



IBM Technical Summit 2013

Démarquez-vous

17 octobre | IBM Client Center Paris





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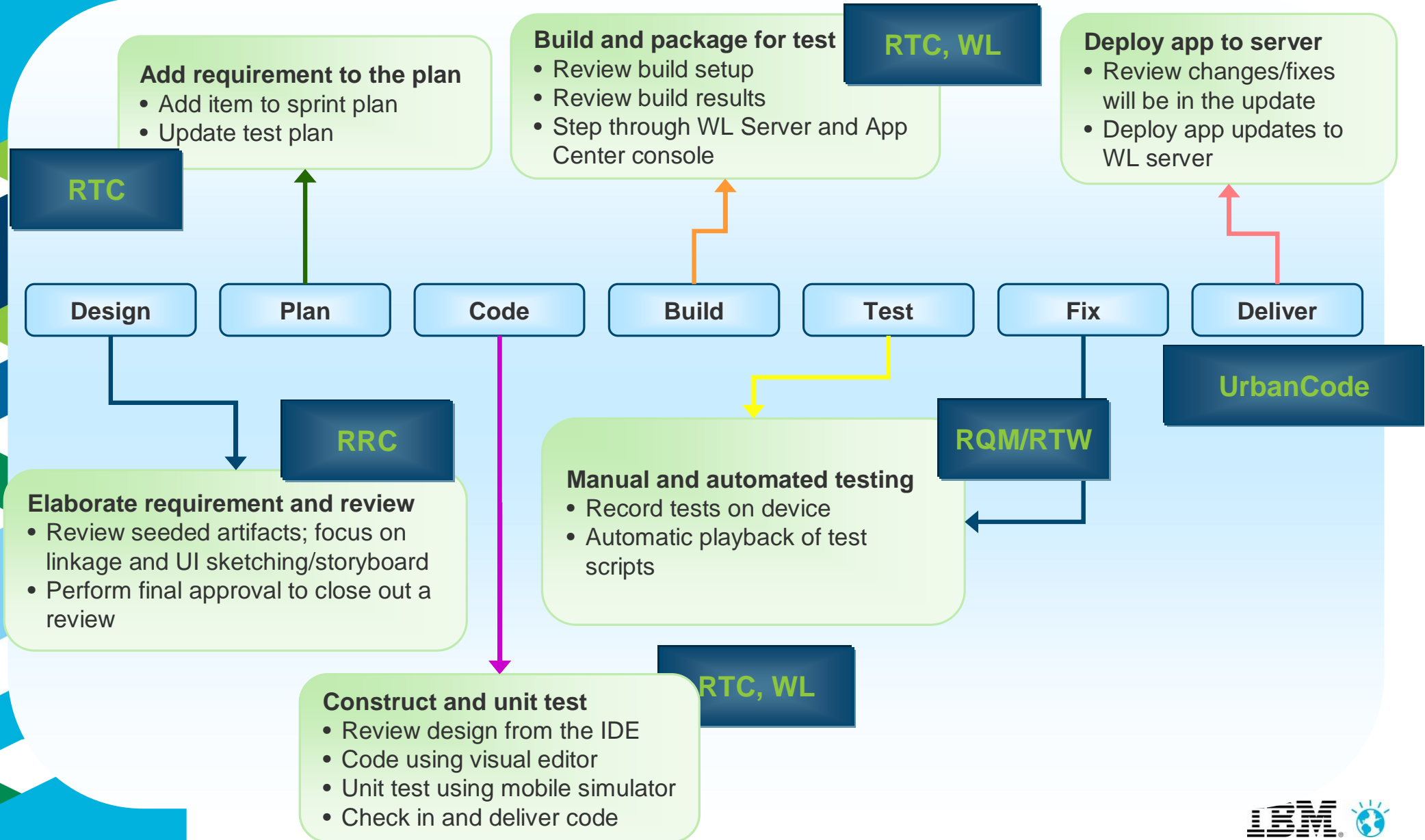
Mise en place d'une filière de développement mobile au travers d'un scénario end-to-end

