Mobile Applications - The Journey From Development to Testing to Management
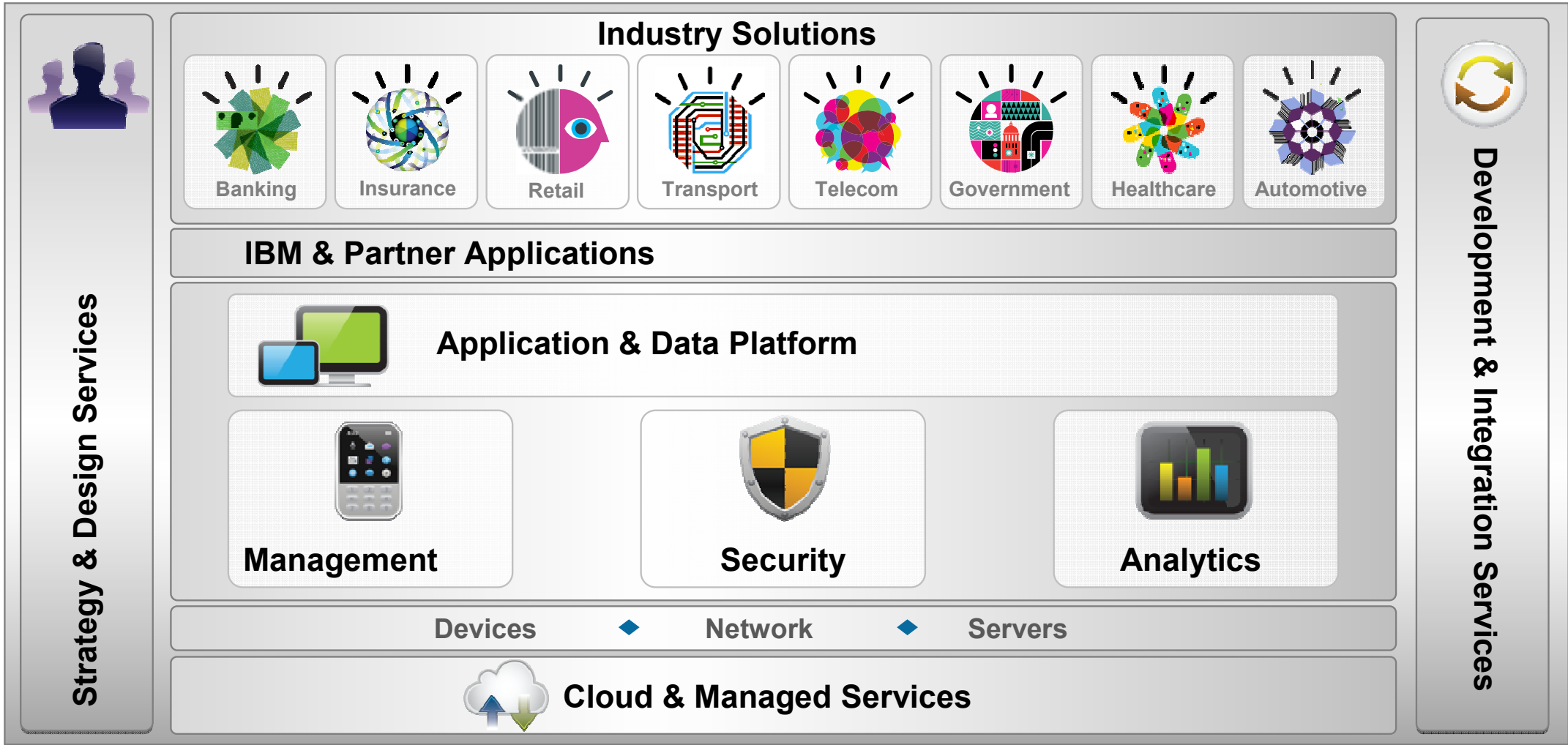
June 2013
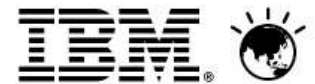
Agenda

- Introduction
- IBM MobileFirst Platform
- Automated Functional Testing for Mobile
- Questions

INTRODUCTION

IBM MobileFirst offering portfolio

Strategy & Design Services

Industry Solutions

| Banking | Insurance | Retail | Transport | Telecom | Government | Healthcare | Automotive |

