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# Gigamon GigaSMART and Entrust nShield HSM: efficient and cost effective web security

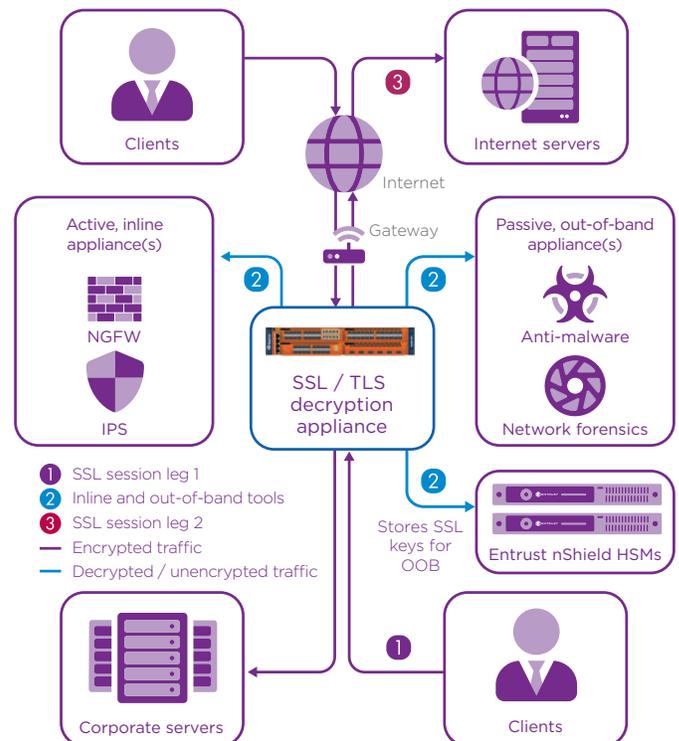
Gigamon®

Scalable, automatic visibility and management of SSL/TLS traffic

## HIGHLIGHTS

- Enhance data privacy compliance with policy-based selective decryption using whitelists, blacklists and URL categories
- Fully integrated with Entrust nShield® Connect hardware security modules (HSMs) to ensure secure, efficient key storage
- Expose hidden threats, malware, and data exfiltration, with support for modern cryptographic applications
- Enhance security tools by centralizing secure sockets layer/transport layer security (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

SSL/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 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

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# Gigamon and Entrust secure SSL traffic

## 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.

## The solution: Gigamon GigaSMART and Entrust 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 Entrust nShield Connect HSM allows for secure use and storage of encryption keys, even while in use by the Gigamon VAF.



# Gigamon and Entrust secure SSL traffic

## Why use 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 Entrust HSM, removing the need to load your private keys into the Gigamon devices.

## Entrust HSMs

Entrust nShield HSMs are among the highest-performing, most secure and easy-to-integrate HSM solutions available, facilitating regulatory compliance and delivering the highest levels of data and application security for enterprise, financial and government organizations. Our unique Security World key management architecture provides strong, granular controls over access and usage of keys.

## 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.

[www.gigamon.com](http://www.gigamon.com)

## Learn more

To find out more about Entrust nShield HSMs visit [entrust.com/HSM](http://entrust.com/HSM). To learn more about Entrust's digital security solutions for identities, access, communications and data visit [entrust.com](http://entrust.com)

To find out more about  
Entrust nShield HSMs

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**entrust.com/HSM**

## ABOUT ENTRUST CORPORATION

Entrust keeps the world moving safely by enabling trusted identities, payments and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

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