



Data and Migration Testing

G-Cloud 15 Service Definition Document

January 2026

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1 Deloitte Overview

As a leader in professional services, Deloitte LLP is committed to making an impact to our clients, our people and for society. We have over 27,000 staff based across the UK providing audit, risk advisory, tax, consulting, financial advisory and legal services to public and private clients across multiple industries. We work together to build trust, support inclusive growth, and build capability, enabled by our **breadth and depth of expertise across advisory, delivery, engineering and managed services.**

Our **public sector practice** serves Central Government, Government Agencies, Local & Regional Government, Defence, Security and Justice, Health and Social Care, Transport, Education and Housing. We also provide services to the Northern Ireland Office, Scottish Government, Welsh Government and Crown Dependencies.

Our Cloud Capability

At Deloitte, we help our clients **Imagine, Deliver and Run** the businesses of the future through the power of **Cloud**. We have deep Cloud architecture, engineering, operational, commercial, and business transformation expertise delivered by a team of more than 26,000 Cloud Practitioners globally. We have delivered over 2,000 cloud implementations over the past 5 years and have 60+ cloud centres of excellence supporting the delivery of cloud services to our clients.

In the UK, we have a team of over 100 Cloud managed service specialists plus the following certifications across AWS, Microsoft Azure, Google Cloud and Oracle Cloud Infrastructure (OCI):



We help our clients with all aspects of their journey-to-cloud and optimisation of their cloud and cloud-services investments. Our Cloud practice can support you to optimise your client investments, and to navigate your organisations cloud journey, providing specialist cloud architecture, engineering, and operational skills at all stages, with a large proportion of our team holding the clearances required to meet your specific security requirements.

Our AI Capability

Deloitte stands at the forefront of AI transformation and was recognised as a Leader in the 2025 IDC MarketScape for Artificial Intelligence (AI) services for the fourth consecutive time. Supported by a £3 billion investment in AI, Data, Automation, Cloud, and Cyber, we seamlessly integrate our deep AI expertise with our extensive cloud capabilities. Our UK team is part of 339K AI-fluent practitioners globally, and includes over 1,300 AI specialists and engineers, many of whom hold the necessary security clearances for public sector delivery.

Through the Deloitte AI Institute, our hub for cutting-edge research and innovation, and strategic alliances with leading hyperscalers, we empower public sector clients to optimise costs, streamline processes, and navigate their AI journey. We achieve this by leveraging our ReadyAI™ models, which provide end-to-end support for AI solution implementation, and our Trustworthy AI™ framework, ensuring responsible and ethical deployment.

Our alliances & ecosystems

To bring full value to our clients, Deloitte is a premier consulting partner with all the leading hyper-scale cloud vendors in the market including AWS, Google, Microsoft¹, Google and SAP. A selection of our partners and alliances are presented below:



What the analysts say

Don't just take our word for it. Deloitte is recognised by the analyst community as being **leaders in cloud transformation services**. This reflects the wealth of experience we have in delivering cloud services across the public sector and wider private sector combined with our out-of-the-box templates, tools and assets.

Gartner

Originating in 2021, Deloitte has been recognised as a Leader in this category for four years in a row. Deloitte was also positioned as a Leader in the **Gartner Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide** in 2021, 2020 and 2019, the previous form of this category.



Gartner

Gartner: Magic Quadrant for Public Cloud IT Transformation Services. © Gartner inc. 2025

IDC

Deloitte has been awarded Leader status in the **IDC MarketScape: Worldwide Industry Cloud Professional Services 2024** Vendor Assessment. We have also been recognised as Leaders in **Hybrid IT Consulting & Integration Services** and **Software Engineering Services**.



Source: IDC, 2024

IDC MarketScape: Worldwide Industry Cloud Professional Services Vendor Assessment © IDC inc. 2024

Cloud Transformation

Transform Faster, Transform Smarter

Deloitte's Cloud Transformation can fast-forward your journey to the Cloud, unlocking innovation, efficiency, and growth.

[Find out more here](#)



¹ As Microsoft's Independent Auditor, Deloitte cannot have a direct or material indirect business relationship with Microsoft, such as having an alliance or being a registered partner. Nonetheless, Deloitte can provide Microsoft-related technology services and invests heavily across its global business building technical skills and capabilities to develop world-class consulting and solution delivery capabilities.

