

Crown
Commercial
Service
Supplier



The High Assurance MSP

PQC Migration Advisory
SERVICE DEFINITION

nine23.co.uk

Service Definition

Encryption is a foundational security control for data protection, however as technologies evolve and data proliferates across hybrid cloud, SaaS and BYOD, the attack surface is ever-growing and presents significant business risks. Understanding data usage across the enterprise, identifying weak encryption technologies and remediating them will help prevent data and reputational loss and preserve trust with customers. Developing crypto-agility is an essential capability that will help organisations migrate to new, more secure cryptographic algorithms and primitives efficiently and rapidly. Government agencies worldwide, including the White House, have advised organisations to start preparing for the migration to post-quantum cryptography by conducting a prioritised inventory of cryptographic systems. Encryption Intelligence delivers detailed insights into the use of encryption across an organisation. The Encryption Intelligence SaaS product and network probes discover and analyse encryption weaknesses in network traffic and Arqit consultants provide actionable intelligence to help businesses prepare remediation plans to mitigate encryption risks, including PKI asymmetric key agreement algorithms which are vulnerable to the quantum threat.

Service Features

- Personalised PQC Migration advice delivered by expert consultants
- Advice about encryption technologies in use across the organisation
- Prioritise services and applications using weak or obsolete encryption
- Development of PQC strategies and policies
- Supply chain assessment and engagement advice
- Expert consultant report covering Encryption Risk
- Personalised advice about future quantum threats to encryption
- Actionable insights and recommendations towards effective encryption usage
- Practical advice and education for technical team related to encryption
- Roadmap plan for post-quantum cryptography standard operating model

Service Benefits

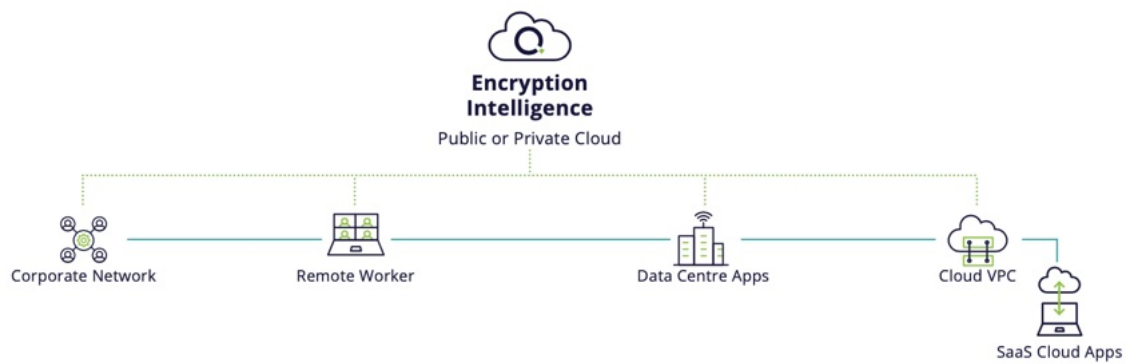
- Address organisation cyber risk due to outdated or weak encryption
- Assess cloud services, IOT devices, applications with inadequate encryption protection
- Quantify the impact of post-quantum cryptography on the organisation
- Plan and execute an efficient PQC migration reducing resource waste
- Enhance organisation cyber-security and reduce cryptographic risk
- Protect the organisation from cyber attacks against weakly-encrypted services
- Prepare now for migration to quantum-safe post-quantum technology
- Meet legislative requirements for encryption of organisation and citizen data
- Educate your technical teams about post-quantum security risk

Challenges

- Visibility of application traffic usage, where it is flowing and how it is protected
- Identifying encryption weaknesses exposed by enterprise devices and apps
- Continuous monitoring and remediation of encryption risks
- Planning and migrating to quantum-safe encryption
- Adoption of easily deployed, rigorously managed, cost effective quantum-safe solutions

Outcomes - Encryption Intelligence

Discover, classify, analyse encryption vulnerabilities in application traffic flows across an organisation.



