Blue Coat SG510 Series

The foundation of Blue Coat's application delivery infrastructure, Blue Coat SG appliances establish points of control that accelerate and secure business applications for users across the distributed organization. As the worlds leading proxy appliance, the Blue Coat SG is a powerful yet flexible tool for improving both application performance and security, removing the need for compromise:

- **Performance** – Blue Coat's patented MACH[5] acceleration technology combines five different capabilities onto one box. Together they optimize application performance and help ensure delivery of critical applications. User and application fluent, MACH[5] improves the user experience no matter where the application is located, internally or externally on the Internet.

- **Security** – Blue Coat's industry leading security architecture addresses a wide range of requirements, including filtering web content, preventing spyware and other malicious mobile code, scanning for viruses, inspecting encrypted SSL traffic, and controlling IM, VoIP, P2P, and streaming traffic.

- **Control** – Blue Coat's patented Policy Processing Engine empowers IT to make intelligent decisions. Using a wide range of attributes such as user, application, content and others, organizations can effectively align security and performance policies with corporate priorities.

The Blue Coat SG510 Series provides small enterprises and remote offices a 1U rack mount proxy appliance with secure remote administration features. The 510 series is purpose-built, providing flexible control with high-end performance with up to 2GB of memory and 600GB of disk capacity. Utilizing a custom, object-based OS with integrated caching for performance, organizations can advise, coach, enforce granular policies down to individual users.

Blue Coat SG Solutions:

Application Acceleration
Remove performance limitations caused by latency and bandwidth constraints using Blue Coat MACH[5] technology to optimize your wide area networks. MACH5 accelerates over a dozen protocols, including:

- HTTP and HTTPS web apps
- SSL (forward and reverse)
- CIFS File Sharing
- MMS & RSTP

Web Proxy
High-performance, scalable replacement for upgrading existing proxy servers. Supports the following protocols: HTTP, SSL (forward and reverse), FTP, MAPI, Telnet, SOCKS, P2P, IM (AOL, Yahoo, MSN), MMS & RTSP, and QuickTime

Content Security
Keep Malicious Mobile Code out of the Network and intellectual property in, by controlling peer-to-peer, file transfer and manage Web email traffic – even when it's SSL-encrypted.

Content Filtering
Integrated URL filtering gives IT staff control over access to inappropriate Web content – even when it is SSLencrypted. Support for major filtering vendors and custom categories with unmatched speed.

Instant Messaging Control
Method-level controls to manage and log all popular public IM formats including AOL, MSN and Yahoo!
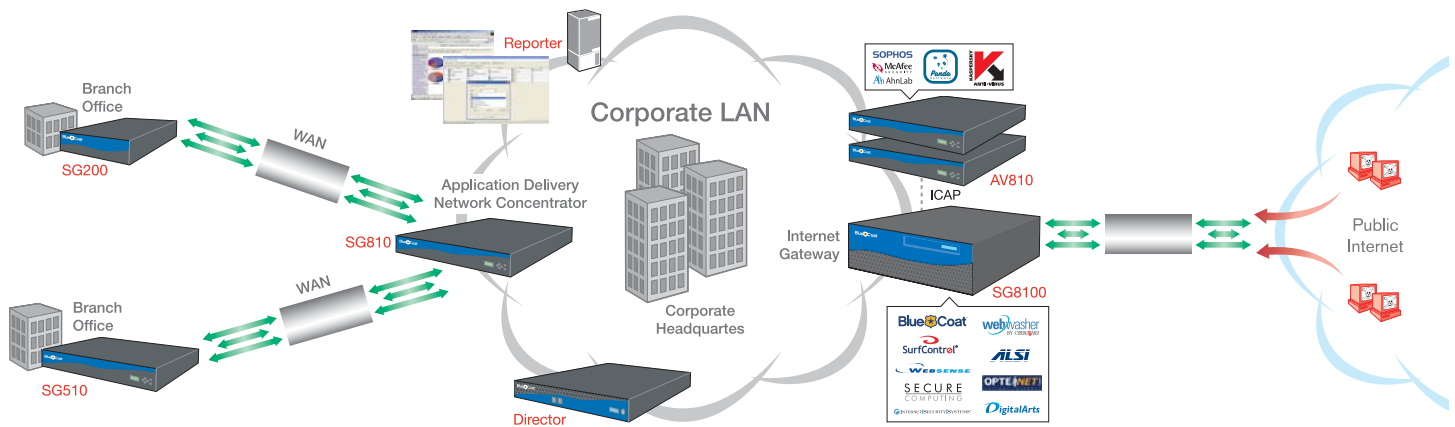
Web Virus Scanning
Integration with Blue Coat AV with a choice of virus engines allows scalable, real-time virus scanning of Web content – even when it's SSL encrypted.

