# **IBM Business Connect**

### Business Without Limits.

July 18 | Sandton Convention Centre, Johannesburg

## Mobility

Michael Lackerbauer **18 July 2013** 

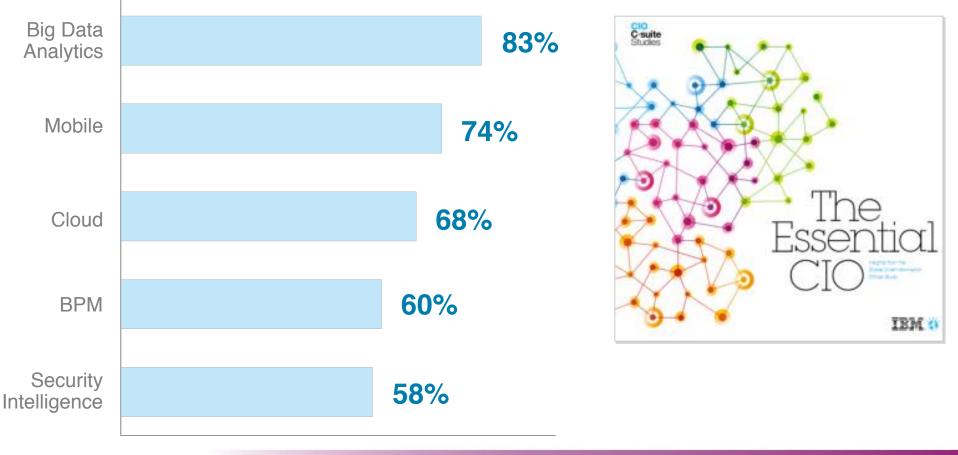








#### Technologies for Innovation and Solving Specific Business Challenges

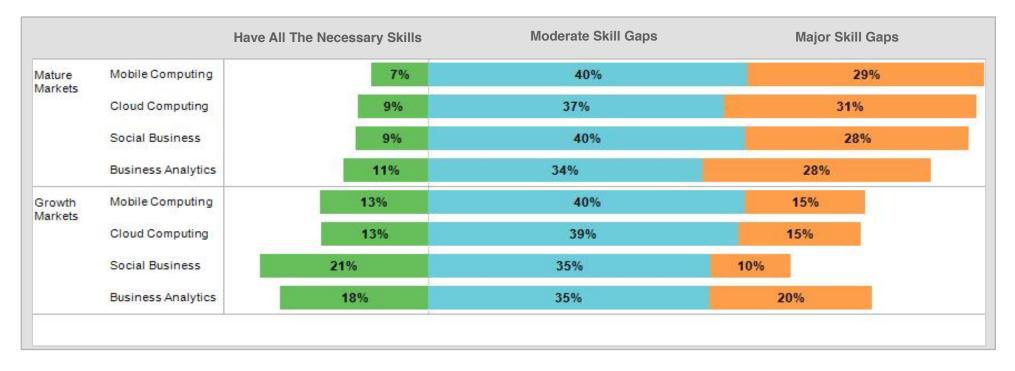


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### The IT Skill Gap: Mature vs Growth Markets



Source: 2012 Tech Trends Study, IBM developerWorks and IBM Center for Applied Insights, November 2012... Growth Markets including Brazil, Russia, China, India and South Africa.



### Mobile has enormous opportunities

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### **Business to Enterprise**



- Increase worker productivity
- Improved claims processing
- Increase revenue with sales engagements
- Extend existing applications to mobile workers and customers
- Reducing fuel, gas, or fleet maintenance costs
   where relevant
- Increase employee and business partner responsiveness and decision making speed
- Resolve internal IT issues faster
- Reduce personnel cost (utilizing personal devices instead of corporate devices)