The Encryption Risk Advisory delivery process consists of the following phases:

- **Kick-off Workshop**
Our consultants will organise and run a kick-off workshop to define the engagement scope, high level objectives, resource and technical requirements. A Planning Guide will be produced outlining the project goals, tasks and timelines, deliverables and outcomes to align expectations.
- **Data Collection Design**
Arqit work with technical teams to scope and plan data collection from the organisational network.
- **Technology Deployment and Data Collection**
Data collector probes will be installed, configured and tested. An Encryption Intelligence SaaS tenant will be set up to aggregate, analyse and report on the data collected. If required, traffic generation tools for classic and post-quantum cryptography (PQC) encryption can also be deployed.
- **Education and Analysis**
During this phase, our consultants will perform an analysis of the data collected to develop a view of the organisation's encryption landscape. This includes interactive

workshops to educate stakeholders about encryption risk. Analysis results are made available in the Encryption Intelligence web portal.

- **Reporting and Recommendations**

Our consultants will present key findings and identify areas of improvement, and potential mitigation solutions. A report is produced detailing the results and recommendations for short and long-term actions.

What Nine23 Do & Why

Nine23 is a veteran-owned **UK Sovereign, High-Assurance Managed Service Provider (MSP)** delivering cyber secure, resilient digital services for mission-critical operations.

Our service offerings include:

- InfoSec Advisory and Assurance
- Private/Hybrid Cloud
- Secure Collaboration
- Interoperability

Our solutions are built to meet the most stringent regulatory compliance requirements and are fully aligned with NCSC/DSIT guidance and Secure by Design principles. We enable individuals and organisations to operate with confidence, security and compliance.

Who Nine23 Work With

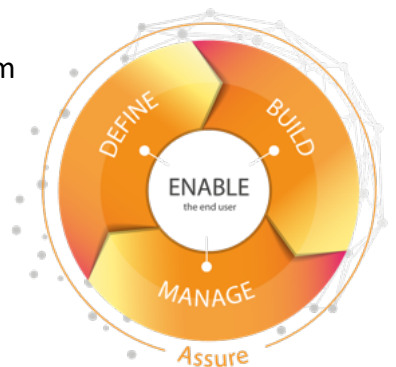
Nine23 delivers exceptional services to Discerning Clients in **UK Regulated Sectors who handle protectively marked data at above OFFICIAL**. We enable the HM Government, National Security and Public Safety, Defence Industry and their supply chains to collaborate and interoperate with simplicity, without ever compromising on security.

We have demonstrated significant achievements in difficult to break into sectors and have a stellar list of clients which demonstrates our credibility.

How Nine23 Work

Our Model

Our operating model builds security, usability, and compliance in from day one, so your technology, people, and processes work seamlessly together. As cyber threats evolve, so do we – keeping your users secure, empowered, and productive through continuous improvement, user-focused design, and UK sovereign solutions that meet national security standards.



Define - Your Problem

We understand information security and assurance as a business enabler, not a constraint. Our experts will conduct a comprehensive discovery phase to assess current capabilities and risks, define key security objectives, compliance standards, and end-user requirements, and develop a clear roadmap that enables digital transformation with high assurance at its core.

Build - Your Solution

We combine the best technology from the best vendors to create an environment that enables individuals to work together effectively and securely. Leveraging trust, innovation, and a depth of sector experience to provide collaboration and interoperability.

Manage - Your Service

We deliver high assurance and resilient managed services that enable seamless interoperability for teams to access the data and applications they need to work collaboratively. Our managed services include:

- 24/7 monitoring, proactive risk management, and compliance assurance
- Threat detection, response, and continuous security improvements
- A transparent Service Level Agreement (SLA) ensuring clear accountability

Why Choose Nine23?

Enabling the end user is the heart of everything we do, empowering them to work with the same simplicity and usability they expect at home, without ever compromising on security.

We are **trusted, proven experts with a strong track record** of delivering nationally accredited, user-focused solutions in complex and highly regulated environments.

We deliver high assurance solutions **accredited for use at OFFICIAL (including SENSITIVE and other caveats) through to SECRET**, meeting the most stringent cyber security

requirements. As a fully UK-owned and operated company, with all staff, infrastructure, and data located in the UK, we provide genuine **100% UK data sovereignty**.

Above all, we are **refreshingly honest**. Building long-term relationships through transparency and integrity, with no jargon or hidden risks, just secure solutions that deliver real operational value.

