ORACLE APPLICATION TESTING SUITE - TESTING ACCELERATORS FOR ORACLE APPLICATION DEVELOPMENT FRAMEWORK

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ENTERPRISE MANAGER 11^g

FEATURES

- Automates both functional testing and load testing of Oracle Fusion and ADF-based applications
- Provides native support for automating and validating Oracle ADF application interface components
- Provides built-in ADF load correlation library to automatically parameterize dynamic http session data for ADF applications
- Simulates application loads of hundreds to tens of thousands of concurrent users while minimizing hardware requirements
- Gathers critical infrastructure performance metrics to identify bottlenecks under load

The Oracle Application Testing Suite Testing Accelerators for Oracle Application Development Framework (ADF) allow users to test the quality and performance of their Oracle ADF applications. The Functional Testing Accelerator for Oracle ADF extends Oracle Functional Testing to enable seamless automated functional and regression testing of ADF application components. The Load Testing Accelerator for Oracle ADF extends Oracle Load Testing to enable load and performance testing of ADF applications. The Testing Accelerators for Oracle ADF are components of Oracle Application Testing Suite, the centerpiece of the Oracle Enterprise Manager solution for comprehensive testing of packaged, Web and service-oriented architecture–based applications.

Automated Testing for Oracle ADF Applications

Oracle Application Development Framework is an end-to-end Java EE framework that simplifies the development of rich Web applications. Oracle ADF includes a set of over 150 standards-based Java Server Faces (JSF) components with built-in Ajax functionality. With these components, Web deployed user interfaces can be developed with a level of functionality and interactivity previously reserved for thick-client applications.

Due to all this richness and interactivity, Oracle ADF applications are also much more difficult to automate and test using standard automated functional testing and load testing solutions. Traditional testing solutions treat Oracle ADF application as they would any other Web or HTTP-based application. For Oracle ADF applications however, understanding the ADF interface component framework and underlying application requests is critical to providing robust and easy to use automated functional testing and load testing solutions. Oracle Application Testing Suite natively supports Oracle ADF applications to simplify the testing process.

Functional Testing Accelerator for Oracle ADF

The Functional Testing Accelerator for Oracle ADF extends Oracle Functional Testing to provide a powerful and easy-to-use solution to automate functional and regression testing of Oracle ADF applications. The OpenScript scripting platform in Oracle Functional Testing allows users to create Oracle ADF test scripts that

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automate and validate ADF interface components. OpenScript provides native support for all ADF components to simplify object identification, compared to competing automated test tools that only view these as generic Web/HTML components. This greatly simplifies script automation and validation, allowing users to more easily create scripts that drive ADF application interfaces and validate content, without having to manually modify and program test scripts to get them to work.

OpenScript combines an intuitive graphical scripting interface to quickly create complex test scripts and a powerful Java IDE that enables power users the flexibility to extend scripts programmatically. With OpenScript, users can record automated test scripts for their Oracle ADF applications by simply stepping through their transactions in a browser. OpenScript automatically captures all user actions and data inputs and accurately identifies ADF objects. Users can then run their automated scripts to execute these transactions and leverage the graphical scripting interface to analyze playback results, parameterize script inputs and add custom test cases to validate application content. Scripts can also be extended programmatically in Java which provides users with advanced scripting capabilities and powerful debugging tools through the integrated Eclipse IDE.
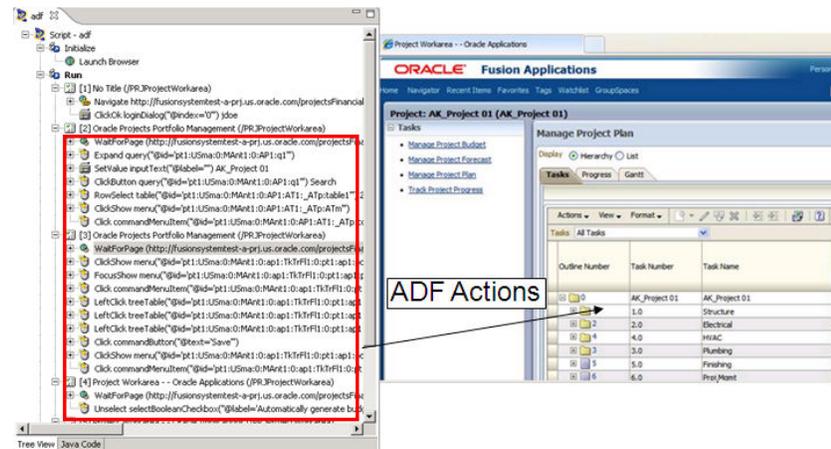