Jaafar Chraibi : jaafar.chraibi@fr.ibm.com

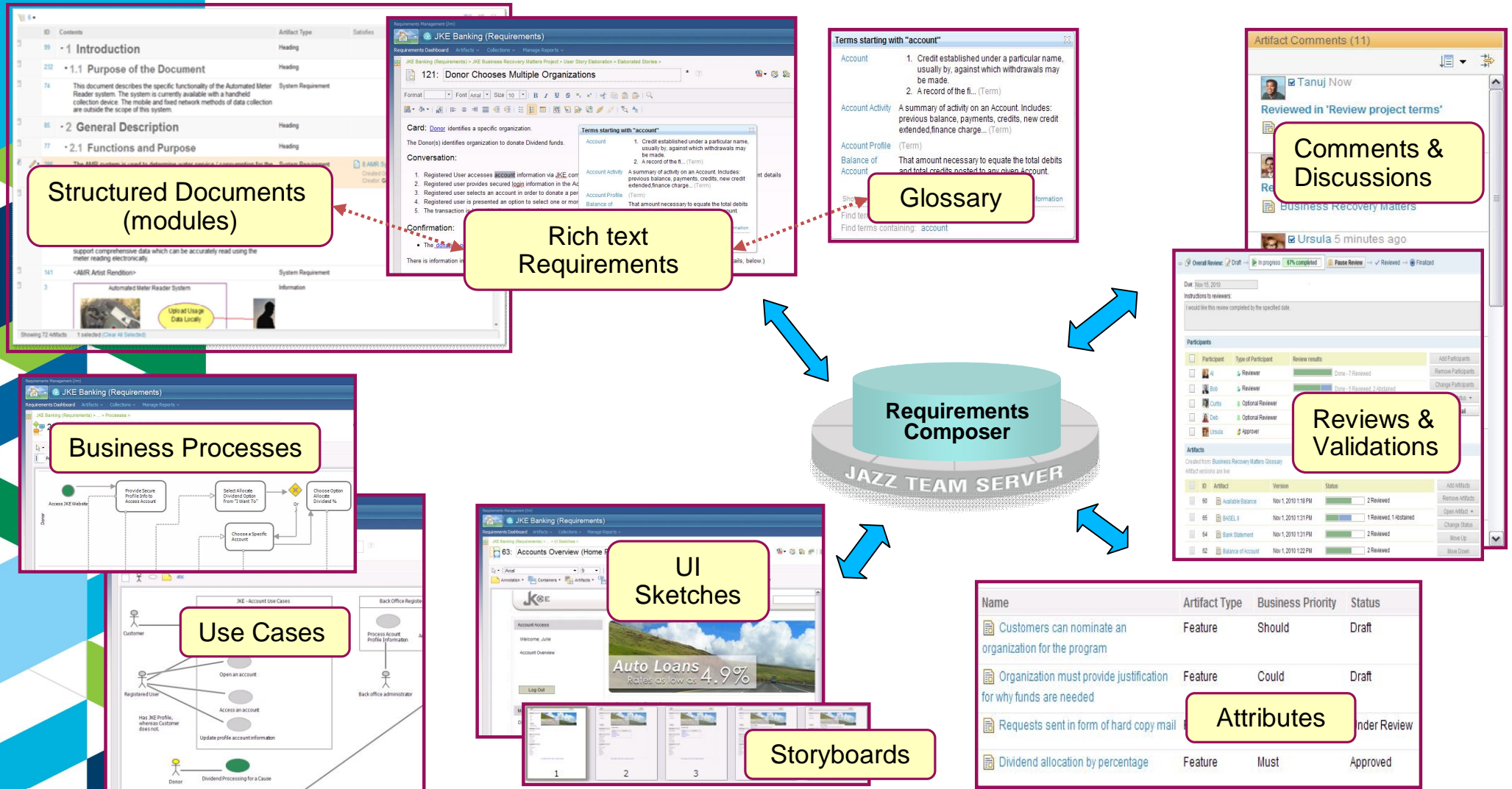
MobileFirst Solution Architect

Mobile scenario steps

End-to-end process; highlighting capabilities relevant to mobile development and delivery



Rational Requirements Composer : Define & Manage Requirements with web client



UI Storyboards depict the flow of the application

Requirements Management (/rm)

JKE Banking (Requirements)

Project Dashboard Artifacts Collections Modules Reports

JKE Banking (Requirements) > JKE Business Recovery Matters Project > User Story Elaboration > Storyboards >

No Tags Defined

Go to Frame List 362: Dividend Contribution – Mobile

1 The app displays the Dividend Contribution screen

2 The user selects Choose an account to pay from

362: Dividend Contribution – Mobile

Description:

Project: JKE Banking (Requirements)

Team Ownership: JKE Banking (Requirements)

Created On: Apr 21, 2012 11:14:17 AM

Created By: Bob

Modified On: Apr 21, 2012 12:13:19 PM

Modified By: Bob

Is Suspect: Select a profile

Type: Storyboard

Format: Storyboard

Status: Draft

✓ Collaborate as a team using comments and annotations

✓ Get feedback from non-technical stakeholders

IBM. Unsupported browser jazz

Mobile scenario steps

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Design

Plan

Code

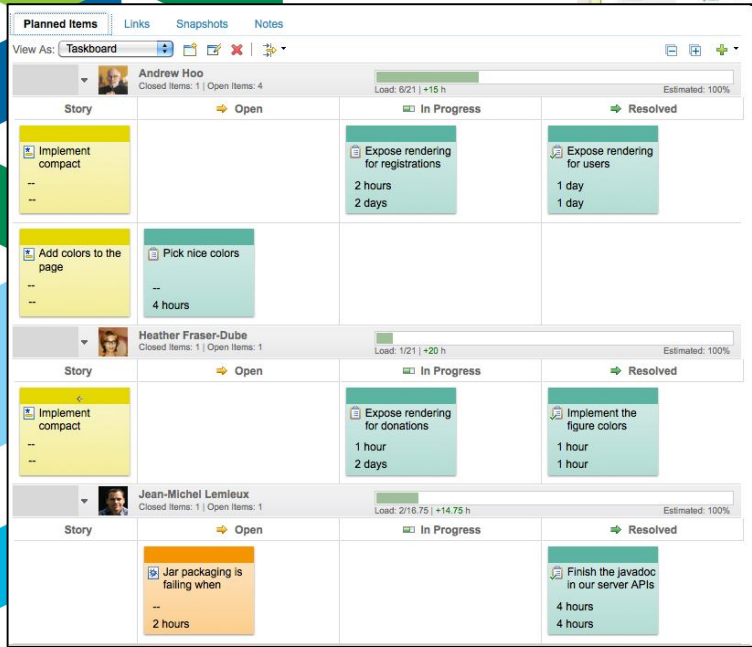
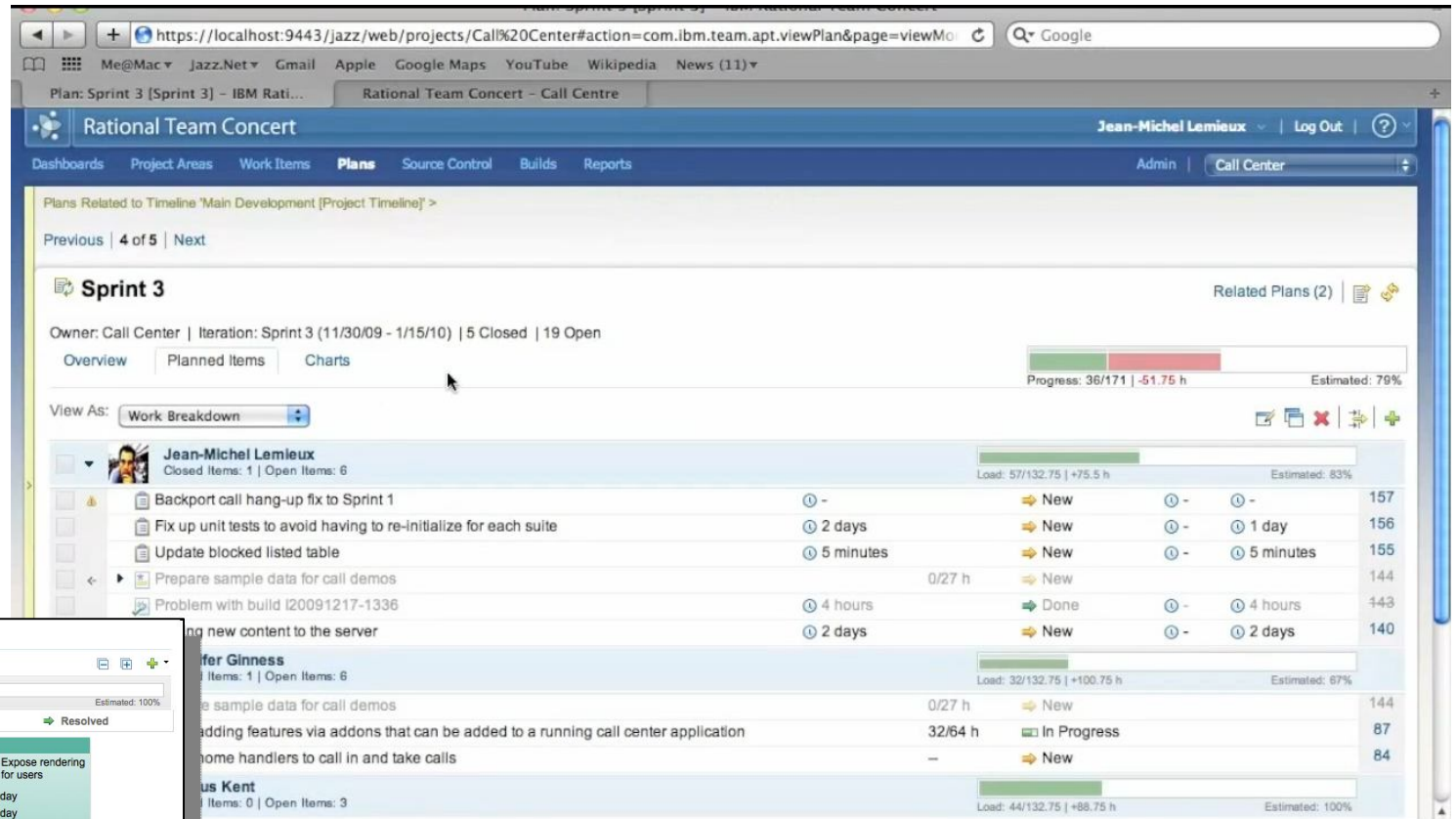
Build

