



Performance Summary

- › Reduce portal login times from over 4 minutes to less than 3 seconds
- › Reduce bandwidth utilization by 95% or more, depending on the operation
- › Blue Coat securely accelerates all PeopleSoft operations – pagelet navigation is 16 times faster, while data retrieval is 83 times faster
- › Blue Coat can accelerate PeopleSoft applications regardless of the protocol used – even when encrypted by HTTPS/SSL
- › Reduce server utilization by 50% or more

Test Scenario

These tests were performed using a Windows XP client accessing a PeopleSoft HR application over HTTPS. These tests were run on a 1.544 Mbps (T1) WAN link with 512ms latency.

- › Cold test, starting condition: No traffic has passed through the Blue Coat appliances.
- › Warm test, starting condition: The same or similar traffic has already passed through the Blue Coat appliances.

Blue Coat Accelerates and Optimizes PeopleSoft Applications

Oracle's PeopleSoft applications (formerly PeopleSoft Enterprise, JD Edwards EnterpriseOne, and JD Edwards World) are a collection of web-based enterprise business applications designed to work with a broad range of database management systems, such as Oracle Database, Microsoft SQL Server, IBM DB2, Informix, and Sybase. Oracle's PeopleSoft Enterprise Applications and JD Edwards EnterpriseOne both offer information solutions (such as HCM, FMS, SCM, CRM, EPM, Portal and PeopleTools), while JD Edwards World is a web-enabled ERP environment specifically built for the IBM system i platform (formerly iSeries).

These types of web-enabled applications tend to operate well in LAN environments, but become user unfriendly with severely degraded response times when accessed over the WAN at branch offices and remote locations. Poor application performance decreases user productivity, increases user frustration, and slows the adoption of corporate policies and processes. Blue Coat appliances can optimize, accelerate and prioritize all PeopleSoft applications traffic for users – reducing latency and increasing WAN throughput – while maintaining control, visibility, and security for network administrators.

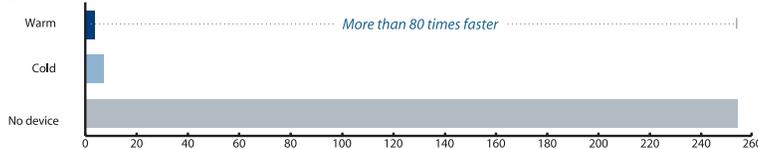
PeopleSoft Applications over the WAN

PeopleSoft applications are built around PeopleSoft's own PeopleTools technology, with a web-centric design called PeopleSoft Internet Architecture (PIA). Depending on the application or technology/solution, they can be delivered via a web client, as part of an overall Enterprise Service Oriented Architecture (SOA), or as middleware (in the form of application servers and portals). PeopleSoft application traffic over the WAN is usually secured with SSL encryption to provide a secure end to end communication channel between user and server, but the use of HTTPS adds round trips that increase response times, visibly impacting the user experience. PeopleSoft applications are unique since they are strictly a web-based client – no additional downloads of plug-ins or Java Virtual Machines are required over the WAN. Nevertheless, combined with downloads of Peoplesoft portlets, pagelets, and other web content or images, portal login over a WAN with limited bandwidth and latency can take over 4 minutes. After portal login is completed, clicking on a pagelet configured to access other modules can take over 65 seconds.

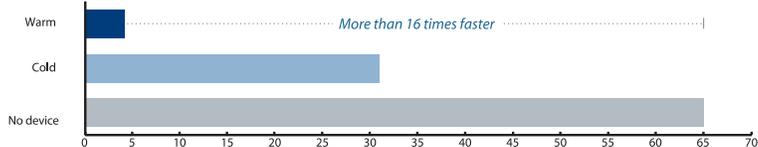
Performance Results

Using a simulated 1.544 Mbps (T1) WAN link with 512ms latency, ProxySG appliances improved logins to a PeopleSoft HR application by 80 times. In other tests, Blue Coat ProxySG appliances improved page responses of the eDocs "Latest Docs Pagelet" more than 16 times, and improved data retrieval from the HCM employee database more than 83 times.

