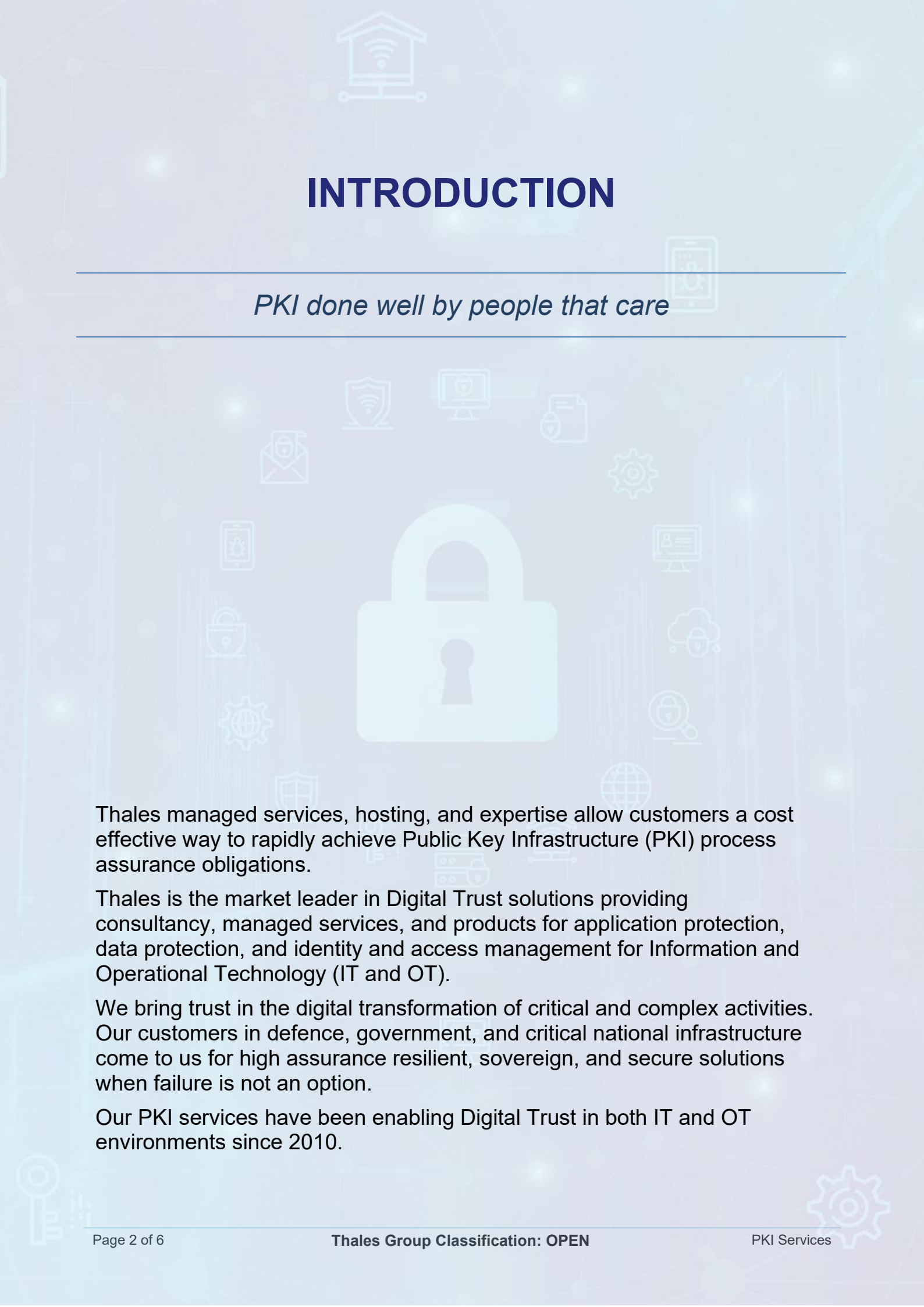




G-Cloud 15 PKI SERVICES

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INTRODUCTION

PKI done well by people that care

Thales managed services, hosting, and expertise allow customers a cost effective way to rapidly achieve Public Key Infrastructure (PKI) process assurance obligations.