Test

Fix

Deliver

Rational Team Concert: Enable agile planning



Roadmap charts

Gain insight on projects plans

Taskboards

Mobile scenario steps

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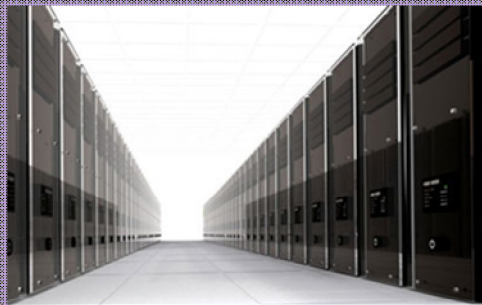
Construct and unit test

- Review design from the IDE
- Code using visual editor
- Unit test using mobile simulator
- Check in and deliver code

Mobile Apps – Top Challenges



Creating rich, yet cost-effective mobile apps in a fragmented technological landscape, supporting multiple devices.



Connecting the enterprise back-end services in a secure and scalable manner

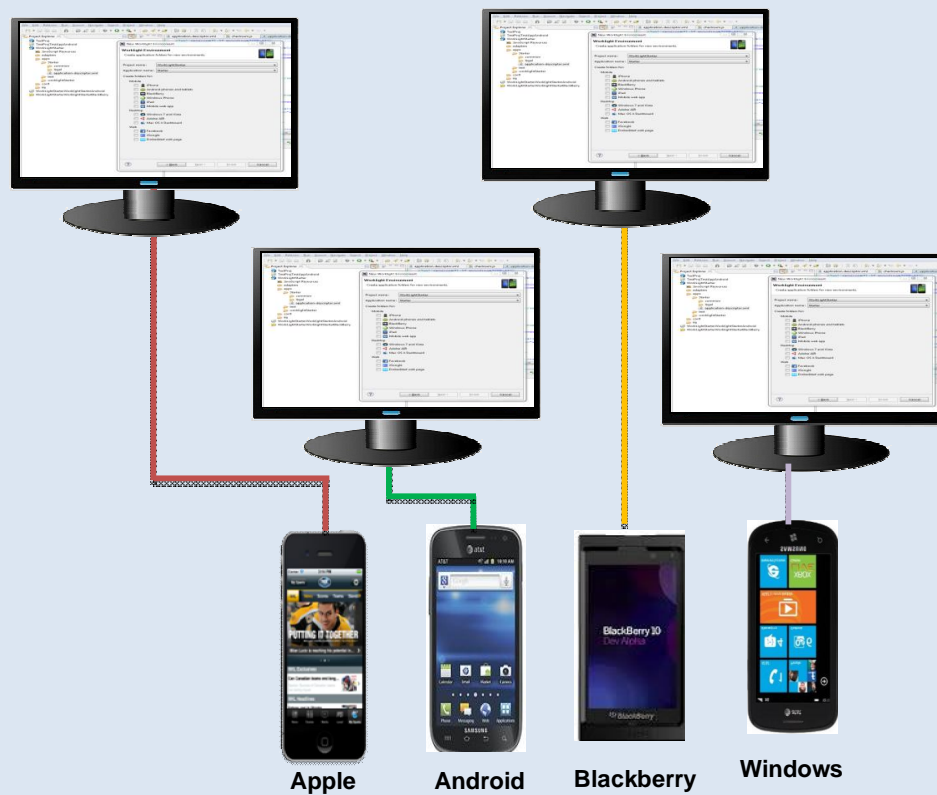


Controlling the growing portfolio of applications deployed “in the wild”

Multi-platform development with a shared codebase: Worklight Studio

From the complexity of many...