### **Business to Consumer**

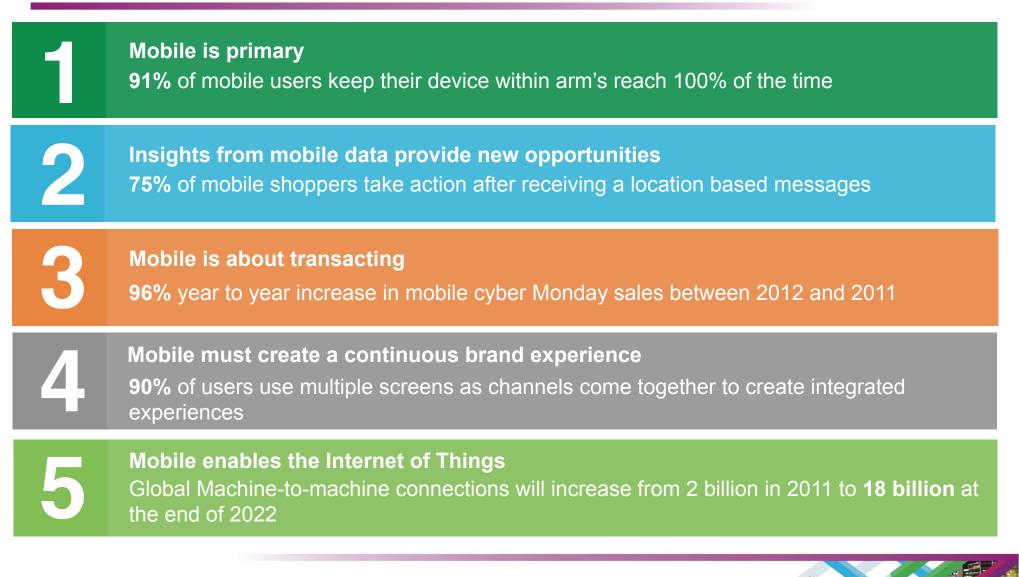


- Improve customer satisfaction
- Deeper customer engagement and loyalty
- Drive increased sales through Personalized offers
- Customer service
- Competitive differentiator
- Improve brand perception
- Deeper insight into customer buying behavior for up sell and cross sell
- Improve in store experience with mobile concierge services

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### 5 Trends with significant implications for the enterprise



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### Expanding our mobile portfolio with new capabilities



125+ patents for wireless inventions in 2012, bringing the total to 270



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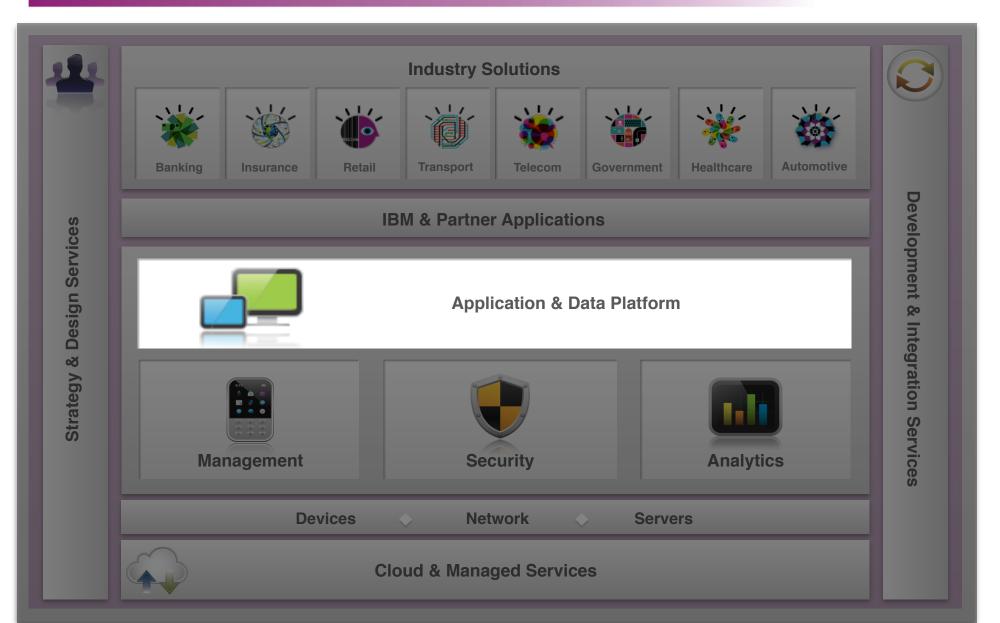
### IBM introduces the IBM MobileFirst offering portfolio





### **IBM MobileFirst: Application Development**







### Mobile apps are different.

- They are more strategic Greater urgency urgency and immediacy of engagement
- They are context-aware –know where you are and what you are doing
- They run on unstable networks-interruption is the norm, not the exception
- **Smaller footprint** More challenging to make compelling and easy to use
- Always on An opportunity to deliver greater value

### Management is different.

- Smaller screens pulling content from more sources: need to choreograph content from multiple repositories and applications, both on premises and in the cloud
- Greater challenges of application governance, distribution, and version management
- AppStore Terms of Service present challenges for managing B2C apps

