

PRODUCT SHEET

CA Datamacs Test Data Generator

CA Datamacs™ Test Data Generator r1.2



CA Datamacs™ Test Data Generator (CA Datamacs) offers facilities to automate the task of creating and using test data against new or enhanced mainframe programs. It helps lower the programming effort required, while reducing manual test data generation errors and the ripple effect that they cause on production systems, users and maintenance.

Overview

Generating data that thoroughly exercises all program paths is essential to comprehensive testing, and therefore, is no small task. To help, CA Technologies offers CA Datamacs an easy-to-use tool that creates test data from existing files, databases or from scratch—with only a few simple entries needed to generate comprehensive and meaningful test data. With CA Datamacs, you can be more confident that you are maintaining application quality while reducing risk, cost and resource utilization

Benefits

In your enterprise IT organization, you are under immense pressure to ensure high-quality mainframe applications. At the same time, you are challenged with doing more with fewer resources and reducing overall operational costs and risk when application changes occur. Generating production-like test data is one part of the mainframe application quality process that can be manually-intensive and cumbersome. CA Datamacs automates the process of test data generation, saving you time and effort. Moreover, it enables you to reduce the risks associated with application changes by lowering the amount of guesswork required to manually create production like test data.

Features

Mainframe 2.0

CA Datamacs has adopted a key Mainframe 2.0 feature that is designed to simplify your use of the product and enable your staff to install, configure and maintain it more effectively and quickly.

- **Electronic Software Delivery (ESD):** The Mainframe 2.0 ESD enables you to install CA Datamacs using standard utilities—without requiring you to reconstitute a tape cartridge. This new procedure helps speed installation and facilitates a consistent install process across the mainframe products from CA Technologies, shortening the learning curve for mainframe staff.

What's new in CA Datamacs r1.2

- **Date aging:** Expanded date aging capabilities make it easier to generate test data. You can add a specified number of years to a year field or calculate a new date by adding a specified number of days or years to an existing date.

Key features

- **Automated generation of test data:** With CA Datamacs, you can generate test data from scratch, from existing files and from your critical mainframe databases. CA Datamacs supports CA Datacom®/DB Database, CA IDMS™/DB Database and IBM IMS for z/OS. CA Datamacs operates as a standalone test data generator to test programs written in any language or as an embedded COBOL load-and-go tool for improved flexibility and speed. In addition, Pre-OPEN and Pre-PUT user exits allow processing of non-database files.
- **Simple ISPF interface:** CA Datamacs offers a panel-driven interface to ISPF that helps to simplify interaction and reduce typing errors. It allows you to perform online submission of test data scripts to batch processing through a menu selection. CA Datamacs offers ISPF functions directly from the main menu, as well as through specific CA Datamacs functions.
- **Boolean logic support:** CA Datamacs offers Boolean logic support for selection of test data, as well as supporting random selection, to enable comprehensive testing while lowering the amount of extraneous test data used.

- **Ease of use utilities:** CA Datamacs enables printing of test data in EBCDIC, hexadecimal or both formats to provide comprehensive documentation and audit ability. Utilities are available to print, match, merge, update, create and convert data files using a high-level language (DCL). Dialog facilities allow you to specify terminal and user parameters, browse and edit test data generation scripts, perform utility functions and submit jobs.
- **Automatic database test data population for CA IDMS/DB, CA Datacom/DB and IBM IMS for z/OS:** In addition to the automated test data generation capabilities from CA IDMS/DB, CA Datacom/DB and IBM IMS for z/OS that CA Datamacs provides, CA Datamacs offers interfaces to these databases for automatic database record population. As such, CA Datamacs can help you accomplish the following:
 - Populate a CA IDMS/DB database with records for use in database structure evaluation, program design or regression testing through the integrated dictionary with little need to involve the program itself
 - Produce a CA IDMS/DB database report to document any activity conducted by a COBOL program against the CA IDMS/DB database
 - Populate a CA Datacom/DB database with records for use in database structure evaluation, program design or regression testing through the CA Datacom/DB Database Datadictionary™ Option with little need to involve the program itself
 - Create, unload and load an IBM IMS for z/OS database using DL/I-like statements
 - Access the IBM IMS for z/OS internal tables directly, eliminating the need to define information already available in IBM IMS for z/OS
- **Help and Tutorial:** To enhance productivity and minimize the training effort required, CA Datamacs offers extensive contextual HELP and an online tutorial.

Delivery approach

CA Services provides a portfolio of mainframe services delivered through CA Technologies internal staff and a network of established partners chosen to help you achieve a successful deployment and get the desired business results as quickly as possible. Our standard service offerings are designed to speed deployment and accelerate the learning curve for your staff. CA Technologies field-proven mainframe best practices and training help you lower risk, improve use/adoption and ultimately align the product configuration to your business requirements.

Benefits

Application quality and integrity is more important today than ever before as you strive to meet increasing service level objectives. To meet these objectives for your critical mainframe applications, you need a solution that facilitates quick and efficient production-like test data generation. The benefits of CA Datamacs include the fact that it can help you automate the testing of your applications, leading to higher application quality, reduced risk of failure and lower cost and resource utilization.

The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA Datamacs is a key component of the Mainframe 2.0 initiative from CA Technologies to change the way the mainframe is managed forever by helping you maximize the value of our mainframe products and by providing a simplified experience and innovative solutions that deliver value quickly and flexibly.