Infosys ACCORD-Automated Testing of UI Independent Systems

Software systems supporting complex business processes are frequently modified or upgraded to stay in tune with changing business conditions. Intricate interactions of systems demand robust testing capabilities. The owners of such systems are thus often caught between the need for quick deployment and time & cost constraints. Situations such as these result in limited or error-prone testing efforts that compromise the robustness and reliability of business-critical applications.
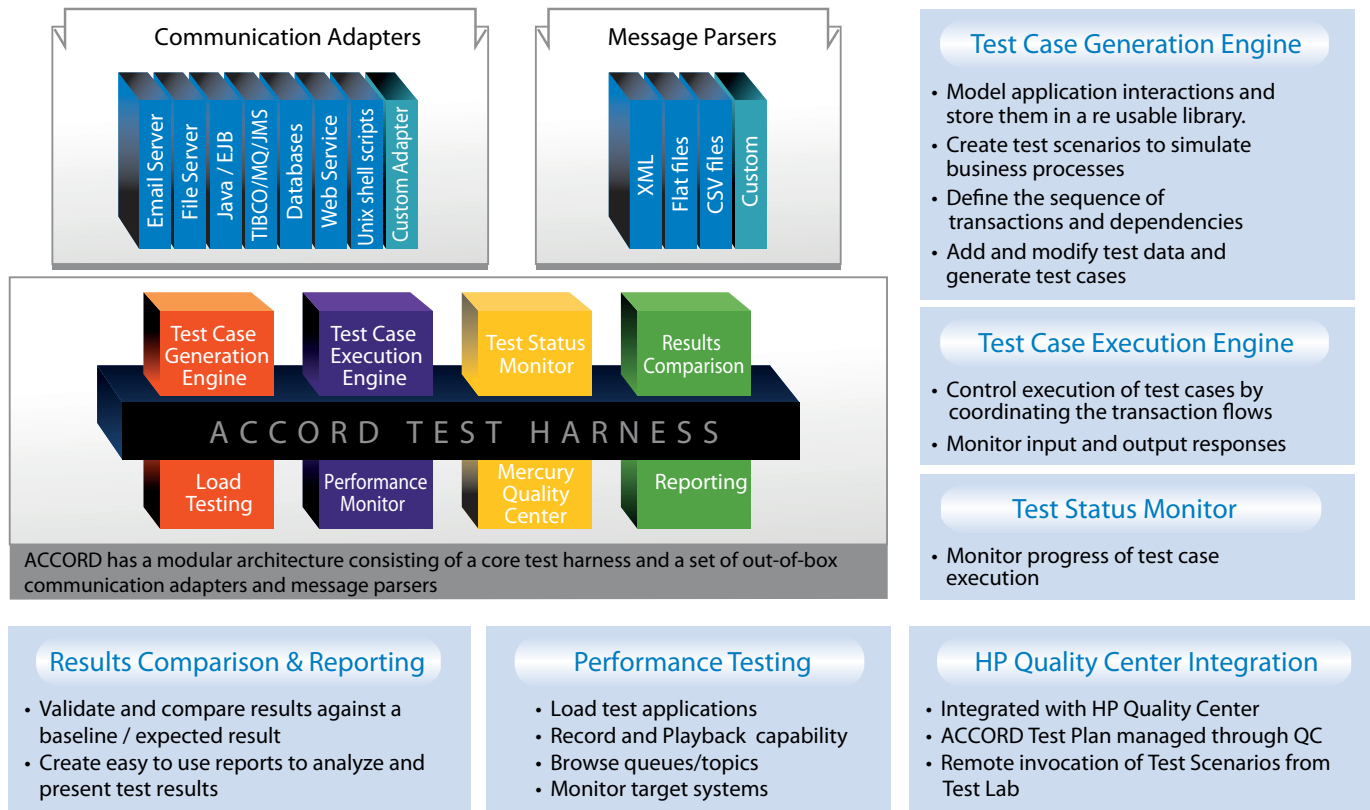
Infosys' ACCORD is an intelligent regression test automation solution which helps you address this issue in transaction-intensive applications.

How Infosys ACCORD works

ACCORD enables -

- Simulation of non-ready application and interfaces
- Automatic generation and execution of server-side test cases
- Automatic comparison of test outcome and subsequent report creation

ACCORD uses the concept of functional decomposition and server-side testing to ensure test comprehensiveness.

ACCORD has a modular architecture consisting of a core test harness and a set of out-of-box communication adapters and message parsers

Test Case Generation Engine

- Model application interactions and store them in a re usable library.
- Create test scenarios to simulate business processes
- Define the sequence of transactions and dependencies
- Add and modify test data and generate test cases

Test Case Execution Engine

- Control execution of test cases by coordinating the transaction flows
- Monitor input and output responses

Test Status Monitor

- Monitor progress of test case execution

Results Comparison & Reporting

- Validate and compare results against a baseline / expected result
- Create easy to use reports to analyze and present test results

Performance Testing

- Load test applications
- Record and Playback capability
- Browse queues/topics
- Monitor target systems

HP Quality Center Integration

- Integrated with HP Quality Center
- ACCORD Test Plan managed through QC
- Remote invocation of Test Scenarios from Test Lab

Benefits

Productivity* & Test Quality	Traditional Approach	With ACCORD	Improvement
Single test scenarios with multiple test cases	3.5 mins with manual testing	0.25 mins	90%
Network testing run	120 mins with manual testing	40 mins	66%
Attributes Coverage	20-30% using GUI focused tools	80 - 90%	50 - 70%

*Time taken to execute the same test cases using both methods

ILLUSTRATION

- Automatic and optimized test case generation leading to enhanced coverage
- Reduced testing effort (up to 35%) at a test case level for complex end-to-end test scenarios
- Simulation of upstream systems leading to quicker testing turn-around time

Success Stories

A leading financial services company replaced its legacy management system with a new advanced investment management system. Infosys used ACCORD to accelerate deployment of the new investment management system resulting in 32% savings in time and effort as compared to the conventional test automation approach.

Infosys partnered with a leading Food and Beverage company to perform Interface, Functional and Regression testing of ETM system with ACCORD resulting in 40% savings in time.

Allied services

Technology Consulting

We work with you to develop implementable architecture solutions that help you leverage technology to enable business strategy. Our solution helps you achieve a balance between IT Effectiveness and business innovation.

Independent Validation

Gives your applications the third degree treatment and tests their robustness and ability to survive your business growth. A "must have" service if you are serious about long term leverage of your application assets.

Process Consulting

Strong quality processes are the key to delivering reliable, usable software within scope & budget commitments. Infosys can help you put in place robust processes to increase productivity, shrink cycle time and enhance customer satisfaction.

SOA Services

Our SOA Services will help you achieve better Business-IT alignment with clearly defined accountability. They help you build on existing IT investments to achieve process standardization & improve process efficiency.

Infosys®

Building **Tomorrow's** Enterprise

About Infosys

Many of the world's most successful organizations rely on Infosys to deliver measurable business value. Infosys provides business consulting, technology, engineering and outsourcing services to help clients in over 30 countries build tomorrow's enterprise.

For more information about Infosys (NASDAQ:INFY), visit www.infosys.com.

For more information, contact askus@infosys.com