- Multiple sets of tools & frameworks
- Four codebases to develop and maintain



To the simplicity of one

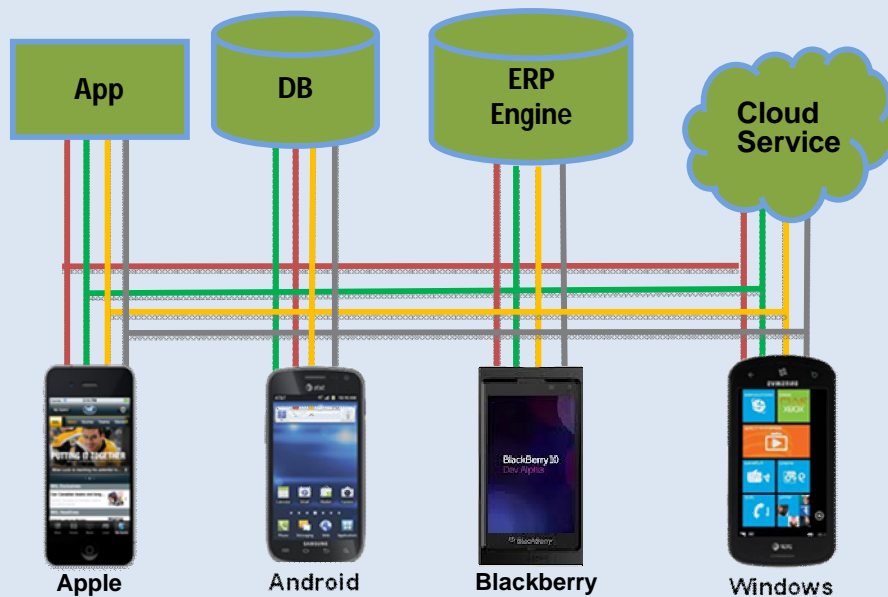
- One development environment
- One codebase to develop and maintain



Controlled back-end integration: Worklight Server

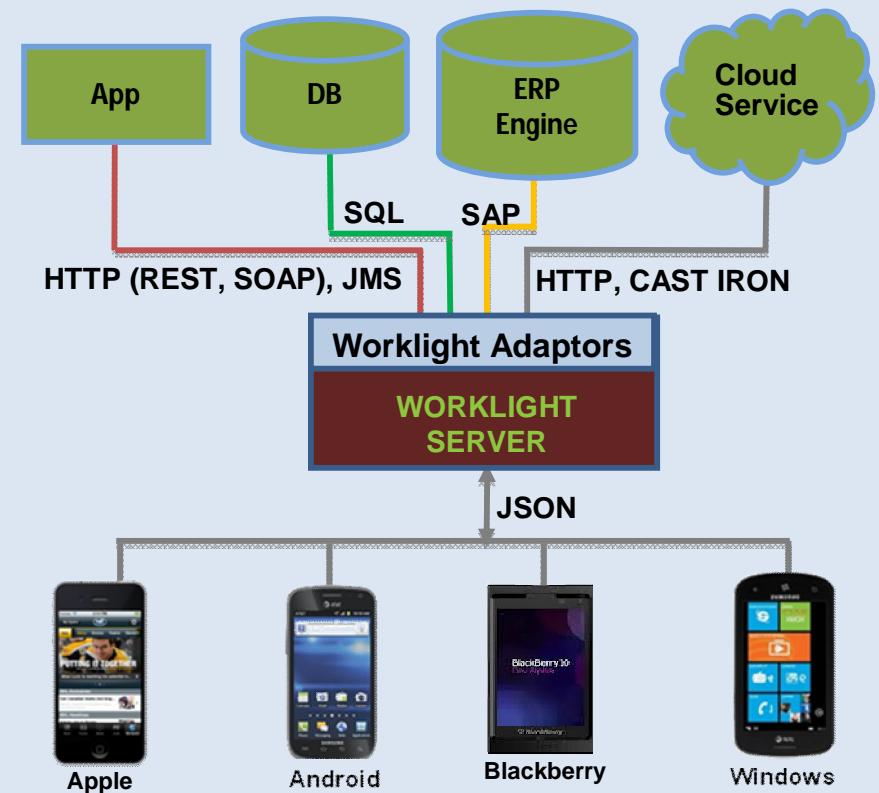
From multiple point-to-point integrations

- Multiple sets of integrations to enterprise resources to build and maintain
- YOU manage caching, synchronization and end-to-end encryption

