Blue Coat MACH5 Virtual Appliance

Consolidate with WAN Optimization on Industry-Standard Servers

Blue Coat MACH5 Virtual Appliance (VA) is a software version of MACH5 Acceleration Edition. A critical component of Symantec Network Performance Optimization solutions, MACH5 VA provides WAN optimization on industry-standard servers for branch offices. It reduces bandwidth and accelerates application performance, enabling innovative branch office consolidation.

Leverage Virtualization to Consolidate and Optimize

Virtualization technologies now enable you to take advantage of more powerful server hardware and build high availability, flexible branch office platforms for a fraction of the costs of traditional solutions.

- The power and cost efficiencies of servers. Quad-core processors with multi processor options, expanded memory and high density disk drives make industry standard servers the best value for branch office platforms – 2-10x capacity and value versus routers and proprietary platforms.

- Virtualization enables consolidation and high availability at branch. VMware virtualization technologies, proven in the most demanding data center environments, now push into branch offices. This enables you to consolidate different types of applications and create high availability platforms where hypervisors manage the hardware. And VMware virtualization isolates the system from potential instability of leading operating systems, enabling high availability flow processing technologies to maintain operation in a mixed environment.

- Flexible, open platforms let you adapt to business needs. x86 servers can run any business application you need in the branch, including the leading Microsoft Windows Server 2008 for key services like DNS, DHCP, Print and Authentication. Whether applications run on top of Microsoft or other OS's, virtualization provides the flexibility to consolidate to a single server.

- Accelerate application delivery with Symantec WAN Optimization. With growth in required bandwidth and requirements for high performance business applications, more organizations are turning to Symantec WAN Optimization to dramatically reduce WAN bandwidth and accelerate application performance for branch offices.

Deliver more efficient consolidation and operational innovation to branch offices

Symantec's acceleration technologies are available today as the MACH5 VA on industry-standard servers. With our virtual appliance, you get all the benefits of WAN Optimization as well as the ability to consolidate with other branch-office applications and IT services.

Benefits

- Accelerate performance of applications and reduce WAN Costs. From files, email and backup to video and Web applications delivered internally or from the cloud, Symantec WAN Optimization speeds delivery of business applications and dramatically reduces bandwidth required.
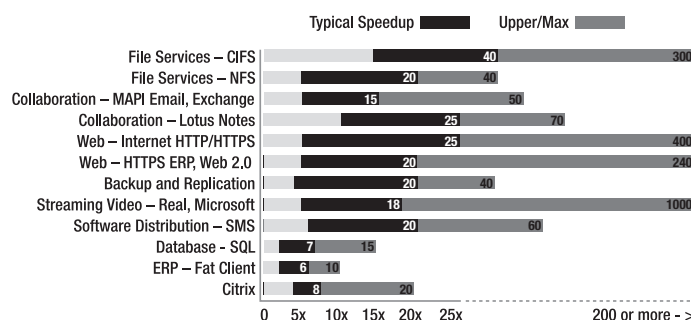
- Reduce costs via consolidation while delivering local applications and Microsoft Server 2008 Services. By reducing the number of servers via consolidation, and eliminating backup systems by enabling centralization of storage and backup, Symantec helps you drastically reduce the operating and capital costs for rich branch office infrastructure.

- Maintain flexibility to adapt to business with virtualized, open server platform. Powerful x86 multi core server systems with excess capacity combine with virtualization to enable you to deploy almost any business application or service at a branch – when you need. This allows you to adapt to changing requirements in our complex technology world.

Symantec's Leading WAN Optimization

Symantec accelerates the broadest range of applications – from files, email and backup to video and Web applications delivered internally or from the cloud, By applying the right mix of our acceleration capabilities, you can improve application performance for all types of applications, reducing required WAN bandwidth to remote offices and speeding the end user experience.

Blue Coat MACH5 specifically helps reduce WAN congestion and accelerate application performance by combining protocol optimization, object and byte caching, compression, bandwidth management and video optimization that can save up to 99% of your bandwidth. As a result, Symantec helps you realize significant application performance gains and a superior ROI. Here's how our WAN Optimization technologies do it:

- Protocol optimization: Improves application performance over the WAN by reducing the effects of latency on inefficient protocols or applications originally architected for the LAN.

- Object caching: Dramatically accelerates Web applications and workflows that depend on centrally stored files by delivering remote content locally.

- Byte caching: Reduces bandwidth consumption for repetitive data elements transmitted over the WAN, even across disparate applications.

- Compression: Reduces the effect of latency for any compressible data traversing the WAN.

- Bandwidth management: Prioritizes enterprise-critical application delivery over the WAN.

- Video caching and live stream-splitting: Save bandwidth by downloading a single live stream once and distribute it to multiple users. You can also pre-populate and cache video for on-demand use in native protocol.

Typical Speedup	Upper/Max
File Services – CIFS	40 — 300
File Services – NFS	20 — 40
Collaboration – MAPI Email, Exchange	15 — 50
Collaboration – Lotus Notes	25 — 70
Web – Internet HTTP/HTTPS	25 — 400
Web – HTTPS ERP, Web 2.0	20 — 240
Backup and Replication	20 — 40
Streaming Video – Real, Microsoft	18 — 1000
Software Distribution – SMS	20 — 60
Database - SQL	7 — 15
ERP – Fat Client	6 — 10
Citrix	8 — 20

0 5x 10x 15x 20x 25x   200 or more - >

MACH5 VIRTUAL APPLIANCE (Models, Capacity and Minimum Server Requirements)

MODEL	MAX USERS	MAX BANDWIDTH	UPGRADABLE TO NEXT MODEL?	SERVER REQUIREMENTS (INCLUDES CAPACITY FOR WINDOWS SERVER 2008 R2)
MACH5 VA-5	10	2Mbps	Yes	Dual-core, 4GB RAM, 200GB disk
MACH5 VA-10	50	6Mbps	Yes	Quad-core, 4GB RAM, 300GB disk
MACH5 VA-15	125	12Mbps	Yes	Quad-core, 6GB RAM, 600GB disk
MACH5 VA-20	300	18Mbps	No	Quad-core, 8GB RAM, 800GB disk

About Symantec

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