Give your security tools bi-directional insight into SSL traffic
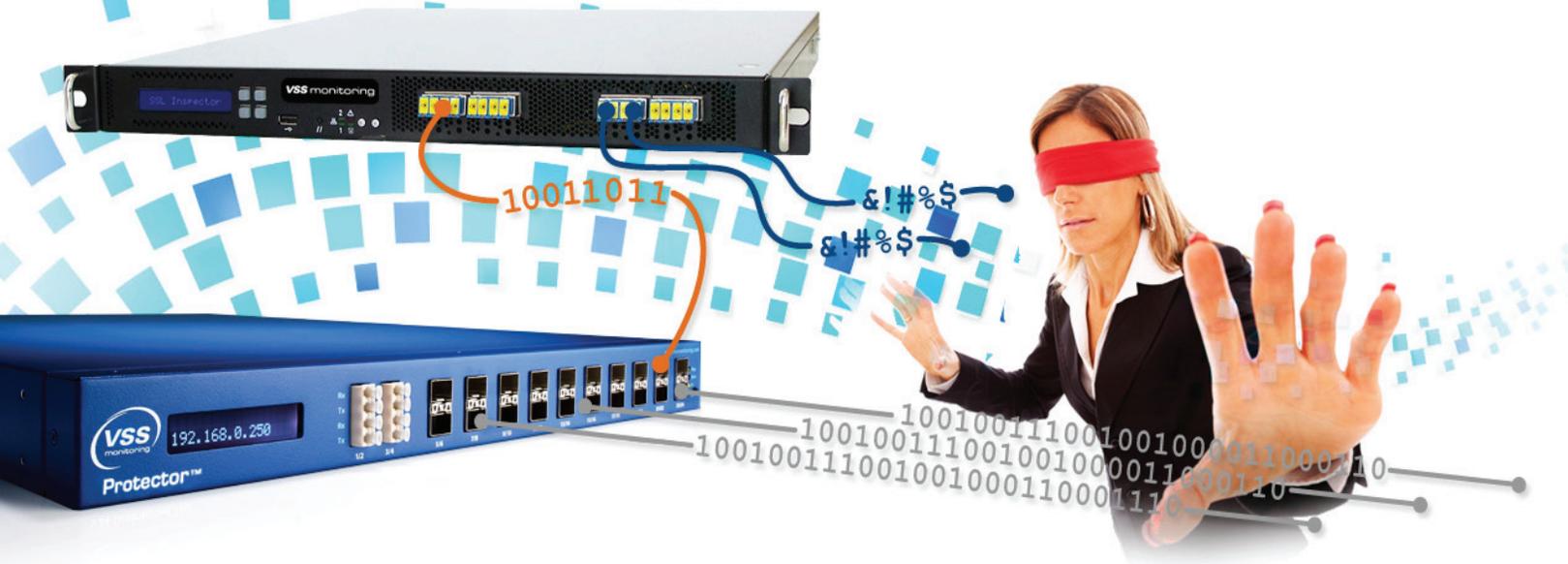
See inside your SSL traffic with VSS Monitoring vInspector™ Series solution.

Challenges

Are your network security and performance tools capable of seeing and analyzing bi-directional SSL traffic?

Are your security and analytics tools able to inspect SSL without grinding its core security functions to a halt?

Can they securely share the clear text with other tools? Can they perform this equally for inbound and outbound SSL?

How do you meet auditing and compliance if up to 100% of the traffic is now SSL? Are you able to decrypt only select SSL traffic to meet compliance and governance mandates?

These challenges will only get bigger:

- There are well over 1 million SSL sites on the Internet. (Source: Netcraft)
- Encryption is now an integral part of cloud computing, e-commerce, social media, enterprise applications, emails, and VPNs.
- SSL now accounts for at least 25% of traffic in most networks, even gmail and facebook are SSL encrypted by default.
- In select verticals such as healthcare, financial services, federal government and cloud computing, SSL accounts for up to 70-100% of the network traffic.

