

Test Data Management Support G-Cloud 15





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1 Service Overview

To maintain a competitive edge in today's information economy, companies and other organisations need to gather vast swathes of customer and corporate data from their existing databases and social media, public and cloud-based data sources; rapidly analyse that data; and use that knowledge to improve their products and services.

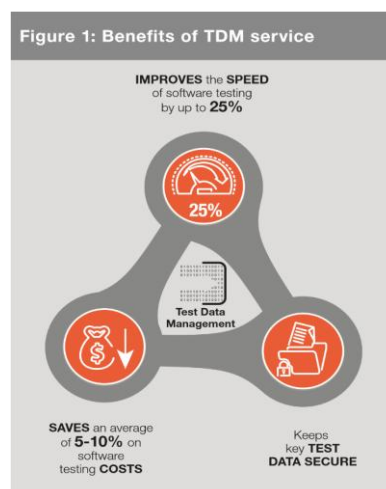
To maximise use of information, companies also need to integrate their multiple data sources together, across a range of interconnected systems, both inside and outside the organisation.

That means constantly updating core business applications, which in turn puts much greater emphasis – and pressure – on the software development and testing.

To successfully test, a Buyer must have the right data. That is the key challenge addressed by Sogeti's, (part of Capgemini group), Test Data Management (TDM) service.

2 Business Need

The Test Data Management service can enable organisations to increase their testing speed, cut costs and maintain data security.



This diagram is for illustration only and does not represent any obligation or responsibility of Capgemini.

It can be achieved by solving two key challenges:

Challenge Number 1: How to improve software testing speed and quality while optimising cost.

More sophisticated business intelligence (BI) systems, combined with lower storage costs, have led to businesses collecting ever-increasing volumes of data relating to their day-to-day operations and Buyer preferences. In the past when companies had one mainframe with a single core application holding a few megabytes of data that was updated perhaps annually – today's businesses have terabytes of data spread across 20, 30 or even 40 or more applications, with increasingly 'agile' development resulting in frequent new software releases, sometimes weekly.

All this makes it difficult to test live data without the danger of disrupting production systems. Using 'live' production data for testing also requires terabytes of costly storage with organisations typically needing several test environments for every production environment.

The alternative is to use synthetic data, data constructed for testing, but that brings its own challenges.



Simply put, organisations can't create test data fast enough for this ever-growing development schedule. Many organisations have summed up the challenge: "We know about our core systems. We know about the data in our systems. But we don't know how to test these systems."

Challenge Number 2: How to keep test data secure.

The threat of data breaches is real and growing.

Software testing is a data security weak point. Organisations frequently use production data in larger application test environments because of the difficulty of creating complex data sets for testing.

Organisations are also faced with more and more laws and compliancy regulations regarding the use of data, and they are being inspected more frequently to see if they comply.

Therefore, organisations run a real reputational and legal risk if they suffer a test data breach or get their privacy controls wrong.

Using TDM, Sogeti can help Buyers improve their testing by lining up the data across all their systems.

The Solution

The Sogeti Test Data Management service can tackle these key testing challenges:

- It can minimise the cost of testing – by utilising smaller subsets of production data that can be re-used test after test.
- It can ensure the quality of testing – the subsets of data are still representative of the 'live' production data, making the test fully valid.
- It can improve testing coverage – test data is assembled that incorporates all relevant risks and test cases.
- It can comply with privacy laws and reduce the risk of data breaches – by 'masking' and anonymising the test data being used, and sub-setting (not using complete production data).

3 Our Approach

TDM works by taking 'real' data from the production environment, applying field filters, and masking it (where appropriate), so it can be used in the test environment. It can also utilise techniques to create accurate test data where production data is insufficient or unavailable.

TDM is a professional services-led approach that can:

- Analyse organisations' current software testing and test data management.
- Propose what actions and toolsets are needed to improve testing.
- Help Buyers choose the right testing tools.
- Offer a pilot or proof of concept to show that the selected tool(s) can deliver the test data required within the Buyer's organisation, and the proposed process can deliver the expected benefits.
- Provide a full TDM rollout.
- Support and train Buyers all the way through the process and even after the rollout.

Test data is assembled by:

- Extracting – TDM can take a sub-set of data from live production data (e.g., all customers with surnames starting with the letter A).
- Masking – it can remove data contained in certain records or data fields (e.g., telephone number).



- Enhancing – it can generate ‘substitute data’ to re-populate certain cells or add new fields to create test data sets.

TDM not only works with a copy of production data, but it can also even help to create accurate test data if the production data is insufficient or unavailable. In that case, test data can also be provided by:

- Cloning – TDM can copy data sets to create similar or identical test cases to enhance the test coverage.
- Scripting – it can use the actual applications to load data and so ensure data integrity.

TDM can be especially relevant for enterprises that handle confidential personal data such as government, public sector and healthcare organisations – though data security and protecting commercial information is a priority for all organisations.

Why is TDM from Sogeti different?

Better service. TDM can not only help to compile test data, it can also improve the test process. Sogeti can customise the set-up for the Buyer; for example, Sogeti can execute a scan, select tools and educate and coach employees.

The set-up of TDM is a one-time process, but the service can also support ongoing maintenance. This not only helps the Buyer create its test process, it can also offer the opportunity to improve it. This combination makes the TDM approach unique.

Full service. TDM can use the leading TMap® and TPI® test methodologies originally developed by Sogeti to manage the entire test environment – whether that is infrastructure, data or just ensuring that the live production systems are replicated as closely as possible.

Other suppliers may offer implementation services for tooling or test data management and there are tool vendors and specialists in data masking, but no single toolset can handle the whole task, and data masking is only part of the overall solution.

