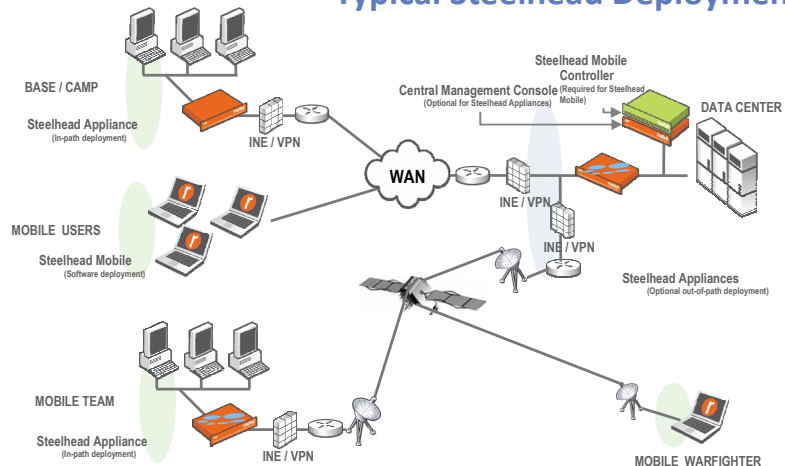
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Typical Steelhead Deployment



Solutions to Serve, Solutions for Service