nCipher
AN ENTRUST DATACARD COMPANY

www.ncipher.com

Scalable, automatic visibility and management of SSL/TLS traffic

- Enhance data privacy compliance with policy-based selective decryption using whitelists, blacklists and URL categories
- Fully integrated with nCipher nShield Connect Hardware Security Module to ensure secure, efficient key storage
- Expose hidden threats, malware, and data exfiltration, with support for modern cryptographic applications
- Enhance security tools by centralizing SSL/TLS decryption and re-encryption – creating a "decryption zone"
- Scale by decrypting once and delivering traffic to multiple inline and out-of-band tools simultaneously
- Increase performance with additional GigaSMART® modules

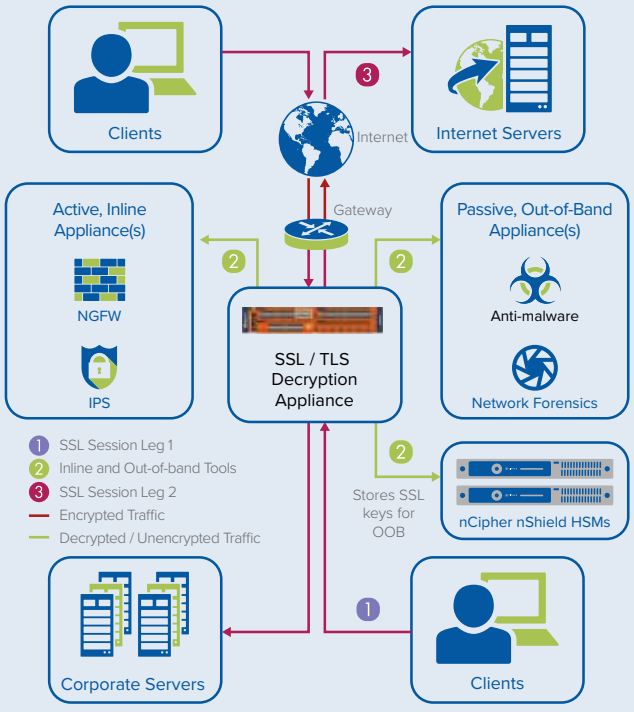
Gigamon GigaSMART and nCipher nShield: efficient and cost effective web security

THE PROBLEM: MALWARE COULD BE HIDING AND INVISIBLE

Email, e-commerce, voice-over-IP (VoIP), online banking, file storage and countless other applications are secured with Secure Sockets Layer (SSL) and Transport Layer Security (TLS) encryption. The very technology that makes the Internet secure can become a significant threat vector by hiding malware and hindering network visibility. Enterprises need a way to ensure their security tools can inspect everything flowing into and over their networks.

THE CHALLENGE: TRADITIONAL APPROACHES TO DECRYPTION CAN BE COSTLY

Enterprises commonly have two options when decrypting traffic. They can license decryption on each security tool, thus increasing both cost and the delay caused by multiple decrypt/encrypt cycles. Alternatively, they can decrypt with a standalone SSL tool and use a packet broker to distribute the decrypted traffic to the tools before routing it back to the SSL tool for re-encryption. By embedding purpose-built decryption capabilities as an option within its next generation packet broker, Gigamon provides a better solution.



Gigamon and nCipher secure SSL traffic

THE SOLUTION: GIGAMON GIGASMART AND NCIPHER SECURITY nSHIELD HARDWARE SECURITY MODULES

GigaSMART SSL/TLS Decryption enables NetOps and InfoSec teams to obtain automatic visibility into SSL traffic regardless of TCP port or application. As an integral feature within the Gigamon Visibility and Analytics Fabric (VAF) – a next generation network packet broker solution – customers can easily share this decrypted traffic to monitor application performance, analyze usage patterns and secure their networks against data breaches and hidden malware in encrypted networks.

- Improve analytics efficiency. By decrypting once, and then efficiently distributing the traffic to any tool that needs to inspect it, customers minimize latency and expense while ensuring the security of their enterprise.
- Scale as your needs increase. One instance of SSL/TLS Decryption in a Gigamon cluster is sufficient for any traffic in that node to take advantage of the functionality. Increase SSL/TLS decryption throughput by adding more GigaSMART modules.
- Help protect data privacy and compliance. Selectively decrypt traffic based on your own policies using a variety of parameters to help ensure that sensitive data remains encrypted.
- Simplify your auditing process. In out-of-band mode, decrypted traffic can have fields and content masked within the payload to hide them from identification. Payloads can also be sliced to obfuscate or remove irrelevant, private, or sensitive data so it is never forwarded, read, or analyzed in its decrypted form.
- Increase the resiliency of your security and monitoring capability. In the event of a tool failure, traffic can be redistributed to the remaining healthy tools.
- Strengthen your organization's security posture. Validate server certificates against certificate trust stores and check for invalid certificates with Certificate Revocation Lists (CRL) and the Online Certificate Status Protocol (OCSP).
- Limit visibility of your organization's keys. Integration with the nCipher nShield Connect HSM allows for secure use and storage of encryption keys, even while in use by the Gigamon VAF.

WHY USE NCIHPER NSHIELD HSM WITH GIGAMON VAF?

Store your decryption keys centrally and securely. The GigaSMART out-of-band decryption capability can access SSL decryption keys that your organization has stored centrally in an nCipher HSM removing the need to load your private keys into the Gigamon devices.

NCIPHER SECURITY - AN ENTRUST DATACARD COMPANY

nCipher Security, an Entrust Datacard company, is a leader in the general purpose hardware security module (HSM) market, empowering world-leading organizations by delivering trust, integrity and control to their business critical information and applications.

Our cryptographic solutions secure emerging technologies – cloud, IoT, blockchain, digital payments – and help meet new compliance mandates, using the same proven technology that global organizations depend on today to protect against threats to their sensitive data, network communications and enterprise infrastructure. We deliver trust for your business critical applications, ensuring the integrity of your data and putting you in complete control – today, tomorrow, at all times.

GIGAMON

Gigamon is leading the convergence of network and security operations to reduce complexity and increase efficiency of the security stack. The Gigamon Visibility and Analytics Fabric is a next generation network packet broker purpose-built for network performance monitoring and security. The Gigamon VAF helps organizations make threats more visible – across cloud, hybrid and on-premises environments, deploy resources faster and maximize the performance of monitoring and security tools. Global 2000 companies and government agencies rely on Gigamon solutions to stop tool sprawl and save costs.

For more detailed technical specifications, please visit www.ncipher.com or www.gigamon.com

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