

Web-based solutions are being implemented for nearly every aspect of business operations, from public websites to mission-critical business applications. As a result, growing security concerns, sluggish performance, and increasing complexity are straining existing web server infrastructures. To secure and accelerate web applications and public websites, organizations turn to Blue Coat for reverse proxy deployments.

WHY PROXYSG FOR REVERSE PROXY DEPLOYMENTS?

Blue Coat ProxySG proxy appliances combine robust security, high-performance content delivery, and operational simplicity, allowing organizations to secure and accelerate their web applications and public websites.

Protects Web Servers – ProxySG securely isolates general-purpose servers from direct Internet access, acting as an intermediary between web applications and the external clients who attempt to access them. ProxySG provides robust authentication and policy support and can either challenge users or transparently check authentication credentials using an organization's existing security framework. For high-performance, low-latency virus scanning of all uploaded content to web servers, ProxySG integrates with ProxyAV and offers a choice of leading anti-virus engines. To ensure confidentiality, ProxySG can be configured to encrypt communications between users and web applications using Secure Sockets Layer (SSL).

Accelerates Web Content – At the heart of the ProxySG for Reverse Proxy solution is SGOS, a secure, object-based operating system specifically designed to handle web content. SGOS combines patented proxy caching technology with an optimized TCP stack for efficient web content acceleration. SGOS's intelligent use of its integrated cache allows 60-90% of an application's web objects to be cached and served directly to users, further enhancing site performance and scalability. In addition, optional SSL services provide hardware-accelerated key negotiation, encryption, and decryption support.

Simplifies Operations – An integrated, optimized appliance that combines proxy software and hardware, ProxySG is easy to install, configure, and maintain. The ProxySG's Visual Policy Manager (VPM) provides an intuitive, graphical interface to define and manage a wide

range of policy rules. Comprehensive logging and reporting provide detailed accounting information, giving administrators the visibility necessary to assess web usage patterns and track security issues.

ProxySG Reverse Proxy enables organizations to:

- Accelerate delivery of web applications and content through a proxy architecture with integrated caching
- Protect web infrastructure by isolating origin servers from direct Internet access
- Secure external user access to web applications, such as web e-mail, extranets, and public websites, by acting as an SSL termination / origination point
- Save time and money by reducing the number of web servers required
- Implement granular access policies based on users, groups, time of day, location, network address, user agent, and other attributes to meet unique business requirements
- Authenticate clients using existing security framework, including local password files, NTLM, LDAP, RADIUS, one-time passwords, and certificates
- Safeguard their web infrastructure from viruses, worms, and Trojans with real-time AV scanning of all uploaded content
- Deliver high-performance streaming media to thousands of simultaneous users with streaming proxies

ProxySG appliances are easily configured for reverse proxy mode and tuned for the workload of high traffic websites. IT administrators can use ProxySG to efficiently scale their web farms to address flash or

peak periods of traffic, leveraging advanced features, such as content acceleration, compression, protection against Denial-of-Service attacks, and optional stream splitting and caching.

Administrators can also use ProxySG to implement a scalable and secured web portal by front-ending web applications such as corporate web e-mail (e.g., Outlook Web Access, Lotus Notes WebMail, Novell Groupwise WebAccess) and web-based business applications (e.g., Siebel, Oracle, SAP).

For added security, ProxySG can originate and terminate SSL-encrypted sessions between web applications and users. This allows organizations to secure actions such as authentication and message review on both sides of the data stream.

To prevent subsequent users to a particular kiosk or workstation from accessing a previous user's account, ProxySG can be configured to erase cached authentication cookies. For added protection, the ProxySG for Reverse Proxy solution can be configured to automatically time out after a specified period of inactivity, enabling administrators to strengthen secure access from public networks.

Blue Coat ProxySG is the leading proxy appliance for securing and accelerating web applications and public websites. ProxySG for Reverse Proxy integrates robust web server protection and accelerated web content delivery in a scalable, centralized proxy architecture that simplifies operations while significantly enhancing network performance.

Key Features and Benefits

Protects Web Servers

- Securely isolates general-purpose servers from direct Internet access
- Built on SGOS, a secure object-based operating system specifically designed to handle web content
- Controls user access with robust authentication and policy rules
- Intelligent OS distinguishes between valid and malicious connections to service legitimate users while resisting DoS attacks

Accelerates Web Content

- Optimized TCP stack rapidly serves large amounts of static and dynamic web content
- Intelligent cache allows 60-90% of an application's web objects to be cached and served directly to users
- HTTP compression reduces required bandwidth, conserves CPU resources, and delivers previously compressed pages faster
- Optional hardware-accelerated SSL processes up to 800 key negotiations per second per card
- Optional streaming proxies provide stream splitting and caching to deliver high-performance streams to thousands of simultaneous users

Simplifies Operations

- "Set and forget" proxy appliance is easy to deploy and manage
- Integrated appliance eliminates need to install applications or OS patches
- Scalable solution reduces number of web servers required
- Intuitive graphical interface simplifies policy rule creation and management
- Comprehensive logging and reporting provide visibility into web usage patterns and security issues

See Blue Coat white papers for additional application and control solutions with ProxySG; www.bluecoat.com/products/web-application-reverse-proxy