Dave Shackelford, Senior SANS Analyst sums up well:

" *…current deployments and operations of security monitoring infrastructures leave significant gaps in coverage: Are we seeing all the traffic? What threats are passing by?"*

" *How do we see into encrypted traffic to make sure it isn't carrying a malicious payload?"*

IT security teams have deployed many inline or passive network and security appliances to meet your security and compliance requirements. Two problems are still hard to solve:

- These devices either cannot decrypt SSL or experience severe performance degradation when trying to do so;
- It's not sufficient to give just one tool insight into SSL traffic; other tools need it also for different actions they can take.

Solution

VSS Monitoring meets these challenges by adding SSL inspection appliances (vInspector™ Series) to its Network Packet Broker (NPB) solution.

Contrasting with some security tools with built-in SSL inspection, the vInspector™ is significantly more powerful and scalable than other SSL inspection devices. It provides real-time and bi-directional wire-speed decryption and re-encryption.

For the first time in the industry, this exceptional performance, scale and efficiency allow you to fully decrypt bi-directional SSL traffic once, and give clear-text visibility to many tools.

Benefits for Security Tools:

- Reduced Total Cost of Ownership: Optimize security tools' precious CPU cycles for core functions, not for performance-intensive SSL decryption/re-encryption.

- Improved Effectiveness: Offload security tools' SSL decryption to vInspector™ appliances.

- Streamlined SSL inspection: Support "decrypts once, allows use by many tools".

- Reduced Security Proof-of-Concept (POC) Timelines: Allow inspection into the same traffic – in one POC.

- Increased Network Coverage to 100%: Aggregate, distribute, load Balance, filter SSL traffic across LAN, WAN and Cloud.

Solution Advantages:

- Exceptional Throughput: Up to 3.5 Gbps SSL inspection throughput in a single appliance.

- Robust Fault Tolerance: Configurable to block/allow the traffic, fail to a backup tool/or a backup vInspector™/or the wire.

- Ease of Maintenance Without Service Impact: Automatically reroute traffic during updates or maintenance so that vInspector™ can be inserted and removed without network downtime and lapse in security.

- Unmatched Configuration Flexibility: Choose from virtually limitless configuration possibilities between Mixed Media (Fiber/Copper) or Speeds (1G/10G)

- Freedom of vInspector™ location: Allow inspection at remote branch offices or bring SSL traffic over vMesh™ to be inspected at the data center where the security tools are.
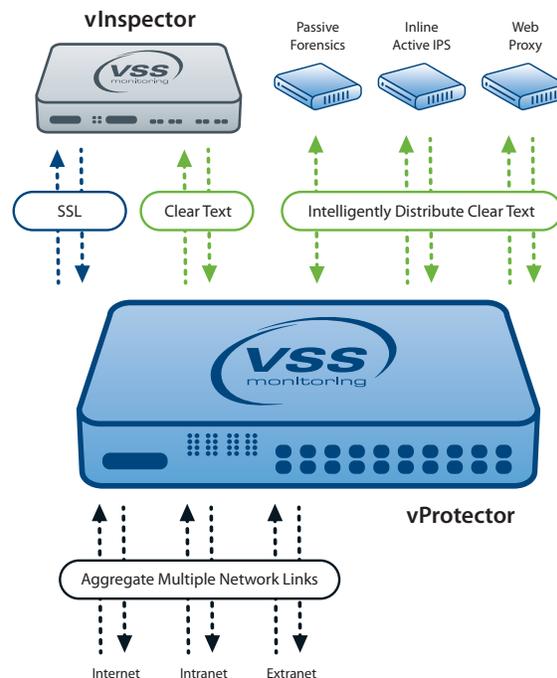
Aggregate, Decrypt, Distribute

Description:
- Aggregate multiple network traffic
- Offload SSL inspection from tools to vInspector
- Filter and load-balance clear text for multiple tools

Benefits:
- No changes to already deployed tools and vProtector
- Decrypt very high SSL throughput
- Single architecture for both out-of-band passive and inline active tools
- Concurrent proof-of-concept of multiple security tools
- Take SSL out of the equation for security tool evaluation

vInspector | Passive Forensics | Inline Active IPS | Web Proxy

SSL | Clear Text | Intelligently Distribute Clear Text

vProtector

Aggregate Multiple Network Links

Internet | Intranet | Extranet

Take the Next Step to Protect Your Network

Learn more about how you can benefit from the vInspector™ Series, visit us at www.vssmonitoring.com.

VSS monitoring

Brokering Packets. Optimizing Tools.

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