Thales is the market leader in Digital Trust solutions providing consultancy, managed services, and products for application protection, data protection, and identity and access management for Information and Operational Technology (IT and OT).

We bring trust in the digital transformation of critical and complex activities. Our customers in defence, government, and critical national infrastructure come to us for high assurance resilient, sovereign, and secure solutions when failure is not an option.

Our PKI services have been enabling Digital Trust in both IT and OT environments since 2010.

USE CASE

Public Key Infrastructures (PKIs) are relied upon to secure a broad range of digital applications, authenticating everything from software to machines and personal identities.

In today's digital landscape, a secure and well-managed PKI utilising Hardware Security Modules (HSM) is essential for protecting sensitive data, enabling secure communications, and ensuring regulatory compliance. Thales offers comprehensive PKI services and solutions to help organisations enhance PKI security, improve certificate lifecycle management, and boost operational efficiency.

- Secure your digital assets with advanced encryption and trusted key management
- Protect your infrastructure whether on-premises or in the cloud with scalable PKI solutions
- Comply with industry regulations and standards

SERVICE DESCRIPTION

Thales deployment models include hosting on customer premises, by Thales in our secure locations, and/or via cloud based SaaS implementation. In addition, Thales High Assurance PKI as a Service (PKIaaS) offers a multi-tenant value for money option that's fully hosted and managed by Thales. All solutions are recommended and implemented according to customer needs, risk and cost profiles.

PKI Design Build and Maintain

Build a Secure and Scalable Public Key Infrastructure with Thales. In an era where digital security is paramount, a well-designed and robust Public Key Infrastructure (PKI) is essential for protecting your organisation's data and communications. Thales offers comprehensive PKI design, build and maintain services to ensure you have dedicated infrastructure hosted on your sites that is secure, scalable, and tailored to your specific security needs

Features

- Requirements led technical discovery defining scope and technical solution
- Pre-stage build process supporting centralised FAT testing
- Full implementation and deployment of PKI including comprehensive testing
- Hosted on your site, in Thales data centres and/or in the public cloud
- Can be customised to meet your unique security, resiliency and compliancy requirements
- End solution designed and built by Thales, operated by you.
- Thales provides support and maintenance services as required

Benefits

- Provision of scarce security and resilience expertise focused on ensuring non-functional aspects (processes and governance) of the solution are also catered for
- Vendor agnostic architectural blueprints, allowing a modularised solution built to meet your requirements
- Automated PKI certificate issuance and management options through various CLM providers
- UK Government security cleared personnel

Thales Hosted PKI and/or HSM

Thales Hosted PKI/HSM offers our customers a fully definable architecture hosted from a Thales secure site, providing robust security and seamless management without the need for extensive in-house resources.

Our hosted PKI service ensures your digital certificates are managed efficiently and securely from your own dedicated infrastructure, allowing you to focus on your core business activities.

Features

- Fully definable PKI architecture, aligned to the design, build and maintain option referenced above
- Hosted in a Thales secure site
- Real-time monitoring through our central NoC and SoC - Supporting robust data backup, network connectivity and solution resiliency (architecture dependant)
- Thales expert support for HSM and PKI maintenance
- Option for Thales provided custodian (crypto, infra, or both)

Benefits

- Includes maintenance and security by PKI experts with government issued security clearance
- Release your IT to focus on core activities
- Predictable spend
- Solution availability and security monitored by Thales

High Assurance PKIaaS

Managing a Public Key Infrastructure (PKI) can be complex and resource intensive. Thales High Assurance PKI as a Service (PKIaaS) offers a streamlined cost-effective solution that provides robust security and seamless management without the need for extensive in-house resources. Our PKIaaS ensures your digital certificates are produced efficiently and securely, allowing you to focus on your core business activities.