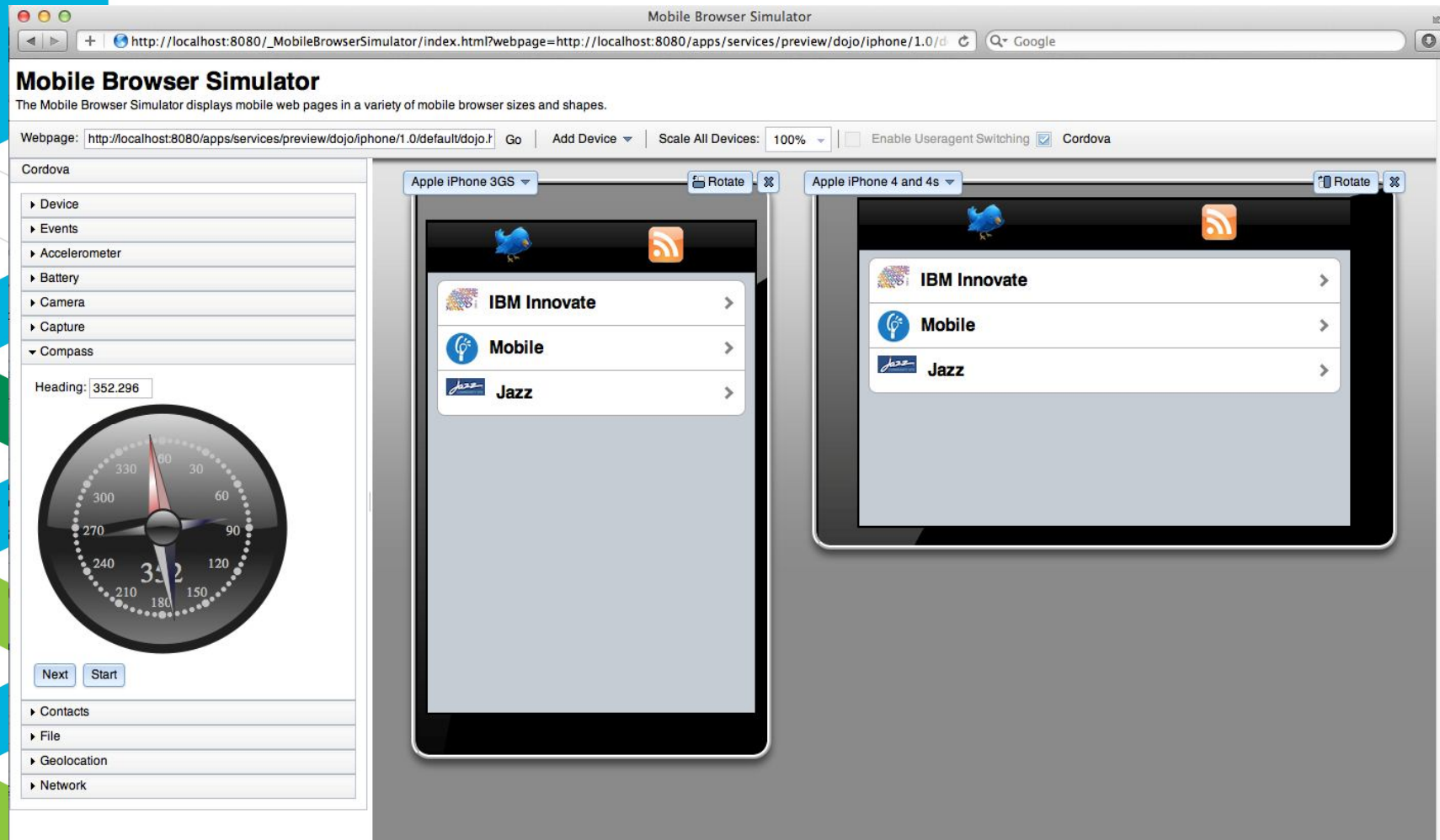


To streamlined, transparent access

- Worklight transforms enterprise data into mobile-friendly, JSON format
- Worklight Server manages caching, data synchronization and end-to-end encryption

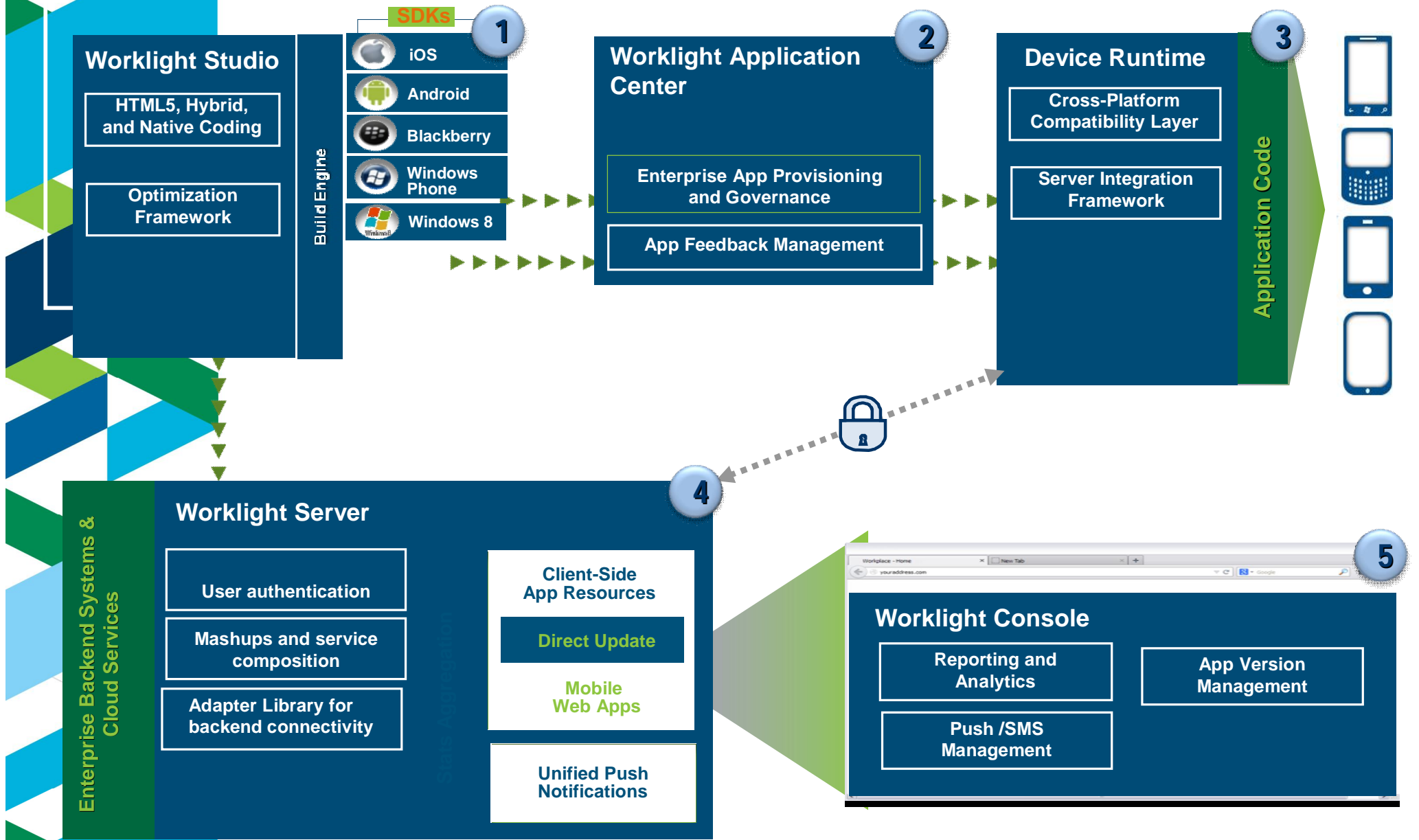


Rich mobile simulator for hybrid applications



- Device specific tests early during development.
- Change device types, orientation, device settings (GPS, accelerometer, etc...)
- Supports Cordova and Worklight client API

