

Clarity Universal Test Manager Software



Highlights:

- Automates testing of 3270-based applications and VT100/220 terminal-driven applications -- including IBM® CICS® transactions, IBM® IMS® workloads, Clarity® UniKix™ software, Natural assets and batch programs
- Enables the creation, execution, and validation of test cases; manages test scripts and environments
- Eliminates time-consuming manual testing efforts
- Supports secure SSH and SFTP connections
- Stores results in a built-in relational database to simplify tracking and reporting; no additional RDBMS license fees required
- Offers version control for groups of test scripts

Whether your organization is making minor code changes, issuing a significant new release, preparing multi-platform application distributions or migrating to open systems, Clarity™ Universal Test Manager (UTM) software and services can shorten validation cycles and eliminate time-consuming, manual testing tasks -- reducing total cost of ownership and improving time-to-market.

Accelerate development, enhance quality assurance, deploy with confidence

Clarity UTM software provides an automated tool for creating, managing, and validating test cases for 3270 and VT100/220-based applications – including IBM CICS transactions, IBM IMS workloads, batch programs, UniKix™ Transaction Processing Environment (TPE) software, UniKix™ Batch Processing Environment (BPE) software, Natural and telnet-based command line programs. Based on over a decade of experience and development, Clarity UTM software captures sessions and screens using a secure SSH or SFTP connection, then displays results in a convenient graphical user interface (GUI) environment – reducing test cycle times and delivering consistent, repeatable test procedures. Since all results are stored in a relational database, Clarity UTM technology also makes it easy to track test case progress and report on results.

Automate test case creation, playback, and analysis

With Clarity UTM technology, developers capture user screens or write JavaScript cases for terminal sessions to eliminate time-consuming test case creation. Any series of application steps or processes that a user wants to test in a reoccurring fashion can be saved and run together. Keystroke and data entries can be tracked together, guaranteeing consistent test execution. Batch job output reports, submission results, and regression tests can also be tested.

Once test cases are established with Clarity UTM software, they can be automatically replayed to validate that all changes have been made correctly when an update occurs. Inconsistencies are flagged during playback and results are displayed side-by-side in an intuitive GUI environment, enabling developers to easily identify areas requiring further analysis. With automatic playback, application knowledge is transferred from end-users to test engineers, freeing end-users from being required to participate in time-consuming test case trials.

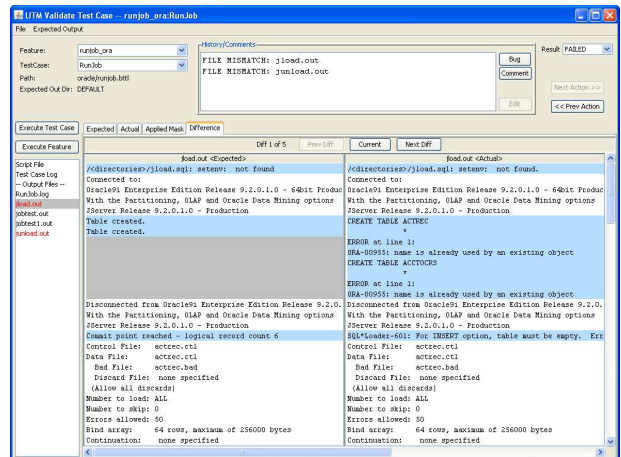
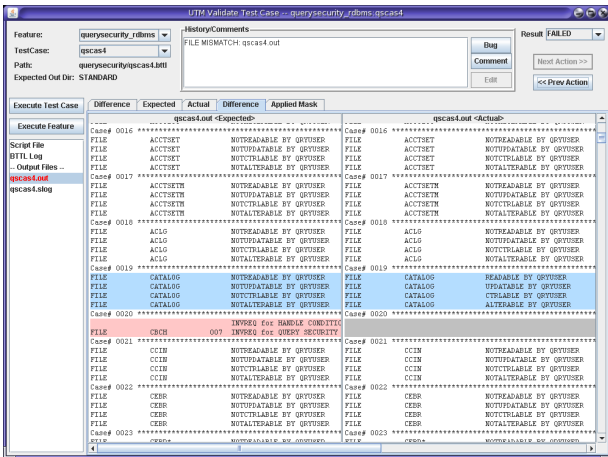


Figure 1. Sample Clerty UTM Outputs

Flexible test case creation

There are two options for creating Clerty UTM test cases:

- Use 3270 Pathway Recorder, provided with Clerty UTM, to record key strokes with 3270 applications in real-time, as an end-user navigates through an application
- Write JavaScript test cases for VTxxx terminal sessions

A conversion tool is also provided with 3270 Pathway Recorder to convert recordings into JavaScript for organizations preferring a single test case environment for workloads with both TN3270 and VT100/220 terminals.

Comprehensive playback and analysis

Clerty UTM software generates a set of outputs including screen captures and other files required by test scripts. As seen in Figure 1, *Sample Clerty UTM Outputs*, Clerty UTM output files can easily be compared against expected output files. A developer can set user-defined masks to mark out dynamic data like dates and times if desired. Missing output files and output files that don't compare after masking is considered are flagged as failures.

If a developer executes a large bulk grouping of test scripts and a problem is flagged in one area, individual test cases can be isolated and executed on a solo basis instead of having to run the complete set of scripts again. The test suites created with Clerty UTM include all environmental information and data needed to execute individual tests or a group of test scripts. Since Clerty UTM test scripts are organized in a hierarchical manner, developers have great flexibility in deciding how to execute.

Simplified history and reporting

Clerty UTM software simplifies reporting and tracking by collecting results in a relational database. All Clerty UTM results are stored in Java DB, a 100% Java technology database that is included with the Java SE Development Kit, so no additional RDBMS purchase is required. Clerty UTM captures a complete history of all executed test scripts including failures and all users at a site access the same central repository via a TCP/IP socket. Reports can be run on the execution environment settings, test case execution times, and other factors.

Comprehensive mainframe migration, modernization, and optimization solutions

Most IT projects require equal amounts of time to plan, execute, and validate to assure a high degree of success. Clerty UTM technology simplifies validation requirements by eliminating time-consuming, manual testing tasks and improving time-to-market.

Clerty UTM software is part of a larger suite of migration and modernization offerings from Clerty that enhance, extend, and transform legacy assets. Clerty recognizes that companies have significant investments in core applications and procedures and provides a wealth of low risk, high value solutions and technology to reduce IT costs without sacrificing current functionality and service level agreements.

Learn more about Clerty UTM software and other migration and modernization solutions at www.clerty.com.

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