

ROKE



Secure Communications Network and Service Design and Migration

G Cloud 15
Service Definition

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Secure Communications Network and Service Design and Migration – Service Definition

Benefit from research and implementation advice on network function virtualisation (NFV) and software defined networking (SDN) for cloud and remote environments including crypto-based network overlays for voice and data services.

Roke provides architecture, design and assurance services for cloud and edge communication networks and services ranging from secure operations centres to deployed tactical communications and information systems.

We provide advice on the technical and organisational implications of the transition to Quantum-Resilient Crypto.

We provide research and advice on network function virtualisation (NFV) and software defined networking (SDN) for cloud and remote environments, including Internet of Things (IoT), mobile, wireless and satcom.

We design, implement, manage, and assure secure, crypto-based network overlays for voice and data services.

having being part of the University of Surrey 5G Innovation Centre at the height of 5G activity. We are also part of the forthcoming SPADS CDT (Sensing, Processing, and AI for Defence and Security).

In support of the BATCIS Private Sector Support contract, Roke provides a blend of enterprise architecture, technical specialists, requirements management and procurement advice to aid the deployment of Tactical CIS solutions for UK MOD.

With deep experience across the National Security, Law Enforcement, Defence, Central Government and Industry, Roke is well placed to understand our client's specific domain and deliver secure communications and networking solutions.

Service Offering

- Enterprise Architecture
- Business Analysis
- Research and Advice
- Service Design
- Service Migration

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 design and migrate your systems to meet your requirements and security properties, providing confidence to your clients and users.

Roke has a long heritage in secure communication and standardisation, including

Detailed Service Definition

Enterprise Architecture

Our enterprise architecture team has a proven ability to conduct digital transformation across the most demanding communications and information systems (CIS) requirements. Most recently, Roke has demonstrated this by supporting the UK MOD LE TacCIS programme. We provide coherence across a complex information environment through our experienced architects that visualise and make sense of enterprise systems of systems.

Roke is involved across government in understanding the latest technology trends and their applications allowing the identification of opportunities to introduce emerging

technology through our evolutionary capability development process. This approach is underpinned by our understanding of Operational Service Management (OSM), enabling the configuration and release of system updates.

Business Analysis

Roke believes a key success factor in deploying CIS solutions is to apply a user-centric design philosophy placing the user at the heart of the design and development process. This approach is reinforced through clear workshop facilitation and business process modelling ensuring all stakeholders understand the intent of the project.

Research and Advice

Roke's expertise in networking standards and implementations makes us well placed to support your secure communications research needs. We provide expertise from the physical layer to regulatory compliance.

We provide advice on applying the latest secure networking technologies within your organisation.

Combined with our Research and Horizon Scanning service, we can offer advice on emerging trends, threats, and opportunities.

Service Design

Roke designs, develops and assures systems using NFV, SDN and cloud technologies.

Our cloud certified engineers provide advice and consultancy, supporting you in meeting your requirements and security properties, whilst working within your performance and cost constraints. Our solutions take advantage of IaaS, PaaS, and SaaS offerings, and can be provided as a managed service.

We apply expertise from our other services, including Information Security Architecture and Design, Cloud Security Advice and Specialist Cyber Training to deliver services which are secure by design.

We also design and build tooling that supports operators to manage their networks efficiently, for example, our Blueprint cryptographic network design tool.

Service Migration

Roke understands that our solutions require through-life management. Service migration is an essential part of providing a good user experience and improving service adoption.

We are experienced in supporting service migration. This includes migrating services into the public cloud, performing data migration, managing key material and ensuring compliance and monitoring systems remain operational.

Key Services

Enterprise Architecture

- TOGAF certified architects
- Complex information systems modelling
- Operational service management optimisation
- Technology road mapping and horizon scanning
- Requirements elicitation
- Design and openness assurance

Business Analysis

- Programme and procurement strategy advice
- Business process modelling
- User-centric design
- Workshop facilitation and stakeholder management

Research and Advice

- Secure communications research
- Implementation advice and assurance
- Emerging trends, threats and opportunities

Service Design

- Solution design
- Secure communications
- System management

Service Migration

- Public cloud migration
- Key material management
- Data migration
- Compliance and monitoring systems



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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