

- Reduce application response time over the WAN by 95%
- Increase the scalability of Microsoft application environments
- Consolidate Microsoft application servers and speed remote access to these environments
- Create a high performance, flexible, scalable, and easy to manage virtual infrastructure

“Global enterprises rely on Microsoft SharePoint and Office. Certeon’s acceleration solutions uniquely understand these applications and maximize their inherent scalability and performance without disrupting the customer experience or exposing mission-critical data.”

— Charles Ofori
Program Manager,
Microsoft IT

MICROSOFT APPLICATION ACCELERATION

Microsoft Office is a complete set of desktop and server software designed to help streamline the way organizations and their people do business. As MOSS becomes more ubiquitous, the combined capabilities of Office and MOSS are becoming the de facto standard for distributed enterprises’ collaboration and content management infrastructures. Microsoft Exchange and Outlook have also become a de facto standard for distributed enterprise mail services over the Web. However, to successfully deploy enterprise-wide Web-based application services to geographically dispersed offices requires that WAN performance obstacles such as bandwidth limitations, high latency, and packet loss be overcome.

MICROSOFT HYPER-V

With the introduction of Microsoft Windows 2008® with Hyper-V™ and Hyper-V Server™, system managers will be looking to deploy these applications within a virtual operating system environment to reduce overall system and maintenance costs at data centers and branch offices.

CERTEON’S ACELERA VIRTUAL APPLIANCE & APPLICATION ACCELERATION BLUEPRINTS

To meet both the cost savings and the performance needs of these distributed and virtualized application environments, Certeon has introduced aCelerate, the first application acceleration virtual appliance with Application Acceleration Blueprints for Office, MOSS, and Exchange. aCelerate software is supported on virtual operating systems such as Microsoft Hyper-V and VMware ESX and ESXi and delivers a 95% reduction in application response time over the WAN.

aCelerate accelerates the document flow between centralized Microsoft Office System applications such as Word®, Excel®, PowerPoint®, InfoPath®, Project, Visio, Publisher®, and SharePoint and Exchange server farms by minimizing network traffic, decreasing the number of packet flows across the network, and reducing application chattiness. The result is dramatically reduced application response time and exceptional scalability.

STREAM BASED DIFFERENCING

Application acceleration is all about reducing application response time. aCelerate’s application acceleration is different from what is typically referred to as appliance-based WAN optimization in that it not only performs data packet compression, caching, and protocol optimization, but also knows enough about an application’s semantics to effectively reduce the amount of application traffic being transmitted over the WAN. Effective application acceleration techniques, such as Certeon’s unique Stream Based Differencing, can identify and reduce application traffic to only the essential data objects (i.e., changes). By reducing the amount of data traffic sent over the WAN, application response time can be dramatically improved.

With its application fluency, aCelerate understands how these elements are used and thus can make a more accurate identification of these data streams and enable industry-leading acceleration. Customers will be able to consolidate MOSS and Exchange servers into centralized data centers without sacrificing performance for remote branch users.

PERFORMANCE

Certeon’s aCelerate accelerates the full range of protocols and file system formats employed by Microsoft Office 2007, MOSS, and Exchange. Certeon’s Application Acceleration Blueprints securely accelerate access to Office Open XML documents (including .docx, .xlsx, .pptx) and dynamically generated MOSS Web pages.

Unlike other WAN optimization or application acceleration solutions, aCelerate has a deep understanding of SharePoint and MOSS application objects, protocols, and network semantics. The result is a dramatic reduction in the data that needs to be sent over a WAN, and turbocharged acceleration for SharePoint and MOSS applications (see bar charts on page 2).