Features

- Predefined PKI architecture with customer configurable options
- Run from government and MOD assured facilities with multi-site redundancy
- Keys stored in FIPS 140 assured HSMs
- Separate logical architecture
- Highly available issuing CAs
- Real-time monitoring and robust data backup

Benefits

- No separate HW & SW to buy and maintain
- Includes maintenance and security by PKI experts with government issued security clearance
- Release your IT to focus on core activities
- Predictable spend
- Availability & security monitored by Thales
- Deploy faster and flexibly scale

High Assurance HSMaaS

Where a full PKI is not required Thales can provide HSMaaS, to safeguard business critical key generation, storage and management.

Features

- Run from government and MOD assured facilities with multi-site redundancy
- Providing FIPs 140-3 Level 3 Hardware Security Module capabilities
- Shared physical infrastructure with logical segregation of keys into dedicated partitions
- Dedicated keys and tokens used to support MofN when performing cryptographic operations
- PKCS11 or RestAPI integration interfaces
- Real-time monitoring through our central NoC and SoC - Supporting robust data backup, network connectivity and solution resiliency (architecture dependant)

Benefits

- No separate HW & SW to buy and maintain
- Includes maintenance and security by PKI experts with government issued security clearance
- Release your IT to focus on core activities – No need to maintain scarce HSM SQEP within the business
- Predictable spend
- Availability & security monitored by Thales
- Deploy faster and flexibly scale

DETAILED SERVICE OVERVIEW

Thales offer a suite of cryptographic services, delivering highly assured and secure Public Key Infrastructure (PKI) consultancy and managed services and Hardware Security Module (HSM) hosting solutions into UK Government, Defence and Critical National Infrastructure, both on-premise and in the cloud

We prefer to act as the key integrator rather than just deliver a technical solution. We find the technical solution is usually only a small part of a wider puzzle and in fact integration and the understanding of business logic and use cases ultimately provides a much more appropriate solution

We believe PKI is a 20/80% split over technical and governance/assurance, respectively. Meaning the easier part is delivering a PKI to issue certificates. The mostly overlooked part is how you design, operate and integrate that solution, understanding the governance and policies/procedures that have to be introduced and adhered to in order to ensure the solution maintains its security posture throughout its lifetime.

All managed services are assured to commercial and governmental standards.

The Thales PKI Service Portfolio



We begin with a thorough consultation to understand your organisation's requirements and security goals. Our experts will work with you to develop a detailed PKI strategy and implementation plan. Leveraging industry best practices and the latest technologies, we design a PKI solution that aligns with your operational needs and compliance requirements. Our team handles the complete setup and integration of your PKI on your site or ours, ensuring seamless operation. Rigorous testing and validation processes are conducted to ensure the PKI is functioning correctly and securely before going live.

ABOUT THALES

Thales in the UK has been harnessing technology to benefit the nation for over a century. Across all walks of life, you will find us securing and protecting every moment. We develop world-leading capabilities to help our customers think smarter and act faster.

Thales collaborate with partners in both government and industry, providing cutting-edge technologies to the civil and defence markets.

Thales has a significant presence across the UK, with locations strategically positioned in England, Wales, Northern Ireland, and Scotland. This geographic reach enables us to effectively support the diverse needs of local communities while contributing to the economic prosperity of all four nations. Our key facilities, along with several customer-facing sites, extend from the South West of England to Glasgow, reinforcing our commitment to regional investment and development.

The most trusted organisations in the world rely on Thales for cybersecurity solutions that keep critical assets safe. With more than 6,000 cybersecurity experts worldwide, our portfolio protects applications, data and identities, including services that close compliance gaps, detect and monitor threats and strengthen defences.

For further information, please see <https://www.thalesgroup.com/en/worldwide/united-kingdom>

