



A10 NETWORKS AND SECUREWORKS: ELIMINATING MODERN CYBERATTACKS

STOP ENCRYPTED CYBERATTACKS WITH THUNDER SSLI'S
DECRYPTION AND ISENSOR'S INTRUSION PREVENTION

A10 Networks and Secureworks offer a collaborative solution to mitigate malicious attacks hidden in encrypted traffic. A10 Thunder SSLi (SSL Insight) decrypts SSL-encrypted traffic across all TCP ports, enabling Secureworks to perform deep packet inspection and analyze clear-text traffic without compromising performance.



THE CHALLENGE

ENCRYPTION CREATES A BLIND SPOT IN DEFENSES

There is a rapid increase in network traffic encryption, with more than half of the Internet traffic already being encrypted. Due to such unprecedented rates of encryption, organizations are facing new security challenges as many security devices are not designed to decrypt and encrypt network traffic at high speeds. In fact, some security products do not have the ability to decrypt traffic at all.

Encrypted traffic provides a blind spot for threat actors to hide malicious content, raising concerns each time encrypted data enters your environment. Therefore, users are presented with a new dilemma: Either decrypt traffic and introduce bottlenecks into your network because of decryption-induced performance degradation, or bypass decryption and expose your network to potential encrypted attacks. Either way, users are exposed to performance issues as well as security risks.

CHALLENGE

The cyber threat landscape is continuously evolving with rising volume of SSL/TLS encryption making it impossible for security solutions to inspect all enterprise traffic without compromising performance. As a result, organizations bypass encrypted traffic, introducing a new attack vector.

SOLUTION

A10 Thunder SSL and Secureworks' iSensor, provides a complete enterprise security solution where high-performance SSL/TLS decryption facilitates and enhances advanced deep packet inspection (DPI).

BENEFITS

- Gain complete visibility into encrypted traffic
- Stop evolving threats with intelligent threat protection
- Ensure your network is compliant with privacy standards
- Increase ROI by augmenting your existing security infrastructure
- Manage your solution easily with access to real-time actionable insights

Secureworks®

THE A10 NETWORKS SSL INSIGHT AND SECUREWORKS ISENSOR SOLUTION

UNCOVER AND STOP HIDDEN THREATS CONCEALED IN ENCRYPTED TRAFFIC

Thunder SSLi eliminates the blind spot caused by SSL/TLS encryption, offloading SSL decryption and encryption functions from security devices while ensuring compliance with privacy standards. This solution works with all types of enterprise security products, augmenting them to ensure that a client's entire network is secured against encrypted threats, including: NGFWs, SWGs, IPS, UTM, DLPs, ATP, network forensics and many more. Add to this technology the deep level of experience by Secureworks in detecting security threats, and the solution becomes a powerful weapon against encrypted threats.

Thunder SSLi decrypts traffic and forwards it to the Secureworks iSensor security device for inspection. Since the iSensor receives the encrypted traffic in clear text from the Thunder SSLi, it can easily perform deep packet inspection to make sure no malicious content makes it through into the network. Any malicious traffic detected is forwarded to Secureworks' Security Operations Centers, where the powerful

combination of machine learning, artificial intelligence and human expertise work to determine the level of threat and provide immediate remediation. Thunder SSLi then re-encrypts safe traffic and forwards to the intended destination.

SOLUTION COMPONENTS OF ACTIVE INLINE ISENSOR DEPLOYMENT

The Secureworks iSensor is typically deployed as an active inline IPS on the enterprise perimeter. It works as a pass-through device for all incoming and outgoing traffic, inspecting all of the packets passing through.

To gain visibility into encrypted traffic, the iSensor device is connected directly to the Thunder SSLi device, as shown in the figure below. The iSensor is essentially placed in a logical "secure decrypt zone."

Encrypted traffic is intercepted and decrypted by Thunder SSLi, and the cleartext traffic is steered for inspection within the secure decrypt zone. iSensor can immediately detect threats and block them. Legitimate traffic is sent back to Thunder SSLi where it is re-encrypted and dispatched towards the destination. The same process is followed in reverse for incoming traffic as well, therefore providing iSensor with complete visibility. If traffic levels increase and additional security tools are needed, A10 can provide load balancing between multiple security devices to help scale the solution, thanks to its natively supported load-balancing feature.

