



## Product Brief

### Problem

With the increasing threat landscape it's more important than ever to protect, secure and accelerate web applications and websites.

### Solution

Reverse Proxy

### Benefits

- Reverse proxy architecture
- Robust authentication and policy
- Available upgrade to full Web Application Firewall
- Integration with advanced threat protections
- Simplifies operations by reducing web servers
- Secure external access

# Symantec® Reverse Proxy

## Secure and Accelerate Web Applications and Web Sites

### Overview

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 Symantec for reverse proxy deployments.

### Why Symantec for Reverse Proxy Deployments?

Symantec Reverse 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

Symantec Reverse Proxy 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. Reverse Proxy 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, Reverse Proxy integrates with Symantec Content Analysis engine and offers a choice of leading anti-virus engines. To ensure confidentiality, Reverse Proxy can be configured to encrypt communications between users and web applications using SSL/TLS.

#### Accelerates Web Content

At the heart of the 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 to 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, Reverse Proxy is easy to install, configure, and maintain. The Reverse Proxy 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.

### Key Benefits

- 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 anti-malware scanning of all uploaded content
- Deliver high-performance streaming media to thousands of simultaneous users with streaming proxies
- Symantec Reverse Proxy protection is available as an appliance or virtual appliance and can be upgraded to full Web Application Firewall functionality, including OWASP Top 10 coverage, with a subscription license upgrade

### Unmatched Performance and Reliability

- IT administrators can use Reverse Proxy 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 Reverse Proxy to implement a scalable and secured web portal by front-ending web applications such as corporate web e-mail (Outlook Web Access, Lotus Notes WebMail, Novell Groupwise WebAccess, as examples) and web-based business applications (Siebel, Oracle, SAP, as examples).
- For added security, Symantec Reverse Proxy 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, Reverse Proxy can be configured to erase cached authentication cookies. For added protection, the 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.
- Reverse Proxy is built on the market leading Edge Proxy for securing and accelerating web applications and public websites. 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.

### Editions

Reverse Proxy is available in Standard and Advanced Editions. Advanced adds ICAP (required for integration with Content Analysis), content filtering and additional authentication capabilities. Reverse Proxy, both Standard and Advanced, are also available as a virtual appliance.

### Reverse Proxy Environment