And More...
See Blue Coat TechBriefs for additional Blue Coat SG application and control solutions:

www.bluecoat.com/resources

Branch Office
SG200
WAN
Reporter
Corporate LAN
Application Delivery Network Concentrator
SG810
Branch Office
SG510
WAN
Corporate Headquartes
Director
SOPHOS
McAfee
AhnLab
Panda
K KASPERSKY ANTI-VIRUS
AV810
ICAP
Internet Gateway
SG8100
Blue Coat
SurfControl
webwasher BY CYBERGUARD
ALSi
WEBSENSE
SECURE COMPUTING
OPTENET
INTERNET SECURITY SYSTEMS
DigitalArts
Public Internet

The SG200 series of appliances provides a cost-effective way to Optimize a T1 WAN link to headquarters, or secure a high-speed broadband link to the Internet

Acceleration — MACH⁵

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 to the 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.

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.

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.

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

MACH⁵ Acceleration Client
- SG Client software extends Mach⁵ acceleration capabilities to the desktop to improve the performance of applications and access to network file shares for remote users – such as mobile employees, telecommuters and small branch offices – connecting over VPNs or the WAN.

Control — Proxy Services

The Blue Coat SG provides a layered policy approach allowing companies to balance their communication needs with current business and Internet risks. The Blue Coat SG provides unmatched flexibility and scalability.

Proxy support for multiple protocols
- HTTP, CIFS, SSL, FTP, MAPI, Telnet, SOCKS, P2P, AOL IM, Yahoo IM, Microsoft IM, MMS, RTSP, QuickTime, TCP-Tunnel, DNS
- Bandwidth management on all proxy services
- SSL Termination & Proxy (forward and reverse)
- Extend all controls (content, user, application, etc) to encrypted traffic for all users and applications - both inside and outside the enterprise

Content Filtering and Security
- On-proxy support of leading URL lists, popular regional lists, custom lists, or custom categories
- Strip and replace Web content P2P file sharing controls
- Log and block P2P traffic
- Control BitTorrent, eDonkey, Gnutella, and FastTrack

Web virus scanning
- Blue Coat AV integration with Blue Coat SG
- Choice of anti-virus engines

IM Logging and Controls
- MSN, Yahoo!, AOL Messengers
- Method level control settings

Spyware Prevention and control
- Block spyware while allowing legitimate applications
- Control pop-ups and phishing scams

Streaming controls
- MS, Real, QuickTime
- Stream splitting & caching

Performance and Reliability — SGOS

The purpose-built Blue Coat SG appliance provides flexible control with wire-speed performance allowing a company to advise, coach and enforce granular policies down to individual users. Key SGOS and platform highlights include:

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, plus optional SSL off loading

Network functionality including:
- Active/Active bridging support using virtual IP addressing for failover and remote installations

- Routing configurations for gateway, route tables, RIP, DNS, and WCCP
- Health checks performed on a forwarding host or external servers to verify status and availability of device
- 19" Rack mountable (with kit) or portable use Integrated support services
- 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

The patent-pending Policy Processing Engine enables sophisticated security triggers based on individual users, groups of users, time of day, location, protocol, hostname user agent, content type and other attributes to initiate policy actions. These comprehensive capabilities include:

Authentication
- Utilize a company's existing authentication source for integrated SSO, including local password files, NTLM, LDAP (Active Directory, eDirectory, SunOne), CA eTrust SiteMinder, Microsoft Kerberos, Oracle Access Manager, RADIUS and certificates
- Multi-realm authentication sequencing
- Forms-based authentication support

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

Comprehensive policy definitions
- Graphical Visual Policy Manager with layered policy definitions
- Definable triggers and actions for policy definition

