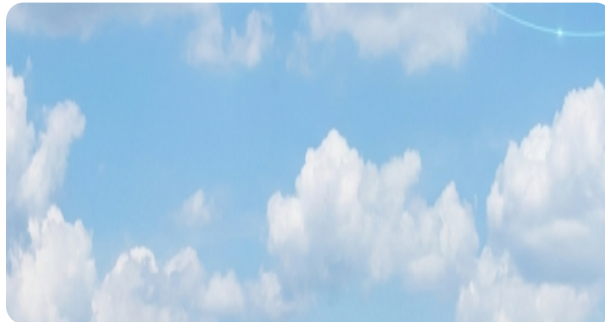




Crown
Commercial
Service



Developing TOM and Service Integration (SIAM) Capability

GCloud Service Description Document

Bringing Ingenuity to Life.
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Contents

Developing TOM and Service Integration (SIAM) Capability	4
1.1 Short Service Description	4
1.2 Key Service Features	4
1.3 Key Service Benefits	4
1.4 Service Definition	5
1.5 Why PA Consulting Group (PA)? A trusted partner for cloud, AI, and digital technologies	6
1.5.1 Why PA for cloud, data and AI	6
1.5.2 Cloud capability (assess, design, build, assure, run)	7
1.5.3 AI, ML and data (from strategy to scale)	7
1.5.3.1 Quantum and emerging technologies	7
1.5.4 Cyber security and digital trust	8
1.5.5 What PA will bring	8
1.5.6 PA is fully equipped to manage any challenges or requirements you may present	9
1.6 A Genuine commitment to Social Value	9
1.7 Security Clearance	10
1.8 Next Steps	10



Developing TOM and Service Integration (SIAM) Capability

1.1 Short Service Description

Integrating Cloud Services requires organisations to develop new skills, capabilities, processes and behaviours. This service helps IT organisations define and integrate a Service Integration layer (SIAM) into their Target Operating Model (TOM) enabling them to successfully incorporate Cloud services into the ICT service portfolio.

1.2 Key Service Features

1. Updates Target Operating Model (TOM) with Service Integration (SIAM) layer
2. Provides tools, processes & expertise to execute Cloud strategy
3. Reduces risk of cloud integration failure
4. Brings Cloud integration specialist experience to internal teams
5. Aligns IT organisation to support and deliver Cloud services
6. Identifies, resolves and integrates process with internal and external organisations
7. Optimise organisational ability to adopt Cloud
8. Successfully integrate services between traditional IT systems and Cloud
9. Provides a SIAM governance structure consistent with new operating model
10. Develops leadership and behaviours approach consistent with new environment

1.3 Key Service Benefits

1. Optimises costs, improves time to market, improves customer experience
2. Ensures operating model covers service integration capabilities
3. Realisation of cloud integration strategy
4. Detailed design of SIAM layer including people, process and tools
5. Optimises Target Operating Model (TOM) for post cloud integrations
6. Produces detailed ICT organisation design for SIAM layer
7. Provides implementation plan to achieve Target Operating Model (TOM)
8. Provides skills, capabilities and processes necessary for cloud integration
9. Prioritises activity consistent with vision, constraints and opportunities

1.4 Service Definition

Integrating Cloud Services into a complex environment of home-grown legacy services and bespoke supplier offerings will place new demands on your IT organisation and requires new skills, capabilities, processes and behaviours.

