

G-Cloud 15

Data Migration and Integration Services

Service Definition

Datasparq Data Migration and Integration Services

Datasparq provides Data Migration and Integration Services that help public sector organisations move, integrate and operationalise data within existing data platform environments. This service focuses on the safe, controlled and reliable movement of data from source systems into target platforms, enabling organisations to improve access to data, reduce operational risk and support analytics, reporting and AI use cases.

Many central government organisations hold critical data across a wide range of legacy systems, operational databases, spreadsheets and unstructured document stores. This data is often difficult to access, inconsistently structured and costly to maintain. Datasparq supports organisations to migrate existing datasets into modern data platforms, and to build robust integration pipelines that keep data up to date over time, and enable opportunities for legacy platform retirement and application rationalisation.

This service is designed to work with existing data platforms. It does not include the design or build of core data platform architecture. Datasparq provides a separate Data Platform Services offering for platform strategy, architecture and deployment where required.

Datasparq is technology agnostic and supports data migration and integration across Microsoft Azure, Google Cloud Platform, Databricks and Snowflake.

Note: Datasparq's Data Migration and Integration Services are designed to operate within an existing data platform environment. Where clients require support with platform architecture, cloud service selection or foundational platform build, this is provided through Datasparq's separate Data Platform Services offering.

What the service covers

Datasparq's Data Migration and Integration Services cover both one off migration activities and the design and delivery of ongoing automated integrations. The service can be tailored to support individual datasets or large scale, multi source migration programmes. Typical areas of coverage include:

- Discovery and analysis of source data, including databases, spreadsheets, flat files and unstructured documents
- Data profiling and quality assessment to identify completeness, consistency, duplication and remediation needs
- Definition of target data structures and mappings aligned to existing platform data models
- Design and development of batch migration processes for historical and reference data
- Design and development of automated pipelines for regular data ingestion from operational systems
- Integration of real time or near real time streaming data where required
- Transformation, validation and enrichment of data to ensure it is fit for downstream use Assurance, testing and deployment of migration and integration pipelines
- Monitoring, alerting and ongoing maintenance of data pipelines in live environments

- Legacy platform retirement and application rationalisation to deliver cost savings post-migration.

The service supports a wide range of integration patterns, including API based ingestion, database replication, file based transfers and event driven architectures.

How Datasparq works

Datasparq takes a structured, engineering led approach to data migration and integration, with a strong focus on reducing risk and ensuring continuity of service. Our teams combine data engineering expertise with practical experience delivering complex migrations in operational environments, often alongside wider organisational change programmes.

Our approach typically includes:

- Early data discovery and profiling to surface data quality issues and dependencies before development begins
- Clear scoping and prioritisation of datasets based on business criticality, risk and effort
- Collaborative definition of data mappings, transformation rules and validation criteria with business and technical stakeholders
- Incremental migration and integration, allowing data to be validated and refined in stages
Automated testing and reconciliation to provide confidence in migrated and integrated data
- Secure by design delivery, aligned to existing platform controls and public sector assurance requirements

Datasparq designs integrations to be observable and supportable, with logging, monitoring and clear operational documentation. Where required, we provide ongoing support and maintenance for data pipelines, ensuring issues are identified and resolved quickly and changes can be introduced safely over time.

Where required, Datasparq provides support using NSV SC-cleared personnel, enabling safe operation within sensitive or restricted public sector environments. Security, data protection and responsible use of AI are embedded into day-to-day service operation, aligned with ISO/IEC 27001 controls and government guidance.

Responsible and trustworthy AI

Responsible use of AI is a core part of Datasparq's offering. We support public sector organisations to design AI strategies and solutions that are ethical, explainable and aligned to existing data protection, security and assurance frameworks. This includes consideration of:

- Data governance, quality and provenance
- Model transparency, accountability and monitoring
- Human oversight and decision support
- Organisational controls, assurance and risk management

Our work helps organisations move forward with confidence by ensuring that governance and responsibility are designed in from the outset, rather than treated as an afterthought.

Enabling adoption and long term value

Datasparq recognises that strategy and solutions alone do not deliver outcomes. Successful AI and data initiatives depend on adoption, skills and cultural change. As part of our engagements, we help organisations plan for:

- Workforce impact and skills development
- Change management and communications
- Measures and metrics to track value and benefits realisation
- Building sustainable in house capability rather than long term dependency

This ensures that AI and data investments translate into improved services, better decisions and lasting organisational capability.

Typical outcomes for buyers

By the end of a Data Migration and Integration Services engagement with Datasparq, organisations typically have:

- A clear understanding of their source data landscape and data quality risks
- Migrated datasets that are structured, validated and aligned to existing data platforms
- Automated and reliable data pipelines that reduce manual effort and operational risk
Improved data availability for analytics, reporting and AI use cases
- Greater confidence in the accuracy, timeliness and governance of integrated data
- Clear operational processes for monitoring, maintaining and evolving data integrations
- Infrastructure and hosting rationalisation and cost savings, via legacy platform retirement and application rationalisation

Datasparq's Data Migration and Integration Services help central government organisations unlock the value of their existing data, reduce dependency on legacy systems and establish reliable data flows that support better decision making and digital services.

Further Service Details

Pricing

This service will be based on the standard Datasparq rate card for consulting services.

Standards and assurance

Datasparq delivers its services in line with recognised UK Government standards and good practice for security, data and digital delivery. We are ISO/IEC 27001 and Cyber Essentials certified and operate in accordance with UK GDPR and the Data Protection Act 2018.

Our services align with relevant government guidance including the NCSC Cloud Security Principles, the Technology Code of Practice, and established approaches to data governance, ethics and responsible use of AI. We apply proportionate security, assurance and risk management controls based on the nature of the service and the data involved.

Datasparq applies a responsible and ethical approach to the use of AI. We work with clients to ensure that algorithms and data driven tools are used fairly, transparently and without bias or prejudice. Where potential ethical risks are identified, we will raise these with the client and support appropriate mitigations to ensure fair treatment of individuals and compliance with relevant standards and guidance.

Service Constraints

Specific service constraints will be agreed at initial engagement, however typically no maintenance or modification to developed solutions shall be undertaken without direct approval from the customer.

If operationally necessary, any scheduled modifications and enhancements to developed solutions will be undertaken outside of typically working hours or in scheduled system downtime.

Service Levels

Specific levels of service and expected performance criteria will form part of the engagement scoping and contractual agreement.

Backup/Restore and Disaster Recovery (DR)

Documents and solutions will be regularly backed up as part of our ISO27001 assured backup and business continuity processes agreed. Disaster recovery options will be considered on a case-by-case basis from the needs of the customer.

Factors to consider include:

- Mission critical severity of the solution
- Previously agreed uptime targets
- Size and geographical location of the user base

Solutions range from automated failover capabilities with redundant systems to take load capacity in the event of total failure, to secure off site data storage that can be utilised to recover manually.

Training

Following initial engagement, training documentation will be provided as per the contract specification. If additional training is identified for system end users this can be delivered through service support delivery offering.

Typical training approaches range from workshops and mentoring at service go-live to longer-term solutions such as an extended on-site presence and support. Training will be developed in conjunction with the customer to achieve a best fit for the required skill levels and audience.

Ordering and invoicing process

Initial ordering of services will be confirmed by contract signature and receipt of confirmed purchase order to Datasparq Limited.

Consumer responsibilities

No specific consumer responsibilities have been identified for this specialised service offering. Customer dependencies and requirements will be discussed on an individual engagement basis and be reflected in contractual agreements.