Symantec Technology Integration Partner: Venafi

Business Challenge

Cybercriminals are utilizing encryption to attack organizations at an ever-increasing rate. SSL/TLS is being turned against enterprises to deliver malware undetected, to listen in on private conversations, to disrupt secured transactions, and to exfiltrate data over encrypted communication channels. Most organizations lack the ability to inspect and decrypt SSL communications to assess these threats. This blind spot undermines traditional layered defenses and creates an unacceptable risk of information breach and data loss. With an increasing number of applications using SSL encryption to protect customer privacy and secure intellectual property, the ability to quickly and accurately monitor large numbers of encrypted communications channels and detect threats is imperative.

Solution: Symantec SSL Visibility and Venafi Trust Protection Platform

The Symantec SSL Visibility inspects and decrypts SSL traffic for threat analysis. Integrating with the Venafi Trust Protection Platform enhances the amount of SSL traffic that can be inspected and decrypted to eliminate blind spots from encrypted threats, enhance anomaly detection, improve speed and accuracy, and ensure strong security policy adherence. The Trust Protection Platform ensures SSL Visibility has automatic, secure access to the greatest number of enterprise keys and certificates. This combined solution from Symantec and Venafi dramatically combats new threats and strengthens layered defenses in several ways:

- Enhances the amount of network traffic that can be inspected and decrypted to detect attacks

- Protects keys and certificates from being misused by cybercriminals

- Strengthens layered security defenses by eliminating blind spots from encrypted traffic

- Increases the level of visibility and threat detection by reducing the burden on administrators

Symantec SSL Visibility

SSL Visibility is a powerful, purpose-built solution that decrypts incoming or outgoing SSL traffic and provides that content to multiple security appliances such as next-generation firewalls (NGFWs), intrusion detection and prevention systems (IDS/IPS), data loss prevention (DLP) solutions, and Security Analytics based on defined policies for further processing and analysis. This provides IT security teams with the necessary visibility and control of all SSL-encrypted traffic entering and exiting their organization.

Once traffic is inspected and assured based on the established policies, SSL Visibility re-encrypts the data before sending it to its final destination. The Symantec appliance empowers existing security tools with visibility into formerly hidden traffic and potential threats without hindering device or network performance, thus extending the existing investment in the security infrastructure. Symantec's comprehensive SSL inspection capabilities are easy to add to any network security infrastructure so administrators can plug the security holes created by SSL.

Partner: Venafi, Inc.

Partner Product: Trust Protection Platform

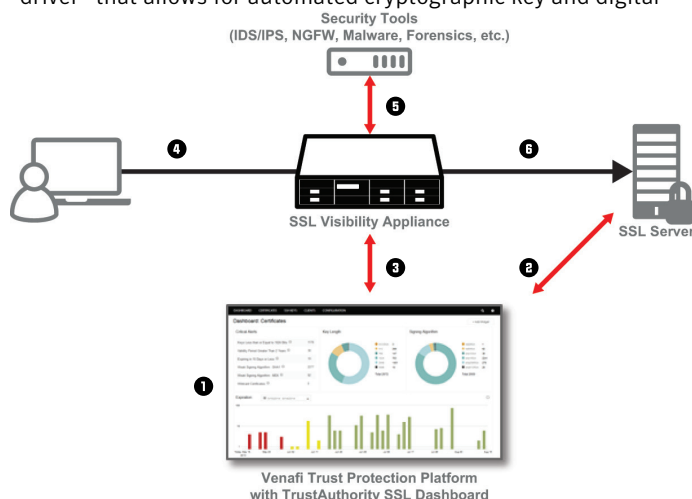**Symantec Product:** SSL Visibility

Venafi Trust Protection Platform

The Venafi Trust Protection Platform secures and protects the trust established by keys and certificates so it cannot be misused by cybercriminals. The platform works to eliminate the blind spots from encrypted threats by safely delivering trusted keys for SSL decryption and threat protection. The Venafi platform detects new key and certificate vulnerabilities and quickly remediates them to eliminate threats. Deployed as Venafi TrustAuthority and Venafi TrustForce, the Venafi platform provides native integration with thousands of applications and common APIs, providing an extensive security ecosystem within a single interface that quickly identifies and remediates key and certificate vulnerabilities.

