

# DevOps for Mainframe Testing and Quality Solutions



## Overview

DevOps for Mainframe Testing and Quality solutions from CA Technologies help customers to reduce test cycle times and costs of mainframe testing for better time to market and mainframe economics.

With CA Mainframe Application Tuner, a German insurance company:

- Reduced logical partition (LPAR) utilization to 80 percent in just two weeks<sup>1</sup>
- Shortened overall daily batch processing time from 14 hours to seven hours<sup>2</sup>

## Customer Benefits

- **DevTest catalog.** Provide catalog test assets for reuse (test scripts, batch jobs, configurations, data, virtual/real services) and map requirements and user stories to testing assets.
- **Performance tuning and optimization.** Troubleshoot application performance to lower costs and optimize the end-user experience.
- **Data management and visualization.** Simplify and automate test data management through data profiling, subsetting, masking and synthetic generation.

## Business Value

- **Speed test setup** with comprehensive test data management and service virtualization.
- **Automate testing** with frameworks to automate unit tests and testing into the delivery pipeline.
- **Improve test efficiency** by leveraging a DevTest catalog that stores and provisions test assets and requirements.

## Why CA

- A trusted partner. CA is the worldwide leader in Mainframe Application Development market for AD Mainframe Tools based on 2015 market share revenue as indicated by the latest Gartner market share update.<sup>3</sup>
- Committed to digital transformation. 70 percent of the Fortune 30 have achieved the scale and business agility to deliver the best customer experiences in the application economy with mainframe application development and quality and testing tools from CA.<sup>4</sup>
- Delivers top value. Customers enrolled in the CA Core Systems Consulting program on average achieved \$2.1 million cost savings by standardizing on DevOps for mainframe solutions.<sup>5</sup>

Solution	Description
<b>CA Application Lifecycle Conductor</b>	CA Application Lifecycle Conductor improves business agility by removing barriers to faster time to market and improved reliability. Establish continuous feedback loops to improve governance, auditability, traceability and mobile-to-mainframe transparency. Simplify and store complex test relationships to automate and speed mainframe testing. Coordinate deployment with your preferred application release automation solution to streamline code releases.
<b>CA Mainframe Application Tuner</b>	CA Mainframe Application Tuner provides advanced, proactive performance analysis and tuning that helps optimize enterprise application performance across IBM® z/OS® applications. This capability helps you improve customer service, meet service level agreements (SLAs) and maintain a competitive edge by saving operational costs in deferred hardware and software purchases.
<b>CA File Master™ Plus</b>	CA File Master Plus is a file management and data manipulation tool designed to speed test-file editing and data creation for sequential files, as well as IBM IMS™/DB and DB2® for z/OS databases. It allows you to work interactively via a graphical Eclipse-based interface, Interactive System Productivity Facility (ISPF) or by issuing commands in batch. You can easily browse and edit data, make quick changes to production or test files, compare two file versions, define and populate test files, and more efficiently manage datasets and partitioned dataset members.
<b>CA InterTest™ solutions</b>	<p>CA InterTest offers powerful debugging capabilities that help developers more quickly and easily identify and correct errors in batch and IBM® CICS® COBOL, Assembler and PL/I programs as well as IBM IMS/DC applications and IBM DB2 stored procedures. CA InterTest facilitates a direct-from-source trace capability. By trapping application errors, it enables users to detect and resolve errors interactively as they occur. The no-recompile-required-before-proceeding capability keeps the user in the test session, maximizing focus on the problem rather than the process, which in turn minimizes outages and expedites the development process.</p> <p><b>CA InterTest Batch Plus now includes:</b></p> <ul style="list-style-type: none"> <li>▪ CA InterTest Batch for PL/I</li> <li>▪ CA InterTest Batch for IMS</li> </ul> <p><b>CA InterTest for CICS z/OS Plus now includes:</b></p> <ul style="list-style-type: none"> <li>▪ CA InterTest for CICS Option for PL/I</li> </ul> <p><b>CA InterTest for CICS z/VSE Plus now includes:</b></p> <ul style="list-style-type: none"> <li>▪ CA InterTest for CICS Option for PL/I</li> <li>▪ CA InterTest for CICS PL/1</li> </ul>
<b>CA SymDump® solutions</b>	CA SymDump is a fault management tool for IBM z/OS systems that provides critical, comprehensive ABnormal ENDing (ABEND) information for both test and production environments. Once installed and configured with appropriate environmental information, CA SymDump automatically captures diagnostics for abnormally terminated jobs and transforms the information to help make problem diagnosis faster. Easy-to-read detailed reports, formatted storage areas and formatted control blocks for IBM z/OS, IBM CICS, IBM MQSeries®, JES2, IBM DB2, IBM IMS and CA Datacom®/DB applications help developers and systems programmers quickly identify and subsequently correct errors.

For more information, please visit [ca.com/mainframe-testing](https://ca.com/mainframe-testing)

CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate—across mobile, private and public cloud, distributed and mainframe environments. Learn more at [ca.com](https://ca.com).

1. CA Technologies, "[CA Brings DevOps to Mainframe](#)," 2016; 2. Ibid; 3. Gartner, Market Share: All Software Markets, Worldwide, 2015 report, March 31, 2016.; 4. Information based on Fortune 500 published October 2016, compared to CA Technologies mainframe customers that have licensed one CA product as of October 2016.; 5. The annual savings shown above are estimations derived from analyses of CA Technologies customer contracts. These values are not a guarantee of achievable results and will vary depending upon your current infrastructure, people and processes, as well as the appropriate, effective implementation, adoption and use of the CA Technologies solution.

Copyright © 2017 CA. All rights reserved. IBM, z/OS, CICS, IMS, DB2 and MQSeries are trademarks of International Business Machines Corporation in the United States, other countries, or both. All other trademarks, trade names, service marks and logos referenced herein belong to their respective companies.

This document is for your informational purposes only. CA assumes no responsibility for the accuracy or completeness of the information. To the extent permitted by applicable law, CA provides this document "as is" without warranty of any kind, including, without limitation, any implied warranties of merchantability, fitness for a particular purpose, or noninfringement. In no event will CA be liable for any loss or damage, direct or indirect, from the use of this document, including, without limitation, lost profits, business interruption, goodwill or lost data, even if CA is expressly advised in advance of the possibility of such damages.

Some information in this document is based upon CA's experiences with the referenced software product in a variety of development and customer environments. Past performance of the software product in such development and customer environments is not indicative of the future performance of such software product in identical, similar or different environments. CA does not warrant that the software product will operate as specifically set forth in this document. CA will support the referenced product only in accordance with (i) the documentation and specifications provided with the referenced product, and (ii) CA's then-current maintenance and support policy for the referenced product.