

Symantec Secure Access Service Edge (SASE) Portfolio

Comparison to Gartner SASE Framework

EXECUTIVE SUMMARY

The growing reliance of businesses large and small on cloud infrastructure has, naturally, focused attention on the security of that infrastructure. To reflect this new focus, industry analysts at Gartner coined the term SASE, Secure Access Service Edge, and defined the key elements covered by the Gartner SASE framework which is broken down into two areas: WAN edge services and cloud-hosted security services which Gartner calls the Security Services Edge (SSE).

Broadcom commissioned Tolly to examine its portfolio of Symantec web security solutions and document how they encompass the SASE elements as defined by Gartner.* Broadcom's security components can work with any SD-WAN solution.

The Tolly analysis shows that the Symantec web security portfolio provides solutions within each of Gartner's SASE categories and provides services beyond the Gartner main components. See Table 1 for a summary. The body of this paper will explore each area in turn.

THE BOTTOM LINE

Symantec SASE provides:

- 1 Long-standing prominence in the network security space
- 2 All elements outlined in the Gartner framework
- 3 Additional data awareness capabilities beyond the Gartner framework
- 4 Open solution that works with any SD-WAN vendor

SASE Analysis Symantec Solutions Compared with Gartner Framework

Gartner Framework Component	Functional Area	Symantec Solution
Secure Web Gateway	Secure Web Gateway	Symantec Web Protection
	URL Threat Prevention & Classification	Symantec Web Protection
	Advanced Content Analysis (Malware sandboxing)	Symantec Web Protection
CASB	Cloud Application Security Broker (CASB)	Symantec DLP Cloud
ZTNA/VPN	Zero Trust Network Access	Symantec ZTNA (formerly Secure Access Cloud)
FWaaS	Cloud Firewall	Symantec Web Protection
Remote Browser Isolation	Remote Browser Isolation	Symantec Web Protection
Decryption	SSL Inspection	Symantec Web Protection
Symantec Additional Capabilities Beyond Gartner Framework:		
Sensitive Data Awareness	Data Loss Prevention (DLP)	Symantec DLP Cloud

Source: Tolly July 2022

Table 1

*Note: Tolly is not affiliated with Gartner and is referencing the public Gartner SASE Framework. No Gartner endorsement is implied.



Secure Web Gateway

The Secure Web Gateway (SWG, pronounced “swig”) is the core element of SSE and consists of multiple sub-components. As the name implies, it is the primary point where internal, corporate users’ traffic transits to the internet. The SWG is the proxy between end-users and internet resources.

Gartner defines two additional categories within SWG - URL Threat Prevention, and Advanced Content Analysis (Malware sandboxing). Symantec Web Protection¹ implements all of the Gartner-defined elements and more. The first is the primary SWG function that acts as an intercept point for all inbound and outbound traffic.

The Symantec SWG solution provides the core web proxy as well as additional functionality. Broadly stated, Broadcom notes the solution’s role is to “identify malicious websites and payloads and to control access to sensitive content. ... a broad feature-set to authenticate users, filter web traffic, identify cloud application usage, provide data loss prevention, deliver threat prevention, and ensure visibility into encrypted traffic.” To provide flexibility to customers it can be deployed in a traditional, on-prem installation or be accessed via the cloud. Symantec Universal Policy Enforcement provides support for both on-prem and cloud, enabling seamless management or migrations. Symantec gathers threat intelligence from

all managed endpoint and integrates it into Symantec’s Global Information Network.

URL Threat Prevention & Classification

This feature is provided by the Symantec Web Protection solution. Protection is provided in real time. Symantec web filtering categorizes URLs into some 80 categories that include 12 different security categories. Symantec notes that this categorization makes the system easily managed by security and IT admins. The very granular policy control allows organizations to implement web filtering policies that are most appropriate for their organizations.

Symantec SASE Solution Highlights

Functional Area	Symantec Solution	Summary/Key Features
Secure Web Gateway	Symantec Web Protection	Core SASE security element. Proxy between users and internet, filter web traffic.
URL Threat Prevention & Classification	Symantec Web Protection	Leverages Symantec Global Information Network to classify URLs and block malicious traffic.
Advanced Content Analysis	Symantec Web Protection	Provides multi-layer file analysis and isolated sandbox analysis of potentially malicious attachments to provide full protection for end user devices.
Cloud Application Security Broker (CASB)	Symantec CloudSOC CASB	Recognizes over 45,000 different applications. Bundled with Symantec DLP cloud.
Zero Trust Network Access	Symantec ZTNA (formerly Secure Access Cloud)	VPN replacement technology. Integrated with multi-factor authentication.
Cloud Firewall	Symantec Web Protection	Full traditional firewall services integrated into cloud platform.
Remote Browser Isolation	Symantec Web Isolation	Full protection for end-user devices by remote execution of web browser, only browser output sent to end device.
Decryption	SSL Inspection	Enhance security by inspecting encrypted traffic. Tap support can feed decrypted traffic to multiple tools.
Beyond Gartner Framework		
Data Loss Prevention (DLP)	Symantec DLP Cloud	Symantec DLP enables a consistent data protection policy across SWG, CASB, ZTNA and Endpoint control points.

Source: Tolly July 2022

Table 2

¹ Table 3 contains web links to each Symantec product referenced in this report where more information can be found.



Advanced Content Analysis

This feature is provided by the Symantec Web Protection solution. Not every threat can be identified via a “fingerprint” or by referencing a list of malware files. Advanced detection often requires that files be subjected to a more detailed, multi-layer analysis.