2 Service Overview

Data is at the core of almost all technical delivery so ensuring the quality of data through to visualisation is critical for projects, products, and businesses to succeed. As data volumes grow, the desire to store and analyse data increases, leading to a demand of big-data testing tools, techniques, and frameworks. More data results in the increased risk of errors whilst also potentially impacting upon the performance of applications.

We offer a range of migration services including Data Migration Strategy, Database and Data Warehouse Migration, Application Migration, and MI Reporting Migration. Our blend of product-based knowledge, coupled with years of industry experience, effectively positions us to achieve the very best testing solutions across the data journey for clients.

Who would benefit from using this service?

- Organisations transitioning from legacy solutions to cloud-based architectures.
- Projects working with multiple datasets of varying quality that must be transformed and combined.
- Teams seeking to implement AI-based technologies that require extraction and transformation of a range of data sources and must ensure the quality and consistency of their data.

Features/Benefits

- **Experience of the core technologies and frameworks**, and others beyond to help inform remaining choices.
- **Standard methods**, but with the flexibility to adapt for your business, to fill gaps teams may have.
- **Flexible resourcing model**, to scale up/down efficiently and deliver at best value – and potentially to even supplement other roles (suppliers and partnership) where dependencies risk not being met.
- **Strong operational knowledge**, to help accelerate stakeholder decisions across all functions and to suggest alternatives that will drive greatest additional value for clients.
- **Proven delivery management**, to take ownership and get the job done in any environment.

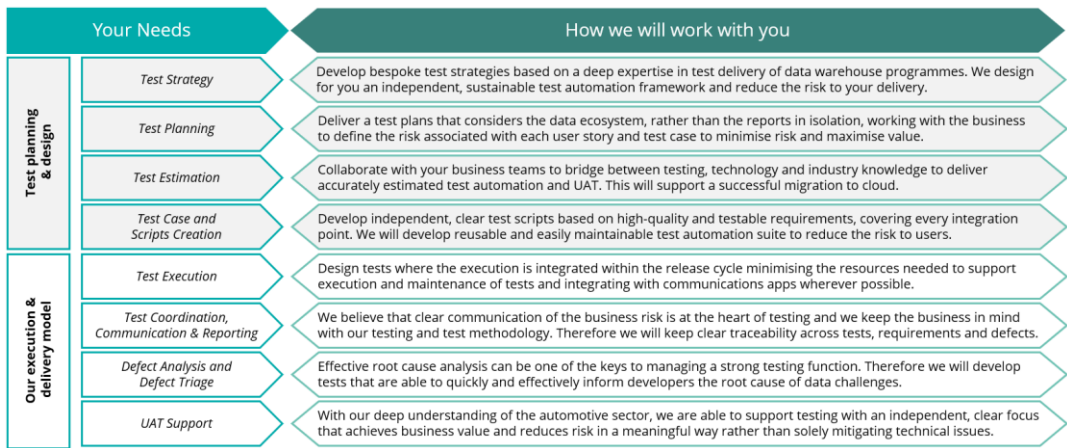
Example Scenarios

- An organisation undertaking a software engineering project involving significant transformation of existing data into new formats or structures as part of an upgrade or replacement to existing systems.
- A project where there are concerns regarding the quality of existing datasets. They need to validate the quality of the data as part of the migration process to gain assurance that the target data store does not contain poor quality or corrupt data.
- A digital transformation project where an organisation is consolidating existing data sources, such as data warehouses, into a single cloud-based data and reporting platform. A key requirement is to ensure all data transferred to the new platform is complete and accurate.
- A team is seeking to implement AI-based technologies and need to extract and transform of a range of data sources whilst ensuring the quality and consistency of their data is maintained so that the language model can process accurately.

3 Detailed Service Description

Data Migration Test Strategy

As companies continue to adopt cloud solutions and modernise their operations, they are increasingly focused on leveraging new cloud-native services during undergoing business transformation. Our Data Migration Test Strategy team is dedicated to supporting clients in the design and delivery of high-quality data migrations, with a focus on minimising customer risk and impact. Our team helps clients bring critical and sensitive data from legacy systems to modern applications and infrastructure.



We firmly believe that a strong Data Migration Test Strategy is essential to de-risking a migration putting quality and testing at the forefront of delivery. This planning should begin early in the project to minimise the risk to quality across the full project lifecycle.

