

TYCHON

Post-Quantum Cryptography Readiness

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

TYCHON SENSOR

Lightweight agent built on a Micro Service engine framework designed to optimize integration with other third-party security vendors and provide superior data quality. Capture thousands of attributes per endpoint and fulfill use cases, such as systems management, cyber hygiene, and more.

- ▶ Logins, Permissions, & Users
- ▶ File Meta Data & Integrity
- ▶ Installed Software & Settings
- ▶ Digital Signatures & Certificates
- ▶ Licenses, Drivers, & Versions

MESH MODEL

Instantly query up to a million endpoints. Unique TYCHON components, such as Data Management Node (DMN), File Distribution Center (FDC), Dispatcher, and Orchestrator, are built for scalability and fast query response times.

- ▶ Deploy Patches
- ▶ Update OVAL / CVE Definitions
- ▶ Retrieve Files for Forensics
- ▶ Device Hardening
- ▶ Reducing Attack Surface

OPEN ARCHITECTURE

TYCHON is built on an open, flexible framework with embedded micro services built using a Client-Server Model with an integrated FIPS 140-2 compliant journal for endpoint data capture. Our custom designed compression algorithm allows data to be sent securely and quickly in any type of network condition, even with low bandwidth restrictions.

- ▶ Open, Flexible API Framework
- ▶ Embedded Micro Services
- ▶ Client-Server Model
- ▶ Data Roll-up
- ▶ Cloud / Hybrid / On Premise
- ▶ Low Bandwidth / Disconnected
- ▶ Best In Class Technical Partners

RAPID QUERY

Instantly respond to a new threat or IOC, from any vendor, by executing a cleanup, AV update, and services status check across all connected endpoints in a matter of seconds. Accepts both plain English text and full regular expression (REGEX) queries, and employs fail safe measures to guarantee fast and reliable content delivery.

- ▶ Flexible Endpoint Targeting
- ▶ One-Click Response Actions
- ▶ IOC Searches
- ▶ Trace
- ▶ Memory Analysis & Forensics
- ▶ Two Person Integrity

TYCHON JOURNAL

Fully indexed record from every endpoint. Continuously monitor and record endpoint and server activity for near-instant identification of threats – present or past – and the complete view of an incident, root cause analysis, and tracing of network propagation.

- ▶ Master Endpoint Record
- ▶ FIPS 140-2 Compliance
- ▶ Historical Data
- ▶ Historical Running Processes
- ▶ Fuzzy Hash
- ▶ Netflow & DNS History

DYNAMIC DASHBOARDS

Interactive dashboards, which display real-time enterprise compliance metrics for up-to-date situational awareness of network risk. Vital reports with details on privileged users, web server compliance, asset inventory, system authorization, required security services, patching, and overall organization software compliance.

- ▶ Continuous Comply 2 Connect
- ▶ Cyber Hygiene
- ▶ Compliance Validation
- ▶ Resource Utilization
- ▶ Strong Authentication
- ▶ Zero Trust

TYCHON COMMUNICATOR / END USER ENGAGEMENT

Close the gap between detection and response with a direct line of communication from the incident responder to the desktop of end users using the TYCHON Communicator platform.

- ▶ Displays Persistent Banner
- ▶ Send Custom Messages
- ▶ Outlook Searching
- ▶ User Created / Connected Shares