

# Agile Test Data Management

Achieve Quality at speed for Agile, DevOps and Continuous Delivery

## Product Overview

**Validata's Agile Test Data Management solution** is the complete end-to-end test data management offering, which provides organisations the market leading functionality and flexibility to find, design and make 'fit for purpose' data from files, databases or from scratch, for use in non-production environments.

The solution enables successful implementation of **DevOps and Continuous Delivery** as it delivers the right data in the right place at the right time, reducing project delays by efficient provisioning of quality data. It also enables to identify any gaps in the test data on demand and powerful synthetic data generation to provide testers with data before testing starts. With equivalence class testing, you can derive the minimum number of test cases to expose the most noticeable defects.



## Synthetic Data Generation

It can rapidly generate large sets of synthetic test data to eliminate the risk of data breach by creating production-like data but without the sensitive content. These test data sets can be shared with outsourced data testers or uploaded for application testing in the cloud, as safely and easily as when used on-premise. It also enhances existing subsets of production data with rich, sophisticated sets of synthetic data, reducing infrastructure by covering all combinations in the optimal minimum set of test data.

## Data Masking

The tool offers robust data masking functionality to ensure regulatory compliance and protection against data breaches in both test and production environments, enabling developers and testers to access and use secure data. After masking, the data looks and acts just like real production data, but all of the sensitive information- and exposure risk- has been removed. In this way, you accelerate application testing while ensuring the highest levels of data privacy and security.

## Data Subsetting

The tool has native database functionality to ensure the highest possible performance when extracting small, more intelligent subsets from production. This allows you to quickly provide teams with more manageable sets of consistent, referentially intact data for testing.

## Self-service data provisioning and delivery

Data delivery in legacy test data management systems can take up to weeks or months, keeping Dev and QA teams waiting idle, when they could be completing testing cycles in minutes or hours. Developers and testers can now be more self-sufficient to provision their own test data sets to speed up testing and release software faster.

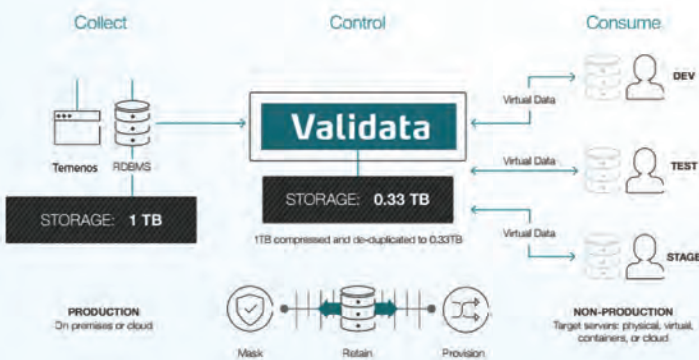


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## Test Data Virtualisation

**Test Data Virtualization** is the technology that can help organizations address the growing challenges in accessing, integrating, and provisioning the data that is needed from various data sources for stress tests and for regulatory reporting. Instead of relying on complex, manual processes to control and deliver application data, data virtualization allows **IT to automatically deliver virtual copies of production data for non-production use cases.**

**Virtual data can be accessed at any time for testing,** can be bookmarked and retrieved to meet audit requests, and rewind to reconcile errors. This results in banks being able to significantly improve their stress testing coverage, optimize business risks, and extract the maximum efficiency out of their capital. One of the most important benefits is the **reduction of storage space required,** which also means significant reduction in costs to setup and maintain the test environments and infrastructure.



## Advantages & Benefits

- Achieve up to 50% better utilization of environments while reducing storage and maintenance costs
- Enable “shift left” practices and improve quality
- Reduce the time and resources required to provide data fit for purpose’
- Increases Developers’ & QA’s productivity by providing the test data early
- Improves test coverage and optimizes business risks
- Ensures security and regulatory compliance

## Product Capabilities

- Data Masking and Subsetting capabilities
- Enable fast, repeatable data distribution with automation and self service
- Available as Data-as-a-Service (DaaS)
- Hierarchical overview of equivalence partitioning (per catalog and typical)
- Import of production data ready to be profiled to analyse test case coverage
- Boundary values analysis
- N-wise combinatorial method for synthetic test data generation
- Redundancy minimization through dependency criterias
- Exporting generated data to .csv or to databases
- Supports automatic fuzz testing
- Advanced Analytics to design and build better data
- Data comparison with custom benchmark sets
- Advanced spot diagrams to compare environments
- Measure data coverage for all valid combinations

## Data as a Service (DaaS)

Our **Data-as-a-Service (DaaS)** allows users to access data the same way they are accessing applications and infrastructure: as a service, available instantly, anywhere and on demand. It addresses the need for better data orchestration, delivering application data with the scalability, automation, and self-service capabilities demanded by fast-moving project teams. It enables organisations to move away from legacy systems and practices, helping them cut application project schedules in half and reduce infrastructure costs.

**Validata’s DaaS solution** uniquely addresses the issues involved in a core banking upgrade, DevOps or QA transformation project by:

- Delivering full and scalable virtual copies of production data on demand. No more hold up with the Dev team waiting for data!
- Building a single systems integration environment to ensure integration testing is possible. Tests have to run against an entire simulated data ecosystem. The need for data copies presents a technical challenge and an organisational challenge because different databases belong to different teams. So integration testing is a challenge.

- Achieving Data Agility by being able to make copies of any data source at any point of time.
- Enabling every developer to have a copy of production data they need without the exorbitant storage costs so you can move from monthly to daily releases.
- Making parallel copies of identical data that is easy to share between members of the team to facilitate collaboration.
- Supporting stress testing by aggregating, processing and analysing data from various sources with speed and quality.
- Easing costs and complexity of delivering regulatory compliance and security