### **Development is different.**

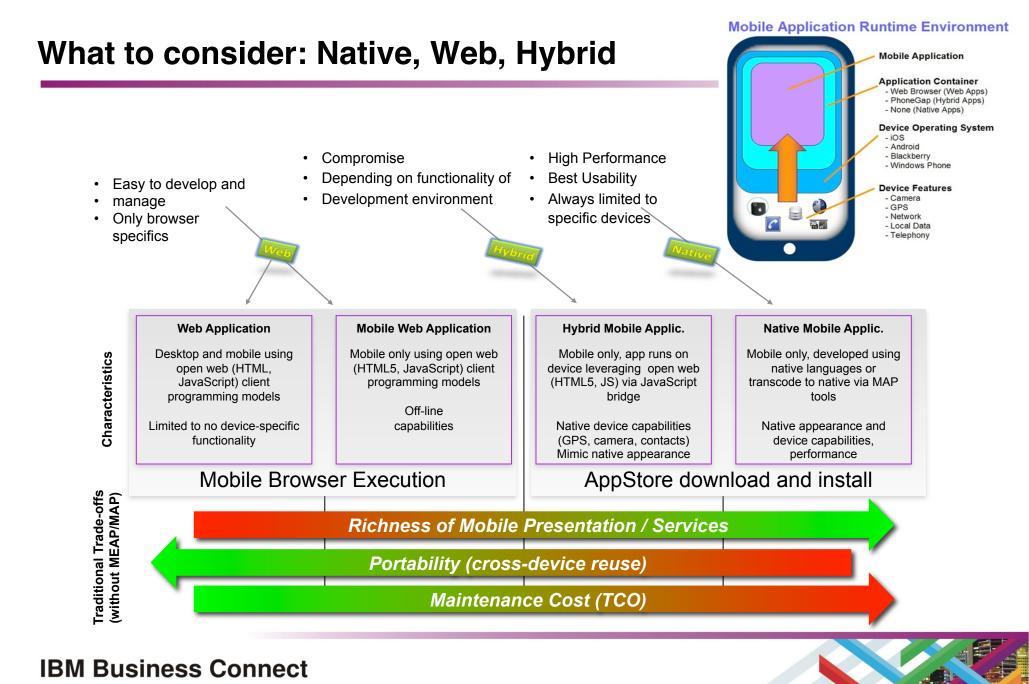
- Faster development cycles
- More devices to support, each with its own set of capabilities, OS and UI behaviors
- **More development approaches** to choose from Web, HTML, Native
- More third-party and open-source tools, frameworks and libraries to choose from

### Security is different.

- **Greater risks** of exposing applications and data on small, light and always on portable devices
- Greater authentication challenges associated with content mashups
- AppStore Terms of Service can limit security options



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### Mobile app development imperatives and challenges

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How do I develop & deliver across platforms?

- Secure code and reuse across platforms
  - Management needs for B2C / B2B / B2E
  - Analytics & continuous improvement
  - Address multi-channel and multi-tier
    - Rapid Prototyping

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Mobile Lifecycle Management & Testing

How do I test and manage the lifecycle of the app?

- Access to device inventory
- Test automation & planning
  - Lifecycle management
    - Team collaboration
- Fit within existing enterprise development process

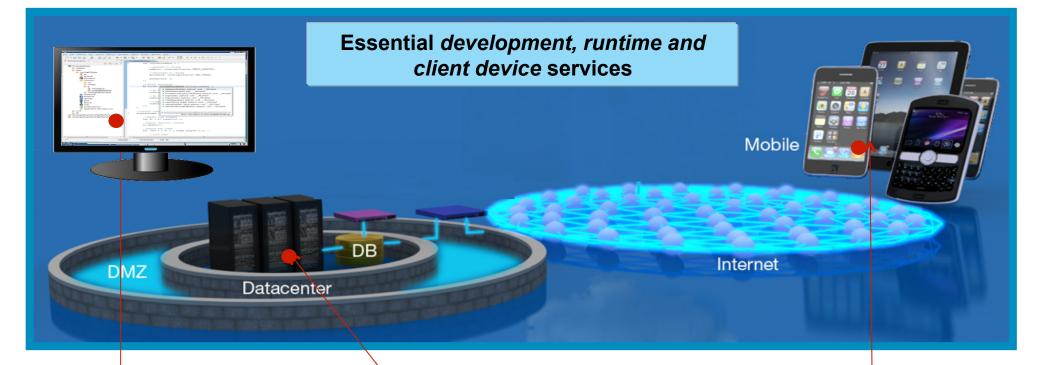
Data Access & Integration

How do I integrate into existing systems?

- Short project cycles & integration effort
- Different data usage patterns for mobile
- Content delivered in context
- Driving engagement (push) across multi-tier systems

### **IBM Worklight Mobile Application Platform Overview**

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**Open standards-based development framework** optimized for code re-use across device platforms. Mobile application server provides mobile-specific administrative, notifications, analytics and security services while leveraging existing investments in data, applications and infrastructure Client device layer enables client-side security, enforces app upgrades, secures local storage and allows access to device features.

