

**ROKE**



# Cyber Test and Assurance

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Service Definition

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TABLE OF CONTENTS

Table of Contents ..... i

Cyber Test and Assurance – Service Definition .....1

Service Offering .....1

Detailed Service Definition.....1

    Conformance testing .....1

    Risk assessment and cyber vulnerability investigations .....1

    Cyber testing environments .....1

Key Services.....2

    Conformance testing .....2

    Risk assessment and cyber vulnerability investigation .....2

    Cyber testing environments .....2

## Cyber Test and Assurance – Service Definition

Benefit from expertise in testing and assuring secure systems informed by a deep understanding of the details of security, security engineering, risk assessment, and management.

Roke's Cyber Test and Assurance service provides independent validation that security properties are well defined and appropriate for the products and services provided by the organisation.

We perform testing at the design, component, system and system-of-systems level against security objectives, adherence against Secure-By-Design (SbD) principles and provide a remediation plan with corrective actions for elements which do not meet the desired standards.

Roke's test and assurance service provides regulators and standards bodies with evidence of good security processes and practices.

### Service Offering

- Conformance testing
- Risk assessment and cyber vulnerability investigation
- Cyber testing environments

Roke applies knowledge of the inner technical workings of complex systems and of the principles of cyber security, to offer advice and support. We work with you to test and assure your systems, providing confidence to your clients and users.

We provide these services across the Defence, National Security, Central Government, and Industrial sectors.

### Detailed Service Definition

#### Conformance testing

Roke can test and assure architectures, designs, and systems, building confidence in their ability to meet their security goals.

We are the UK conformance testing centre for all classes of UK High Grade Crypt Devices, verifying formal compliance with specifications, and understand how to deliver repeatable, automated conformance testing to provide assurance over the system lifecycle.

#### Risk assessment and cyber vulnerability investigations

To support the definition of appropriate architectures and robust designs, Roke conducts tailored threat analysis and risk assessments. Using industry standards (e.g. ISO/IEC62443 for industrial systems or ISO270001, NIST's SbD) and industry best practice, we assess the business risk. We analyse the system, prioritise the most important risks and propose realistic mitigations or design options.

#### Cyber testing environments

When developing or assuring systems, it is imperative that you have a representative environment as well as test data that you can control and manipulate.

Across our areas of expertise, we support clients to develop these environments for development, assurance, interoperability, demonstration, and training purposes. We have experience delivering rich and realistic cyber test environments and in synthetic data

generation to ensure that testing is conducted in realistic, representative, and repeatable conditions. This includes the use of continuous integration and test pipelines to automate testing. By embedding these, clients gain higher-quality outputs faster and the confidence that every change is validate consistently and at scale.

We also supply systems to support enriching existing environments, for example, our Pattern of Life network traffic generator to exercise systems against realistic, high-fidelity network behaviours to give greater confidence in it' resilience

## Key Services

### Conformance testing

- Design assurance
- Implementation assurance
- Interoperability testing
- Automated conformance testing

### Risk assessment and cyber vulnerability investigation

- Prioritise business risks for mitigation
- Apply industry standard methods with deep technical insight
- Socio-technical systems analysis

### Cyber testing environments

- Representative environments
- Realistic cyber testing and assurance
- Pattern of Life network traffic generator



## **Pioneering Technology for Global Security & Future Warfare**

At Roke, we stand at the forefront of defence and security, delivering cutting-edge intelligence and engineering solutions that protect nations, troops, borders, critical national infrastructure and businesses. We bring the credibility of a long-standing defence and security leader, the precision of a specialist, and the agility to solve complex, high-stakes challenges with purpose and impact.

Roke is at the forefront of shaping the future of digital defence, intelligence, and national security.

**We are Roke. We are Changing Worlds.**

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