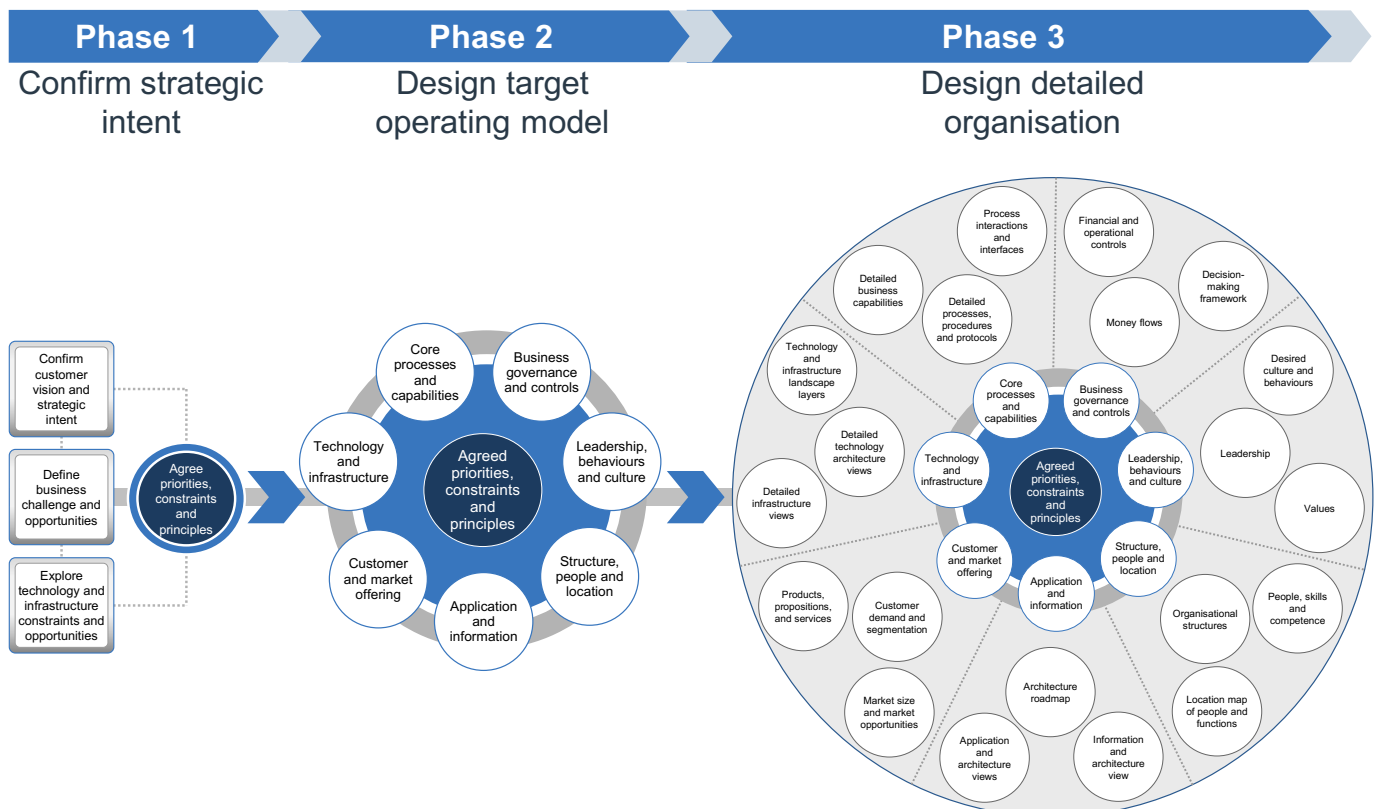
This service helps organisations define the changes required in their IT department to enable them to successfully incorporate Cloud services into the overall ICT service portfolio. The output of this service will be:

- **Target Operating Model:** High level description of how the Service Integration (SIAM) layer will interact with the rest of the operating model, clearly defining the Roles, Responsibilities and Accountabilities across each layer.
- **Service Integration layer (Capabilities, People, Process, and Toolsets):** Provides detailed description of operating principles, capabilities, processes, ways of working, and the structure of the organisation that integrates with the target operating model.
- **Implementation Plan:** A list of the activities required to implement the Target Operating Model including timings, milestones, dependencies and high-level output descriptions.

Integrating Cloud Services is complex - many factors will affect overall success, and each has an impact on the rest of the organisation. These factors include the people, the processes they use, the way they are organised and structured into teams, the way they are measured, managed and governed, the way information is used, the technology they work with, the suppliers they engage, and the way they are led.

Creating a high performing integration capability is about understanding what the new function needs to be capable of, then shaping each of these factors to deliver the performance you need.