IBM & Partner Applications

Application & Data Platform

Management   **Security**   **Analytics**

Devices ◆ Network ◆ Servers

Cloud & Managed Services

Development & Integration Services

IBM

IBM MOBILEFIRST PLATFORM

IBM MobileFirst offering portfolio

Strategy & Design Services

Industry Solutions

Banking Insurance Retail Transport Telecom Government Healthcare Automotive

IBM & Partner Applications

Application & Data Platform

Management　　　　**Security**　　　　**Analytics**

Devices　◆　Network　◆　Servers

Cloud & Managed Services

Development & Integration Services
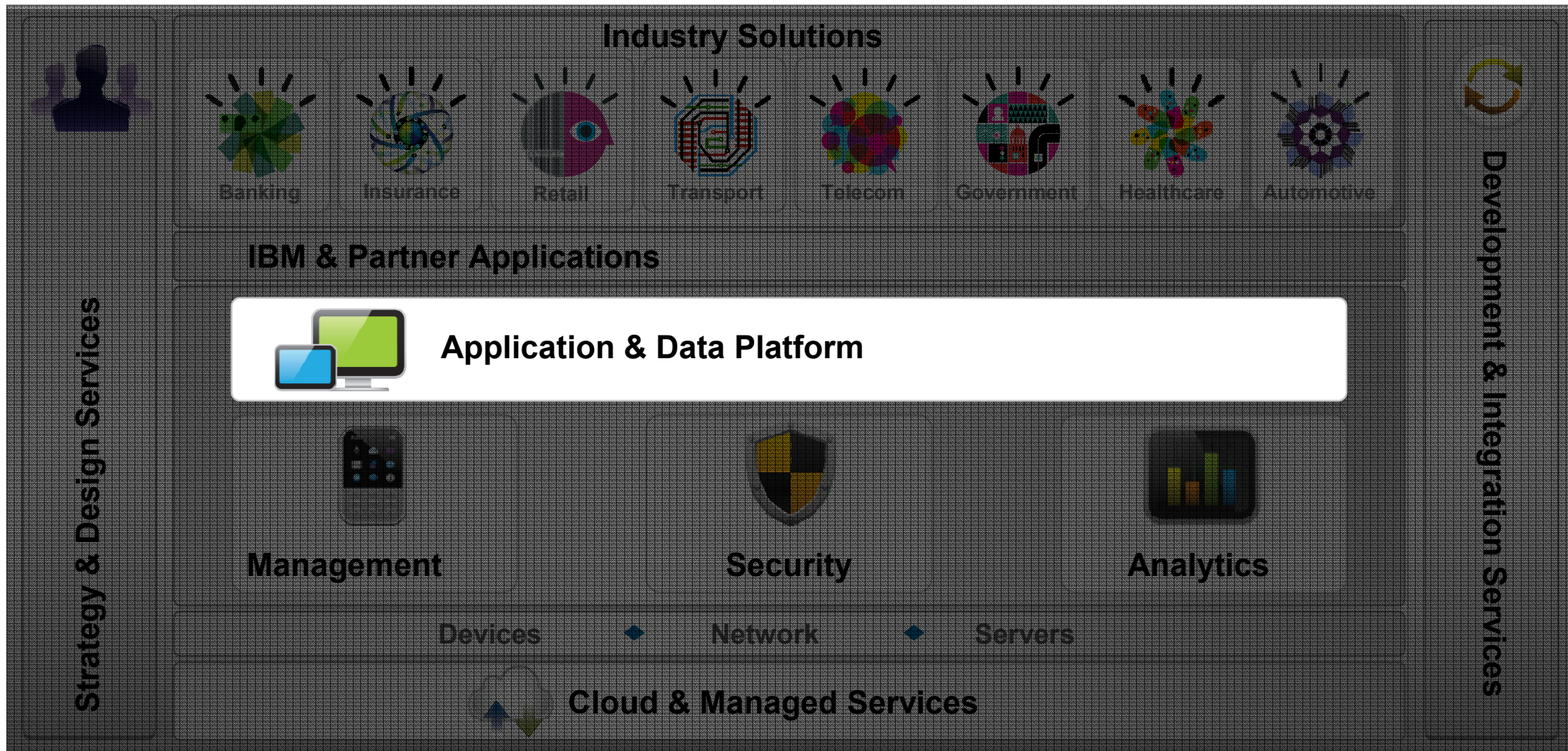
IBM MobileFirst Platform

For clients who need to:

- Quickly develop and deploy high quality mobile apps across multiple platforms

- Seamlessly connect rich mobile applications to enterprise data and services

Key offerings:

