



Performance Summary

- > Improve file retrieval by more than 100 times, in seconds instead of minutes
- > Reduce bandwidth utilization by 95% or more, depending on the operation (95% for modified content, 99% for static content)
- > Blue Coat securely accelerates all Office SharePoint Server 2007 and 2010 operations (including the retrieval of training videos and recorded announcements)
- > Blue Coat can accelerate Office SharePoint Server 2007 and 2010 operations, regardless of the protocol used – even when encrypted by HTTPS/SSL

Test Scenario

These tests were performed with Office SharePoint Server 2007 and 2010 installed on Windows 2008 Server, using a client with XP SP2. The tests were run on a simulated 1.544Mbps (T1) WAN link with 100ms latency.

- > Cold test, starting condition: no traffic has passed through Blue Coat appliances.
- > Warm test starting condition: the same or similar traffic has already passed through the Blue Coat appliances once.

Blue Coat Accelerates and Optimizes SharePoint Server 2007 and 2010

IT organizations need to ensure that global users in distributed enterprises effectively collaborate and remain productive, while also ensuring they are able to manage important documents and files from a central location. Integrating customer and partner information into the corporate workflow and process is an even more difficult task, requiring that users outside of the organization are granted access. Office SharePoint Server 2007 and 2010 helps with these tasks, but slow WAN links and degraded performance detract users from adopting the software and processes. Blue Coat Systems provides an end-to-end acceleration solution to regain performance, minimize bandwidth usage, and significantly reduce the time to complete all SharePoint Server 2007 and 2010 operations, whether it is for information or content management, collaboration and workflow, or the integration of customer and partner information during the proposal process.

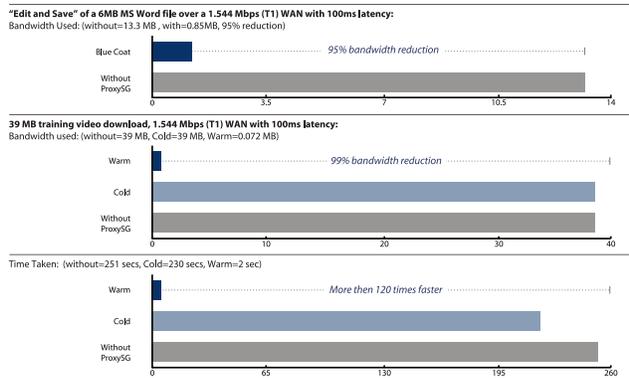
Microsoft SharePoint Server over the WAN

Microsoft Office SharePoint Server 2007 and 2010, also called Team Server, provides a consistent interface that simplifies how users interact with content, processes, and business data. Everyday business activities, such as document review and approval, issue tracking, and signature collection, are tightly integrated with familiar client applications, e-mail, and Web browsers.

However, these same tasks for remote users over a WAN, with reduced bandwidth and high latency, causes performance to severely degrade, slowing the adoption of business processes. While there are many uses cases for Office SharePoint Server 2007 and 2010, common user scenarios include posting documents for review, or posting a file for sharing. As an example, opening a 6MB file stored on a remote Office SharePoint Server 2007 and 2010 can take minutes instead of seconds since the entire 6MB file needs to be downloaded. Modifying the file or adding comments to it will take the same amount of time to save – all 6MB still needs to be transferred – even though most of the file will not have changed.

Performance Results

In a test using Office SharePoint Server's "file edit" feature to open, edit and save a 6MB MS Word document, Blue Coat MACH5 appliances reduced the bandwidth utilization by 95%. In another test for retrieving a 39MB training video, MACH5 reduced the file retrieval time by more than 100 times, and decreased bandwidth usage by over 99%.