Content Policy Language (CPL)
- Create custom text-based policies to address unique policy requirements
- Built-in text editor for CPL allows sample code to be copied and pasted from Blue Coat TechBriefs or Support Services advisories

Extended Management with Director
- Distribute, backup, restore policy files for multiple Blue Coat SG appliances
- Manage policies by device, group, or region
- Job scheduling/job status reporting

Management and Control of SG Clients
- Configure, provision and maintain global deployment of SG Clients
- Control which applications are accelerated by user
- Upgrade client versions seamlessly with auto version detection and update

Visibility — Management Reporting

Visibility is the key to managing employee Web communications in the enterprise. Blue Coat provides the tools needed to log and track user interactions over the Internet and across corporate boundaries.

Default logging
- HTTP, HTTPS, CIFS, MAPI, FTP, Telnet, SOCKS, P2P, TCP-Tunnel, ICP, IM, 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
- IM data
- Streaming history
- Resources

SNMP Support
- Trap settings, community strings

Aggregate Blue Coat SG logs with Reporter
- Reporter Dashboard™ - intuitive console that provides a "drill-able" overview of web activity
- 150+ 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 Blue Coat SGs

Blue Coat Support Services

Blue Coat supports its products with an outstanding customer support program. All Blue Coat products come with a 90-day software and one-year hardware warranty. Support services include a WebPower password enabling access to the following:

- Online access to open technical support cases, review open cases, and add comments to existing cases
- Exclusive support documentation, installation notes, and FAQs
- Blue Coat Instant Support provides an online self-service portal for your technical needs, and our online TechBriefs review popular protocol and application solutions for a quick start on common configurations with Blue Coat SG.

Platinum Service: 24X7 Technical phone support, Advance hardware replacement*, software updates

* Hardware will be shipped same day when RMA Requests are received during regular business hours and deemed necessary by Technical Support before the RMA cut off time.

Blue Coat Training

Blue Coat provides educational services and technical training (basic to advanced) by certified and experienced Blue Coat SG trainers enabling administrators to become fully proficient on all aspects of the Blue Coat SG appliance. All courses are replete with real world examples and feature extensive hands-on lab exercises.

Each student will learn to install, configure and troubleshoot all features and functions of the . Please refer to the following Web link for training times, locations and cost:

www.bluecoat.com/resources/training

Blue Coat channel sales partners are also certified on Blue Coat SG to provide field services. Our partners attend Instructor-led courses as well as monthly online training on the latest Blue Coat SG features and solutions. Look for and ask about Blue Coat certifications.

Configuration & Specification Chart

	Model SG510-A	Model SG510-B	Model SG510-C	Model SG510-D
System				
Disk drives	1x80GB SATA	1x300GB SATA	2x80GB SATA	2x300GB SATA
RAM	1GB RAM	1GB RAM	2GB RAM	2GB RAM
Network Interface	(2) integrated (on board) 10/100/1000 Base-T NICs Optional 2x10/100/1000Base-T card (dual GigE with passthru) or 2x10/100/1000Base-SX (dual gigE Fibre) card. Optional SSL card			
Operating Environment				
Power	AC power 100-240V, 50-60Hz, 6.3-3.0A			
Maximum Power	150 Watts			
Thermal Rating	512 BTU/Hr			
Temperature	5°C to 35°C (41°F to 95°F)			
Humidity	Less than 90% relative humidity, non-condensing			
Altitude	Up to 3048m (10,000ft)			
Dimensions and Weight				
Enclosure	19" Rack-mountable			
Dimensions (L x W x H)	58 cm x 44 cm x 4.4 cm (22.8 in x 17.4 in x 1.7 in)			
Weight (maximum)	12.3 kg (27 lb)	12.3 kg (27lb)	12.7 kg (28 lb)	12.7 kg (28 lb)
Regulations				
Emissions	FCC Class A, EN55022 Class A, VCCI Class A No.1706609, BSMI, CCC, C-tick			
Safety	CSA C22.2 No. 950 M95, UL 60950 3rd Edition, EN60950, TUV-GS, TUV-S, CCC, BSMI			
Standards	UL/CSA, TUV-S, BSMI, Ctick, CCC, CE			
Support Standard warranty	90-day software & phone support with 1-year hardware support; extended and upgraded support plans available			

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