DATASHEET

CryptoNext Compass Network Probe

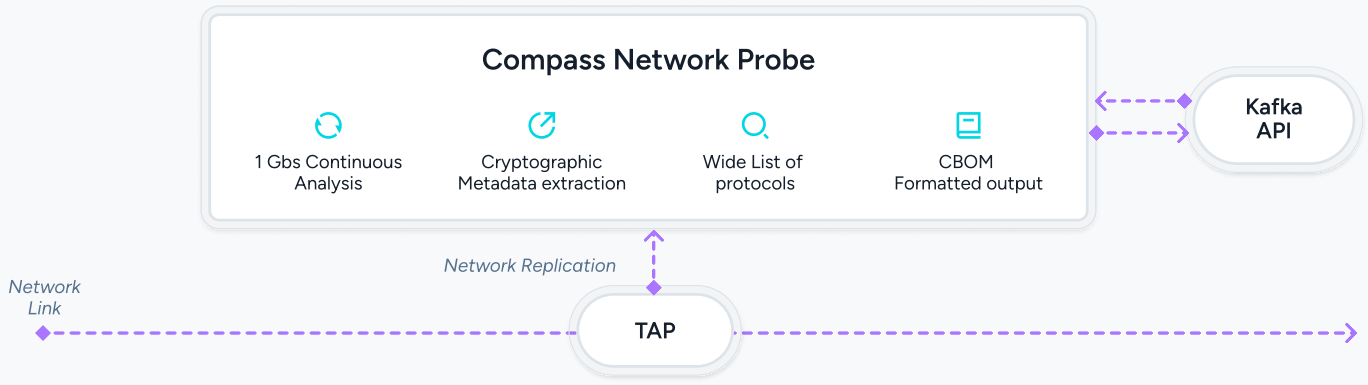
Uncover all the cryptographic assets within your network

The journey towards quantum-resistant technologies starts with a comprehensive inventory of the cryptographic assets used across your applications and network infrastructure, including algorithms, parameters, keys, certificates, protocols, etc. A thorough understanding of where and how cryptography is used enables targeted remediation, helping to prioritize migration efforts and mitigate security risks. Network traffic monitoring offers a powerful approach, revealing key cryptographic parameters such as protocol usage, application dependencies, and encryption algorithms in use.

CryptoNext Network Probe

The CryptoNext COMPASS Network Probe is a hardware appliance designed for passive and continuous network traffic monitoring, enabling the detection and collection of cryptographic assets in transit to build a comprehensive inventory. The CryptoNext COMPASS Network Probe is designed to support organizations in their post-quantum migration journey by addressing two critical needs:

- Immediate and mid-term: Identifying cryptographic assets within network traffic to create a comprehensive inventory and assess vulnerabilities to quantum attacks
- Long-term: Ensuring cryptographic auditability to maintain regulatory compliance and strengthen cybersecurity posture



Key Features

- In-depth network packet analysis to extract cryptographic metadata
- Large panel of supported protocols, including TLS, SSH, ISAKMP
- Optimized for up to 1 Gbps throughput to handle enterprise traffic
- Deployment behind a TAP : no disruption to the network, no added latency, no packets lost
- 1U rack-mounted appliance with both copper and fiber interfaces
- Focus on security with hardened OS, secure boot, TPM key storage, secure communication channels, code signing and authentication

Key Benefits

End-to-end Integration with COMPASS Analytics

The CryptoNext COMPASS Network Probe is natively integrated into CryptoNext Security's Discovery Framework, enabling CBOM file storage, cryptographic data visualization, and real-time monitoring of post-quantum migration progress.

Live Network Analysis

Unlike traditional solutions that depend on PCAP-based snapshots, the COMPASS Network Probe delivers on-the-fly, real-time monitoring of cryptographic traffic.

Multi-Protocol Analysis

With support for both IT and OT protocols, the COMPASS Network Probe extends its capabilities beyond TLS, ensuring deeper visibility across network traffic.

High-Performance Processing

The CryptoNext COMPASS Network Probe by CryptoNext Security supports data flows of up to 1 Gbps, ensuring efficient and on-the-fly cryptographic analysis.

Seamless Integration

The CryptoNext COMPASS Network Probe produces CBOM files, based on the OWASP CycloneDX standard, enabling easy integration with any system that supports this format.

Non-Intrusive Deployment

The CryptoNext COMPASS Network Probe ensures zero disruption, latency, or network vulnerabilities, operating seamlessly through TAP technology.

Specifications

Dimensions	
Rack Units	1U
Connections	
Network interface	4 x SFP+ 1Gbs (optic / copper)
Graphical interface	1 x HDMI
Peripheral Port	1 x USB3.0
Power	
Power Supply Redundancy	Yes
Performance	
Throughput	Input / Output : 1 Gbs
Device Management	
Log	Syslog
Secure Remote Access	Via Quantum-Safe TLS 1.3
	REST API
Synchronization	NTP
Safety	
Certification	CE

Security	
Anti-tampering	Yes
Software security	Hardened Operating System
	Secure Boot
	Software integrity checks
Key Management	Authentication by Certificate
	TPM storage
Communications	Quantum-safe TLS 1.3
Integration	
Deployment	Deployment behind TAP
Integration with third party tools	Outputs CBOM formatted files (json) streamed out via Kafka Producer API. Requires a Kafka Cluster server on the other end (version 7.3.3)
Protocol	
Discovered protocols	acse, as2, bgp, capwap, chap, coap, diameter, dnp3, http2, http3, ipp, ipsec, ircs, jabber, kpasswb, mount, mqtt, nbns, netbios, netflow, nfs, nfs4, nlockmgr, pp, pptp, radius, rpc, rtp, rtsps, sip, sip_soap, snmp, socks5, srvloc, syslog, ws_discovery
Inspected Protocols	TLS/SSL, DTLS, QUIC, SSH, ISAKMP, Kerberos, DNSSec, SMB

Ordering information

The CryptoNext COMPASS Network Probe can be ordered under the following reference: C_QSD_NTKP_01

CryptoNext Security enables organizations to implement a quantum-resistant, crypto-agile strategy thanks to its comprehensive product offering that provides both the remediation technology and the expertise required for each phase of any post-quantum migration project.