Quintessence Labs

# TSF® Sentry

Automate Crypto-Agility from Discovery to Remediation

Continuous discovery of cryptographic assets, dependencies, vulnerabilities, and policy violations

Centralized policy enforcement for stronger governance, compliance, and crypto-agility

Automated remediation to reduce risk and accelerate your path to quantum resilience

## THE CRYPTOGRAPHIC CRISIS OVERVIEW

As the 2030 NIST Post-Quantum Cryptography (PQC) deadline approaches, organizations face unprecedented operational risks. Enterprise infrastructure is burdened with decentralized, hardcoded cryptographic debt. Traditional discovery tools only produce "Scanner Fatigue," generating massive 500-page Cryptographic Bills of Materials (CBOMs) with no automated remediation path.

## THE SOLUTION: ACTIVE GOVERNANCE

TSF Sentry is a centralized cryptographic control plane that delivers unified discovery, inventory and crypto-agile remediation, designed for security governance and applications performing cryptographic operations in mind.

**Risk based discovery & inventory -** TSF Sentry's automated cryptographic and discovery system discovers cryptographic services and builds or ingest a CBOM to evaluate posture against risk-based policies to help prioritize remediation.

**Policy based remediation -** TSF Sentry simplifies remediation & orchestration, through central crypto policy definition and real time zero agent configuration updates, eliminating manual configuration hunting across multi-cloud and legacy infrastructure.

### Crypto-Agility Abstraction

TSF Sentry has two guiding principles:

- Identity Abstraction (Keys): Eliminates exposed private keys on local filesystems.
- Algorithm Abstraction (Math): Centralizes cryptographic protocol bounds and centrally manage crypto configuration.

This allows a crypto-agile framework for remediation just by updating the policy.

## KEY CAPABILITIES

- Comprehensive automated and risk-based discovery tools (host based, file based, network based and code scanning) including ability to import external CBOM.
- Crypto Policy engine for remediation. Need to change an algorithm? Simply change the policy.
- Integrated API allowing external tools to fully automate the deployment across enterprise for Zero-Agent configuration push.

## WHY TSF SENTRY?

**Instead of forcing your IT team to manually hunt down and update hardcoded encryption settings across thousands of servers, TSF Sentry automatically coordinates safe, compliant security updates.**

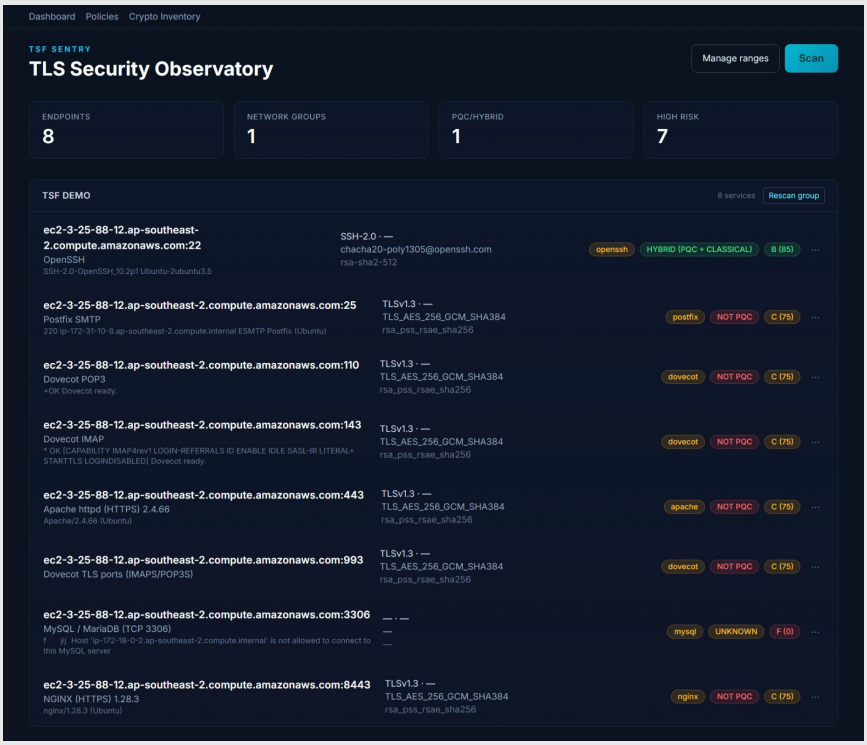
- Future-Proof Security: Ensures a seamless, outage-free migration to next-generation Post Quantum standards.
- Total Visibility: Provides leadership with absolute control over the entire digital cryptographic footprint.
- Decoupled Intelligence: Security teams can change enterprise-wide algorithm suites instantly without asking application owners to modify a single line of code.
- Compliance with standard PQC frameworks.

FEATURES

# TSF Sentry

## Automate Crypto-Agility from Discovery to Remediation

The screenshot illustrates the TSF Sentry centralized dashboard during a live policy remediation workflow. This interface visualizes the platform's core capability: converting complex cryptographic data into actionable, automated compliance steps. As shown, the system moves seamlessly from risk-based discovery to real-time, zero-agent policy enforcement across the enterprise infrastructure.




| Item | Specifications |
|---|---|
| Distribution | Docker container / central platform or standalone scanner packaging |
| Discovery / Inventory | ACDI functionality to scan network-based, host-based, file-based (e.g. code-scanning via plugins); Ingestion of CBOMs from 3rd party discovery tools. |
| Policy Driven Remediation | Policy-as-Code; built-in PQC policy; remediate applications based on policy definition |
| Dashboard | Intuitive dashboard showing real-time PQC status |
| Open Standards | Import & export of CycloneDX CBOM standard for complete visibility |
| Management UI | HTTPS WebUI |
| Public API | Versioned Rest-based API (/v1/...) for easy integration into automation tools |
| IaC Examples | Ansible, Puppet |
| Crypto Methodology | Aligns seamlessly with major global PQC transition frameworks, including NIST (US), ASD (Australia), CSA (Singapore), and the EU Coordinated PQC Roadmap (ENISA) |
| Application Support | Policy-driven remediation for most commonly used enterprise applications, extensible configuration for custom applications |

Quintessence Labs

**AUSTRALIA**
Unit 11, 18 Brindabella Circuit
Brindabella Business Park
Canberra Airport ACT 2609
+61 2 6260 4922

**UNITED STATES**
175 Bernal Road
Suite 220
San Jose CA 95119
+1 650 870 9920

**www.quintessencelabs.com**

Document ID: 7465-00