

THE FASTEST SSL/TLS DECRYPTOR



CHALLENGE

- Encrypted network traffic has exceeded the 50% threshold in January 2017 (according to Let's Encrypt).
- New TLS 1.3 protocol enforces new solutions to use in-line configuration.
- Intrusion Prevention Systems, Malware Detection Systems, Antiviruses and Firewalls cannot decrypt SSL/TLS traffic or do so with low performance.

SOLUTION

- Wheel Lynx SSL/TLS Decryptor enables SSL/TLS decryption with the biggest throughput available.

BENEFITS

- Integration with DLP, IDS, IPS systems provides them with the insight into encrypted data stream.
- High efficiency allows feeding a couple of external DLP, IDS, IPS with data simultaneously.
- Reducing the load of security solutions by delegating decryption process.
- Transparent certificate exchange with use of Wheel Lynx SSL/TLS Decryptor.
- High throughput of the appliance allows to simplify the infrastructure.

WHEEL LYNX SSL/TLS DECRYPTOR

AN EFFECTIVE INSIGHT INTO SSL/TLS TRAFFIC

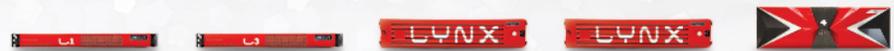
Wheel Lynx SSL/TLS Decryptor enables transparent SSL/TLS traffic decryption for further analysis by DLP, IDS, IPS systems. The appliance works in transparent bridge mode intercepting selected network traffic. SSL/TLS sessions pass through Wheel Lynx SSL/TLS Decryptor transparently so the client software thinks it connects directly to the target server as it uses the original address of the target host. The decrypted traffic is forwarded to the dedicated DLP, IDS, IPS device for evaluation.

Wheel Lynx SSL Inspector encrypts data again and sends it over to the target server. Unencrypted traffic, which can also pass through Wheel Lynx SSL/TLS Decryptor, is forwarded to the DLP, IDS, IPS without being modified.

THE HIGHEST THROUGHPUT AVAILABLE. 50Gbps!

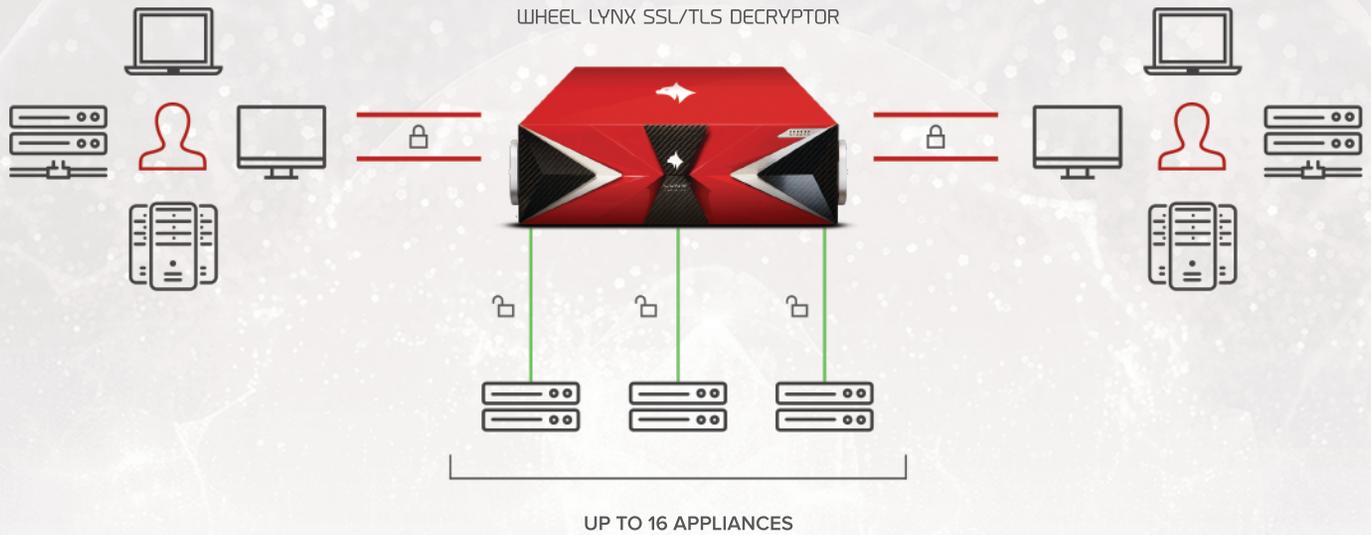
A complex structure of modern networks forces the performance of all their elements to increase. Wheel Lynx SSL/TLS Decryptor's model Infinity decrypts traffic with a throughput of over 50 Gbps, which makes it the fastest and the most advanced solution available. A larger throughput of the appliance means an opportunity to simplify IT infrastructures and security systems.

Moreover, higher efficiency enables implementing the appliance to protect IT infrastructures not only against north and south perimeter penetration attempts but also against attacks performed from within a company's internal network. In addition, the user panel with an intuitive and flexible network flow configurator enables you to quickly adjust your device even when deployed within a complex network infrastructure. A customizable dashboard gives a lot of insight into key information, ie. the amount of encrypted traffic or versions of SSL/TLS in use.



	L1	L3	L10	L25	INFINITY
Throughput (SSL/TLS)	1 Gbps	3 Gbps	10 Gbps	25 Gbps	50 Gbps
Concurrent sessions	25.000	50.000	250.000	500.000	1.000.000
Full handshakes (RSA 1024 bit)	1.500/s	3.000/s	15.000/s	30.000/s	100.000/s
Full handshakes (RSA 2048 bit)	750/s	1.500/s	5.000/s	10.000/s	50.000/s
Maximum number of network interfaces	10x1 Gbps	10x1 Gbps	1x1 Gbps 24x10 Gbps	1x1 Gbps 24x10 Gbps	1x1 Gbps 32x10 Gbps
Size	1U	1U	2U	2U	3U





The task of DLP, IDS, IPS systems is to protect your business infrastructure against various types of external attacks or attempts to steal confidential data. These systems do not analyze encrypted traffic, which presently accounts for more than 50% of global data exchange. Wheel Lynx decrypts the data stream and sends it to DLP, IDS, IPS where it is fully analyzed.

KEY FEATURES

- Support of self-signed certificates, both trusted and untrusted.
- Verification of certificate validity using the OCSP protocol.
- Key exchange algorithms: ECDHE, DHE, ECDH, RSA.
- Privacy protection by excluding specific traffic categories from decryption.
- Whitelisting of source and target hosts.
- Support for TLS SNI (Server Name Indication) extension, which allows you to pass the server name in the Client-Hello package.
- Protocols encrypted from the beginning of transmission (HTTPS, IMAPS, POP3S) and those that use the StartTLS command (SMTP).

SUPPORTED PROTOCOLS

SSL 3.0*
(blocked by default)

TLS 1.0

TLS 1.1

TLS 1.2

TLS 1.3*
(after standardization)

PRIVACY PROTECTION

White List is a list of URL and IP addresses that are not subject to decryption. Wheel Lynx SSL/TLS Decryptor automatically retrieves the list and allows you to define your own entries. With this functionality, companies can protect the privacy of their employees while using certain categories of websites. The list is maintained by Wheel Systems.



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