BLAZING PERFORMANCE: EVERY WORKLOAD, EVERY USER, EVERYWHERE

Blue Coat MACH5 S500

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Security
Empowers
Business

Great performance shouldn't be limited to certain applications, or certain users, or certain times of the day. That is why Blue Coat MACH5 S500 goes beyond traditional WAN optimization solutions and dramatically improves the performance of virtually all applications and workflows – from file transfers to backups, email, databases, video, and cloud applications. A cornerstone product of the Blue Coat Performance Center, MACH5 S500 combines optimization features such as protocol acceleration, compression, and caching to deliver high performance across IPv4 or IPv6 environments. And it deploys at the network core or the branch to assure that every user, everywhere experiences the superior performance they expect.

Acceleration

- **Protocol Optimization**: Accelerate application performance by mitigating the penalties that latency imposes on inefficient protocols or applications originally architected for the LAN and running on the WAN

- **Object Caching**: Dramatically accelerate web application and workflows that depend on centrally-stored files by delivering remote content locally in the branch

- **Byte Caching**: Reduce the effects of latency, and significantly reduce bandwidth consumption for repetitive data elements, even across disparate applications, transmitted over the WAN

- **Compression**: Reduce the effect of latency, and reduce bandwidth consumption for any compressible data transiting the WAN

- **Bandwidth Management**: Ensure productivity by prioritizing enterprise-critical data flows over bulk-data or recreational traffic

- **Video Optimization**: Stream splitting, video pre-population and video caching can save up to 99.99% of bandwidth

- **Mobile User Optimization**: Productivity enhancement for mobile and home users with Blue Coat ProxyClient

Application Acceleration

Support for multiple protocols

- HTTP, CIFS, SSL, FTP, Encrypted MAPI, MAPI, P2P, MMS, RTMP, RTMPE, RTSP, QuickTime, SCPS, TCP-Tunnel, DNS

- Provide LAN-like application performance to remote users and branch offices

- Deliver outstanding performance for streaming audio, video and other rich media applications

- Bandwidth management on all acceleration services

- Accelerate live and on-demand rich media, as well as SSL-encrypted traffic

- Control encrypted traffic for all users and applications inside and outside the enterprise

- Reduce recurring network bandwidth costs with multiple levels of compression and content caching

Performance & Reliability – SGOS

Platform highlights:

- Secure object-based operating system with small footprint

- High-speed caching with advanced object pipelining and adaptive refresh

- Built-in pass-through network card, compression services, bandwidth management and SSL off loading

Network functionality including:

- Active/Active bridging support using virtual IP addressing for failover and remote installations

- Completely transparent when tunneling applications between appliances, maintaining IP and port information for traffic management

- Native support for advanced clustering for near limitless scalability, without additional load balancing appliances

- Routing configurations for gateway, route tables, RIP, DNS, and WCCP, with support for asymmetric routing of application delivery tunnels

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- Health checks performed on a forwarding host or external servers to verify status and availability of device
- View & submit service requests via the Blue Coat management interface
- Send snapshots (trace files) to Blue Coat Support Services for faster resolution

Manageability – Policy Processing Engine

Powerful management interface

- Web-based management interface
- Optional command line interface
- Alerting via SNMP, SMTP and logging administrative events

Content Policy Language (CPL)

- Create custom text-based policies to address unique policy requirements
- Definable triggers and actions for policy definition

Extended Management with Director

- Distribute, backup, restore policy files for multiple ProxySG appliances
- Manage policies by device, group, or region
- Job scheduling/job status reporting

Management & Control of ProxyClient

- Configure, provision and maintain global deployment of ProxyClient
- Upgrade client versions seamlessly with auto version detection and update

Visibility – Management Reporting

Default logging

- HTTP, HTTPS, CIFS, Encrypted MAPI, MAPI, FTP, TCP-Tunnel, P2P, ICP, Windows Media, Real Media, QuickTime, DNS
- Global log file limits and upload sizing
- Client upload settings and scheduling

Custom logging and trace files

- Selectable fields/text/log formats

Statistics

- Bandwidth Gain
- HTTP/HTTPS/FTP history
- Streaming history
- Resources

SNMP Support:

- Trap settings, community strings

Aggregate logs with Blue Coat Reporter

- Reporter dashboard - intuitive console that provides a "drill-down" overview of web activity
- 50+ pre-defined reports track user activity, security risks, and web traffic performance
- Secure browser access/role-based viewing
- Provides real-time reporting with continuous log uploads from one or more ProxySG appliances

