

A man wearing a yellow hard hat, large yellow earplugs, and a white t-shirt with dark blue suspenders is looking down at a tablet computer. He is in an industrial setting with large metal pipes and machinery. The background is partially obscured by a red overlay. A white circular line with a tail is drawn around the worker's head and shoulders.

**IoT security
designed your way**

Ready?



IoT Secure by Design

As buildings, vehicles and businesses become increasingly reliant on the Internet of Things (IoT), it is essential that hardware, software, applications, infrastructure and firmware are architected and designed with security embedded from the outset.

With Vodafone's IoT Secure by Design Consultancy service, we offer professional consultancy and support to help formulate a secure IoT solution, armed with everything you need to know about this business-critical and often complex topic.

What do we offer?

Vodafone provides specialist security consultancy at the earliest stages of IoT solution development.

Our services are the most effective when employed at the feasibility/concept stages of a solution, but we can provide assistance with design, prototyping, testing and evaluation.

Our security specialists offer independent expertise to support your organisation with tailored consultancy to address specific security questions or challenges.

Our consultants can identify the vulnerabilities or weaknesses of either new or existing hardware, software, applications and infrastructure, and they will advise on any remedial action necessary to secure IoT services.

Experience at your service

Vodafone has developed many of the IoT technologies and standards that are utilised across mobile networks, ensuring that we are well-placed to provide advice on them.

Our consultants, working across the entire IoT sector, understand the complex security environment required to protect these solutions.

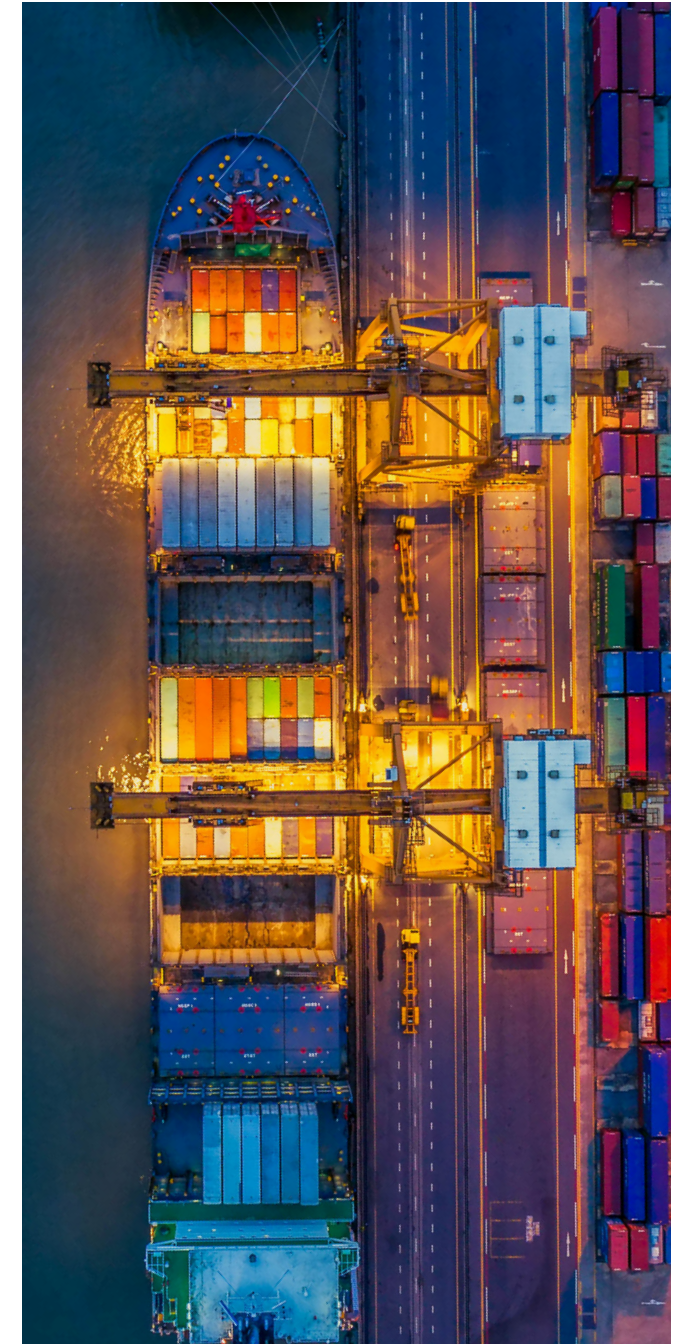
We have access to partners who have decades of experience of IoT and related technologies spanning all market sectors.

Our IoT Secure by Design Service can be combined with our other Professional Services to ensure that security-centric technology is integrated into your IoT development roadmap.

Benefit from Security Consultancy

With our consultancy, you will benefit from:

- R&D innovation, market research and emerging technologies advice, including lifetime analysis of security solutions
- Security assurance of concepts, architectures and designs against industry standards and best practices, including red teaming possible attack scenarios before procurement



- Assistance with secure accelerated/agile development of hardware, software, firmware, applications and infrastructure
- Component selection advice
- Products and solutions differentiated against competitors with a focus on protecting confidentiality, integrity and availability
- Development of security testing plans to validate architecture and design against threat profile and realistic risks
- Detailed, risk-based secure code reviews
- Network Design Consultancy experience and expertise as one of the first organisations to apply a Security by Design approach to 5G.

IoT Secure by Design approach

Our consultants will work with you to help understand the security requirements of the solution and tailor these to your organisation. Traditionally in many organisations, security sits in the IT stack with a focus on back-end servers and the boundary, whereas IoT security must be considered across the whole end-to-end solution. Our approach is to understand the IoT vulnerabilities and weaknesses as early as possible in the solution lifecycle to eliminate abortive works and the procurement of systems that will not meet the increasingly demanding security requirements.



Vodafone is uniquely positioned as the global leader in IoT with experience and specialist knowledge in driving security best practices and can leverage a wealth of experience in mobile network security techniques for all kinds of IoT applications. As a key developer of many of the standards used by mobile networks, Vodafone is experienced at delivering security capabilities to our customers.

Within Vodafone IoT and its trusted partners, there are many security specialist teams that provide a diverse range of knowledge and skills.

Whether it is a consumer-focused or a military application, using tried and tested methods or the latest technology, Vodafone IoT has the ability to deliver highly skilled consultants (with security clearance where required) who can assist you.

Why Vodafone?

Vodafone has more than 20 years' experience in the IoT arena with more than 1,300 dedicated IoT experts. We bring unrivalled capabilities together as one of the world's largest mobile networks with outstanding customer experience and a long track record of success with more than 100 million IoT connections deployed.

Next steps

To discover more about how IoT Secure by Design from Vodafone can help your organisation optimise your IoT solution effectively and affordably, contact **IoT@vodafone.com** or visit **vodafone.com/business/iot**.

www.vodafone.com/business

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Ready?

