



Security Architecture and Engineering Service

Contracting body

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Service Definition overview

The complexity of information services has rapidly increased with the advent of transformative technologies such as mobility, virtualisation, and cloud, and continues to evolve through cloud-native architectures, extensive third-party integration, automation and continuous delivery. At the same time, regulatory compliance has increased substantially, and assurance expectations remain high. Traditional approaches struggle to keep pace with the impact of these transformative technologies, and this has resulted in a widening cybersecurity gap, negatively impacting the foundational security principles of Confidentiality, Integrity and Availability.

The cyber security threat is continuing to escalate, with a trend towards better prepared and targeted attacks, including ransomware and data extortion, supply chain compromise and identity-based attacks. As a trusted provider of cybersecurity architecture and engineering expertise, CGI can enable your organisations to close this cyber security gap through pragmatic, risk-driven security architecture and secure engineering practices that are practical to implement and operate.

Why CGI?

For over 40 years, CGI has helped secure government and commercial clients and delivered some of the most complex technology projects and services. We combine deep cyber security expertise with practical delivery experience to ensure security designs are implementable and operable.

In the UK CGI has a very experienced cybersecurity architecture and secure engineering practice, built upon the practical experience of designing, building and operating key operational systems for many government departments and commercial clients. CGI is able to support a broad range of security architecture and engineering needs for modern ICT services.

We have end-to-end coverage of the system lifecycle - ranging from definition of solution architecture options, through increasingly detailed phases of design to 24/7/365 operational support, maintenance and testing of the security aspects of services and systems. We can also advise on the integration of security into development approaches including Agile and DevSecOps whilst ensuring that Data Protection and Security is considered by Design and Default (including security and privacy by design principles).

1. Service Description

Key characteristics of CGI's Security Architecture and Engineering Service are:

- Adopts a pragmatic risk-driven approach for all architecture and design work to ensure the optimum balance of information security risk and benefit versus whole-life cost, time and implementation risk.
- Our experience in building and running systems means we have learnt many practical lessons, and we use these to inform proper consideration of architecture requirements relating to availability, resilience, performance, and scalability.
- Consideration of target architectures, infrastructures and operational IT support functions when recommending security solutions, boundary controls and secure information exchange.
- Provision of Security Architecture Roadmaps to outline the current and target architecture states and transition that can be aligned to the organisations business strategy.
- Integration of security architecture and secure engineering practices into Agile and DevSecOps delivery approaches, including consideration of CI/CD pipelines and infrastructure-as-code.
- Threat modelling and security requirements traceability to support proportionate control selection and demonstrable security by design.

We cover all aspects of ICT architectures from network through to information management, with traceability to business layers.

CGI maintains collaborative relationships with a broad ecosystem of leading cyber security product and service providers. This enables us to include and evaluate the best approaches and technical products within our solutions, whilst maintaining independence from any supplier.

The CGI approach combines leading enterprise architecture and system engineering disciplines with specific information security methods and models. Appropriate attention is given to the operational context of security solutions and architectures.

CGI can support all your security architecture and engineering needs with suitably qualified, security cleared and experienced staff. Our services will fully account for the operational context and current status of IT services and security controls within the target organisation. We have divided this broad service area into categories as follows:

- Security architecture development and assurance
 - Enterprise-level security architecture principles
 - Identifying the security domains and the trust model
 - Determining technical security requirements for compliance and operation
 - Selection of logical and physical security controls
 - Security transformation and improvement programme definition
 - Risk management, including classification, identification, assessment, mitigation and monitoring
- Security engineering and design services
 - IT Infrastructure security services
 - Security standards compliance
 - Secure application architecture and design services
 - Managed security service architecture, design and implementation
- Specialist security services
 - Cryptography management and PKI-enabled trust services
 - Secure Mobility solutions
 - Secure cloud solutions (including cloud and hybrid security architecture and guardrails)
 - Secure cross domain information gateways
 - Industrial Control Systems (ICS) and Operational Technology (OT) architecture.
 - In summary, this service provides support to your organisation to aide in reducing security risk and improving assurance through a pragmatic, business-aligned security architecture approach. It enables secure, efficient digital delivery and provides a clear roadmap for sustainable improvement over time.

2. Data backup and restore

CGI can carry out backup and restore activities in accordance with any specific requirements and in compliance with the IA Backup / Restore policies as defined in ISO 27001; any information that has been processed as part of an engagement will be stored securely. Where applicable, this information can then be restored from an appropriate back-up, should the need arise.

3. Service Continuity

CGI will agree appropriate service continuity in accordance with any specific requirements, and any conditions that need to be met.

