WHEEL LYNX
SSL/TLS INSPECTION SOLUTION

Trend Micro™ and Wheel Systems team up to deliver a complete threat management solution. Wheel Lynx is a high-bandwidth SSL/TLS decryptor, which feeds Trend Micro™ Deep Discovery with a data stream that can be analyzed against potential security threats.

CHALLENGE

- **Encrypted network traffic has exceeded the 50% threshold** in January 2017 (according to Let's Encrypt).
- **50% of attacks** will target encrypted traffic (according to Gartner report).
- DLP, IPS, IDS solutions cannot process encrypted traffic.
- Data is your most valuable asset and protecting it is crucial for your business.

SOLUTION

Wheel Lynx decrypts SSL/TLS encrypted data streams and forwards them to Trend Micro™ Deep Discovery system for advanced analysis.

BENEFITS

- Complete protection against targeted attacks conducted over SSL/TLS encrypted communication channels.
- 50 Gbps throughput ensures that the decryption process does not stall data analysis.
- Network traffic flow customization for total data stream control.

STATE OF SSL/TLS

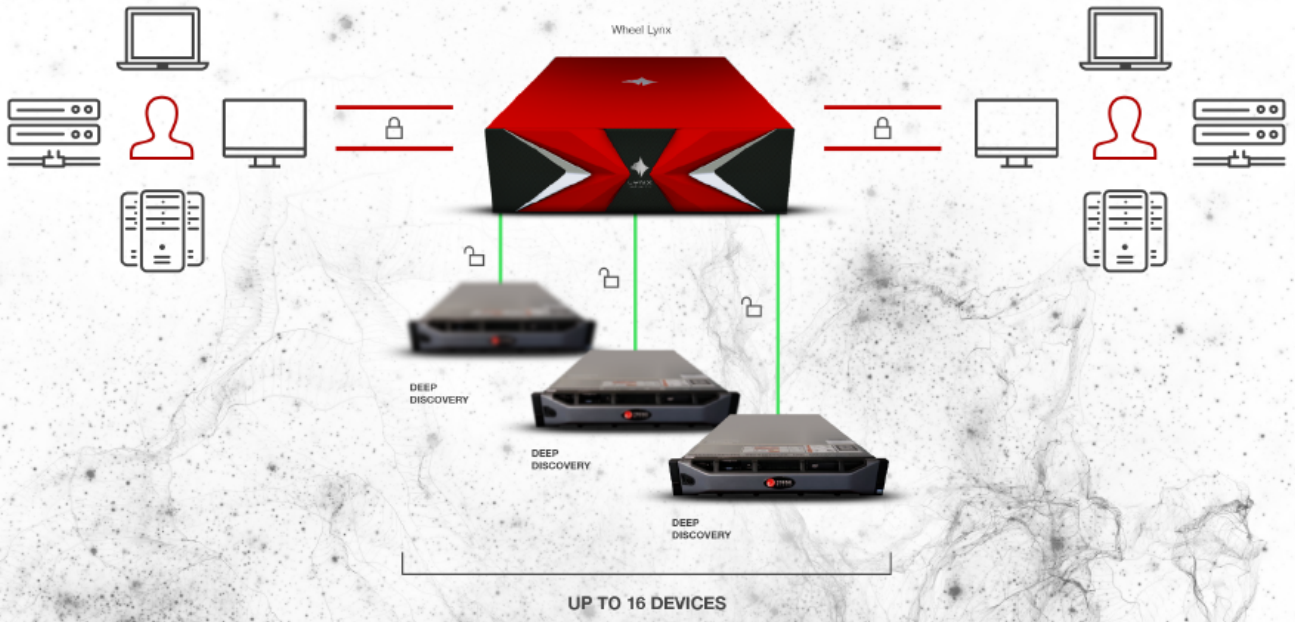
TLS promises secure communication and is widely used for business and private purposes. Currently, over 50% of internet traffic is being encrypted. The share of TLS/SSL encrypted communication is increasing each day and it is projected to reach 75% in 2019. SSL/TLS poses a serious threat, as hackers take advantage of the fact that encrypted data streams cannot be analyzed by DLP/IPS/IDS systems.

This makes the entire IT infrastructure vulnerable to targeted attacks, which aim to disrupt your company's operations, steal confidential data or encrypt essential information and demand a ransom.