Our Approach

There are several important considerations for each migration:

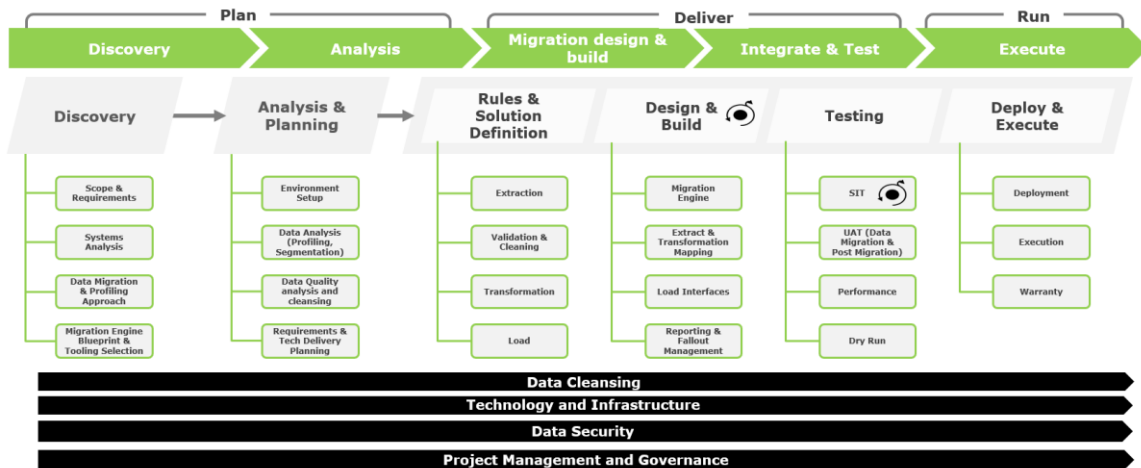
- Data Quality** - It is essential that the migrated data is complete, accurate, and consistent. Any issues with data quality should be identified and addressed or mitigated before the migration process begins.
- Data Mapping** – Mapping the data from the source to target is critical. Using a consistent mapping format for each data source improves the efficiency of testing and reduce the risk of errors.
- Data Transformation** – Defining rules for modifying, summarising, or restructuring data is essential. Areas with high-complexity transformations present greater risk and should be tested more thoroughly to review the data transformation
- Data Reconciliation** – Validating that all expected data has been successfully migrated is crucial. We take a risk-based approach, some areas should be fully reconciled to ensure a 100% match, while other areas with lower risk may be validated in aggregate or through metadata analysis.

By considering these factors, a comprehensive data migration test approach can be developed to ensure that the migration is successful, and that the data is transferred accurately with minimal risk.

Database and Data Warehouse Migration

With the industry exploring the possibilities of AI (Artificial Intelligence) and cloud data analytics moving into the matured mainstream, data quality has become imperative for building high-accuracy data models.

Our team is skilled in the use of a range of testing tools and techniques, including automated testing, to ensure that testing is efficient and effective. We work closely with our clients to understand their specific needs and requirements, and to develop a bespoke testing approach that is tailored to their unique situation.



Our offering:

- Enterprise Data Warehouse Migration Assurance**

Comprehensive analysis of data quality, transformation and reconciliation following a risk-based approach to ensure data warehouses are functioning as intended and the data they contain is accurate, complete, and consistent. Quality assurance services across market-leading platforms, including AWS, Microsoft Azure, Google Cloud Platform, Snowflake, Oracle, and Teradata.

- Automated Reconciliation & Data Quality Analysis**

Validation of data migration can be challenging to complete by hand and is often impossible to do at scale. We have a range of tools and accelerators to automate the verification and validation of data points and the structures that bind them. Our approach involves bringing source data together with the signed-off mapping and transformation rules to generate the expected output. Automated scripts then compare these with the actual system output data and produce clear, succinct management reports and data quality metrics. By automating the E2E flow of information across the solution, the process can be repeated as regression.

- Data Analytics & MI Reporting**

Our team uses both automated and manual techniques to ensure clean data is brought into the visualisation layer within BI/MI reports. This can also involve reconciliation with legacy reporting solutions and providing end-user support as part of transition and cutover. With our expertise, organisations can ensure high-quality data for informed business decisions.