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### Multi-platform development with a shared codebase



#### 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



**IBM Worklight** 

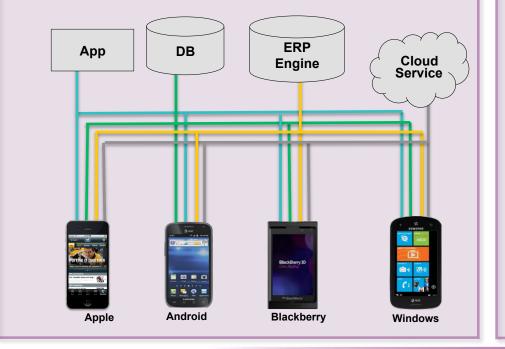
### **IBM Business Connect**

### **Controlled back-end integration**



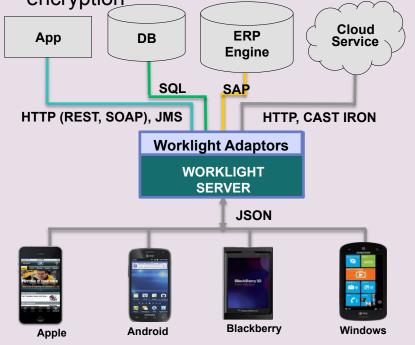
#### From multiple point-to-point integrations

- 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



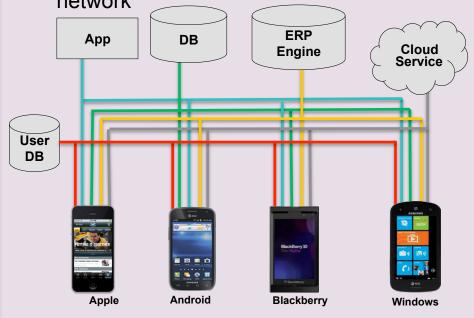
### **IBM Business Connect**

### **Cross-Plattform End-to-End Security**



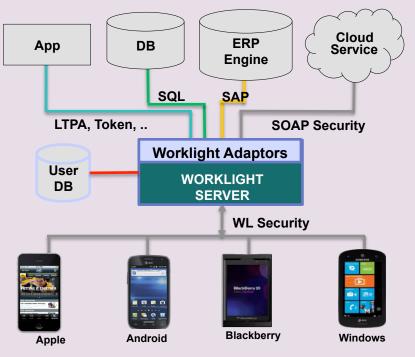
#### From multiple security implementations

- Multiple sets security implementations within the app
- Mobile app must implement Serverfocused Security
- Multiple access-points into corporate • network



#### To streamlined, integrated security

- Mobile App has single security
- Single access point into corporate network
- Encrypted local datastore •



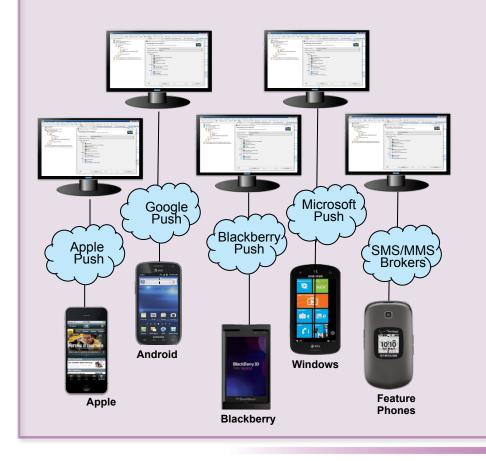
#### **IBM Business Connect**

### **Centralized push notifications**



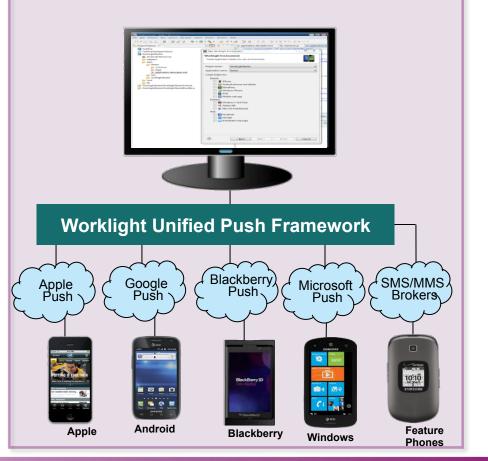
#### From the complexity of many...

