TYCHON

Post-Quantum Cryptography Readiness Use Case

The rise of quantum computing brings both promise and peril – while quantum computers hold the potential to revolutionize industries, they also pose a significant threat to our digital security infrastructure. National Security Memorandum 10 (NSM-10) requires that agencies "prepare now to implement Post-Quantum Cryptography (PQC)." Specifically designed and developed to provide comprehensive enterprise endpoint visibility and automated continuous endpoint monitoring, TYCHON assists organizations with meeting this mandate by delivering 1) a comprehensive inventory of cryptographic systems and 2) a prioritized inventory of vulnerable information systems.

CAPABILITIES

Search

Rapidly gather and inventory cryptography source data across applications, files, and connections.

Visualize

Understand, analyze, and score your risk posture – monitor, trace, and alert on cryptographic inventory changes.

Act

Customize, manage, and enforce policies to address your worst and most vulnerable problems first.

Monitor

Continuously monitor endpoints to create cryptographic statuses for daily, monthly, and yearly reports.

CRYPTO-AGILITY RISK MANAGEMENT & READINESS

Take advantage of TYCHON's multiple data sources to collect valuable cryptographic system datasets.

Signing Certificates

Certificate Files

Encryption Libraries

Listening Services

Web Services

Root Certificates

User Certificates

- Track all Certificates in the Certificate Store
- Identify Soft Certs on Drives
- Identify Services hosting TLS/SSL Certificates
- Identify Web Service Encryption Methods through Settings
- Identify Software using Encryption Libraries
- Track External Connections using SSL/TLS
- Investigate the use of Web Browser Applications

Key Features

1 TYCHON SENSOR

Lightweight agent built on a micro service engine framework to optimize integrations and provide superior data quality to fulfill use cases.

- Logins, Permissions, & Users
- File Meta Data & Integrity
- Digital Signatures & Certificates

2 MESH MODEL

Instantly query up to a million endpoints. Unique architecture components built for scalability and fast response.

- Deploy Patches
- Update OVAL / CVE Definitions
- Device Hardening

3 OPEN ARCHITECTURE

Built on an open, flexible framework with embedded micro services built using a Client-Server Model with an integrated journal.

- Cloud / Hybrid / On Premise
- Low Bandwidth / Disconnected
- Best In Class Technical Partners

4 INCIDENT RESPONSE

Instantly respond to threats by executing a cleanup, AV update, and services status check across endpoints in a matter of seconds.

- Flexible Endpoint Targeting
- One-Click Response Actions
- IOC Searches

5 TYCHON JOURNAL

Fully indexed record from every endpoint. Monitor and record endpoint and server activity for near-instant identification of threats.

- Master Endpoint Record
- FIPS 140-2 Compliance
- Netflow & DNS History

6 DYNAMIC DASHBOARDS

Interactive dashboards, which display real-time enterprise compliance metrics for up-to-date situational awareness of network risk.

- Continuous Comply 2 Connect
- Cyber Hygiene
- Zero Trust

7 END USER ENGAGEMENT

A direct line of communication from the incident responder to the desktop of end users.

- Custom Banner & Messages
- Outlook Searching
- User Created/Connected Shares