

Parasoft SOAtest: Oracle Fusion Edition

TECHNICAL SHEET

Parasoft SOAtest-Oracle Fusion Edition is a full-lifecycle quality platform that delivers a continuous quality process for ensuring secure, reliable, compliant applications and business processes. It provides enterprises working with Oracle applications and middleware an integrated solution for:

- **Quality governance:** To continuously measure how each service conforms to the often dynamic expectations defined by both your own organization and your partners.
- **Environment management:** To reduce the complexity of testing in today's heterogeneous environments—with limited visibility/control of distributed components or vendor-specific technologies.
- **End-to-end testing:** To continuously validate all critical aspects of complex transactions, which may extend through web interfaces, backend services, ESBs, application servers, databases, and everything in between.
- **Process visibility and control:** To establish a sustainable workflow that helps the entire team efficiently develop, share, and manage the evolution of quality assets throughout the lifecycle.

Parasoft SOAtest-Oracle Fusion Edition facilitates testing and visibility at every level of the Oracle Fusion Middleware stack—reducing the complexity of testing the complex transactions that pass through Oracle-driven enterprise environments, continuously validating functionality and performance at multiple levels, and helping to pinpoint the root cause of any problems detected. It covers everything from end-to-end functional testing, to load & performance testing, to Application Behavior Virtualization.

Capabilities Overview

Quality Governance	
Design and development policy enforcement	Ensures interoperability, security, and consistency across distributed systems from application code statements to business processes. Industry-standard and custom policies are enforced automatically and continuously.
Defect prevention	Teaches developers to avoid common security and interoperability problems—reducing the length and cost of downstream testing and debugging.
Registry-based policy management	Automatically tests registered services and verifies compliance to the policies defined in Oracle, Amberpoint, and other registries. Results are reported back to the registry—and updated in real-time—providing continuous visibility into a service's quality and compliance throughout its lifecycle.
Environment Management	
Application behavior virtualization	With Parasoft Virtualize, automatically emulates the behavior of services, then deploys them across multiple environments—streamlining collaborative development and testing activities. Services can be emulated from functional tests or actual runtime environment data.
Platform awareness	Facilitates interactions with and visibility into any component of the infrastructure stack—reducing the learning curve for defining complex tests and understanding how they pass through heterogeneous systems. Provides out-of-the-box support for Oracle Fusion, Oracle WebLogic, Siebel CRM, and Oracle Business Suite (see page 2 for details).
Process Visibility and Control	
Streamlined collaborative workflow	Achieving business system quality is a collaborative effort that involves many different participants across the organization—from service and Web interface developers, to QA, to business analysts. By establishing a sustainable workflow where quality tasks are automatically generated, assigned, and distributed to the appropriate team members, the solution makes the entire team more productive.

End-to-End Testing	
SOA-Aware test Construction	Advanced test automation and an SOA-Aware interface enable fast and effective test construction. Easily extensible tests can be automatically generated from artifacts such as WSDL, UDDI, WSIL, XML Schema, BPEL files, and HTTP traffic, as well as from the major industry platforms (see list above).
End-to-end scenario verification	Promotes rapid, incremental development of test suites that verify end-to-end operations, which may span across the messaging layer, ESBs, the Web interface, the database, and EJBs/Java EE. This ensures the reliability of the underlying implementation.
Multi-layer business process validation	Validates that business processes continuously meet expectations across multiple layers of heterogeneous systems. Alerts are generated when modifications impact key processes—providing a safety net that reduces the risk of change and enables rapid and agile responses to business demands.
Advanced web interface testing	Guides the team in developing robust, noiseless regression tests for rich and highly-dynamic browser-based interfaces.
ESB workflow visibility, event monitoring & validation	Visualizes and traces the intra-process events triggered by tests, facilitating rapid diagnosis of problems directly from the test environment. Also continuously validates whether critical events continue to satisfy functional expectations as the system evolves.
Load/performance testing	Verifies application performance and functionality under heavy load. Existing end-to-end functional tests are leveraged for load testing, removing the barrier to comprehensive and continuous performance monitoring.
Security testing	Prevents security vulnerabilities through penetration testing and execution of complex authentication, encryption, and access control test scenarios.
Parasoft –Oracle Support Details	
Oracle WebLogic Application Server	Parasoft's specific support for applications built on top of the Oracle WebLogic application server starts with the code and extends to load testing and performance monitoring. It includes: <ul style="list-style-type: none"> ■ Validating transactions that touch Oracle databases. ■ Providing visibility into Oracle Service Bus workflows during test execution. ■ Automating UI actions on portal and enterprise web apps. ■ Streamlining SOA quality governance by integrating with Oracle Registry/Repository. ■ Automating quality activities by integrating with AmberPoint. ■ Automating service virtualization and stubbing around Oracle BPEL process manager and BPM transactions. ■ Providing the flexible back-end service emulation needed to drive end-to-end business process scenarios, including UI/front-end interactions and middleware validation.
Siebel CRM, Oracle Business Suite, Other Packaged Applications	For packaged applications such as Siebel CRM and Oracle Business Suite components, Parasoft helps organizations easily create, execute and maintain end-to-end test suites that can be initiated from rich user interfaces, through the logic in the message layer, through the implementation component, to the database (or mainframe) and back—validating the entire business process. Application Behavior Emulation is also available to streamline collaborative development and testing activities.
Protocol and Messaging API Support	Parasoft's ability to interact at various interface, API and protocol levels (e.g. HTTP, JMS, EJB, etc.) is instrumental to its ability to talk natively with Oracle components. The test client is preconfigured to send and receive messages over multiple protocols. Moreover, intelligent stubbing for HTTP, JMS, and MQ services fills the necessary gaps across multiple environments quickly and easily so that end-to-end business scenario tests can be executed.

For more details on how the solution delivers real results, see the case studies on www.parasoft.com

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