• Multiple sets of push services to manage



### To the simplicity of one...

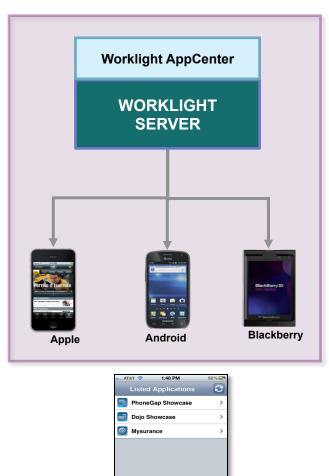
• Unified push management

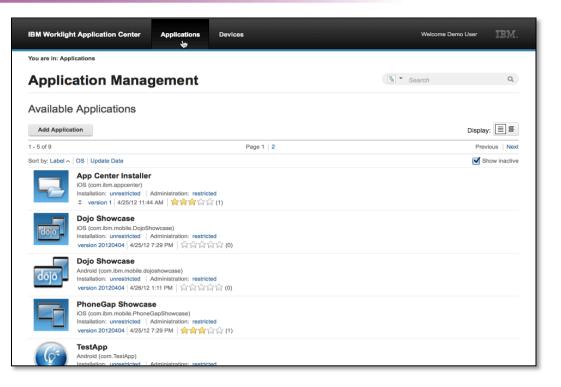


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### One App Store for all of your devices







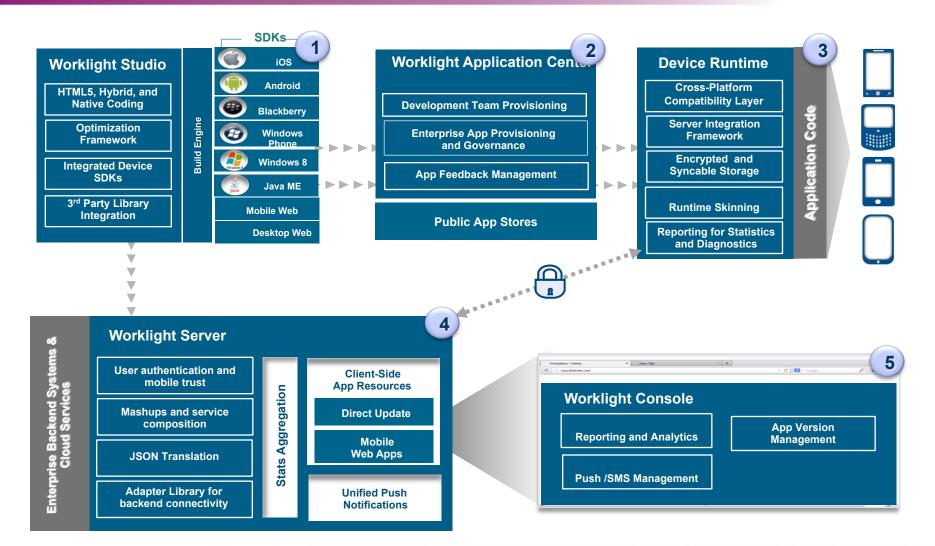
- Efficient deployment of development artifacts to stakeholders for test and feed-back
- Easier employees enablement for up to date mobile apps access
- Advanced control via ACL and LDAP support





### **IBM Worklight Components overview**

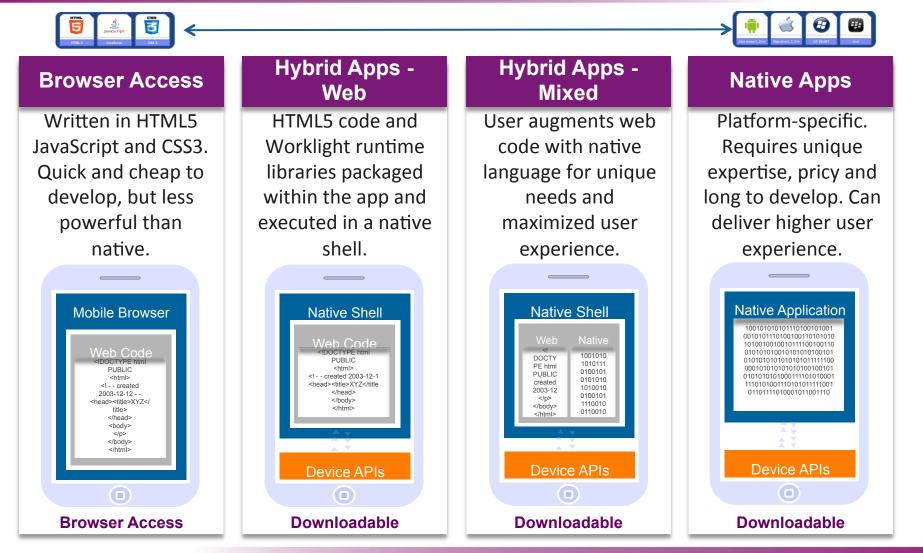




#### **IBM Business Connect**

### Supports multiple application development models

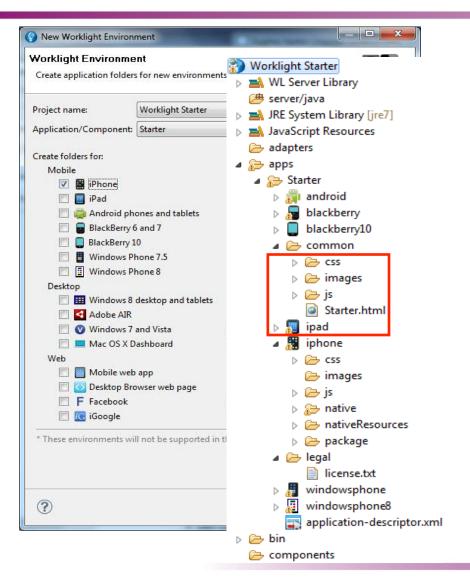




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### **Common web codebase facilitates reuse**