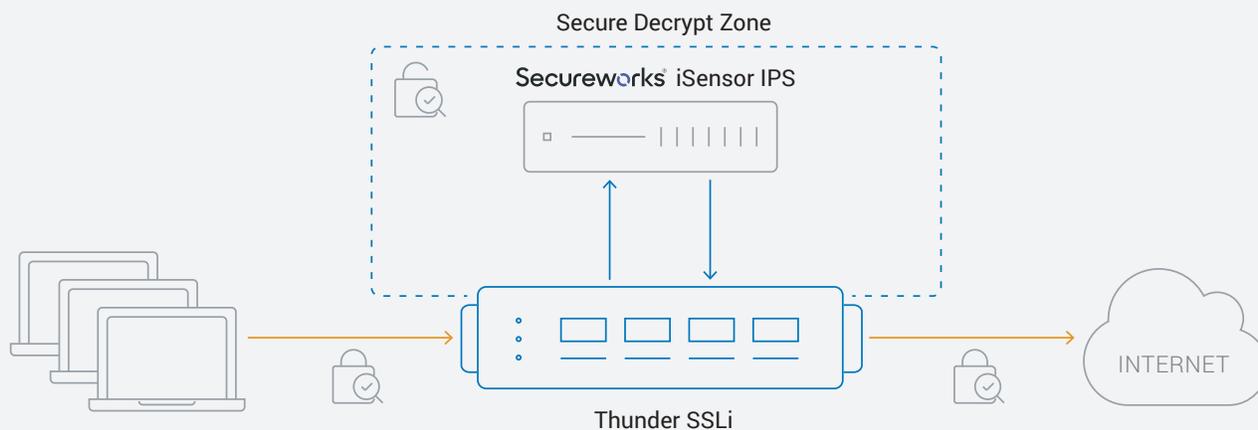


Figure 1: Thunder SSLi and iSensor IPS offer a collaborative solution that inspects bi-directional traffic inline, to mitigate malicious attacks hidden in encrypted traffic

FEATURES AND BENEFITS

A10 Networks SSL Insight's high-performance decryption, together with Secureworks iSensor's unique DPI, enable you to:

- Gain complete visibility into network activity, including encrypted traffic, to uncover attacks and infiltrations and to deliver a safe and secure user experience.
- Decrypt traffic across multiple ports and protocols for all types of network security devices, including inline, passive and ICAP-enabled devices.
- Detect and block inbound and outbound malicious traffic while removing the burden of manual device or signature management.
- Stop evolving threats with intelligence-enhanced threat protection, including thousands of countermeasures.
- Comply with industry standards to protect against the latest threats and vulnerabilities.
- Gain access to thousands of unique countermeasures, developed by the Secureworks Counter Threat Unit™ (CTUTM) research team.
- Ensure compliance with privacy standards.
- Simplify deployment, operations and management.
- Gain access to real-time actionable insights on network traffic, including detailed application visibility.
- Reduce operational costs and increase ROI.

With SSL Insight, you also have access to additional features and benefits, including:

- Full proxy control over cipher suite selection for future proofing and continued security
- Multiple modern ciphers supported for Perfect Forward Secrecy (PFS)
- URL classification for selective decryption and compliance
- URL filtering for web category-based access control
- App visibility for application-based visibility and access control
- Transparent and explicit proxy support
- ICAP support for ICAP-enabled DLP and AV systems
- Load balancing across multiple security devices
- Service chaining for high-performance security
- Secure HSM for FIPS compliance
- Granular traffic control

PROTECT YOUR CRITICAL ASSETS FROM EVOLVING THREATS, INCLUDING ENCRYPTED ATTACKS

With Thunder SSLi's superior performance augmenting iSensor's advanced DPI, you can rest assured that threats, encrypted or otherwise, inbound or outbound, will be detected and blocked with high accuracy and at peak performance. In addition to the versatility of Thunder SSLi in supplementing your entire security infrastructure, the ease with which this solution is deployed and managed also adds to your ROI while reducing the TCO.

The A10 Networks and Secureworks combined solution provides you with peace of mind, shining a light into the previously dark and unknown areas of your network and enabling you to thwart the threat of encrypted attacks.

NEXT STEPS

To learn more about the A10 Networks' Thunder SSLi and Secureworks' iSensor intrusion prevention solution, please contact your A10 representative or visit www.a10networks.com.

ABOUT SECUREWORKS

Secureworks provides an early-warning system for evolving cyber threats, enabling organizations to prevent, detect, rapidly respond and predict cyberattacks. Combining unparalleled visibility into the global threat landscape and powered by the Counter Threat Platform—our advanced data analytics and insights engine—Secureworks minimizes risk and delivers actionable, intelligence-driven security solutions for clients around the world.

For more information, visit www.secureworks.com.

ABOUT A10 NETWORKS

A10 Networks (NYSE: ATEN) provides Reliable Security Always™ through a range of high-performance solutions that enable intelligent automation with deep machine learning to ensure business critical applications are protected, reliable and always available. Founded in 2004, A10 Networks is based in San Jose, Calif., and serves customers globally with offices worldwide.

For more information, visit: a10networks.com
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