We deliver this through our Target Operating Model (TOM) framework which adopts a top-down approach to designing these elements from governance and culture to tools and procedures.



The three key phases in developing the Service Integration framework are

1. Confirm vision and principles for new organisation
 - a. Design high-level Target Operating Model (TOM)
 - b. Produce detailed Service Integration (SIAM) design

We will work with you to develop and embed a Service Integration layer in the Operating Model for your ICT function which is optimised for the integration of Cloud Services into your existing service portfolio. We will assess your current capability to integrate services procured from the Cloud with existing internally and externally provided services. We will work out which capabilities you need to develop and how best to fill the gaps.

We will advise you on the right organisational design, process framework and governance regimes and work side by side with you to develop in-house capabilities, processes and behaviours.

We also understand that design is just the first step of delivering IT transformation and once the TOM has been developed and approved we will create an implementation plan which will include:

- the capability gap, based on “as-is” compared to future capability requirements, considering both skill levels and capacity required by the new service and integration responsibilities
- the implementation roadmap for new processes and toolsets required to support the new operating model
- Approach for integrating and embedding the new ways of working
- the approach to any transition of people under TUPE, capability building through recruitment, training and development etc

1.5 Why PA Consulting Group (PA)?

A trusted partner for cloud, AI, and digital technologies

PA Consulting Group (PA) is a leading technology and innovation consultancy and one of the UK government’s most trusted advisors, combining strategy, delivery assurance and deep engineering to turn complex ambition into assured outcomes. We bring end-to-end capability across cloud architecture, data and AI, cyber, and advanced technology R&D, backed by a track record of scaling innovation in the public and private sectors.

Our UK work is anchored by secure, standards-led delivery. PA maintains ISO/IEC 27001 certification across global operations, demonstrating disciplined information security and operational control, and applies UK government good practice (GDS, NCSC CAF) across cloud and digital programmes.

We combine consultancy with real engineering. At our Global Innovation & Technology Centre (Cambridge), 300+ scientists, designers and engineers operate extensive labs and studios to prototype and industrialise solutions, bridging physical and digital from concept to production.

1.5.1 Why PA for cloud, data and AI

- **Hyperscaler alliances without vendor lock-in.** PA is Premier Tier with **Google Cloud** (13+ years; 150+ certifications; specialisations in infrastructure, data analytics, app dev and security) and holds deep **AWS** and **Microsoft** credentials, accelerating secure data foundations and generative AI at scale while keeping advice independent and outcome-led.
- **Responsible AI you can trust.** Our Responsible AI framework, governance toolkits, and risk policy make AI adoption transparent, auditable, and compliant, embedding lifecycle controls, model documentation, and human-in-the-loop safeguards aligned to evolving regulation.
- **Impact beyond pilots.** We help organisations become *intelligent enterprises*, using data and agentic AI to create and protect value, with pragmatic roadmaps from use-case selection to scaled operations.

- **Proof through delivery.** Our client stories span enterprise data platforms, IoT and analytics (e.g., Rentokil Initial), and product innovation at scale (e.g., Unilever) where PA has put data and AI at the heart of continuous, market-leading improvement.

1.5.2 Cloud capability (assess, design, build, assure, run)

PA applies an assured cloud delivery approach to complex government and regulated environments, blending client-side delivery assurance, multi-cloud architecture, and resilient operations:

- **Strategy & readiness.** Maturity assessments, target operating models for hybrid/multi-cloud, and cost/benefit modelling; proportionate GDS compliance and ISO 27001 controls embedded upfront.
- **Design & architecture.** Secure, well-architected patterns across Azure, AWS, and Google Cloud; data platforms, identity and access, and cross-domain solutions for sensitive estates.
- **Build & deploy.** Cloud-native engineering, DevSecOps (CALMR), CI/CD, infrastructure-as-code; automated testing and quality assurance to accelerate safe release.
- **Migration & modernisation.** Legacy transformation, platform reviews, and workload migration tuned to resilience and cost; pragmatic FinOps to keep spend predictable and efficient.
- **Operate & optimise.** Observability, incident management, performance tuning, backup/restore, and change management, maintaining business continuity and reducing total cost.
- **Client-side delivery assurance.** Forward-looking, risk-based assurance that keeps complex programmes on track, covering governance, architecture, testing, migration, service readiness and cutover. See our *IT Delivery Assurance* service.