Symantec provides content analysis and cloud-based sandboxing. This is important because this protects end-users from potentially malicious content. By “sandboxing” the content - isolating the content outside the user’s environment - there is no possibility that malware can penetrate or infect the end-user’s device. File attachments, for example, can be opened and examined before being allowed in to the end user’s device, thus providing enhanced security.

CASB

This function is provided by Symantec CloudSOC CASB and is frequently deployed in conjunction with Symantec Data Loss Prevention.

CloudSOC CASB is an essential tool for maintaining security of cloud data. Symantec notes that CloudSOC CASB can recognize over 45,000 different cloud apps and provides deep visibility across apps, email, and web traffic. It provides for logging access to cloud resources which is a mandatory function for environments where access needs to be audited. The solution also provides for automated alerts and policy-defined responses for administrator and system-defined situations.

The solution integrates tightly with the DLP function, discussed below.

ZTNA

This function is provided by Symantec ZTNA.

ZTNA functions as a VPN replacement technology and offers simple deployment as it does not require agents or appliances.

Symantec ZTNA can be deployed in a variety of infrastructures including private cloud, AWS, Microsoft Azure, and Google Cloud Platform.

It can integrate easily with multi-factor authentication and corporate identity provider (IdP) components. Furthermore, Symantec ZTNA can demonstrate compliance with a globally distributed and certified service, such as ISO 27001 or SOC 2 Type II, among others.

FWaaS

Cloud firewall is delivered as part of Symantec Web Protection. The service can be used to define firewall policies to control all TCP or UDP traffic based on IP addresses, destination ports, locations, users and groups.

The service provides traditional firewall services such as enforcing acceptable network use policy on roaming endpoints or restricting use of administrative tools that use protocols such as SSH.

The configuration of policies and the reporting on usage and site blocking are integrated into a single administration control panel along with the other Symantec Web Protection functions.

Remote Browser Isolation

Symantec offers full Remote Browser Isolation (RBI), but also includes High Risk

Isolation (HRI) as a component of Symantec Web Protection.

Certain websites might be in the gray area between “allow” and “block.” The user might need to see the content but there can still be a risk that it is a malicious site and/or will try to load unwanted code into the user’s browser or operating system environment.

When Symantec evaluates a website, it sets a risk level of 1 to 10 for each URL. Any sites evaluated to be a risk level 5 or higher are processed by HRI.

In such cases, the web content is executed remotely (i.e., not in the user’s machine) and only safe, rendered content is sent to be displayed on the user’s device. For additional protection, security administrators can mark certain sites as “read-only” - thus prohibiting any data entry into potentially harmful sites.

Decryption/SSL Inspection

Symantec provides encryption/decryption (encrypted traffic management) via Symantec Web Protection.

Within the bounds of privacy regulations, this feature allows the security admin to identify SSL/TLS (i.e., encrypted) traffic no matter what IP port it is using and no matter the application.

Selective decryption can be used for situations where privacy regulations prohibit global decryption.

Using Symantec Encrypted Tap administrators determine decryption policies and the decrypted traffic to be fed to multiple third-party monitoring and/or logging systems for further analysis and/or archival.



Sensitive Data Awareness (DLP)

This function is provided by Symantec DLP and is deployed in conjunction with Symantec CloudSOC CASB.

Symantec DLP Cloud is integrated with CloudSOC CASB to find sensitive data at rest or in motion. User behavior and application risk levels are used when determining data access rights and applying protection controls.

Importantly, Symantec DLP can enforce access policies and provides ready-made templates and policies that cover PII, PCI, and HIPAA. In addition, security admins can build custom policies for requirements unique to the organization.

Symantec SASE Solutions Web Links

Category	Functional Area	Symantec Solution	URL Reference
Secure Web Gateway	Secure Web Gateway	Symantec Web Protection	https://www.broadcom.com/products/cyber-security/network/web-protection/cloud-secure-web-gateway
	URL Threat Prevention & Classification	Symantec Web Protection	https://symantec-enterprise-blogs.security.com/blogs/product-insights/introducing-symantec-web-protection-suite
	Advanced Content Analysis	Symantec Web Protection	https://www.broadcom.com/products/cybersecurity/network/web-protection/atp-content-malware-analysis
CASB	Cloud Application Security Broker (CASB)	Symantec CloudSOC CASB (Bundled with Symantec DLP Cloud)	https://www.broadcom.com/products/cybersecurity/information-protection/cloud-application-security-cloudsoc
ZTNA/VPN	Zero Trust Network Access	Symantec ZTNA (formerly Secure Access Cloud)	https://www.broadcom.com/products/cyber-security/network/web-protection/secure-access-cloud
FWaaS	Cloud Firewall	Symantec Web Protection	https://techdocs.broadcom.com/us/en/symantec-security-software/web-and-network-security/web-security-service/help/wss-cfs/cfs-about.html
Remote Browser Isolation	Remote Browser Isolation	Symantec Web Protection	https://www.broadcom.com/products/cyber-security/network/web-protection/web-isolation
Encryption/Decryption	Encryption/Decryption	Symantec Web Protection	https://www.broadcom.com/products/cyber-security/network/encrypted-traffic-management
Symantec Additional Capabilities:			
Sensitive Data Awareness	Data Loss Prevention (DLP)	Symantec DLP Cloud (includes Symantec CloudSOC CASB)	https://www.broadcom.com/products/cyber-security/information-protection/data-loss-prevention

Source: Tolly July 2022

Table 3



About Tolly

The Tolly Group companies have been delivering world-class IT services for more than 30 years. Tolly is a leading global provider of third-party validation services for vendors of IT products, components and services.

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