Sogeti can take responsibility for the full-service delivery, incorporating testing tools, the management of test data and understanding all the issues. Sogeti can do this by partnering with major tools vendors and helping to integrate the Buyer’s testing process.

Test Data Management benefits can include:

- Faster test data preparation.
- Quicker data refresh.
- Better test data quality.
- Broader test coverage.
- Flexible test environments.
- Repeatable data quality.
- Lower test data preparation costs.
- Secure and compliant test data.

Test data challenges can be:

- Speed, agility.
- Using production data in test environments.
- Data in more than one type of database: how to keep it in sync.



- Protecting production and test data.
- Lengthy test data preparation time.
- Size of environments/test sets.
- Complexity of end-to-end testing.
- How to keep end-to-end test data consistent.
- How to provide consistently 'good' test data.
- Improving test data coverage.
- Developing the business case.

Test Data Management's end-to-end service

Sogeti delivers TDM using a four-stage approach:

1. **Initiation:** The goal in this phase is to identify the opportunities to improve the Buyer's test data creation and maintenance and speed up the process. Based on this, Sogeti can identify quick wins and develop an action plan. Sogeti also formulates the conditions for a business case and sets up an approach for the tool selection.
2. **Pilot:** During this phase, Sogeti can carry out the tool selection, draw up the financial benefits in a business case and define the whole implementation process for the Buyer.
3. **Implementation:** During this phase, Sogeti introduces the selected toolset and the TDM service acts as an instrument for test data. Services provided can include Tools Implementation and TDM Rollout.
4. **Operations:** Sogeti can define the required change to keep compliance with data privacy, regulations and continue to improve the test process. Services include Maintenance of Set-up and Training and Support.

3.1 Sogeti's Accelerators

3.1.1 Generative AI

Sogeti's Generative AI accelerator – Amplifier, augments product owners, architects, and quality engineers from the inception of requirements and infrastructure design to software testing, by forging a streamlined journey to execution.

Amplifier allows us to;

- Build a platform that covers all the use cases of Quality Engineering & testing from test case design to test reporting ensuring entire Software Testing Lifecycle is covered.
- Improves productivity for test case design and automation development.
- Point zero testing approach resulting in significant cost savings for testing.
- Eliminates person dependency making it more process driven.

Key Benefits include:



- **Streamline Team Collaboration:** Connect requirement engineers, product owners, and quality engineers with Sogeti's Amplifier ecosystem integrations such as JIRA, ensuring all disciplines stay in lockstep from requirements to release.
- **Accelerate Product development flow:** Facilitate rapid design validations for architects by translating discussion into Sogeti's Amplifier diagrams and data models, reducing time from whiteboard to development.
- **Optimise QE Processes:** Enhance test case creation for quality engineers with Sogeti's Amplifier TMAP – informed prompts, yielding thorough test scenarios that mirror real-world use without the need for deep manual effort.

3.1.2 End to End Quality Engineering Accelerators

Our accelerators for end-to-end Quality Engineering enable various areas of the end to end quality lifecycle

- **Requirement Mapper** accelerates the manual test design process by using the Model Based Test design technique.
- The **Automation Feasibility** analyser provides an upfront view on automation feasibility of manual test cases. This provides you with clear insight on what the benefit and ROI of automation will be.
- The **Test Script Generator** generates test scripts in an automated fashion by combining tags established in the Requirement Mapper
- The **Quality Engineering Maturity Modeler** is designed to help assess the current level of Maturity of the organization in their DevOps transformation journey, Performance Engineering Assessment, Test Data Management (TDM) and Test Environment (TEM) assessments.
- The **Automation Framework Chassis** provides ready to use CI/CD pipeline setup at the start of new projects.
- Unified dashboard generates near real time reports and actionable insights to enable rapid decision making.

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.

5 Service Management

Customer-focused approach to delivering information technology. It focuses on providing value to the customer and, also on the customer relationship.

If you've migrated to cloud but need a capability to control of your newly modernised applications, things can get very complicated very fast. Our managed Service Solutions are designed to solve that challenge.

Sogeti is only one of 16 partners worldwide to be accredited as a Microsoft Azure Managed Services Provider (MSP) and our services help streamline operations with use of industrialised tools for effective Service Management and Service Delivery.

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.

7 On-boarding and Off-boarding

Capgemini shall undertake on-boarding and off-boarding activities agreed within the Order Form (including as a minimum an exit plan in line with the Call-Off Contract terms) which will be charged for in accordance with the Pricing section for this service.

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 Vendor Accreditations/Awards

Sogeti – the part of the Capgemini Group, is an award-winning company both globally and nationally. The below list presents companies' names that Sogeti has won series of awards with over the years:



2025 winners of Best Advancing Software Testing Practice, awarded to the team or initiative that has made a positive contribution to the software testing profession. This is in recognition of those that go above and beyond to make the testing industry or practice better. It means breaking down barriers, thinking beyond our employers or clients, and using our skills and knowledge for the betterment of the profession.

Microsoft, IBM, Intel areas of Testing, HPE, Oracle, Digital, High Tech related awards, ESRI S-GROUP, Delivery, awards related to technologies and solutions.



For the 13th year in a row, Capgemini has been recognized as one of the World's Most Ethical Companies® by the Ethisphere® Institute. This is an acknowledgment 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.

10 Sub-contractors

Capgemini UK may use the following subcontractors to deliver this service:

- Capgemini Technology Services India Limited.

11 Business Continuity and Disaster Recovery

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



12 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.

13 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.

14 Termination Terms

Please refer to the Supplier Terms for this service.

15 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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