Common code up to 80%+

MobileOS specific and optimization code maintained in branches

JavaScript from an environment folder is <u>appended</u> to the same file in the common folder

**CSS** files from an environment folder will be <u>appended</u> to the CSS files in the common folder

HTML files from an environment folder will <u>override</u> files in the common folder

**images** from an environment folder will <u>override</u> files in the common folder

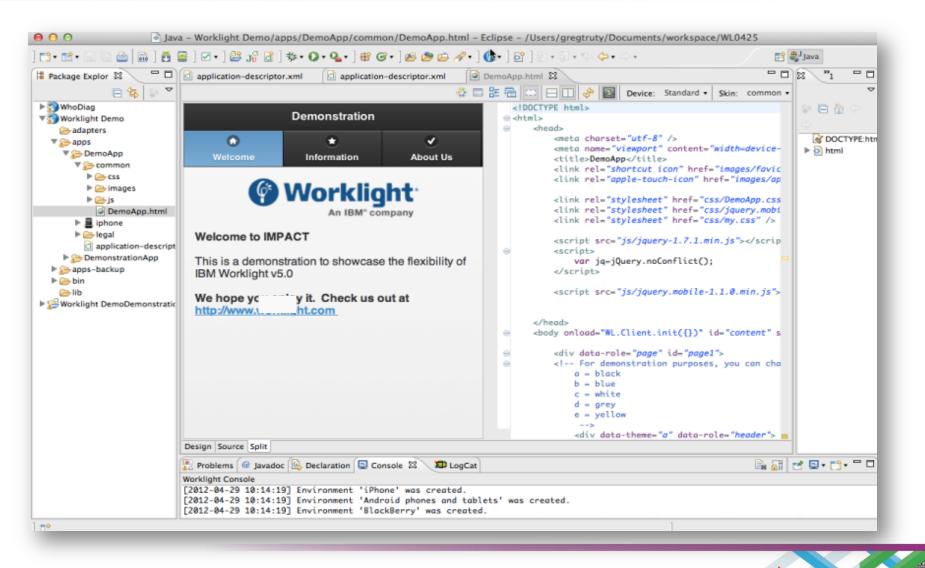
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### **Code Editing and live feed-back**





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### Compatibility with leading HTML5 libraries.



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## Studio – WYSIWYG UI Construction (HTML, JQuery or Dojo)

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#### Worklight projects. Project Explorer 🛪 dojolib ▶ DKEBankMobile JKEBankMobileJKEMobileAndroid V iOueryMobileTest1 **Optimized layout** for hybrid WL Server Library JRE System Library [Java SE 6 (MacOS) app development JavaScript Resources Settings Adapters 🔻 🚌 apps 🔻 🍋 App1 android blackbern

Rich page editor: dragand-drop, palette of components, properties view, beautified outline, and raw editable source code

Eclipse perspective for

Changes to code automatically apparent in rich page editor, and vice-versa, for quick development



### **IBM Business Connect**



### **Rich mobile simulator for hybrid applications**



◄ ► + Solution + S	Simulator/index.html?webpage=http://localhost:8080/apps/services/preview/dojo/iphone/1.0/d $\circ$ Q	• Google
Mobile Browser Simulator he Mobile Browser Simulator displays mobile web pages in a	variety of mobile browser sizes and shapes.	
Nebpage: http://localhost:8080/apps/services/preview/dojo/	ohone/1.0/default/dojo.t] Go   Add Device 🔻   Scale All Devices: 100% 🚽   Enable Useragent Switc	ching 🔽 Cordova
Cordova	Apple iPhone 3GS  Apple iPhone 4 and 4s	Potate 🛛
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Accelerometer		
Battery	IBM Innov	ate >
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330       30       60         300       60       90         90       120       90         210       150       120         Next       Start         • Contacts         • File         • Geolocation         • Network		

