

CA Verify® for VTAM



At a Glance

CA Verify® Automated Regression Testing for VTAM (CA Verify for VTAM) is the automated mainframe testing tool from CA Technologies for z/OS applications that use 3270-type terminals or terminal emulation. Using CA Verify for VTAM, you can perform unit, regression, stress, concurrency, migration and system testing, and you can resolve issues that occur as a result of your testing. CA Verify for VTAM is also designed to streamline the testing of major system changes during z/OS or TSO upgrades and system maintenance. CA Verify for VTAM can log online applications, including those running under IBM IMS/DC, TSO/ISPF, IBM CICS Transaction Server, IBM DB2 for z/OS, CA IDMS™/DC or any VTAM subsystem.

Key Benefits/Results

- Automated testing capabilities help you provide that your z/OS applications that use 3270-type terminals or terminal emulation function correctly in test and production environments.
- Repeatable test processes.
- Help in reducing the costs associated with providing application quality—and the even higher costs arising from production errors and system downtime.

Key Features

- Regression testing.** You can compare test results with benchmark results to determine if there are any unexpected differences.
- Unit and integration testing.** You can change individual units of work and test each change and run them together to test the integration of code.
- Concurrency testing.** Concurrency testing is both easier and more accurate because CA Verify for VTAM automatically provides that the transactions are processed simultaneously.
- Stress testing.** Because CA Verify for VTAM utilizes virtual terminals, you can simulate system activity across multiple terminals without consuming valuable system resources.
- Migration testing.** To assess the effects of migration, you can re-execute a logged test stream post migration, making adjustments as needed.

Business Challenges

Despite best intentions, manual testing can be error-prone and resource-intensive. Re-keying information and manually comparing test results takes time, especially in situations where repeated test cases are executed.

Simulating production conditions is another challenge often faced by quality assurance teams. Striving to mimic production conditions is often resource-intensive and expensive as organizations endeavor to simulate high-volume activity.

Solution Overview

CA Verify for VTAM reduces testing complexity through the use of test streams that enable you to utilize them later with no need to re-key information or manually compare “before and after” results. Tests that are repeated can be executed accurately and consistently with minimal effort. And by capturing CA Verify for VTAM test streams, you can later modify those test streams directly or establish rules that model and handle expected changes as your testing needs dictate.

CA Verify for VTAM allows you to simulate production conditions, one of the most critical types of testing. For example, you can use production-like data instead of contrived test data, execute similar or identical transactions simultaneously and simulate high-volume activity without consuming system resources or affecting response time. By utilizing virtual terminals, CA Verify for VTAM enables simulation with minimal resource overhead, reducing the cost to you and your organization.

Critical Differentiators

Rules function. Simple, automated point-and-click technology enables you to easily specify and predefine changes to a screen, as well as pinpoint inclusions and exclusions on items you do and do not wish to compare as you test. A rule is created accordingly, eliminating manual programming and rule creation.

Secure test data. System data security is an important consideration given industry and government requirements. Because CA Verify for VTAM is a VTAM application, it is subject to whatever VTAM security system you are using. In addition to this VTAM security, CA Verify for VTAM performs its own internal checking based on operator ID to provide that test streams are accessed only by authorized users.

User ID logging. User ID logging facilitates inclusion or exclusion of screens captured during logging by a specific user or users. This feature allows for more secure testing by restricting screen access to only certain users. Through user ID logging, only those users who should be working with sensitive data are permitted.

Test data generation. CA Verify for VTAM generates random test data and/or any fields specific to a single screen or screens for user-specified fields.

CA Verify for VTAM now includes support for REXX. The Convert to REXX screen function shows a conversion of a CA Verify test stream to a REXX script.

```

ORDER.TEST3B.001 ----- CONVERT TO REXX -----13:26:29
ENTER COMMAND ==>

TEST STREAM TO CONVERT:
DDNAME      ==> TCADS
APPLICATION ==> ORDER          (LEAVE APPLICATION, MEMBER,
MEMBER      ==> TEST3B         OR VERSION BLANK AND PRESS
VERSION     ==> 001           ENTER FOR A SELECTION LIST)

REXX SCRIPT FILE:
DATA SET NAME ==> 'AD1DEV.VERIFY.ORDER.SCRIPTS'
MEMBER NAME   ==> TEST3B      (BLANK OR PATTERN FOR MEMBER SELECTION LIST)

OPTIONS:
APPLID       ==> CICSAPPL    (LOGON APPLID)
SCREEN LINES ==> 03         (# OF SCREEN LINES TO INCLUDE: 0-43)
PROTECT TARGET ==> N        (Y/N)
SHARE PDS    ==> N          (Y/N)
DELAYS       ==> Y          (Y/N)

ACTIVE PASSWORD SECURITY:
CAPTURE FORMAT . . . TOKEN      USERID . . . . . STERIO2

F1-HELP      F3-END      F4-RETURN

```

Related Products/Solutions

CA Verify® for CICS. Automated regression testing for z/OS applications that use IBM CICS Transaction Server

CA InterTest™ Batch and CA InterTest™ for CICS. Application debugging

CA SymDump® Batch, CA SymDump® for CICS, CA SymDump® System. Fault management

CA File Master™ Plus, CA File Master™ Plus for IMS, CA RC/Update for DB2 for z/OS. File and data manipulation

Supported Environments

- IBM CICS Transaction Server
- IBM REXX
- IBM IMS/DC
- IBM RACF
- IBM DB2 for z/OS
- TSO/ISPF
- CA IDMS™/DC
- CA ACF2™ for z/OS
- CA Top Secret® for z/OS

For more information, please visit ca.com/mainframe-testing-tools

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