

Enterprise Quantum Readiness and Crypto Asset Visibility

Qinsight Atlas with Utimaco u.trust GP HSM Se-Series

About Qinsight

You can't migrate what you can't see. Qinsight Atlas is the visibility layer for quantum readiness. Our cryptographic posture management platform discovers, inventories, and analyzes every key, certificate, algorithm, library, and protocol across the enterprise—so organizations can eliminate crypto debt and execute migration to post-quantum cryptography.

For more information, visit Qinsight.com



Challenges

Cryptographic keys and certificates live inside HSMs with **no estate-wide visibility**

Manual HSM key inventory cannot keep pace with **audit and compliance demands**

No unified view of **quantum-vulnerable algorithms** across hardware and software

Harvest Now, Decrypt Later exposure for long-lived, HSM-protected sensitive data

Hardware-Backed Crypto Visibility for PQC

Qinsight has integrated its Atlas Cryptographic Posture Management platform with the Utimaco u.trust GP HSM Se-Series, so organizations can discover and inventory hardware-backed cryptographic assets within their broader estate.

Using the Utimaco REST Cryptographic API (RCAPI) over a mutually authenticated (mTLS) channel, Atlas fetches key and certificate metadata to build a living inventory and generate a Cryptographic Bill of Materials (CBOM). Further, Atlas identifies both traditional crypto debt (e.g., legacy protocols, expired certs, deprecated algorithms) and quantum-vulnerable algorithms and helping organizations prioritize the highest risks such as Harvest Now, Decrypt Later (HNDL). Private key material never leaves the security boundary of the HSM, which is validated to FIPS 140-3 Level 3.

◆ Unified Hardware Discovery

Automatically discover keys and certificates stored within Utimaco u.trust GP HSMs and incorporate them into a unified, enterprise-wide cryptographic inventory and CBOM.

◆ Quantum Risk Prioritization

Score HSM-resident algorithms and key sizes against NIST PQC standards to flag quantum-vulnerable assets and prioritize migration based on business risk.

◆ Audit-Ready Evidence

Generate audit-ready CycloneDX CBOM documenting hardware-protected cryptography for CNSA 2.0, PCI-DSS, DORA and HIPAA compliance reviews.

Qinsight Atlas and Utimaco HSMs provide continuous cryptographic visibility to identify crypto debt, prioritize quantum risks, and strengthen cryptographic resilience.

Benefits



Enterprise-Wide Crypto Visibility



Classical and Quantum Risk Prioritization



Audit-Ready CBOM and Compliance Evidence



HNDL Exposure Analysis



Accelerated Crypto-Agility

Why the joint solution matters

Qinsight Atlas provides a centralized system of record for enterprise cryptography. By integrating with Utimaco GP HSMs, organizations gain visibility into hardware-protected keys and certificates, understand cryptographic dependencies, identify quantum-vulnerable algorithms, and prioritize remediation across hybrid environments.

- ◆ Discover HSM-resident keys and certificates automatically.
- ◆ Identify quantum-vulnerable algorithms and migration priorities.
- ◆ Correlate cryptographic assets with systems and applications.
- ◆ Generate CBOMs and compliance-ready reporting artifacts.
- ◆ Track cryptographic lifecycle, ownership, and governance.

How The Integration works

Atlas connects to the Utimaco u.trust GP HSM Se-Series through the REST Cryptographic API (RCAPI v2.1.1) over a mutually authenticated TLS channel.

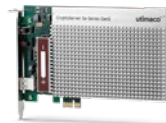
A dedicated, read-only RAPI user authenticates, and the Atlas discovery engine fetches metadata for keys and certificates, including algorithm, key size, and rotation lifecycle.

Findings are normalized into the Atlas data model, reconciled with other discovery sources, and compiled into a CycloneDX 1.7 CBOM. Qinsight's risk scoring engine then scores each asset for classical and quantum risk by looking at the algorithm and bit size, exposure and compliance context and dependencies. At no point are private keys read or removed; they remain inside the HSM's hardware boundary

Free, fully functional HSM simulator

Test development and integration capabilities of the u.trust General Purpose HSM in your environment – no purchase, delivery, or installation needed.

<https://utimaco.com/data-protection/simulators-and-trials/gp-hsm-simulator>



u.trust General Purpose HSM Se-Series
PCIe Card and Network Appliance



EMEA

Utimaco IS GmbH

📍 Krefelder Str. 220,
52070 Aachen,
Germany

☎ +49 241 1696-0
✉ info@utimaco.com

Americas

Utimaco Inc.

📍 900 E Hamilton Ave,
Suite 400
Campbell, CA 95008,
USA

☎ +1 844 UTIMACO
✉ info@utimaco.com

APAC

Utimaco IS Pte Limited

📍 6 Temasek Boulevard
#23-04 Suntec Tower Four
Singapore 038986

☎ +65 6993 8918
✉ info@utimaco.com

[Qinsight.com](https://qinsight.com)

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