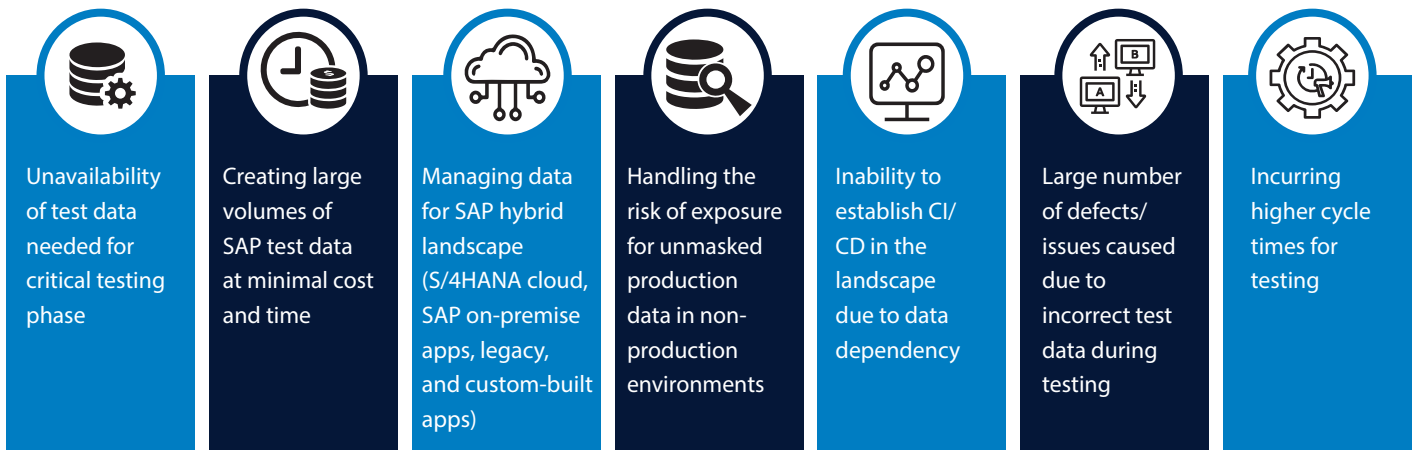


# INFOSYS-BROADCOM INTEGRATED TEST DATA MANAGEMENT SOLUTION FOR SAP

## Enables Test Data Management efficiently across Hybrid (on-premise / cloud) SAP ecosystems

Organizations across the globe are making a transition to agile ways of working in this dynamic market to stay relevant. Additionally, technology advancements like cloud are transforming the organization's entire IT landscape. These changes have brought about a change in test data needs of the organizations. The need of the hour is to provide the right test data, in the right quantity, and at the right time, in a non-production environment.

Some of the key challenges faced by enterprises in testing of SAP applications are:



Infosys and Broadcom have jointly developed an end-to-end test solution for SAP which combines Infosys's strong SAP and TDM expertise along with Broadcom's Test Data Manager. The **Infosys-Broadcom Integrated TDM Solution for SAP** supports enterprises by providing accelerated next-gen test data management services for intelligent masking, data generation, data sub-setting (based on time window and process variants), data copy (master and transactional data), self service TDM and test data integration with CI/CD pipelines.

## Infosys – Broadcom Integrated Test Data Management Solution for SAP

The solution extracts data from production environments into staging, known as a gold copy. Data is then consistently masked in the gold copy. Masked data gets loaded onto the test environment either on cloud or on-premise in the desired quantity (with sub-setting).

The built-in data mining feature of TDM helps retrieve the right test data sets from the test environment based on test criteria. Additionally, synthetic data can be generated into the test environment based on test requirements. This data will be periodically refreshed to ensure availability of quality test data.