Summary of IBM Worklight Components



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Test

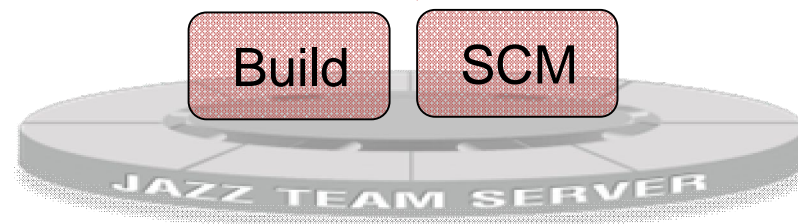
Fix

Deliver

Accelerating build and deployment time Orchestrating native mobile app builds with Rational Team Concert



Mobile devices & emulators



Team repository of apps

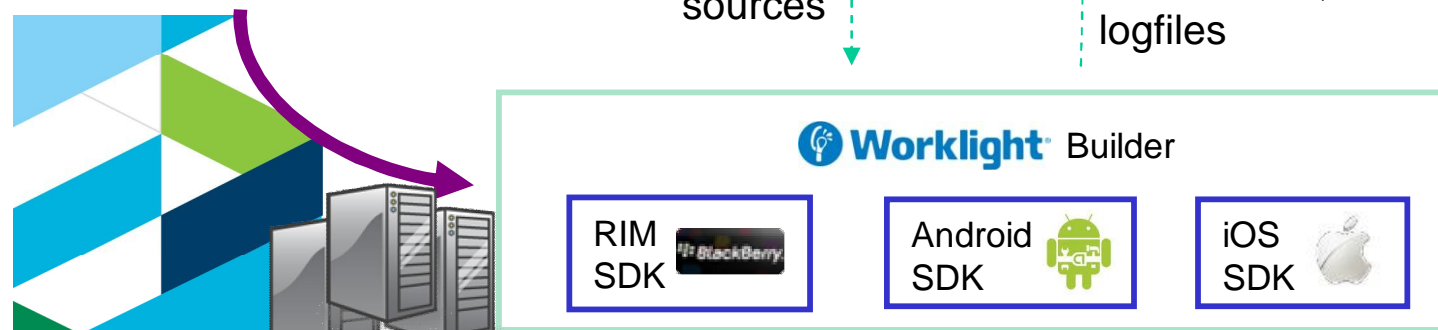
sources

executables, logfiles



App stores

RTC build engine and Worklight mobile build utility provide a controlled build environment for mobile apps – both native and hybrid



Mobile build server farm

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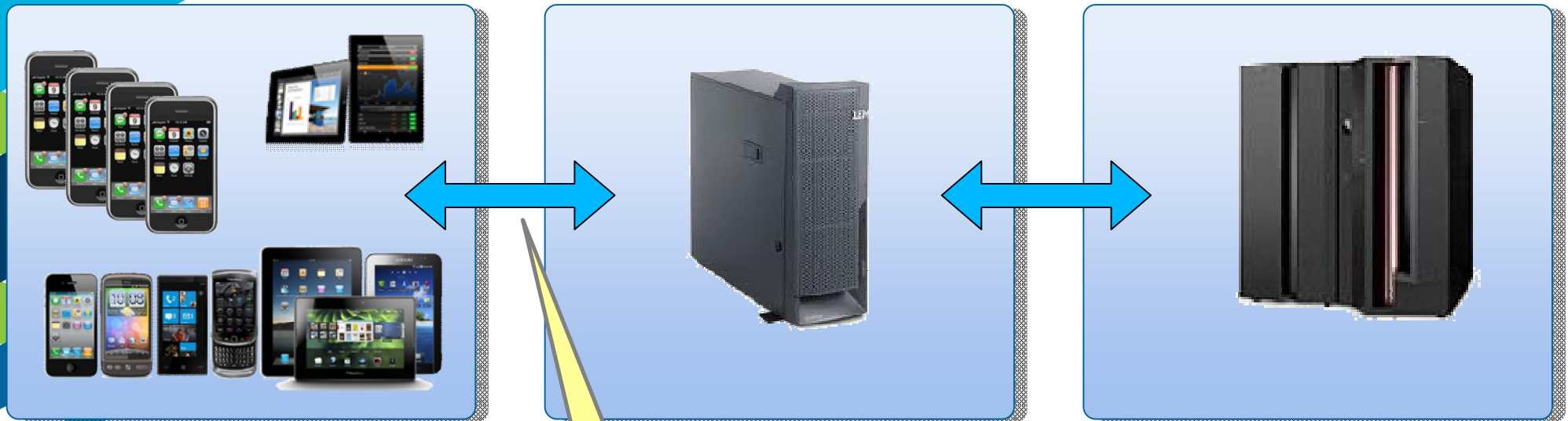
Test

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Testing the end-to-end mobile solution