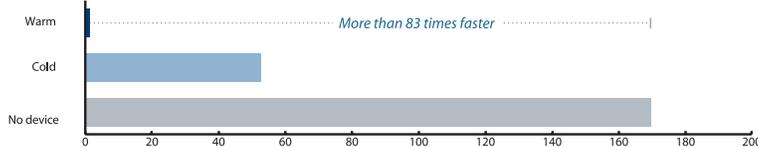
PeopleSoft portal login over a 1.544 Mbps (T1) WAN with 512ms latency Time Taken: (without=253 secs, COLD=7 secs, WARM=3 secs)



Browsing eDocs pagelet over a 1.544 Mbps (T1) WAN with 512ms latency Time Taken: (without=65 secs, COLD=31 secs, WARM=4 secs)



Refreshing the employee table over a 1.544 Mbps (T1) WAN with 512ms latency Time Taken: (without=167 secs, COLD=53 secs, WARM=2 secs)





Blue Coat Benefits

Improve user productivity, reduce bandwidth usage

Compression, object caching and byte caching significantly improve PeopleSoft Application response times while conserving bandwidth.

Secure/Simple Deployment

Deploy and manage SSL acceleration without exposing PeopleSoft Application server private certificates unlike other SSL solutions.

Server Offload

Deploy Blue Coat for PeopleSoft Applications to offload and reduce CPU/connection utilization on servers (or increase server capacity). Competing WAN optimization products that operate at the transport layer do not provide any server offload.

QoS and Bandwidth Management

Intelligently prioritize and bandwidth-shape key application traffic, ensuring key business applications or users do not compete for bandwidth with non critical traffic or users.

How Blue Coat Accelerates and Optimizes PeopleSoft Applications

Blue Coat's Application Delivery Solution with MACH5 technology, feature protocol enhancements and caching optimizations to improve and accelerate the delivery of PeopleSoft Applications over the WAN, reducing the effects of latency and problems associated with limited bandwidth. Through the use of compression, object and byte caching, the bandwidth required to serve PeopleSoft Application traffic is minimized, and combined with protocol optimization, mitigates the impact of latency over the WAN. Additionally, the Blue Coat solution also provides the ability to employ bandwidth management/QoS techniques, allowing for any class of traffic to be prioritized, ensuring that PeopleSoft Application traffic does not compete for WAN bandwidth with non-business critical usage. The Blue Coat Application Delivery solution is also the only solution capable of integrating into your existing IT infrastructure, allowing for flexible authentication and deployment options.

About Blue Coat MACH5 Acceleration Technology

Blue Coat MACH5 technology is a patent-pending combination of five separate application management and tuning technologies that provide unrivaled improvements in application performance and bandwidth utilization. Whether at the edge of your network, or right in the heart of it, MACH5 technology provides a powerful toolkit for meeting any application delivery challenge. These technologies include:

Bandwidth Management

Assign priority and 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.

Protocol Optimization

Improves the performance of protocols that are inefficient over the WAN through specific enhancements that make them more tolerant to the higher latencies typically found there. Blue Coat has been optimizing network protocols for over a decade, and offers multiple improvements for TCP, CIFS, HTTP, HTTPS, MAPI and most streaming video and IM protocols.

Byte Caching

Cache repetitive traffic found in the byte stream and serve it locally to reduce the amount of traffic that actually uses the WAN at all. Works like a customized compression algorithm for your network traffic, and leads to dramatic bandwidth savings.

Object Caching

Store files, videos and web content locally, providing LAN-like performance for WAN users, without the overhead and risk of traditional wide area file services. For content delivery, no technology does more to reduce latency and bandwidth to improve the end user experience.

Compression

Inline compression can reduce predictable patterns even on the first pass, making it an ideal complement to byte caching technology.

About the Blue Coat ProxyClient

ProxyClient builds on Blue Coat's secure web gateway and acceleration technologies to extend application delivery to the desktop. Using MACH5 technology, including caching, compression and protocol optimization, ProxyClient accelerates web and office applications for roaming and small branch users. ProxyClient delivers LAN-like user experience and Blue Coat web filtering with a simple and easy footprint for installation, configuration, deployment and ongoing maintenance.