

Test Environment Management G-Cloud 15





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1 Service Overview

To successfully test business applications end-to-end, across multiple user channels and through the distributed systems landscape and proliferation of system interfaces, the organisation must have the right environment, controlled change, and tailored support practices.

The Test Environment Management service from Sogeti (part of Capgemini group) includes managing the entire environment life cycle of non-production environments right from forecasting the demand for the environments, standing up a new environment, application deployment and configuration, environment support and releasing it back to the environment pool after the completion of testing.

2 Business Need

In the complex landscape of software development and deployment, a stable and well-managed test environment is essential for ensuring the reliability and effectiveness of applications before they reach end-users. Test Environment Management (TEM) plays a crucial role in this process by providing a controlled and consistent environment for testing activities. Without proper management, test environments can become chaotic, leading to delays, errors, and compromised quality in software releases.

Through effective TEM practices, businesses can optimise resource utilisation, streamline testing processes, and mitigate risks.

Sogeti's Test Environment Management (TEM) service can cover the complete set-up and management of the Buyer's test environments, including devices, infrastructure, software, and configuration. Available as a measured, 'as-a-service' model, TEM tackles key testing challenges to help speed up software releases, cut infrastructure costs and boost team productivity.

Sogeti's TEM services can help improve the overall test process by planning and coordinating the sharing of knowledge, tools, and environment, coaching of employees, and ongoing support and improvement.

The Sogeti Test Environment Management service can tackle Buyers' key testing challenges:

- to minimise the cost of testing by utilising smaller asset footprints to support test projects.
- to shorten the time to release – by simplifying and automating the environment delivery and support services across development and testing.
- to ensure the quality of testing – the environments are representative of the 'live' production situation, making the test fully valid.
- to improve test coverage – environments are integrated, incorporating all relevant risks and requirements.

3 Our Approach

The TEM approach can enable Buyers to begin testing earlier (shifting left), at a higher quality and at a lower cost to the organisation. The more applications a company has, the harder it is to create good end-to-end environments. The configuration and systems integration settings must be correct for an end-to end scenario, otherwise testing suffers because the business can only test part of its system.

3.1 The Solution

Using TEM, Sogeti can help Buyers improve their testing by understanding their complete systems landscape, including the number of environments, configuration, and integration points. By understanding the dependencies and controlling the impact of change on this landscape as it relates back to the project pipeline (environment traceability), utilisation and test productivity can be maximised.



TEM also leverages Sogeti's Test Data Management (TDM) service, which can identify the complete data landscape across all the Buyer's applications and, by so doing, can introduce and mask data across all systems. By ensuring data integrity is maintained across the end-to-end application landscape, the TDM service can ensure all data is aligned across all systems, if that is needed to achieve the goals of the test strategy.

TEM works by implementing environment delivery techniques which are fit-for-purpose or relevant to the phase and scope of testing. For example, in the System Testing (ST) test phase, TEM can ensure that an appropriate environment, configuration and landscape integration are available or delivered, to allow the testing to be completed successfully.

How does Test Environment Management deliver?

Test Environment Management is a professional services-led approach that can:

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

3.2 TEM Techniques

Three techniques can be used to deliver accurate test environments:

- Constructing a new test environment – the most labour-intensive and time-consuming of the three approaches.
- Copying an existing test environment – less labour-intensive, due to the use of cloning tool suites and potentially less configuration, integration, and test data provisioning activity.
- Re-using an existing test environment – the least labour-intensive option as it uses existing baselines of application code, configuration, integration, and test data.

Re-using the existing environment is the optimal technique as it is the lowest cost-and-effort solution. This highlights the importance of getting projects to share test environments successfully, as it results in the most cost-effective TEM landscape possible for the Buyer's organization.

Sogeti can continually examine how the Buyer's test environment investment can be optimised through the introduction of new or more cost-effective infrastructure, storage, and tool solutions.

3.3 TEM end-to-end Service

Sogeti can deliver TEM using a four-stage approach, each stage can include several integrated, yet also separately available services:

Stage 1: Initiation

The goal of this phase is to identify the opportunities to improve the Buyer's test environment management operations and to speed up the process. Based on this, Sogeti can identify tactical and strategic objectives and formulate plans. They can also formulate conditions for a business case and set up an approach for selecting the most relevant tools.