1.5.3 AI, ML and data (from strategy to scale)

- **Strategy & governance.** AI blueprints, operating models, and policy; enterprise data governance; regulatory readiness; centre-of-excellence setup and change adoption.
- **Engineering & MLOps.** Data platforms on Azure/AWS/GCP, pipelines and feature stores; robust ML lifecycle with monitoring, drift detection and auditability.
- **Generative & agentic AI.** Secure integration of LLMs (including Copilot) into workflows for measurable productivity and quality gains, using guardrails, system cards and ROI framing.
- **Responsible AI.** Lifecycle controls and assurance tooling to manage bias, security and transparency.

1.5.3.1 Quantum and emerging technologies

PA's applied physics and quantum engineering teams help clients unlock near-term value, combining quantum techniques with classical systems for decision support, advanced sensing and secure communications:

- **Decision support & optimisation.** Hybrid quantum/classical algorithms to accelerate complex planning, routing and resource allocation where speed and quality of decisions matter.
- **Quantum sensing & RF.** Novel quantum radio and Rydberg-based sensing to enhance spectrum use, detection sensitivity and resilience in contested environments.
- **Commercialisation insight.** Advisory at the “whole-stack” level, hardware, supply chain, interfaces, and ethics, to move from lab to market within national strategies.

These capabilities are industrialised at our Cambridge centre, turning concepts into robust prototypes and pre-production systems across sectors like defence, energy and transport.

1.5.4 Cyber security and digital trust

Digital trust is central to PA's approach. We design security into architecture, operations and culture, aligning to NCSC CAF and GovAssure, and delivering testing, red-team, SOC design and OT/IoT security:

- **Transformation & architecture.** Secure-by-design patterns, cloud security, identity, and cross-domain data protection (including NCSC-approved Oakdoor data diode products).
- **Assurance & regulation.** CAF/GovAssure alignment and pragmatic remediation plans for government organisations.
- **Testing & resilience.** CREST-aligned penetration testing, red-teaming, incident readiness, and operational resilience.

1.5.5 What PA will bring

Ideation & Strategy

- Cloud strategy and advisory services
- Cloud readiness assessments
- Cost/benefit and ROI modelling
- Security and compliance by design.
- AI/ML and data strategy (blueprints, operating model, governance) with Responsible AI policy and guardrails.
- Quantum opportunity framing and whole-stack commercialisation roadmaps.

Design & Architecture

- Bespoke enterprise and cloud architectures
- Integration with existing IT infrastructures
- Hybrid/multi-cloud design
- Continuity and disaster recovery
- Data platforms and MLOps patterns
- Security, privacy and resilience embedded by design in technical designs
- User-centred-design
- Secure cross-domain solutions and high-side/low-side integration where required.

Development & Deployment

- Cloud-native engineering
- Containerisation, microservices and serverless
- DevSecOps (CALMR) with CI/CD and automated testing
- Generative AI and Copilot enablement with measurable productivity outcomes and run-controls.

Implementation & Migration

- Data migration and legacy modernisation
- Vendor selection and management
- Infrastructure-as-code with progressive, low-risk cutover.

Operations & Management

- Observability, incident management, SIEM/SOC design
- Performance optimisation and cost management (FinOps)
- Backup/restore
- User training and change adoption.

Innovation & Scaling

- Scalable cloud infrastructure to support growth
- AI/ML implementation and scaling
- IoT integration
- Ongoing innovation sprints and R&D, supported by our Cambridge engineering labs for rapid prototyping and pre-production.

1.5.6 PA is fully equipped to manage any challenges or requirements you may present

Across strategy, design, build and run, PA blends independent advice with hands-on engineering, operating to ISO 27001 and UK government standards, and backed by hyperscaler partnership depth. Whether the brief is modernising a sensitive cloud estate, industrialising AI responsibly, or de-risking a quantum-adjacent programme, we bring the multidisciplinary team to get from idea to reality, safely, quickly, and at scale.