How it Works

The integration consists of a Venafi Trust Protection Platform "driver" that allows for automated cryptographic key and digital

Venafi Trust Protection Platform
with TrustAuthority SSL Dashboard

1. Security policy is set within Venafi TrustAuthority, including key length, encryption algorithm, and expiration date.

2. Venafi TrustForce securely delivers a digital certificate and encryption key to the SSL Server.

3. The Venafi Platform ensures encryption keys and digital certificates stored in SSL Visibility are current, valid, and conform to applicable security policy. Any changes in keys and certificates are automatically updated by Venafi TrustForce in the SSL Visibility.

4. SSL session established between end user and SSL Server.

5. The SSL session is inspected by SSL Visibility allowing clear text to be forwarded to security tools.

6. Safe and confidential traffic flows between the end user and SSL Servers.

certificate provisioning and replacement within the Symantec SSL Visibility. Upon successful provisioning, the valid keys and certificates are automatically added to the secure key store within SSL Visibility, allowing them to be used by the device to inspect SSL flows subject to the policy rules configured in the device. This allows for new keys and certificates to be rapidly deployed with strong authentication ensured, then rotated regularly, and replaced as needed quickly in the event of a system compromise.

Key Benefits

Helps meet compliance requirements

Gaining visibility into new cyber threats posed by SSL is critical to security program effectiveness and meeting data governance requirements. SSL Visibility can exclude regulated data streams from inspection to protect privacy and accommodate regulatory requirements such as HIPAA, PCI, FISMA and SOX.

Best-in-class Encrypted Traffic Management solution

Encrypted Traffic Management (ETM) is becoming essential for enterprises to manage potential threats hiding within SSL traffic. Together, Symantec SSL Visibility and the Venafi Trust Protection Platform provide a best-in-class enterprise ETM solution to help counteract this large and growing problem.

Strengthens overall security defenses

Eliminating blind spots from encrypted traffic, while securing and protecting the associated encryption keys and digital certificates, strengthens all other downstream security controls. Most common layered security defenses – including next-generation firewalls, intrusion detection and prevention systems, data loss prevention systems, malware analysis systems, and security analytics systems – are blind to encrypted traffic. This undermines layered security defenses. Using the Symantec appliance with Venafi Trust Protection Platform strengthens layered security defenses and protects against trust-based attacks.

Maximize visibility into SSL threats

Automatic, secure delivery of keys and certificates enhances the amount of inbound encrypted traffic that can be inspected and decrypted by SSL Visibility as needed to provide clear-text visibility to other data protection solutions and minimize security blind spots. The Venafi Platform improves visibility by automatically discovering keys and certificates across networks.

Secure and protect trust established by keys and certificates

The integrated solution makes it possible to automatically discover, deploy and replace encryption keys and digital certificates as needed with strong signing algorithms on SSL Visibility that conform to enterprise security policies to secure and protect critical encryption assets against cyber attacks.

Conclusion

SSL encrypted traffic is pervasive in today's enterprises and is expected to grow rapidly over the next several years. While protecting customer privacy and intellectual property, SSL also presents a blind spot for current security tools and applications. Malware and advanced threats increasingly use SSL to evade detection, undermining layered security defenses. Organizations must effectively address this dilemma to reduce risk and avoid breached customer privacy, intellectual property theft, and reputation damage. By joining together, Venafi and Symantec provide enhanced threat detection and eliminate blind spots from the growing number of SSL-enabled applications.

About Venafi

Venafi is the market leading cybersecurity company in Next-Generation Trust Protection. Venafi delivered the first trust protection platform to secure cryptographic keys and digital certificates that every business and government depend on for secure communications, commerce, computing, and mobility. Venafi customers are among the world's most demanding, security-conscious organizations. Venafi TrustAuthority identifies key and certificate vulnerabilities, enforces corporate policies, and monitors for anomalies. It secures and protects keys and certificates, establishing a well-regulated, visible state that easily detects changes. Venafi TrustForce automates responses to trust-based attacks and remediates vulnerabilities before they cause problems. It secures and protects the entire key and certificate lifecycle, automatically curing anomalies by replacing vulnerable trust assets before attackers can compromise them.

For More Information

Learn more about Symantec Technology Integration Partners on our website.

About Symantec

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