

## Improve Sharepoint Collaboration With Silver Peak Acceleration

**Microsoft SharePoint can be an essential tool in collecting and sharing information within the enterprise. Within offices SharePoint performs well, but between locations, SharePoint can become unresponsive. Users often cannot check files in or out quickly, and SharePoint databases take too long to refresh.**

**Limited bandwidth is also a problem for SharePoint server replication. As such, IT managers are often forced to increase their management costs by keeping SharePoint servers in the remote office.**

**Microsoft has made a number of application-layer performance improvements in SharePoint 2013, but even those still require the network to address security, service quality, and congestion problems.**

### Accelerated SharePoint

Silver Peak enables Microsoft SharePoint to perform across the WAN as well as it does on the LAN. Latency is mitigated through

CIFS and TCP acceleration techniques as well as Dynamic Path Control. Less SharePoint data is sent over the WAN because of Silver Peak's byte-level, real-time data deduplication engine. Silver Peak eliminates or reduces network congestion problems with Adaptive Forward Error Correction (FEC), Packet Order Correction (POC) and Dynamic Path Control. Application performance is made more consistent through traffic shaping and quality of service (QoS) mechanisms. Security is improved through Accelerated IPSec.

### Performance Results

Silver Peak's range of optimization techniques has been shown to accelerate SharePoint file transfers by over 90 percent (see Figure 1) and reduce bandwidth consumption by more than 20x (see Figure 2) in many customer engagements.

It's important to note that all results were gathered with Silver Peak software out of the box. Silver Peak strongly encourages organizations to evaluate SharePoint performance themselves as numerous factors will influence actual results.

### Summary

- Improve SharePoint browsing
- Transfer files faster
- Over 20x data deduplicated

### Testing Details

Customer testing evaluated SharePoint operations across two customer locations — a manufacturer and a cosmetics provider.

The manufacturer ran a SharePoint test script pulling down a variety of files from 1 MB to 50 MB across a three Mbps connection with 20 ms of latency.

The cosmetics provider tested SharePoint, in part, by transferring 15 MB files across a 10 Mbps connection with 63 ms of latency. Packet loss and out-of-order packets were insignificant in both cases.

The "Baseline" refers to transfers without Silver Peak software enabled. "First Pass" refers to initial transfers not seen by the Silver Peak software. "Second Pass" refers to subsequent transfers seen by Silver Peak software.

### Architectural Benefits

- 50 percent lower TCO
- 20 minutes to download and deploy
- No forced upgrades
- Improve every application
- Minimize support costs
- Eliminate import and duties charges
- Minimize purchase expenses
- Go virtual when ready

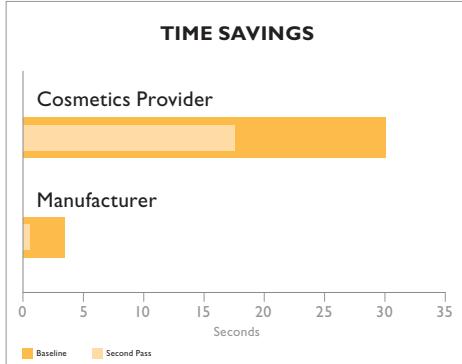


Figure 1: SharePoint and Silver Peak shortened file transfers by as much as 93 percent.

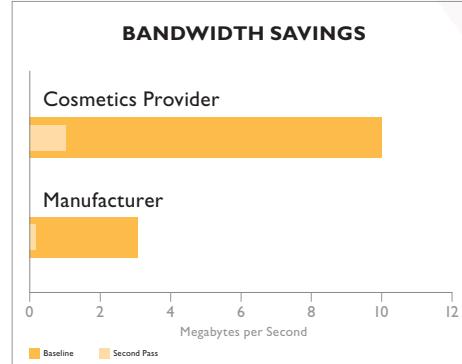


Figure 2: Silver Peak reduced SharePoint bandwidth utilization by as much as 20x.

