WAN OPTIMIZATION FOR A SUPERIOR USER EXPERIENCE

Blue Coat MACH5 delivers the flexibility, power and speed you need for today’s business critical applications. By combining specialized optimization features, including protocol acceleration, compression, caching and QoS, MACH5 dramatically improves the performance of file transfers, backups, email, databases, video, and cloud applications. And MACH5 is uniquely able to deliver this performance across an IPv4 or IPv6 environment. MACH5 deploys at the network core and at the branch to assure every user, everywhere experiences the application performance they expect.

FEATURES

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
- 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
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**Recommended Capacity**
- **Throughput**: 2Mbps (300-5), 2Mbps (300-10), 6Mbps (300-25), 6Mbps (600-10), 12Mbps (600-20), 25Mbps (600-35)
- **Connections**: 50 (300-5), 500 (300-10), 1,000 (300-25), 2,000 (600-10), 4,000 (600-20), 6,000 (600-35)

**System**
- **Disk Drives**: 1x250GB SATA (300-5), 1x250GB SATA (300-10), 1x250GB SATA (300-25), 2x250GB SATA (600-10), 2x250GB SATA (600-20), 2x250GB SATA (600-35)
- **RAM**: 2GB RAM (300-5), 2GB RAM (300-10), 4GB RAM (300-25), 4GB RAM (600-10), 4GB RAM (600-20), 8GB RAM (600-35)
- **Network Interfaces**: 12 integrated 100 Base-T NICS with bypass, SSL Card (not supported on 300-5), 1 integrated 1000 Base-T port for Mgmt
- **Network Interfaces (2)**: integrated 1000 Base-T NICS with bypass, (1) integrated 1000 Base-T port for Mgmt, SSL Card

**Physical Properties**
- **Enclosure**: Desk or rack mount (standard rack shelf required for rack mounting)
- **Dimensions (LxWxH)**: 24.4cm x 21.1cm x 4.14cm (10.6in x 8.3in x 1.63in), 27.1cm x 21.1cm x 4.4cm (10.7in x 8.3in x 1.63in)
- **Weight**: 2.6kg (5.7lb)
- **Power**: AC power 100-240V, 50-60Hz, 0.82A-0.32A

**Environmental**
- **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 3,048m (10,000ft)

**Regulation**
- **Emissions**: FCC Class A, EN55022 Class A, VCCI Class A, BSMI, CCC, C-tick, KCC
- **Safety**: UL 60950-1, EN60950-1, IEC 60950-1, CE Mark, TUV-GS, TUV-S, CCC, BSMI, GOST-R
- **Standards**: UL/CSA, TUV-S, BSMI, CCC, CE, C-tick, TUV
- **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 and options for hardware support.

**Certifications**
- For further certification information please contact Federal_Certifications@bluecoat.com

*limited to 10 concurrent users
*measurement of chassis only
*weight includes extensions (handles and ears)
*x2-port 1Gbps (SR-Fiber) card requires SGOS 6.2 and above
*For use as a data center concentrator box only, not currently supported for WAN Op branch deployment