

CA Test Data Manager

At A Glance

The quality of your applications depends on thorough, continuous testing. Timely testing depends on having the right data, at the right time and in the right format. As today's testing and development teams move towards an agile approach, the time available for testing is compressed. Testing is often out of step with demands of software development.

CA Test Data Manager helps organizations automate test data management, deliver test data faster, create synthetic test data from scratch, shorten test cycles from weeks to days and improve compliance.

KEY BENEFITS

- **Improve app quality.** Utilizing the right data for testing reduces defect creation considerably.
- **Deliver data faster.** With CA Test Data Manager, testers test faster because they no longer wait for data.
- **Improve testing efficiency.** Eliminating data constraints and reducing the time and resources needed to provision data makes testing more efficient.
- **Reduce test costs.** Minimizing copies needed for test data reduces infrastructure costs.

KEY FEATURES

Data discovery and profiling. Find personally identifiable information (PII); demonstrate compliance for GDPR and other regulations.

Find and reserve. Use dynamic self-service forms to interactively view, analyze and reserve test data.

Synthetic data. Create rich synthetic data from scratch reducing the need to use production data.

Virtual test data. Create personal copies of test data virtually, instantly with no storage overhead.

Data masking/subsetting. Secure millions of rows of data in minutes using automated data profiling; clone subsets of data.

Coverage analysis. Measure exactly how much of a system your data can test.

Test data allocation. Automate test data discovery to request/receive exact data sets, linked to test cases.

Business Challenges

Organizations are under constant pressure to deliver feature-rich applications faster and with higher quality. Many testing teams still take a manual approach to acquiring and building test data. Consider the following limitations when using only production data for testing:

- **Poor test coverage.** Production data is massive and costly to maintain, when multiple copies are deployed. Production data typically represents only 10 to 20 percent of the tests needed, omitting negative or what-if scenarios and outliers needed for effective testing. Insufficient test coverage often results in costly defects being discovered later in the software development lifecycle.
- **Persistent testing bottlenecks.** Waiting for test data costs developers and testers valuable time when working within two-week sprints. Locating and copying production data or creating data by hand is slow and error-prone.
- **Data privacy issues.** Production data contains sensitive, personal information. Creating multiple copies of production data, storing it across many locations on multiple devices increases the likelihood of a serious data breach. New compliance regulations such as GDPR have raised the bar to protect production data even more.

Solution Overview

CA Test Data Manager helps organizations identify and model the exact data needed for rigorous testing using sophisticated visualization and coverage analysis. It can create synthetic test data from scratch, shorten test cycles from weeks to days and improve compliance.

Test data can be linked directly to test cases and stored as reusable assets in a test data warehouse. As data is provisioned, it can be cloned (virtually or traditionally) and fully versioned, allowing teams to work in parallel. Testers are no longer delayed by trying to create their own data. They can request and receive test data in minutes using a web-based portal.

Other powerful functionality includes high performance data masking to quickly modify millions of rows of data, automated data discovery and profiling for increased data privacy and compliance and test data warehousing to store data pools as re-usable assets in a central repository.

Critical Differentiators

Test oriented:

CA Test Data Manager links your data to specific test cases and automatically synchs up with changing requirements.

Built for re-usability. The model-based test data generation approach with **CA Test Data Manager** enables re-use of testing assets, while new test data can be built upon existing components.

Fully automated. Not just another extract, transform, load (ETL) tool that runs off scripting, manual tasks associated with data masking, data generation, cloning and provisioning are automated by **CA Test Data Manager** for increased efficiency.

Parallel work streams.

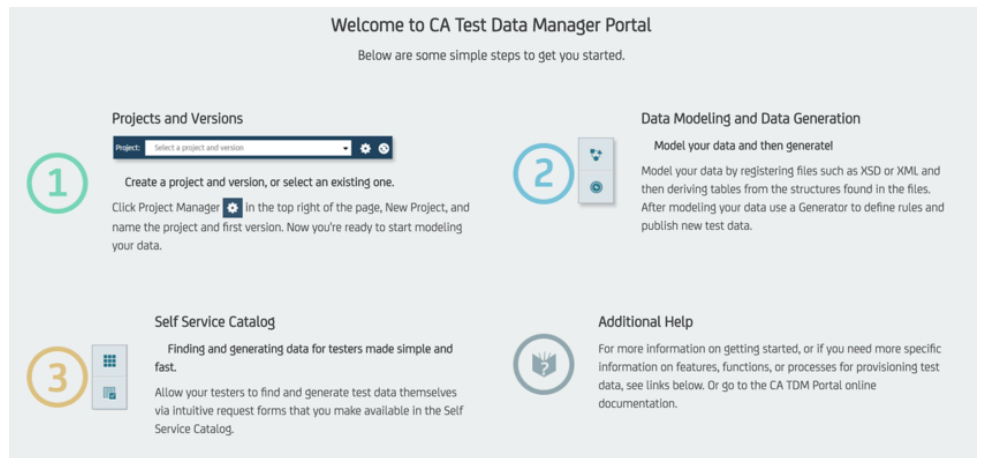
CA Test Data Manager brings version control of the data itself, data inheritance, test matching and data cloning to allow testers to work on multiple releases in parallel without disrupting each other's data.

Sophisticated coverage analysis.

CA Test Data Manager's coverage analysis and data visualization unlock exactly what data attributes exist, how they relate to each other and what new data needs to be created for testing.

Versatile data generation.

CA Test Data Manager provides a comprehensive list of combinable SQL functions, seed tables and default and system variables. It can create data for all major risk-based database management systems (RDBMSs) as well as complex file structures and types.



Related Products/Solutions

CA Agile Requirements Designer. A complete requirements definition, test case design and automation solution that defines a model of every test case. CA Test Data Manager can provide the test data needed for each test case.

CA Service Virtualization. Automatically creates the virtual services necessary for the end-to-end development and testing of applications, eliminating system constraints. CA Test Data Manager can generate the data needed for request/response pairs.

Customer Success

A multinational bank. Improved test data quality and efficiency by 60 percent within three months of adopting the tool.

A global airline. Reduced the time taken to locate the right data by 95 percent.

A large insurance company. Masked over 750 million rows of data in less than eight minutes.

A government agency. 1 million pounds per year return on investment for the adoption of the database compare feature alone.

A healthcare. Cut data creation time from 20 hours per transaction to two to three hours.

For more information, please visit ca.com/us/products/ca-test-data-manager.html

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