4. Onboarding and Offboarding

4.1. Onboarding

For Specialist Cloud Services, CGI will engage directly with the client to ensure the full scope of the requirements is understood and agreed in advance of any engagement. We will work with senior stakeholders to define the necessary business outcomes and ensure the services are aligned accordingly.

For all services, CGI understands the client's requirements and make on-boarding specific to these needs, using the experience, lessons learnt and methodology from many years of public sector transition experience, we can quickly align to client joiners, movers and leavers policies and ensure that we have appropriately cleared staff for every engagement.

4.2. Offboarding

Off-boarding is instigated by a client request or after expiration of the service agreement.

4.2.1. Access to data upon exit

Deletion of any virtual machine image and data will occur in line with the service agreement. Any required data will be made available using appropriate media, in line with the data security classification. After client notification that data has been successfully recovered, CGI will purge and destroy client data from any computer or storage device or media that remains part of CGI's estate, with the exception of any data related to a data retention agreement between a client and CGI.

5. Service constraints

CGI will work with you to define and tailor the services to meet your specific requirements. During this definition period, detailed responsibilities will be agreed across the service delivery. Examples of common general constraints are listed below:

- Share the existing internal sponsorship and governance for Information Assurance.
- Assign or appoint a suitably skilled and empowered person to act as the receiving client.
- Provide appropriate access to its policies, processes and standards for the Information Assurance service and other suppliers.
- Provide timely information relating to its business plans, goals and projects.

As a main feature of any Service will necessitate an on-going dialogue with client representatives, the most important responsibility of the Contracting Body is to ensure the timely availability of individuals for fact-finding interviews.

6. Service levels

The overall accountability for the relationship with the client lies with CGI's Executive Sponsor and CGI Account Manager and they will provide strategic governance to the service working closely with the client's Senior Executive team or nominated delivery / engagement contact. The purpose of this team is to ensure that the relationship is collaborative, the service is delivering, as agreed, the governance model is working, and best practice is being applied.

7. Hosting options and locations

CGI has a network of 21 offices across the United Kingdom and Northern Ireland, with our UK members having the capability to deliver as hybrid-workers. Through our engagements we also understand that for some clients it is essential that our members are physically present on their sites, our distributed network of offices makes this possible. Whatever your requirements are the options for hosting and locations will be agreed at contract negotiations.

8. Security

CGI has invested significant resources to develop an Enterprise Security Management Framework (ESMF) based on recognized industry standards and applicable regulations or legislation such as ISO 27001, ISO27701, NIST, COBIT, CIS, CCPA and GDPR to name but a few. This framework is used across the global organization to protect information assets, technologies, facilities and CGI members, including the data managed across the business, and is supported by CGI's security and privacy policies, standards and controls (Security Baseline) which are implemented through our processes, practices, services, solutions and our interactions with any third parties working on behalf of CGI.

Across the CGI business, the technical and organizational measures are defined using a risk-based approach. This takes into account the nature, scope, context and purposes of processing as well as the risk to the rights and freedoms of natural persons, where CGI is acting as either the data controller or data processor. This ensures a level of security and privacy appropriate to the risk, in situations where CGI holds responsibility and accountability for personal data processing.

CGI's ESMF Security Baseline is the minimum security standard for all CGI offerings (including cloud based services) to be applied by both CGI and clients. In some cases, CGI Security or Data Privacy may wish to add additional controls e.g. where sensitive personal data is involved. Where CGI or our clients agree to strengthen the level of security or privacy to take into account specific requirements (risks, regulatory requirements, etc.) these additional security or protective measures will be defined within the CGI contracted services, particularly where CGI may be acting as data processor on behalf of a client.

9. Service Pricing and Terms and Conditions

9.1. Pricing

Please refer to the G-Cloud 15 portal for the rates available.

9.2. Terms and Conditions

Please refer to the associated Terms and Conditions Document relevant for this Service including termination by the Buyer or Supplier.

10. Further information

For more information about this or any of our G-Cloud services, please contact us:

Phone: +44 0845 070 7765. Ask to speak to the G-Cloud team.

Email: uk.gen.ccsframeworks@cgi.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.

We will prepare a quotation for you. Once the quotation is agreed upon, we will issue you the necessary documentation (as required by the G-Cloud Framework) and ask you to provide us with a purchase order.

Once we have received your purchase order, the services will be configured to the requirements agreed with invoices issued to you for the services procured. On a monthly basis, we will also complete the mandated management information reports to Government Procurement.

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The information in this proposal is submitted on 30 Jan 2026 - Issue 1.0 on behalf of CGI by the following authorised representative:

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