INSIGHT INTO SSL/TLS

Wheel Lynx is the missing puzzle piece in the IT security infrastructure. It ensures insight into encrypted data streams enabling Trend Micro™ Deep Discovery to make use of its highly specialized detection engines. Wheel Lynx operates in transparent bridge mode.

Encrypted traffic going through Wheel Lynx is decrypted and passed to Trend Micro™ Deep Discovery for analysis. After processing, the data stream goes back to Wheel Lynx where it is re-encrypted and sent to the target system. Wheel Lynx preserves the original address of the data packages so both the client and the server are convinced that they communicate with each other directly.



WHEEL LYNX KEY FEATURES

- Insight into SSL/TLS encrypted network traffic.
- 50 Gbps throughput.
- Convenient whitelisting.
- Customizable network traffic flow.
- Load balancing for optimizing DLP/IPS systems workload.
- Bypass network interface cards support.

DEEP DISCOVERY KEY FEATURES:

- Protection against zero-day malware including ransomware.
- Spear-phishing email blocking.
- Targeted attacks and advanced threats detection.
- Custom sandbox analysis.

THE FASTEST IN THE WORLD

Wheel Lynx Infinity offers unmatched 50 Gbps data throughput to efficiently utilize the capabilities of Trend Micro™ Deep Discovery. This stellar result was made possible with a combination of high performance hardware and a proprietary operating system, which features numerous low-level optimizations.

Wheel Lynx Infinity can support up to 32 10 Gbps network interface cards and allows for precise network traffic flow management. It operates either in inline mode managing the network traffic flow in real time or it can be set up in out-of-band mode in which a copy of traffic is sent to the DLP/IPS system.
From this point it awaits a reset signal to terminate a given connection. Wheel Lynx Infinity is capable of load balancing the data packages sent to DLP/IPS systems for efficient bandwidth allocation and performance scaling.

COMPLETE COVERAGE

Trend Micro™ Deep Discovery can protect your IT infrastructure not only against north and south perimeter penetration attempts but also against the attacks performed from within your internal network. With the 50 Gbps of throughput, your Wheel Lynx can feed a number of Deep Discovery instances with unencrypted data, scaling the traffic analysis capacity. Wheel Lynx can have as many as 32 network interfaces that support custom network traffic flow modeling.
This ensures comprehensive control over data stream analysis throughout the entire network.

RESPECTING PRIVACY

Wheel Lynx enables excluding specific traffic from decryption in order to respect users' privacy. Exclusion can be based on the category of the target host (financial, healthcare, etc.), port number or the source or target IP address. The list is maintained by Wheel Systems but can be managed locally allowing you to define new entries: websites, IP addresses or port numbers.

BUSINESS CONTINUITY

To ensure that communication remains uninterrupted in case of a system failure, Wheel Lynx has been equipped with bypass network interfaces.
In case of a hardware malfunction, network traffic will be re-routed to the next network appliance so the connection isn't terminated.

ABOUT WHEEL SYSTEMS

Wheel Systems is the leading vendor of innovative IT security solutions, specializing in privileged access management, user authentication and authorization and SSL/TLS encrypted traffic inspection. Wheel Systems' products combine strong security with a user-friendly interface, which ensures seamless deployment and convenient maintenance.

Currently the company serves over 200 clients through a network of 80 partners in 30 countries. Wheel Systems strongly believes in innovation. It was one of the first in the world to introduce a mobile application for generating one-time passwords. In 2012 the company has launched Wheel Fudo PSM, the very first in the world to enable real-time supervision, which was voted the best solution for the financial sector in 2015. In the same year Wheel Systems has introduced SSL/TLS decryptor – Wheel Lynx.

In 2016 Wheel Systems has created the most advanced privileged access management solution - Wheel Fudo PAM. Currently the company is launching the fastest SSL/TLS traffic inspector – Wheel Lynx Infinity.

ABOUT TREND MICRO™

Trend Micro™ develops innovative security solutions that make the world safe for businesses and consumers to exchange digital information.
With over 27 years of security expertise, Trend Micro™ is recognized as the market leader in server security, cloud security, and small business content security.

Trend Micro™ security fits the needs of our customers and partners.
The company's solutions protect end users on any device, optimize security for the modern data center, and secure networks against breaches from targeted attacks. Trend Micro™ delivers top-ranked client-server, network, and cloud-based protection that stops new threats faster, detects breaches better, and protects data in physical, virtual, and cloud environments.

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