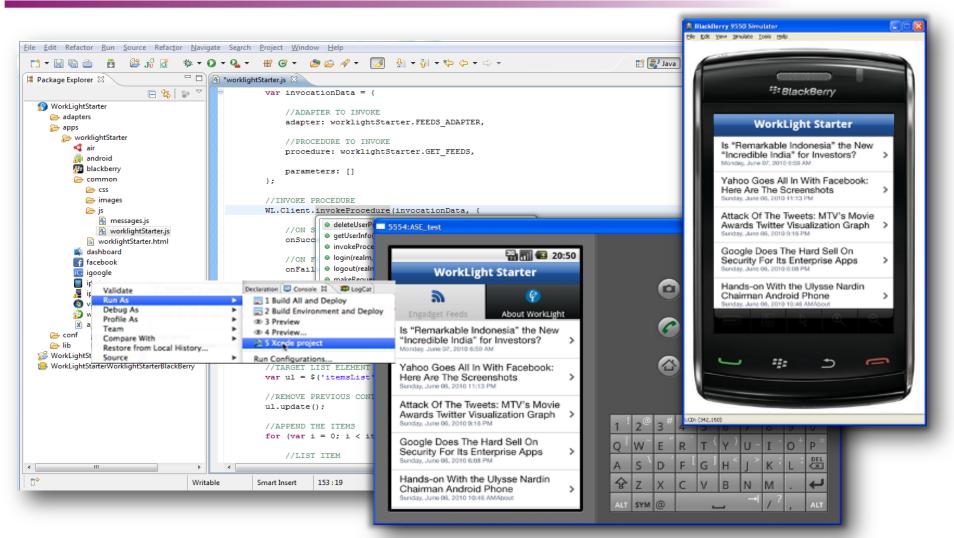
- Device specific tests early during development.
- Change device types, orientation, device settings (GPS, accelerometer, etc...)
- Supports Cordova and Worklight client API

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### **Incorporated Device SDKs**

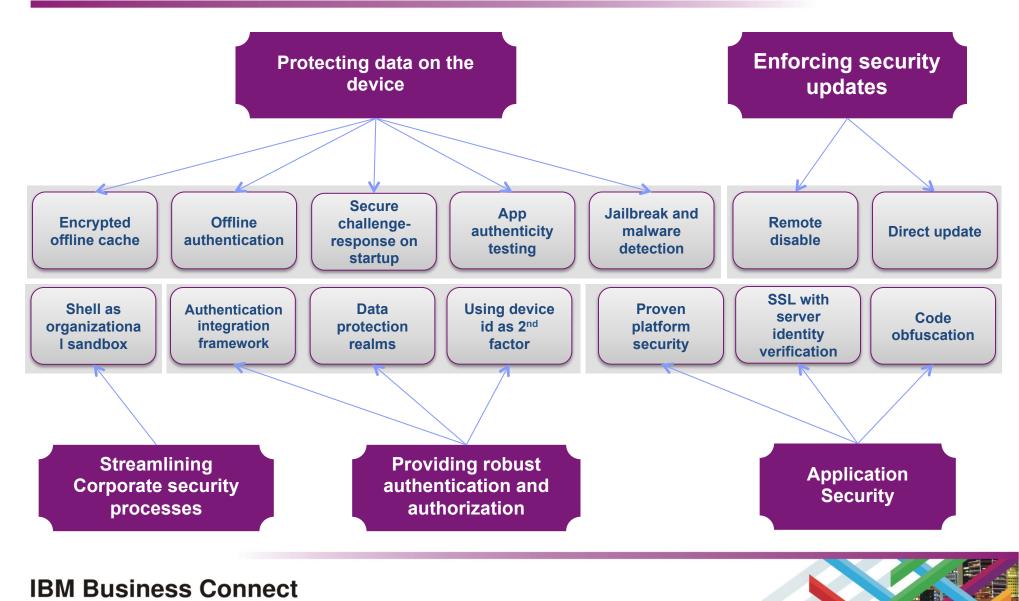




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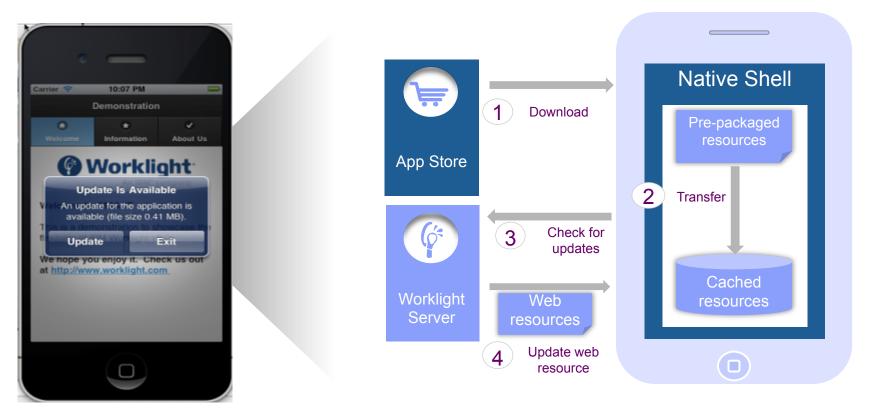






