TESTING ACCELERATOR FOR ADF APPLICATIONS

Oracle Enterprise Manager is Oracle’s integrated enterprise IT management product line, and provides the industry’s first complete cloud lifecycle management solution. Oracle Enterprise Manager’s Business-Driven IT Management capabilities allow you to quickly set up, manage and support enterprise clouds and traditional Oracle IT environments from applications to disk. Enterprise Manager allows customers to achieve best service levels for traditional and cloud applications through management from a business perspective including for Oracle Fusion Applications, provide maximum return on IT management investment through the best solutions for intelligent management of the Oracle stack and engineered systems and gain unmatched customer support experience through real-time integration of Oracle’s knowledgebase with each customer environment.

Quality Management

Realistic and efficient testing has become more and more difficult in today’s fast-paced IT environments, where agile development methodologies, SOA, cloud and other disruptive technologies compress deployment timeframes from months to days. In addition, the emerging consensus around the importance of DevOps underscores the desirability of testing methodologies that are tightly linked to IT operations best practices. Oracle understands this and has engineered market-leading Quality Management solutions in Oracle Enterprise Manager that provide realistic, production-level synthetic workloads, transportable real user workloads, deep instrumentation and the most efficient automation available for testing Oracle packaged and custom applications.

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 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.

**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 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.

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 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.
Hardware and Software, Engineered to Work Together