LICENSE TYPE	ACCELERATION EDITION	PROXY EDITION
CIFS acceleration	Yes	Yes
Windows Media optimization	Yes	Yes
Real Media optimization	Yes	Yes
QuickTime optimization	Yes	Yes
Adobe Flash optimization	Option	Option
Bandwidth Management	Yes	Yes
DNS proxy	Yes	Yes
HTTP acceleration	Yes	Yes

LICENSE TYPE	ACCELERATION EDITION	PROXY EDITION
SSL acceleration	Yes	Yes
Encrypted MAPI /MAPI acceleration	Yes	Yes
Telnet proxy	No	Yes
ICAP Services	No	Yes
Netegrity SiteMinder	No	Yes
Oblix COREid	No	Yes
Peer-To-Peer	No	Yes

LICENSE TYPE	ACCELERATION EDITION	PROXY EDITION
User Authentication	No	Yes
Onbox Content Filtering (3rd Party or BCWF)	No	Yes
Offbox Content Filtering (e.g. Websense)	No	Yes
Instant Messaging (AOL, Yahoo, and MSN)	No	Free
SSL Termination/Proxy	Yes	Yes

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FOR ALL MACH5 S500 SERIES

REGULATIONS	SAFETY	ELECTROMAGNETIC COMPLIANCE (EMC)
International	CB – IEC60950-1, Second Edition	CISPR22, Class A; CISPR24
USA	NRTL – UL60950-1, Second Edition	FCC part 15, Class A
Canada	SCC – CSA-22.2, No.60950-1, Second Edition	ICES-003, Class A
European Union (CE)	CE – EN60950-1, Second Edition	EN55022, Class A; EN55024; EN61000-3-2; EN61000-3-3
Japan	---	VCCI V-3, Class A
Mexico	NOM-019-SCFI by NRTL Declaration	---
Argentina	S Mark – IEC 60950-1	---
Taiwan	BSMI – CNS-14336-1	BSMI – CNS13438, Class A
China	CCC – GB4943.1	CCC – GB9254; GB17625
Australia/New Zealand	AS/NZS 60950-1, Second Edition	AS/ZNS-CISPR22
Korea		KC – RRA, Class A
Russia	CU – IEC 60950-1	GOST-R 51318.22, Class A; 51318.24; 51317.3.2; 51317.3.3

ENVIRONMENTAL	RoHS-Directive 2011/65/EU, REACH-Regulation No 1907/2006
PRODUCT WARRANTY	Limited, non-transferable hardware warranty for a period of one (1) year from date of shipment. BlueTouch Support contracts available for 24/7 software support with options for hardware support.
GOV'T CERTIFICATIONS	For further government certification information please contact Federal_Certifications@bluecoat.com
MORE INFO	Contact regulatoryinfo@bluecoat.com for specific regulatory compliance certification questions and support

MACH5 S500 SERIES	S500-10	S500-20
RECOMMENDED CAPACITY		
Throughput	622Mbps	1250Mbps
Connections	75K	150K
SYSTEM		
Disk Drives	8x1TB SAS	16x1TB SAS
RAM	64GB	128GB
Onboard Ports	(2) 10Gb Base-T Copper ports (with bypass) (2) 10Gb Base-T Copper ports (non-bypass) (1) 1000Base-T Copper, System Management Port (1) 1000Base-T Copper, BMC Management Port	
Optional NICs	4x1000Base-T (Copper with bypass capability) 2x10Gb Base-T Copper (with bypass capability) 2x10Gb Base-T Copper (non-bypass) 4x1000Base-F (Fiber-SX with bypass capability) 2x10Gb Fiber (SR with bypass capability) 2x10Gb Fiber (LR with bypass capability)	

PHYSICAL PROPERTIES

DIMENSIONS AND WEIGHT	
Dimensions	710mm x 433.3mm x 87.2mm (27.95in x17.05in x 3.43in) (chassis only) 812.8mm x 433.4mm x 87.2mm (32in x 17.06in x 3.43in) (chassis with extensions) 2 RU height
Weight (maximum)	Approx. 30kg (66.12 lbs) +/- 5%

OPERATING ENVIRONMENT	
Power	Dual redundant and hot swappable power supplies, AC power 100-240V, 50-60Hz, 12-5A (DC power available)
Maximum Power	1100 Watts
Thermal Rating	Typical 2598.42 BTU/Hr, Max 3751 BTU/Hr
Temperature	5°C to 40°C (41°F to 104°F) at sea level
Humidity	20 to 80% relative humidity, non-condensing
Altitude	Up to 3048m (10,000ft)