Testing involves much more than just the mobile front-end



Client Tier Devices

Middle Tier Server

Back-end Data & Services

Mobile & Web*
Functional Test

Service
Functional Test

Performance
Test

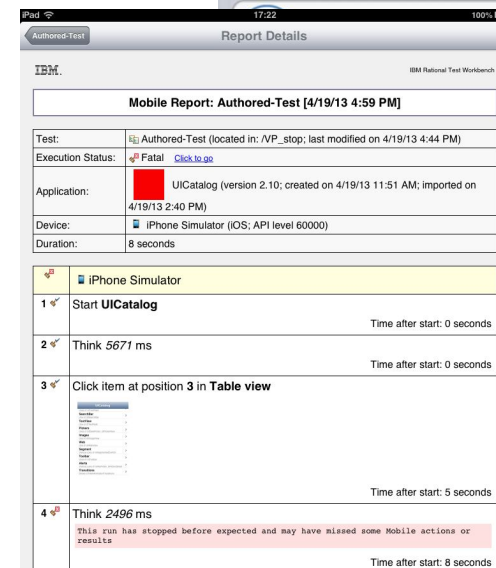
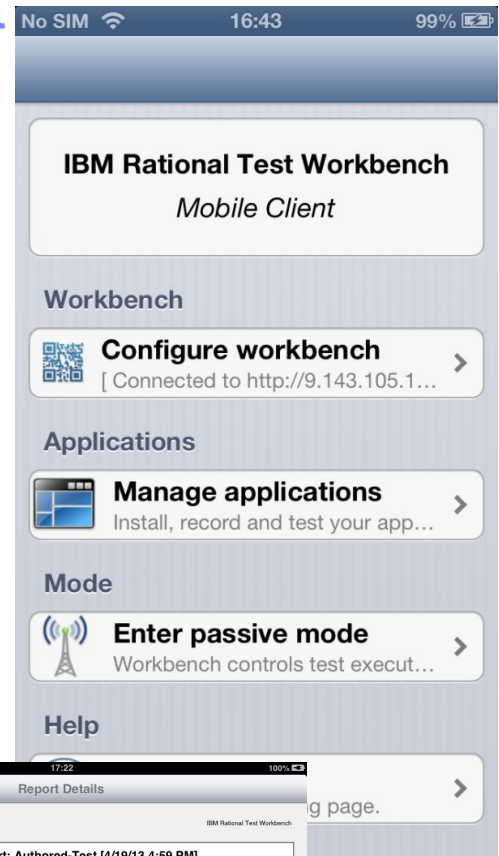
Service
Virtualization

Rational Test Workbench (+RTVS/RPTS)

IBM Rational Test Workbench Mobile Client

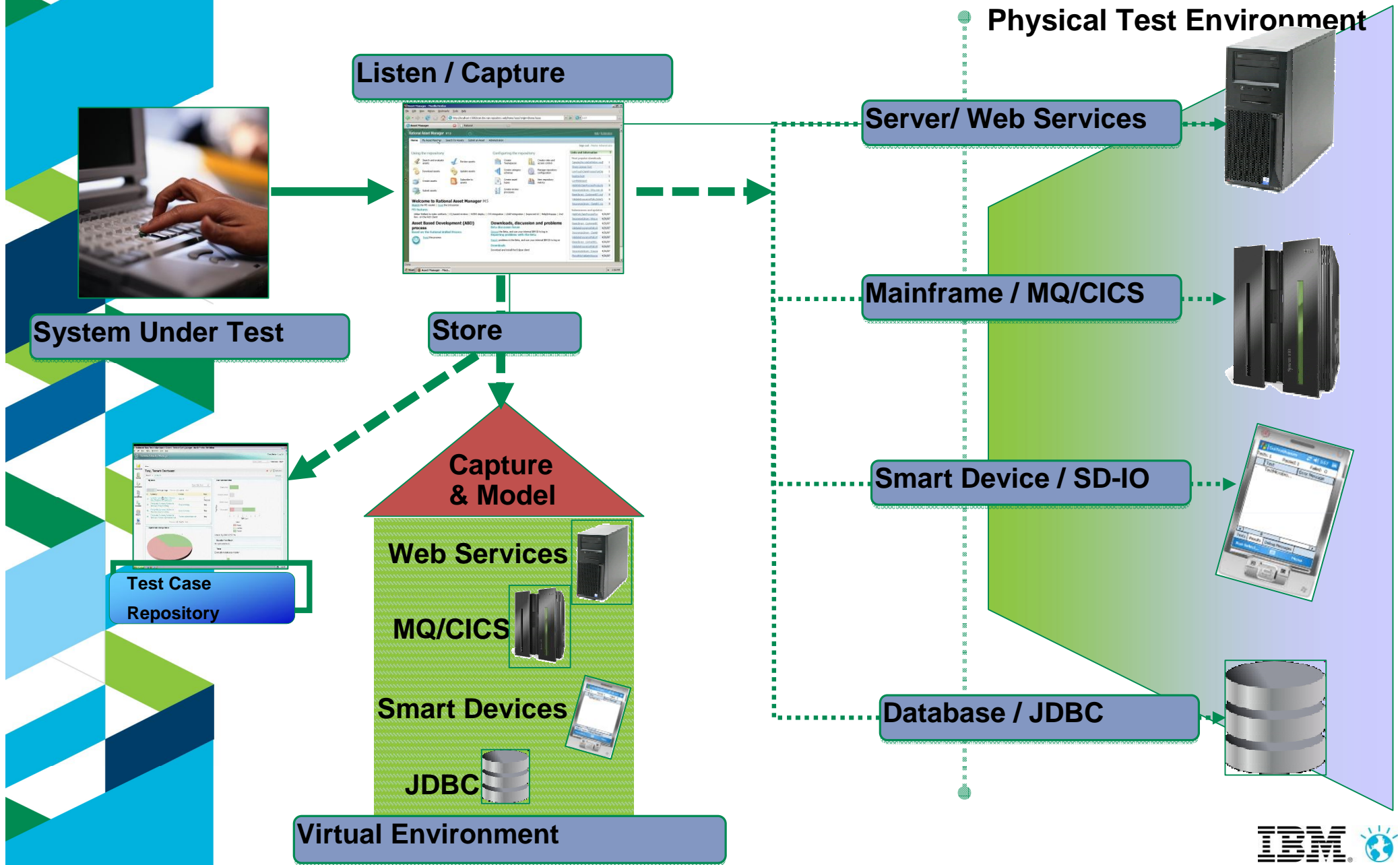
Manage test recording and automated playback on mobile devices and emulators

- Upload apps from the Rational Test Workbench for recording or playback
- High fidelity recording of UI gestures and device events
- Natural language test narrative supports localized strings and data driven actions
- 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



IBM Rational Test Virtualization Solution

Test Virtualization listens to and captures the behavior and characteristics of back-end systems



IBM Rational Test Virtualization Solution provides benefits across the software delivery life cycle

Developer uses virtual services to unit test code on their workstation – no elaborate environment required

Development and Test teams uses virtual services for early stage advanced testing

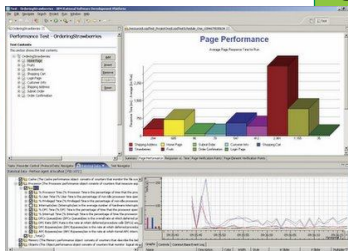
Define constrained systems and services for virtualization

