

Enabling Quantum Safe Systems with Post Quantum Cryptography G-Cloud 15





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1 Service Overview

Capgemini's "Enabling Quantum Safe Systems with Post Quantum Cryptography" service provides Government with a complete solution for transitioning to quantum-resistant encryption by implementing Post-Quantum Cryptography (PQC) which are new encryption standards designed to withstand quantum attacks.

Quantum computing itself represents a fundamental shift in technology that will redefine cybersecurity. Unlike traditional computers which process information in binary bits (zeros and ones), quantum computers use quantum bits (qubits) that can exist in multiple states simultaneously. This paradigm change brings both extraordinary potential and unprecedented risks to current digital security systems.

Our end-to-end PQC service combines strategic planning with practical implementation, ensuring the target service infrastructure remains secure in the new technological age while continuing to provide operational functionality.

2 Business Need

The advent of quantum computing will render current encryption methods obsolete, much like how digital computers made older mechanical systems redundant. This is not just an incremental change; it is a complete rethinking of how we secure information. The implications are particularly significant for government in that

- Sensitive data protected by today's encryption could become vulnerable when quantum computers become routinely available and able to handle real-world challenges (there is a 1-in-2 chance of this happening by 2035).
- Critical public services need long-term security solutions that will remain effective for decades.
- The transition requires careful planning to avoid service disruption.
- Early adoption is more cost-effective than a reactive, potentially emergency, upgrade later.

3 Our Approach

We provide guidance through four key phases of PQC readiness using methods that match public sector needs.

- **Strategy:** We help you identify and understand the most vulnerable systems in your ecosystem and create a priority driven transition plan that aligns with NCSC guidance and U.K. security standards.
- **Implementation:** Our cybersecurity specialists carefully upgrade your systems using HMG approved encryption methods, ensuring continuous operation throughout the change.
- **Testing:** Before full deployment, we validate the new security measures through pilot testing, identifying and resolving any issues in a safe environment.
- **Independent Assurance:** We provide thorough verification that your upgraded systems meet all security requirements and compliance standards for the quantum era.

4 Buyer Responsibilities

Please refer to the Supplier Terms listed with this service on the Platform. These may contain additional Buyer obligations/costs the Buyer is subject to that are not identified anywhere else in the Supplier's Application or on the Platform.

The Buyer responsibilities as part of this service are as follows:

Adequate access to a Senior Responsible Owner(s) to confirm the ambition and the bounds of success.

Adequate access to key stakeholders and decision makers to be able to find the high value use cases, prioritise their realisation and co-construct the Proof-of-Concept(s).



Share relevant system information and security policies, under secure and confidential conditions if required.

Acceptance of an end-to-end co-construction plan to ensure commitment, buy-in and cohesion of teams to the transformation.

Support testing and staff training activities.

If these responsibilities do not match your expectations, then please contact us in order that we can explore options to vary our approach.

5 Service Management

This service can be delivered as a defined project or on a day rate basis.

6 Protection of Data

This service is based on a security classification of 'Official', however should you have a requirement for a different security classification that you would like us to consider, please contact us to discuss. Additional requirements this may be subject to additional Charges in accordance with the SFIA Rate Card.

7 On-boarding and Off-boarding

Prior to the execution of the Order, the Supplier and the Buyer will agree the scope of the exit plan for the Services and a timescale for delivering an exit plan to ensure continuity of service.

Capgemini's service offer is based on 10 Working Days for completion of on-boarding activities and the production of an exit plan. Capgemini can provide additional consultancy to facilitate on-boarding and off-boarding should a Buyer have specific requirements they may wish Capgemini to consider. This additional consultancy (including any additional exit plans required) and any exit assistance, such as assisting with the handover of Capgemini provision of the Services back to the Buyer or another supplier the Buyer may appoint, shall (unless otherwise agreed) be performed, and fees paid, applying the applicable Fee Rates as set out in the "Service management" column of Capgemini SFIA rates table.

8 Skills and Knowledge Transfer

Capgemini recognises that skills and knowledge transfer is a critical element in the provision of G-Cloud services to public sector clients. Where possible and applicable, this forms part of the delivery plan for the service agreed at the start of the engagement. Our consultants and engineers are experienced in providing skills and knowledge transfer for major private and public sector clients.

Where appropriate, we may use a standard approach, tailored to topic, skills-gap and individual, to ensure consistency and effectiveness. The approach, Capgemini's Assess-Plan-Implement framework, has been used repeatedly by our teams to structure the work involved in transferring skills and creating new teams capable of driving and sustaining change long after the end of the formal programme. The framework can be applied throughout a project to understand knowledge transfer objectives, plan training delivery methods and materials, and deliver and evaluate success.



9 Partnerships/Alliances

Capgemini has an agreement with PQShield, whose researchers and advisory board co-authored key NIST selected algorithms.

10 Vendor Accreditations/Awards



For the 13th year in a row, Capgemini has been recognised as one of the World's Most Ethical Companies® by the Ethisphere® Institute. This is an acknowledgement of our ethical culture that makes us an employer of choice and responsible player in the eyes of our clients, shareholders, and the wider community.



ISO 9001 Quality Management for Management Consultancy and IT Implementation and services to the Public Sector



ISO 27001:2013 - Provision (Delivery) of IT services including business applications development, maintenance and Data, Digital and Cloud technologies.



NelsonHall has identified Capgemini as a Leader in its 2022 NEAT Vendor Evaluation for Learning Services due to its ability to meet future client requirements as well as its capability to deliver immediate learning benefits to them.

Capgemini is the first amongst consultancy and technology firms to be recognized six times in a row for its thought leadership reports.



2023 Ecovadis Platinum Rating: We maintained a platinum rating, recognising us as a responsible and sustainable business in the top 1% of companies assessed.



Better Society Awards: Our collaboration with Code Your Future to offer digital skills training won a Better Society Award in 2022. The awards celebrate efforts by commercial organisations to create a better society.



Inclusive Top 50 UK Employers List: We achieved second place in the Inclusive Top 50 UK Employers List 2022/23 – a list that assesses companies for best practice on diversity, equality and inclusion



UK Best Workplaces for Women: We were listed as a Best Workplace for Women by Great Place to Work®. This listing is based on responses from our team to an anonymous survey about their employee experience.



UK Best Workplaces for Wellbeing: We are listed by Great Place to Work® as a Best Workplace for Wellbeing



Great Place to Work: We were certified as a Great Place to Work® in 2023, reflecting our employees' experience of working at Capgemini in the UK.

11 Sub-contractors

Capgemini can offer these services using either onshore UK resources or offshore resources. Should the Customer choose an offshore service from India, then Capgemini UK may use the following subcontractors to deliver this service:

Capgemini Technology Services India Limited.

12 Business Continuity and Disaster Recovery

No disaster recovery plan is provided as part of these Services.

13 Pricing

This service is priced in accordance with the SFIA Rate Card attached. Capgemini can also provide offshore resources at reduced rates where appropriate. Projects can be priced either on a Time & Materials or Fixed Price basis.

14 Ordering and Invoicing

Please refer to the Supplier Terms for this service.

We would be pleased to arrange a call or meeting to discuss your requirements of our service in more detail.

15 Termination Terms

Please refer to the Supplier Terms for this service.



16 Further Information

For more information about this or any of our G-Cloud services, please contact our Public Sector Team.

Phone: 0370 904 4858

Email: publicsector.opps.uk@capgemini.com including the following information:

1. The name of this service.
2. The name of your organisation.
3. Your name and contact details.
4. A brief description of your business situation.
5. Your preferred timescales for starting the work.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

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