SSL/TLS Decryption
Powered by the Gigamon Visibility and Analytics Fabric with GigaSMART

Bad actors are now instigating 50 percent of new malware campaigns using encryption to conceal delivery and ongoing communications, including data exfiltration. This is why network and security operations teams must not give a free pass to encrypted traffic.

The Gigamon Visibility and Analytics Fabric with licensed GigaSMART® Decryption enables operations teams to have full visibility into encrypted traffic on any TCP port or application.

“By 2020 more than 60% of organizations will fail to decrypt HTTPS, missing most targeted with malware”

“How 2019, more than 80% of enterprise’s web traffic will be encrypted.”

“During 2019, more than 50% of new malware campaigns we use various forms of encryption and obfuscation to conceal delivery, and to conceal ongoing communication, including data infiltration.”

Source: Gartner Security and Risk Management Summit Presentation, The Role of Network Traffic Analysis in Today’s Threat Environment, Jeremy D’Honne and Lawrence Orans, 17-20 June 2019

KEY FEATURES
• Automatic SSL and TLS detection on any TCP port
• Scalable interface support (10M–100Gbs)
• Decrypt once, feed many tools
• Policy-based selective decryption

KEY BENEFITS
• No blind spots on the network
• Legacy tools can connect to the fabric
• Enhanced tool performance
• Preserve data privacy and compliance
Gain Visibility and Control

To gain visibility and control of the sharply rising amount of encrypted traffic, and its attendant security threats, you need to first decrypt inbound and outbound encrypted communications.

Decryption is a processor-intensive function that steals a large amount of resources from security tools. In a study of eight leading next-generation firewalls, NSS Labs found that turning on SSL/TLS decryption degraded the firewall performance by as much as 80 percent and reduced transactions per second by as much as 92 percent.

In contrast, by using the Gigamon Visibility and Analytics Fabric with GigaSMART you can offload decryption processing so security tools focus on detection and mitigation of malware. The GigaSMART license gives your operations teams automatic visibility into encrypted traffic, regardless of TCP port or application— to secure their networks against data breaches and hidden malware in encrypted networks.


THE SOLUTION

Using the Gigamon Visibility and Analytics Fabric with GigaSMART lets you offload decryption processing so security tools focus on detection and mitigation of malware.

A GigaSMART license gives your operations teams automatic visibility into encrypted traffic, regardless of TCP port or application—to secure their networks against data breaches and hidden malware in encrypted networks.

Gigamon also integrates with the Venafi Trust Protection Platform™ to centralize key management and validation.
Flex Inline and Decryption

It’s easy to configure Flex Inline Decryption using either the GigaVUE-Fabric Manager or GigaVUE-FM with the built-in fabric maps feature.

Figure 2 shows a standard fabric map. The GigaSMART “GS” cards create a decryption zone within the inline map.

Need to make changes? Simply drag and drop to move tools in and out of the zone as needed.

Technical Features

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td>Products supported</td>
<td>GigaVUE-HC1</td>
</tr>
<tr>
<td>Hardware required</td>
<td>At least 1 GigaSMART module</td>
</tr>
<tr>
<td>Software required</td>
<td>GigaSMART SSL/TLS Decryption license</td>
</tr>
<tr>
<td>SSL/TLS versions supported</td>
<td>SSLv3, TLS 1.0, TLS 1.1, TLS 1.2, TLS 1.3</td>
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<tr>
<td>Interfaces Supported</td>
<td>1 and 10Gbps</td>
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<tr>
<td># of categories supported for selective decryption</td>
<td>83</td>
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<tr>
<td>Inline SSL Decryption Throughput per engine</td>
<td>2Gbps One engine per chassis</td>
</tr>
<tr>
<td>Physical Inline Bypass Options:</td>
<td>1 and 10Gbps</td>
</tr>
</tbody>
</table>

Conclusion

Identify hidden threats in both inbound and outbound encrypted traffic with the Gigamon Visibility and Analytics Fabric and GigaSMART. Decrypt once and share across all tools, scaling and increasing the efficacy of each by eliminating the processor overhead. The result: Tools operating at peak performance to do what they are best at, malware mitigation.

For more information on Decryption, please visit www.gigamon.com/products/optimize-traffic/traffic-intelligence/gigasmart/ssl-tls-decryption.html.