

Technical Brief

Busy Reader Guide for
Architects & Technicians

Architecture Overview

External attack surfaces are fragmented, with weak certificates unmanaged, legacy systems using vulnerable ciphers like RSA and ECC, and shadow IT evading inventory.

Active assessment enables organisations to discover assets, establish cryptographic posture, and quantify risk through a no-touch approach requiring no deployment.

How the Platform Works

The module performs agentless dual-mode discovery:



Domain Finding:

Enumerates subdomains via DNS and certificate logs.



Remediation Guidance:

AI scores PQC risk against NIST tiers and outputs structured CBOMs.



Active Scanning:

Captures handshake metadata—ciphers, versions, certificate chains—without decryption.



Key Technical Capabilities

Active Discovery

Performs recursive subdomain enumeration with certificate transparency; assesses supplied and discovered IPs.

Passive TLS/SSH/IPsec Analysis

Observes handshake metadata cipher suites, extensions, and certificate chains—at the network edge without man-in-the-middle tactics.

PQC Readiness Scoring

Flags NIST-disapproved algorithms, mapping them to corresponding NIST risk tiers.

Shadow System Detection

Correlates rogue certificates and subdomains using DNS, certificate transparency logs, and TLS fingerprints.

CBOM Generation

Automatically extracts libraries, key sizes, and protocols; exports SBOM-compatible JSON and YAML in the CycloneDX format.



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'No Touch' Technology

1

Deploy in Minutes

Drop our lightweight virtual sensor into any environment on-premise, in-cloud, or third-party data centers.



2

Leverage Existing Infra.

Connect to your current SPAN, TAP, or ERSPAN ports. Zero network reconfiguration required.



3

Comprehensive Discovery

Active assessment of TLS, SSH & IPsec across all reachable assets, combined with real-time traffic analysis for complete coverage.



4

Real-Time Intelligence

In-memory processing delivers instant visibility into your cryptographic posture. Observe vulnerabilities immediately.

The Result: Complete Cryptographic Visibility

- ✓ Discover weak encryption before attackers do
- ✓ Understand your cryptographic compliance with regulations
- ✓ Track certificate health across all environments
- ✓ Prepare for post-quantum cryptography today

No network changes. No data exposure. No performance impact.



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