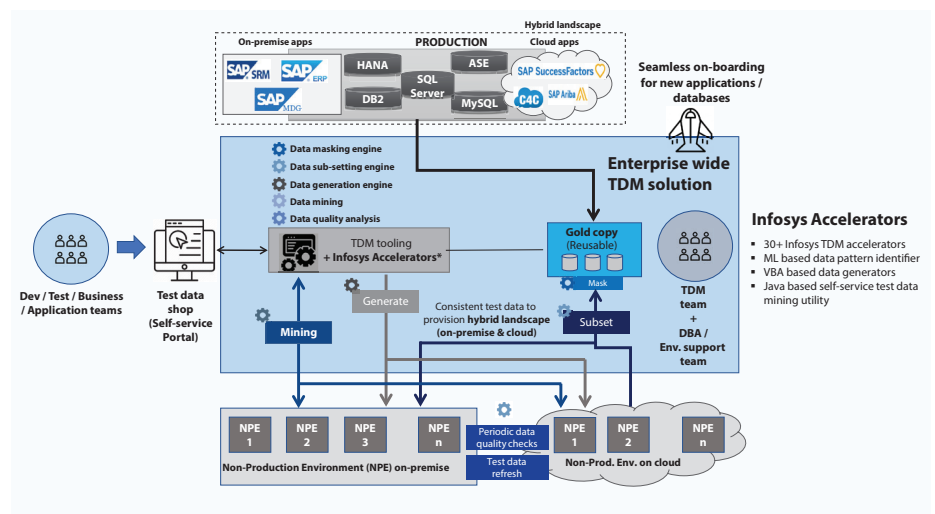


Fig1: Infosys – Broadcom Integrated Test Data Management (TDM) Solution for SAP

## Key solution features:

### Intelligent masking

- Identifies sensitive fields in SAP using ML algorithms
- Automatically identifies logical relationships between SAP tables and the fields selected for masking

### TDM process automation

- Performs workflow-based test data provisioning processes for data extraction, data sub-setting, data masking, data loading and data generation
- Automates data preparation activity for SAP master and transaction data using open source tools (Selenium, Java and Python) or commercial testing tools
- Leverages RPA based techniques for TDM process automation

### CI/CD and DevOps integration

- Provisions SAP test data triggered from Jenkins tool for automated execution in a pipeline
- Enables zero-touch platform by invoking SAP data provisioning at runtime

### Hybrid SAP ecosystems

- Supports wide variety of databases (Oracle, HANA, Sybase ASE, etc.) and applications (S/4HANA, CRM, ECC, Ariba, Concur, etc.)
- Supports data generation, data sub-setting, data masking and data mining for SAP systems (on-premise, cloud and multi-DB architecture) including data provisioning needs on Azure, AWS and GCP platforms

### Agile support/self-service

- Enables teams to be autonomous by giving them the ability to execute data set-up workflows themselves on the TDM portal
- Supports on-demand SAP test data provisioning for agile teams
- Leverages chatbot for data selection from multiple SAP tables

### Compliance and regulations

- Ensures adherence to data privacy and compliance needs
- Supports dynamic masking techniques specific to SAP role-based data access
- Capable of masking PII (Personally identifiable information) data from SAP tables in compliance with GDPR regulations
- Performs periodic data quality checks to identify data anomalies and performs data refreshes to clean up inconsistent data

## Benefits:

### Delivery excellence

- Increased adoption of the Test Data Manager (TDM) self-service portal, allowing individual teams to generate test data independently
- Minimized the impact on Business As Usual (BAU) during data extraction process
- Customized TDM process for data modelling, extraction, masking and data provisioning services
- Reduced cycle time by 90% for test data availability

### TCO reduction

- Saved 60% of storage space using strong sub-setting principles
- Reduced test data cost by 25% with automation & reuse

### Productivity improvement

- Reduced data identification effort by 30%
- Increased productivity by 30% with TDM governance
- Saved 40% effort in test data masking
- Reduced data refresh efforts by 45%

## A success story

### A leading bank in Netherlands saved EUR 2.5 million through Infosys–Broadcom Integrated Test Data Management Solution

Infosys helped a leading bank in the Netherlands meet their ever growing demand for the right test data across their hybrid SAP landscape by setting up an enterprise-wide test data management solution jointly with Broadcom. The centralized TDM solution helped the team manage all data related activities, enable self-service for autonomous data provisioning and generation in a complex SAP landscape with non-SAP apps and multiple databases. The solution improved test data quality and reduced data refresh efforts by 60% and saved EUR 2.5 million each year.

For more information, contact [askus@infosys.com](mailto:askus@infosys.com)

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