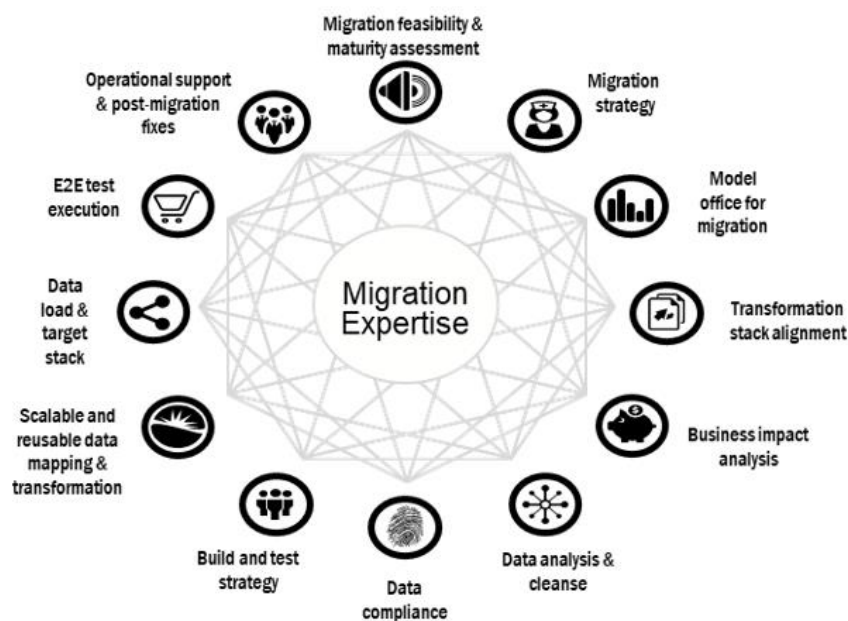
- Bespoke Tools & Accelerators**

We have multiple data validation, reconciliation, and comparison tools that enable us to reduce the execution time with enhanced data accuracy and completeness between source and target. Innovative validation processes to reduce effort and time towards testing and increase business confidence in solution. Integration of our tools with CI/CD pipelines to enable continuous testing across the project lifecycle.

Application Migration

Enabling clients to leverage technological advancements, application migration allows businesses to optimise costs, improve performance, and adapt to changing user needs. We appreciate that moving core business processes to new platforms and tools is a significant step and should not be underestimated. Our SMEs work closely with your technology leaders to achieve these strategic goals to enhance competitiveness, efficiency, and agility in the market.

Our Application Migration capability includes test environment setup, test data management, defect management, functional testing, configuration testing, integration testing, performance testing, compatibility testing, data migration testing, user acceptance testing (UAT), disaster recovery testing, and post-migration support.



MI Reporting Migration

Our reporting migration test capability is a powerful tool that can help businesses streamline their reporting process. Using our in-house test automation frameworks, we support your reconciliation of reports across Tableau, PowerBI and Qlik whilst reviewing critical business logic quickly and efficiently.

We have the expertise to ensure a seamless transition to your new cloud reporting system. Our team of experts work with you to understand your department's specific reporting objectives and customise our test automation to develop a customised solution that meets your specific requirements.

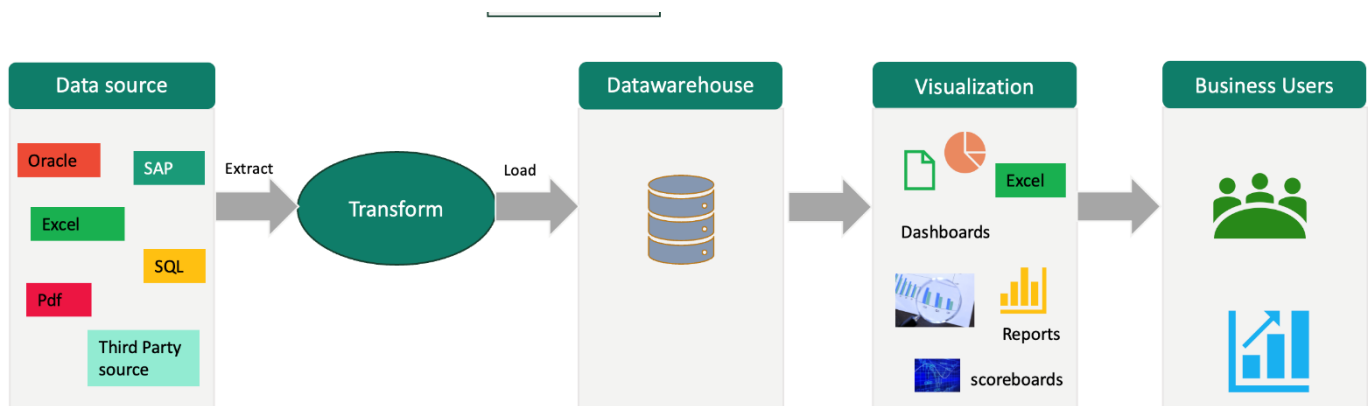
One of the advantages of our reporting migration test capability is the ability to automate the reconciliation of multiple reports at scale looking for challenges in the presentation of data, right down to helping refine the right requirements to move to your new reporting solution, through effective requirements engineering. Therefore, we no longer spend hours manually reviewing reports through development of highly repeatable automation. Our advanced automation technology takes care of everything for you, so you can focus on what really matters - growing your business.