Unit Integration System System Integration User Acceptance Operability

Performance

The full system or components of the system can be performance tested early in the cycle. Virtual services can be used when components are not available

Later in the cycle, final pre-production versions of services are swapped in as they become available. Final testing is done against real services



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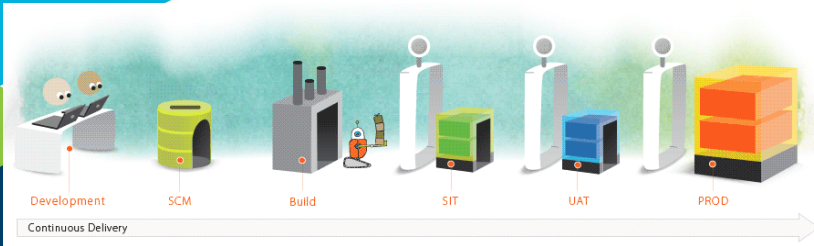
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IBM UrbanCode Solutions

Industrializing Software Delivery



UrbanCode uDeploy

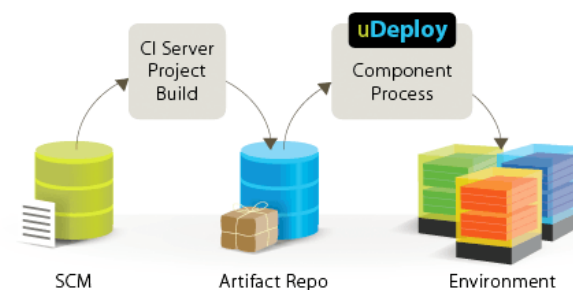
Orchestrates and automates the deployment of applications, middleware configuration, and database changes into development, test and production environments, accelerating time to market, driving down cost while reducing risk.

UrbanCode uRelease

Transforms error-prone and chaotic release planning into streamlined release events, replacing spreadsheets with a collaborative solution that eliminates breakdowns in communication enabling more frequent releases at lower risk.

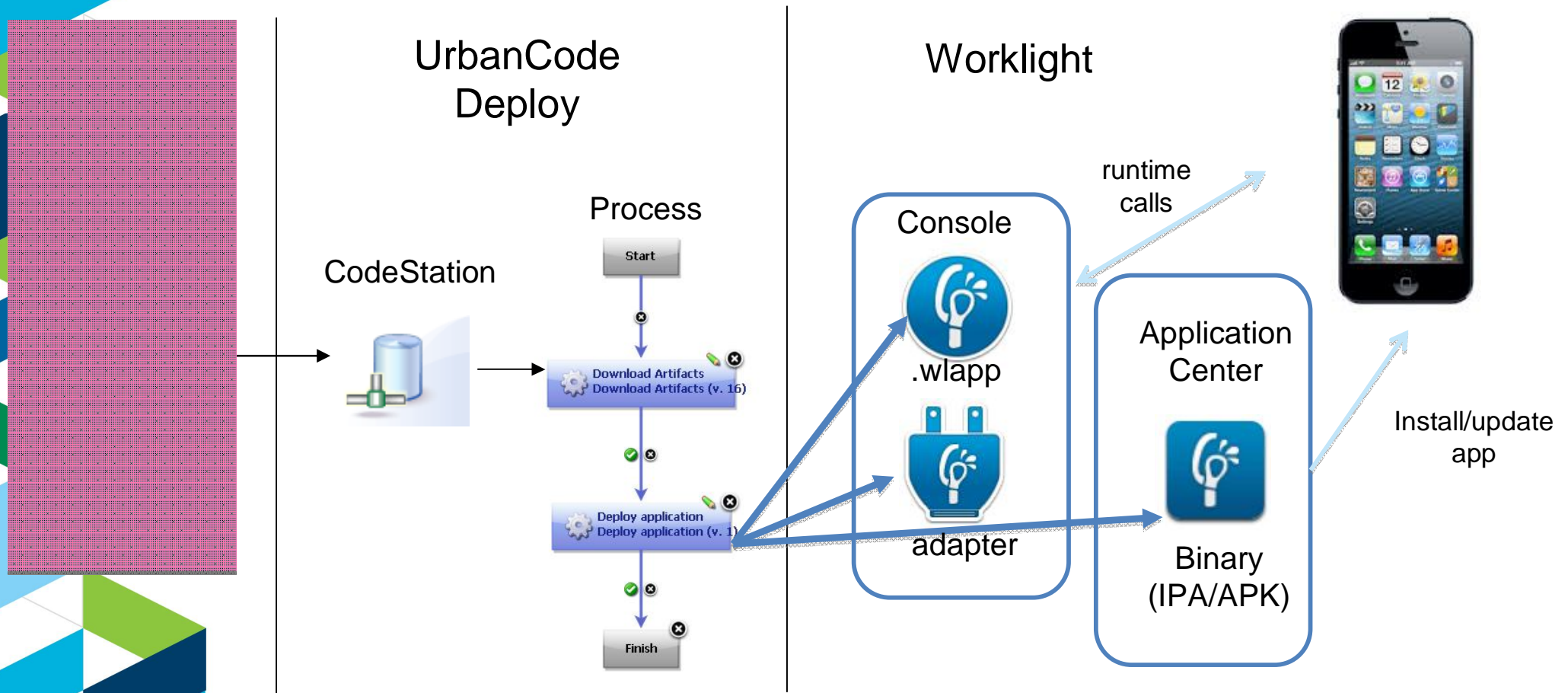
IBM UrbanCode solution helps clients:

- **Reduce errors:** Automated software release and deployment
- **Improve productivity:** Push-button deployments for developer and operations
- **Faster time-to-market:** Automated release and deployment with built-in best practices provides
- **Compliance and auditability:** Enforced Security and traceability



IBM UrbanCode Deploy V6.0 – deploy apps to Worklight

- ✓ The new plugin enables automated deployment to Worklight Console and Application Center
 - Supports Worklight Apps targeting iOS and Android OS



- ✓ Use App Server, Database and other plugins to configure environments and Worklight projects