## Silver Peak Features

Silver Peak's software addresses the major performance challenges of running SharePoint across the WAN for small or large organizations without additional hardware, plug-ins, or tweaking of the Silver Peak software:

**Bandwidth** – Silver Peak data deduplication conserves bandwidth by eliminating redundant data from the WAN. The first time data is sent from the WAN, it is fingerprinted and compressed by Silver Peak. Subsequent requests are fulfilled from the local Silver Peak instance.

**Latency** – Silver Peak mitigates latency enabling SharePoint to operate more efficiently over distance. CIFS Acceleration includes CIFS read-ahead, CIFS write-behind, and CIFS metadata optimizations TCP Acceleration includes windows scaling, selective acknowledgements, and HighSpeed TCP. Latency is also reduced through packet coalescing, which re-packages multiple smaller packets into a single larger one, and through

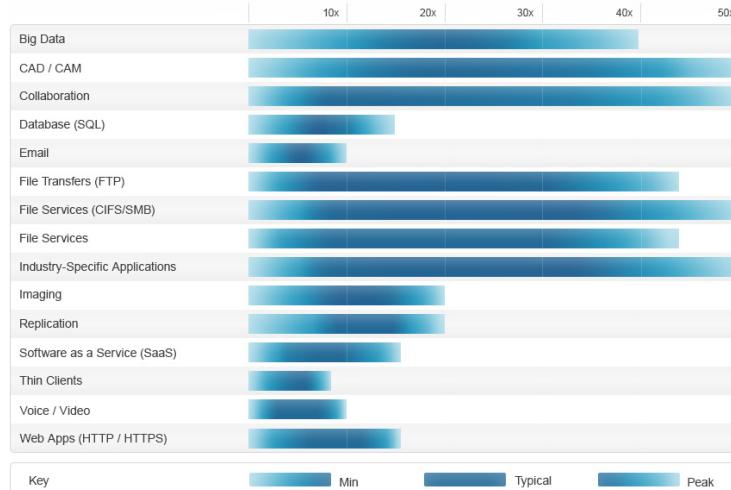
Dynamic Path Control, which selects the fastest path to a remote location.

**Congestion** – Silver Peak makes SharePoint performance more predictable over distance by identifying the optimum path to a remote location through Dynamic Path Control. Lost or out-of-order packets are recovered and resequenced in real time, avoiding retransmission delays. Traffic shaping and QoS mechanisms ensure SharePoint and the other applications sharing the WAN receives the necessary bandwidth.

**Secure** – Silver Peak establishes an IPSec virtual private network (VPN) between locations, securing all data with AES-256, the enterprise standard for data encryption. Data at rest is also encrypted with AES. Access to Silver Peak software is protected with TACACS+ and RADIUS. End-to-end encryption is provided by SSL/TLS.

Silver Peak does all of this to scale, improving application performance from small offices to large data centers, making Silver Peak the most scalable data acceleration platform in the industry.

## Silver Peak Optimizes Any Enterprise Application



Silver Peak optimizes every application. Actual performance will vary based on many factors.

## Deployment Benefits

### Improve Collaboration

Faster SharePoint access enables distributed teams to collaborate more effectively on projects.

### Be More Productive

Shortening the time to complete operations, saving organization hours each week.

### Lower Costs

IT can lower costs by consolidating SharePoint servers into the data center without impacting the user experience.

### Lower Bandwidth Charges

Eliminate redundant data from the WAN and dramatically reduce reoccurring bandwidth charges.

## For More Information

Visit [www.Silver-Peak.com](http://www.Silver-Peak.com) and Read why [AutoDesk](#) and [Charleston Medical Center](#) selected Silver Peak WAN optimization.

Watch the IT director at [Progressive Financial](#) explain how they benefited from Silver Peak optimization.

Calculate your theoretical benefit with Silver Peak software using our [throughput calculator](#).

Test the Silver Peak software [for free](#). It takes 20 minutes to download and deploy.