We understand that every department is unique, which is why we take a customised approach to our reporting migration test capability. Our team of experts will work with you to understand your specific reporting needs and develop a solution that is tailored to your business. With our reporting migration test capability, you can save time and money while improving the accuracy and reliability of your reporting. Our advanced automation technology is designed to help you identify and resolve issues quickly and efficiently.

Management Information (MI) reporting encompasses the generation and presentation of data-driven insights to aid organizational decision-making and performance monitoring. It entails collecting data from diverse sources such as databases and CRM systems, followed by analysis to extract meaningful metrics. MI reporting migration leverages statistical analysis and machine learning algorithms to identify trends and patterns within the data.

Reports are designed with visualization techniques like dashboards and charts to effectively communicate insights to stakeholders. Automated processes are often implemented to streamline report generation and distribution. MI reports serve to monitor performance against set targets and benchmarks. Regular review of MI reports enables organizations to identify areas of improvement and make data-informed decisions. The iterative nature of MI reporting necessitates continuous monitoring and refinement of reporting methodologies. Overall, MI reporting plays a crucial role in driving business intelligence and fostering a culture of data-driven decision-making within organizations.

This migration could involve moving MI reporting from one software application to another, transferring data storage from on-premises to cloud-based systems, or upgrading existing reporting infrastructure.



Our Offering:

- **Data profiling and Analysis**

Understand the requirements for the migrated MI reports, including data sources, report formats, calculations, and business rules. Perform data profiling to understand the structure, quality, and complexity of the data to be migrated. Analyze data dependencies and relationships to identify potential migration challenges.

- **Test Strategy and Planning**

Develop a comprehensive test plan outlining the scope, objectives, and approach for MI report migration testing. Identify test scenarios based on requirements, covering data migration, report generation, calculations, and data visualization.

Set up test environments mirroring both the old and new reporting systems, including data sources and reporting tools. Ensure compatibility of test environments with migration tools and test automation frameworks.

- **Data Reconciliation and Validation on report**

Verify the accuracy and completeness of migrated data by comparing it with source data from the old system. Validate data transformations, mappings, and calculations applied during migration.

Perform data reconciliation between old and new systems to ensure consistency. Execute test scenarios to validate the functionality and accuracy of migrated reports.

Verify that report layouts, formats, and data visualizations match the requirements.

Test report filters, parameters, and drill-down functionalities.

Conduct regression testing on existing reports to ensure no unintended changes or regressions occur during

migration.

Re-validate previously tested functionalities to ensure they still work as expected in the new platform.

- **Data governance**

Data governance ensures that data quality standards are defined and maintained throughout the organization. BI pipelines benefit from data governance by incorporating these quality standards into the ETL processes, ensuring that only accurate and reliable data is used for analysis

Data governance plays a crucial role in ensuring compliance with regulations and industry standards. BI pipelines, which often handle sensitive data, must adhere to these compliance requirements to mitigate risks associated with data handling and reporting.

Data governance initiatives often include establishing data lineage, which tracks the origin and transformation of data. BI pipelines benefit from clear data lineage, helping users understand how data is sourced, transformed, and loaded into the reporting environment.

Data governance defines roles and responsibilities for data stewardship and ownership. These roles align with various stages of the BI pipeline, ensuring accountability for data quality and compliance throughout the ETL process.

4 Contact Details

Please send your requirement to publicsectorbidteam@deloitte.co.uk. Alternatively, if you wish to discuss your requirements in more detail, please send us the following information and we will be happy to contact you:

- Your organisation name
- The name of this service
- Your name and contact details
- A brief description of your business situation
- Your preferred timescales for starting the work.



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