1.6 A Genuine commitment to Social Value

At PA, we believe in the power of ingenuity to create a positive human future. Central to this ambition is our commitment to developing high-quality opportunities that enable individuals to acquire leading-edge skills, all within an environment that supports personal wellbeing and growth. We invest in our people through comprehensive training and development, ensuring they are fully prepared to tackle our clients' most complex challenges and advance their own careers.

We recognise that diversity drives innovation. Therefore, our recruitment practices are inclusive, welcoming individuals from all backgrounds. Every member of our team is empowered to reach their full potential through inclusive policies, processes, and a culture that is continuously improved using robust data.

We are passionate about creating genuine opportunities for those facing significant barriers to employment. Since 2023, our Digital Apprenticeship Programme has offered a Digital and Technology Solutions Degree through the University of Roehampton or Northumbria University. Our apprentices typically include first-generation professionals, college leavers, and individuals from ethnic minority backgrounds, many living in deprived areas. Additionally, we offer summer internships for undergraduates entering their final year, hosted at both our central London office and the Global Innovation and Technology Centre in Cambridge.

Economic responsibility is integral to our purpose. PA is accredited as a Living Wage employer, and where relevant, we ensure that our suppliers and subcontractors are paid at least the minimum living wage. We are also a signatory to the Prompt Payment Code, demonstrating our commitment to fair and responsible payments to suppliers.

Our carbon reduction targets have been validated by the Science Based Targets initiative (SBTi). We have a published carbon reduction plan and are committed to achieving carbon net zero by 2040, in alignment with PPN 06/21 criteria for UK public sector contracts exceeding £5 million. In 2024, we achieved a silver EcoVadis rating, reflecting our ongoing progress in sustainability.

We are dedicated to delivering targeted social value and will collaborate with you to determine the most effective approach for you, ensuring our efforts have the greatest possible impact.

1.7 Security Clearance

PA are fully compliant with industry best practices for information security, which includes compliance with the UK MOD Industry Personnel Security Assurance (IPSA) standard, against which we are independently audited every three years. PA also has multiple sites with FSC (previously List X) where our dedicated in-house Security Vetting team are based. This allows PA to achieve security vetting of its employees in a time effective manner ensuring the correct processes are always followed (In accordance with the Security Policy Framework/GS007). As a matter of standard process, PA puts all its eligible employees through the Baseline Personnel Security Standard (BPSS), set out by the Cabinet Office. Those employees working on, or planning to work on, government projects are automatically put forward for SC clearance which are processed via UK-SV (formally the Defence Business Services – National Security Vetting). PA also process DV vetting through the UK-SV and other agencies, these are generally client sponsored.

PA currently have a large pool of cleared individuals (80% of UK Staff). Should a resource be identified where clearance is needed, the PA Security Vetting team will then process the individual through the relevant clearance procedure. The team will also be able to validate all existing clearances held by PA employees when requested.

1.8 Next Steps

This service is intended to help customers develop and deliver successful outcomes regardless of the life cycle stage they are at. PA prides itself on working with clients and helping them to deliver outcomes whilst also providing them the ability to 'stand on their own' so that they can move their solutions forward without future involvement. Please contact us on GCloudFramework@paconsulting.com to discuss your needs further.



About PA.

We believe in the power of ingenuity to build a positive human future.

As strategies, technologies, and innovation collide, we create opportunity from complexity.

Our diverse teams of experts combine innovative thinking and breakthrough technologies to progress further, faster. Our clients adapt and transform, and together we achieve enduring results.

We are over 4,000 strategists, innovators, designers, consultants, digital experts, scientists, engineers, and technologists. And we have deep expertise in consumer and manufacturing, defence and security, energy and utilities, financial services, government and public services, health and life sciences, and transport.

Our teams operate globally from offices across the UK, Ireland, US, Nordics, and Netherlands.

PA. Bringing Ingenuity to Life.

Discover more at paconsulting.com and connect with PA on [LinkedIn](#) and [X](#).

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