- IBM Worklight

- IBM Rational Test Workbench

- IBM Mobile Application Platform Management Services

IBM MobileFirst Platform offers:

✓ Native, web, or hybrid app development

✓ Tools to build & test high quality apps for many devices

✓ Management, security, continuous delivery & distribution of apps

✓ Easy connectivity to existing data & services for mobile usage

✓ On-premises or managed service delivery

IBM Worklight: A mobile application platform

Speeding the development, integration and management of mobile applications and infrastructure

Development
- Web, hybrid, and native development: open, flexible, standard-based, multi-screen/omni-channel
- Functional testing
- Development lifecycle tools and integration

App Security and Trust
- Server-enforced authentication
- App authenticity and user-app-device binding
- Secure and syncable on-device storage
- App version enforcement

User Engagement
- Unified push and SMS notifications
- Geolocation and context collections and intelligence
- Mobile-friendly integration

Mobile Analytics
- Efficient acquisition of analytics data
- Development, operational, and business analytics
- Offline and online event management integration

IBM Worklight goes beyond mobile app UI creation to deliver mobile optimised, standards-based, middleware and tools for enterprise-grade mobile applications and services creation

DEMO

AUTOMATED FUNCTIONAL TESTING FOR MOBILE

Rational Test Workbench v8.5

Shifting mobile testing to the left: test earlier, more often, for less.

- Comprehensive, complete, resilient functional testing

    – Comprehensive – Android and iOS, Native and hybrid

    – Complete – Record, edit, and run on mobile devices

    – Resilient – Same test runs across multiple devices

    – Simple to use–Natural language scripts can be used by developers and non-developers alike

    – Test mobile apps in production-like environments using virtualized services

- Streamlined, four-step process

    1. **Record -** Play your test first with the recording-ready app and generate a test script

    2. **Author -** Edit and enhance the test script by adding verification points and others instructions

    3. **Playback -** Run the test script on a real device, a simulator or an emulator

    4. **Report -** Generate an HTML report
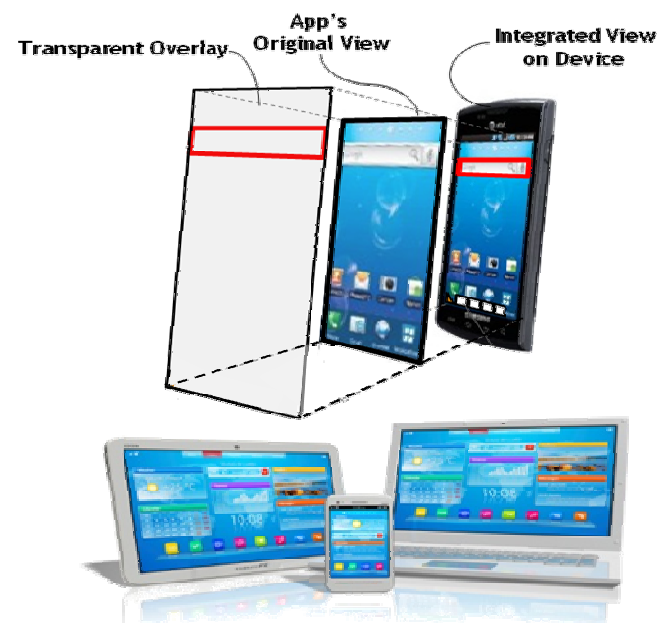
"Being agile, we are developing tests as we write our code, so automating the functional tests of our mobile apps and using them for regression on multiple platforms makes our team much more productive!"

Mobile developer.

IBM

Rational Quality Manager: Central Hub for Quality Management

Rational Quality Manager

- Test Planning
- Test Construction
- Test Execution
- Team Collaboration
- Reporting & Dashboard

Management

Defect Management

Rational Requirements Composer

Rational DOORS

Rational RequisitePro

Rational Team Concert

Rational ClearQuest

OPEN SERVICES

jazz

eggPlant

Mobile application testing via a non-invasive image recognition of GUIs and screens

DeviceAnywhere *by Mobile Complete*

Managing mobile applications testing across a global handset test environment

perfecto mobile
The MobileCloud Company

MobileCloud for Rational unites IBM's quality management with Perfecto Mobile's cloud-based automated mobile testing technology.

Integration Testing and Test Virtualization

Rational Test Virtualization Server (Green Hat)

QUESTIONS

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BACK UP SLIDES