One key service during this stage is the Quality Blueprint (QBP), an IT service management capability assessment that allows the Buyer insight into what problems need to be addressed, and the steps which need to be taken to solve them. Based on tried-and-tested ITIL (Information Technology Infrastructure Library) software development standards, QBP can:



- Analyse Buyers' current test environment management situation, including:
 - The existing applications/data landscape, environments, and infrastructure.
 - Which processes and roles are in place.
 - How often environments are shared/re-used.
 - The requirements of the test team.
 - The requirements of the project teams.
- Propose what actions are needed to embed TEM into the organisation and what TEM tools are needed to achieve this.
- Identify the benefits, if any, of introducing the TEM process and using the TEM tools – including describing the current problems, proposed improvements and expected results; and highlighting the expected business benefits, from small, tactical solutions up to total implementation of TEM.

Another key service in the Initiation stage is the Implementation Plan, where Sogeti can draw up a strategy for the TEM implementation or improvement process, including:

- Project set-up.
- Detailed business case for the improvement/introduction of the TEM process and corresponding TEM tooling.
- Tools selection process.
- Proof of concept.
- Pilot.
- Rollout/implementing the TEM process.
- Operational after-care.

Stage 2: Set-up

To demonstrate that the proposed TEM process is workable and can deliver the expected Benefits. Sogeti offers TEM Pilot, which can involve:

- **Defining the TEM Pilot** – determining its goals, tool environment, scope, coverage, and control measures used.
- **Preparing the TEM Pilot** – installing and configuring the tooling, defining the TEM process outlines for the pilot organisation, creating the TEM workspace on the client's infrastructure, and determining and analysing the general test data requirements.
- **Performing the TEM Pilot** – executing all stages of the TEM model within a pilot environment, including performing the highest-risk activities in all stages of the model.

Stage 3: Rollout

During this phase, Sogeti introduces the selected toolset, and the TEM service acts as an instrument for test environments. Services provided include Tools Implementation and full TEM Rollout.

Through the TEM Rollout service, Sogeti introduces the full TEM cycle into the Buyers' organisation.

Once the TEM process has been set up, it can be applied to new software development projects, or to maintaining existing applications. Sogeti sets up the environments for an application/new release via a five-step process:



1. **Demand:** Sogeti gains an understanding of the demand for test environments in the Buyers' situation, then determines and details the test-specific requirements – the number of test environments, scope of the data sets, configuration, integration, etc.
2. **Design:** To turn demand into a design of the test environment, Sogeti determines the solutions for provisioning test environments based on what is in scope. This may include building new environments, either from the ground up or from templates, and/or sharing existing environments within the client landscape. This phase consists of determining tool requirements and set-up, to manage artefacts (code, packages, configuration) for re-use, compliance, and audit purposes.
3. **Construct:** After the TEM tooling has been set up and tested, application environments are configured and integrated into the right environment at the right time. Other services available through Sogeti during this stage can include:
 - Managing the provision of test data within the application environments.
 - Keeping test environment codebases up to date (aligned).
 - Reseeding test environments with data from the central test data repository.
 - Rolling back the environment to pre-determined baselines.
4. **Support:** After the environments have been provisioned, the test teams can require support on many levels from the environment team, including:
 - Incident prioritisation.
 - Change delivery (configuration, builds, firewall rules).
 - Job execution (batch, file transfers).
5. **Retire:** After the project requirements for the test environment have been fulfilled; the test environment assets can be retired. This may include:
 - Handover to the next project/release team for continued product delivery and integration.
 - Handover to business-as-usual (BAU) support teams for on-going product and solution maintenance.
 - Archiving for use later to be determined.
 - Decommissioning as future demand does not warrant continued investment.

Stage 4: Operations

Sogeti can define the required changes to keep alignment with live production environment baselines and continues to improve the test environment delivery and support process. Services offered include maintenance of set-up, 'feeding and watering' of environments, as well as training and support.

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. Sogeti 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 Sogeti 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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