

IBM Technical Summit 2013

Démarquez-vous

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Solutions Rational de tests d'applications multi-canal

Rational Test Workbench Rational Quality Manager

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Mobile is the NEXT dominant phase of computing

- Nearly 90% of developers are currently extending enterprise apps to mobile or plan to in the near future.
- In the next 12 months
 77% of developers will be focused on Hybrid application development
- 25+ Almost all expect to deploy more than 25 mobility applications in the next two years





Host/Mainframe



Web/Desktop

- Transformational business models
- Faster lifecycle
- More agile and incremental

Source: Evans Data Mobile Developer Survey Mobile Development Report 2012 Volume

Source: Business Insider (September 2012)



The Quality of mobile applications is critical

Mobile apps can increase customer interaction, improve productivity and offer access to new markets. But poor quality can have a real impact on business.





The number of mobile devices and platforms is continuously growing, and the pace of delivery and response to customer feedback is a growing challenge.

The mobile ecosystem extends back-end services and integrated platforms which complicates end-to-end application testing.



How can we ensure software quality in a cost effective way?



Mobile Test Automation with IBM Rational Test Workbench

Mobile Test Automation

 Support for native, and hybrid applications running on Android and iOS

- Natural language test and visual test editing
- Simplified IDE and mobile device clients for test authoring, execution, and reporting
- High-fidelity capture an replay of multi-touch events

Eclipse Client integration

- Mobile Test Automation
- Support for Selenium web GUI test automation
- Multi-channel test scenarios
- Integration with Rational Quality Manager and the IBM Worklight mobile development platform

End-to-end mobile testing

- Testing of middle-tier and back end-services
- Virtualization of middle-tier and back-end systems
- Performance testing of your integration infrastructure







Platform Support

Android version 2.2 to 4.2 (4.3 in 8.5.1) iOS version 6.x (7.0 in 8.5.1)

Application Support

Native Applications and Hybrid applications using jQuery Mobile (Dojo Mobile in 8.5.1)

Runtime Target

Android on physical devices and emulators iOS on iPhone/iPad emulator

Test representation

Natural language with visual editing using application screen shots

Advanced features

True object recognition with verification of any object property
Support for localized strings
Simplified data-driven testing



IBM Rational Test Workbench Mobile Client

Manage test recording and playback on mobile devices and emulators

- Upload apps from the Rational Test
 Workbench for recording or playback
- High fidelity recording of UI gestures and device events
- Playback of automated tests directly from the device/emulator or through the Rational Test Workbench
- Generates detailed playback reports
- Sends playback reports back to the workbench when test run is completed

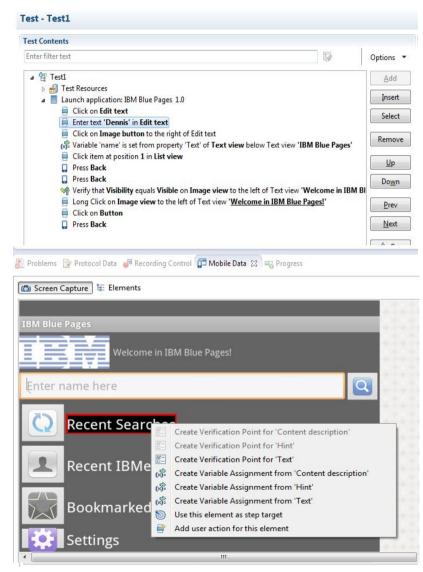




Rational Test Workbench Test Editor

Simplified authoring of data driven mobile test scenarios

- Natural language test narrative supports localized strings and data driven actions
- Screen capture is object sensitive and provides shortcuts for adding steps/commands
- Verification points and test variables can be created from any object property
- True object recognition enables re-use across device form factors
- Supports device hardware actions

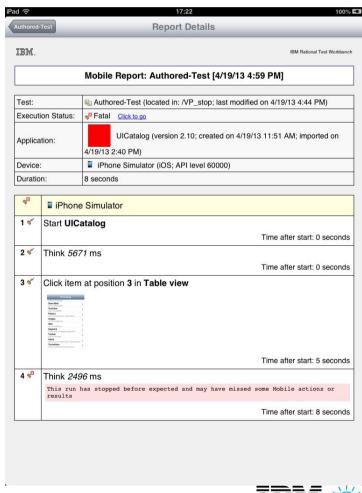






Visualize the test flow and report on test failures

- Available on the Mobile Client and the Test Workbench with same style and format
- Device status and information displayed in the report
- Each test step shown with its execution status, device screen shots, and expected/received results
- Test execution and reports can also be driven through IBM Rational Quality Manager





End-to-end Mobile Application Testing

Test and Virtualize mid-tier and back end applications and services

- Examine integration protocols and messages to verify end-to-end communication
- Reuse integration tests to verify the scalability of your integration middleware and services infrastructure
- Virtualize application services to enable continuous integration, accelerate testing, and reduce application integration risk
- Leverage Rational Test Workbench extensive testing features to address nonmobile components of your environment



For more information visit: http://www-03.ibm.com/software/products/us/en/rtvs/



Rational Test Workbench and Collaborative Lifecycle Management

Rational Test Workbench integrates with the IBM Rational Solution for Collaborative Lifecycle Management

- Real-time planning
- In-context collaboration
- Lifecycle traceability
- Comprehensive test plans
- Requirements-driven testing



For more information visit: https://jazz.net/products/clm/



Rational Test Workbench is part of the IBM MobileFirst Platform

Save time and cost using a collaborative development environment supporting a process of continuous delivery.

- Integrates with IBM Worklight mobile application development platform
- Seamlessly switch between code construction and testing within the Eclipse IDE
- Upload applications under test from the Worklight Application Center



http://www.ibm.com/mobilefirst





www.ibm.com/software/rational





RQM – Rational Quality Manager

- -Test Case executable entity in RQM
- -Test Suite collection of test cases
- -Test Script detailed manual steps or pointer to an automation tool
- -Test Environment definition of the test setup

■ RTW – Rational Test Workbench

- -Functional Test automated script to test at the GUI level
- -Mobile Test automated script to test a mobile application
- -Integration Test automated script to test at component level
- -Performance Test multi protocol performance testing
- Virtualisation automated creation of stub to virtualise some components
- -Compound Test a sequence/combination of multiple types of tests





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