How Blue Coat Accelerates and Optimizes Office SharePoint Server 2007 and 2010

Blue Coat's acceleration technology improves and accelerates all Office SharePoint Server 2007 operations and tasks. Object caching, byte caching and compression technologies allows Sharepoint users to access content and complete tasks in seconds instead of minutes, and reduces bandwidth utilization by up to 99%. When combined with protocol optimizations, nothing does more to offload application servers and provide users with a LAN-like experience. Users can now complete all SharePoint tasks and operations over a WAN in seconds, for large file retrievals as well as file edits or modifications. Additionally, the Blue Coat solution also provides the ability to employ bandwidth management/ QoS (quality-of-service) for any class of traffic to be appropriately prioritized.

Blue Coat Benefits

Improve User Productivity

Protocol optimizations, object caching and byte caching significantly reduce the time required to complete all SharePoint operations.

Reduce Bandwidth Usage

Object caching, byte caching and compression significantly reduce the amount of traffic over the WAN.

Reduce Server Utilization

Object caching and protocol optimizations reduce the load on the server, allowing for greater scalability and ROI.

Secure and Easy Deployment

Integrate securely with your IT infrastructure, even offloading authentication features from the Office SharePoint Server.

QoS and Bandwidth Management

Deploy Blue Coat to intelligently prioritize and bandwidth-shape SharePoint Server traffic relative to other business-critical traffic.

About Blue Coat MACH5 Acceleration Technology

Blue Coat MACH5 acceleration technology is a patent-pending combination of data reduction and application acceleration techniques that provide measurable improvements in performance and reduction of bandwidth. Whether at the edge of your network, or right in the heart of it, MACH5 acceleration technology provides a powerful toolkit to optimize performance for distributed applications.

These technologies include:

Protocol Optimization

Improves the performance of protocols that are inefficient over the WAN by eliminating the impact of latency native to their design. Blue Coat has been optimizing network protocols for over a decade, and offers multiple improvements for TCP, CIFS, HTTP, HTTPS, MAPI and streaming video and IM protocols.

Byte Caching and Compression

Dictionary-based gigabyte caching combines high performance disk storage for large byte patterns with innovative indexing and referencing techniques to drastically reduce bandwidth from large, repetitive data transmission. Inline compression reduces predictable patterns even on the first pass, making it an ideal complement to byte caching technology.

Asymmetric Pipelining and Object Caching for Web and SSL

Blue Coat's pipelining parallelizes multiple connections within compound web pages, moving data and objects much more quickly to the user. Object caching, with patented adaptive refresh, assures that the freshest content is served immediately to the users – without the network wait. Blue Coat delivers this acceleration in an asymmetric architecture, requiring only a single box at the branch to accelerate internal and external HTTP and SSL traffic – with no appliance required on the other side of the transaction.

Video Split Streaming, Object Caching & CDN

Large video files – whether static or streamed live – are difficult to deliver in distributed environments due to large bandwidth requirements. Blue Coat's live split streaming takes a single stream from the WAN and splits it into multiple streams at the remote site, enabling all employees to view live streams at the bandwidth cost of just one stream. Video caching makes on-demand video instantly available to employees, while CDN capabilities enable you to pre-position content at non-peak times.

Recreational traffic control & SaaS Acceleration

Classify each external website access with Blue Coat WebFilter and our real time WebPulse service in order to prioritize business, minimize recreation and prevent malware infections. Unique internet caching capabilities let you reduce bandwidth for allowed Web sites – and accelerates software-as-a-service (SaaS) applications important to your business. Note, web filtering and WebPulse are only available with the ProxySG Proxy MACH5 Edition.

Bandwidth Management

Prioritize network resources based not only on port or device, but on users, applications and content to more accurately reflect your corporate policies on the network. Works by itself, or integrates with your infrastructure QoS to provide application intelligence to the packet switching network.

About Blue Coat ProxyClient

ProxyClient™ builds on Blue Coat's Secure Web Gateway and WAN Optimization technologies to secure and accelerate application delivery for roaming and small branch users. Combining Blue Coat's acceleration technologies with Blue Coat WebFilter and WebPulse service, ProxyClient delivers LAN-like user experience, policy enforcement and malware protection at the PC-level.