Figure1. Oracle Functional Testing automates functional and regression testing for Oracle ADF applications and provides native support for ADF interface components

Load Testing Accelerator for Oracle ADF

The Load Testing Accelerator for Oracle ADF extends Oracle Load Testing to enable automated load and performance testing of Oracle ADF applications. With Oracle Load Testing you can simulate thousands of virtual users accessing your Oracle ADF application simultaneously to measure the effect of user load on application performance.

Users create their ADF load test scripts in Oracle Functional Testing's OpenScript

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integrated scripting platform. OpenScript provides a built-in load correlation library to automatically correlate and parameterize dynamic Oracle ADF http session parameters. This simplifies load test script creation compared to standard load testing tools, by greatly reducing the amount of manual http correlation users need to perform to get their scripts to work.   These scripts can then be configured to run in Oracle Load Testing against any number of virtual users.

Oracle Load Testing provides a Web-based console that allows you to configure and run one or multiple scripts across thousands of virtual users to assess performance. Users can specify a number of run time parameters such as the amount of think time each user spends per request and the connection speed to emulate. During the load test, Oracle Load Testing measures end-user response times as well as the performance of the underlying application infrastructure through its integrated ServerStats infrastructure monitoring module.
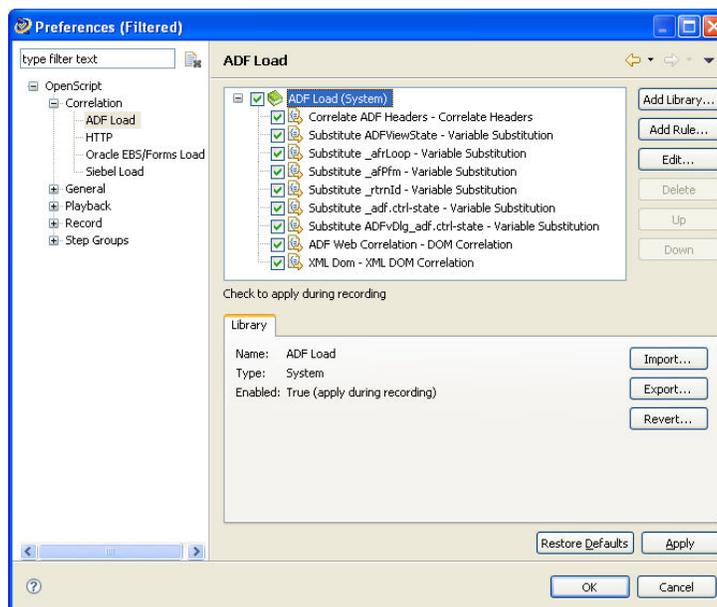

Figure2. Oracle Functional Testing includes an ADF load correlation library to automatically parameterize dynamic http session data for ADF applications, greatly simplifying load test script creation.

Comprehensive Testing for Oracle ADF

Oracle Application Testing Suite provides a comprehensive testing solution for Oracle ADF. With Oracle Functional Testing and the Functional Testing Accelerator for Oracle ADF, users can effectively leverage test automation for their rich Oracle ADF application interfaces.   With Oracle Load Testing and the Load Testing Accelerator for Oracle ADF, users can leverage a powerful solution for ensuring Oracle ADF application performance. And with Oracle Test Manager users can effectively document and manage their test process from a central location

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and report on application readiness. Oracle Application Testing Suite provides a comprehensive, integrated solution for automated functional and regression testing, load testing and test process management.

Contact Us

For more information about Oracle Application Testing Accelerators for Oracle ADF and Oracle Enterprise Manager please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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