Application Acceleration Blueprints™

Microsoft® Office™

Microsoft Office SharePoint® Server (MOSS)

Microsoft Exchange

ACCELERATES ALL TRAFFIC

- Optimized for HTTP, HTTPS, CIFS, MAPI

MICROSOFT APPLICATION SUPPORT

- Windows 2008 with Hyper-V
- Hyper-V Server
- Office System 2007
- SharePoint 2003
- MOSS 2007
- Exchange Server 2003/2007 and Outlook 2003/2207
- Project
- Forms
- InfoPath
- Web Parts
- XML
- ASP.NET
- Web Services
- Visio

FRESH CONTENT GUARANTEED

- Not based on replication
- Upstream and downstream acceleration
- Authentication aware
- Origin server always accessed
- Check-in/Checkout aware
- Data integrity ensured

DATA SECURITY

- Acceleration of encrypted traffic
- Active Directory/NTLM
- Disk encryption



Partner

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In performance tests where multiple MOSS and Exchange/Outlook file types and sizes were accessed over the WAN, aCelerator enabled an average 95% improvement in remote access performance (see bar charts below).

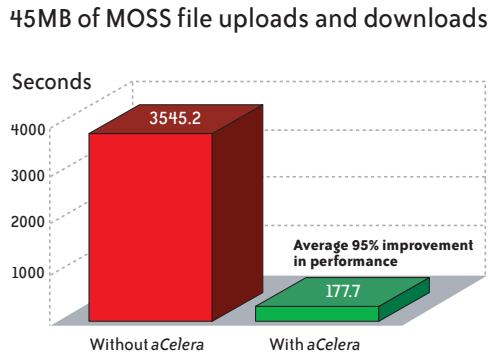


Figure 1. Upload and downloads of various MOSS (CIFS, HTTP, and HTTPS) file types over 1 MB bandwidth WAN with 200 ms latency.

SECURITY

Certeon can accelerate Microsoft Office, MOSS, and Exchange traffic securely from the data center to the desktop. Whether access is via HTTP or HTTPS (SSL), with Certeon there is no difference in application response times. Certeon's Secure Application Networking™ doesn't require additional certificate or key management and never compromises security. Through a combination of end-to-end disk encryption, SSL (HTTPS), and IPSec, Certeon maintains security while accelerating Microsoft Office, MOSS, and Exchange traffic, including XML files. In addition, because the origin server is accessed on every user request, corporate authentication policies are adhered to. With Certeon, enterprises can consolidate servers into centralized data centers without compromising the security or performance of the application services.

SCALABILITY

Certeon enables the transmission of more application data without the need for more bandwidth. By improving the remote access performance of mission critical applications, more users can access more applications over existing network infrastructures.

Multiple Exchange/Outlook eMail file types and sizes accessed over the Web

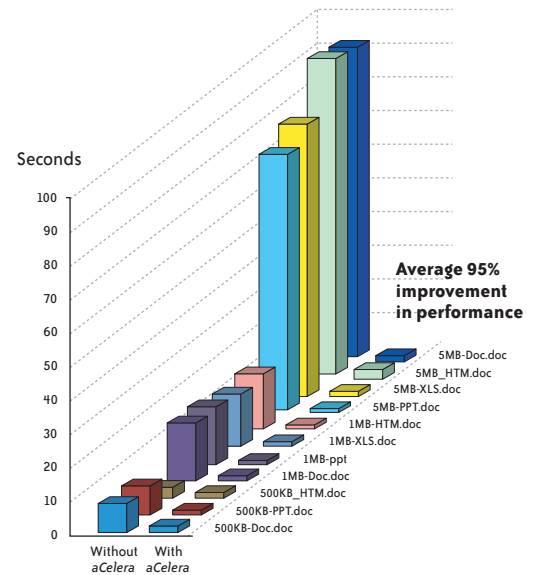


Figure 2. Exchange/Outlook email documents (MAPI) accessed over 1 MB bandwidth WAN with 200 ms latency.

MICROSOFT APPLICATION ACCELERATION

aCelerator Virtual Appliance software is uniquely optimized for Microsoft applications supported by Microsoft Office, MOSS, Exchange, as well as Hyper-V environments. Certeon's aCelerator with Application Acceleration Blueprints provides optimum performance, security, and scalability for these applications when being accessed over a WAN. The result is the lowest response time and highest productivity possible for all remote branch office employees.



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