### **Direct Update On-device Logic**





- 1. Web resources packaged with app to ensure initial offline availability
- 2. Web resources transferred to app's cache storage
- 3. App checks for updates on startup and foreground events
- 4. Updated web resources downloaded when necessary, with user confirmation or silently

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### **Integrated Mobile Functional Testing**

# Comprehensive, complete, resilient functional testing

- Android and iOS, native and hybrid
- Record, edit, and run on mobile devices
- Same test runs across multiple devices in the platform family
- Natural language scripts can be used by developers and non-developers alike

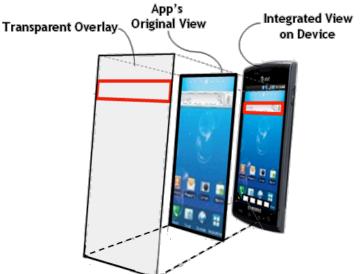
Streamlined, four-step process

- 1. Record
- 2. Author
- 3. Playback
- 4. Report

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Improve quality and time-tovalue with consistent high quality across your mobile application portfolio







### Transform business processes with geo-location services

Geo-location info has important potential for consumer and employee-facing applications

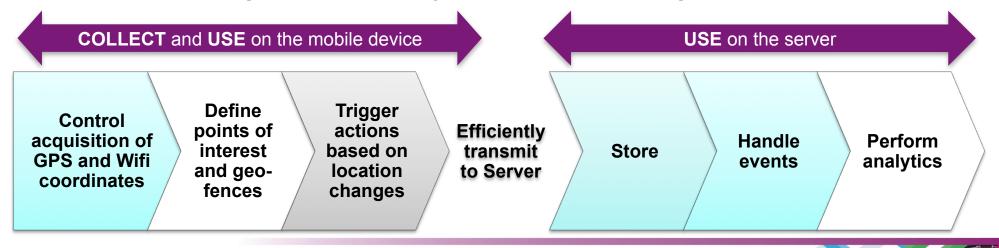
- Creating differentiating services based on user location
- Optimizing business processes and operations
- Increasing application security

But holds challenges

- What to collect and how?
- How to use what's collected?



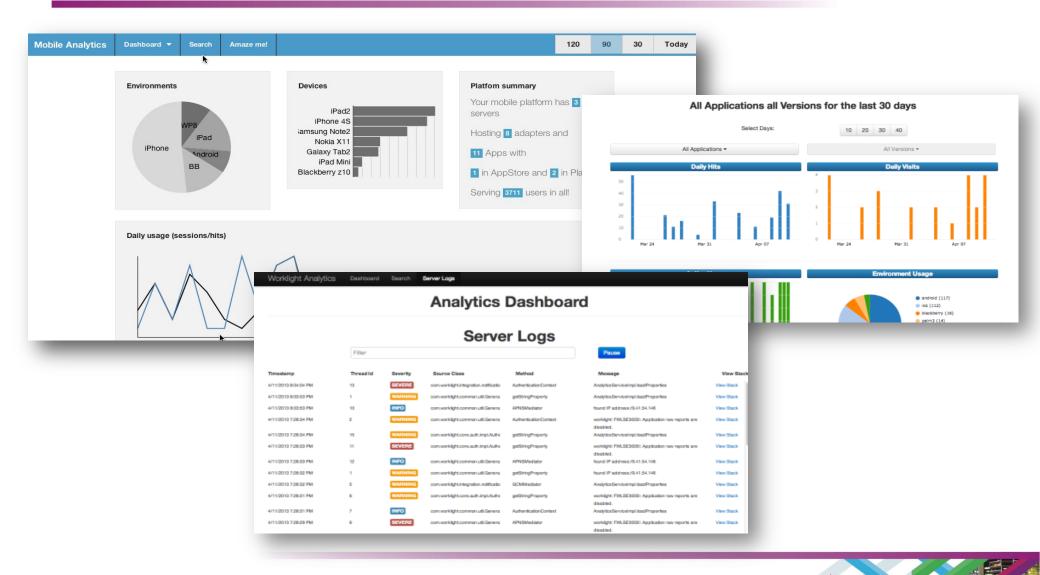
#### Worklight 6.0 provides you simple and strong tools to:



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### **Mobile Analytics Dashboards**





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### **IBM Tealeaf CX Mobile**

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### Visibility into the customer mobile experience to improve conversions and grow revenue

- Automatically detect customer struggles, obstacles or issues
- Drill down into **actual user behavior**, complete with gestures
- Translate customer feedback into actionable improvements
- Correlate customer behavior with network and application data





Tablet

What's new in IBM Tealeaf CX Mobile V8.7

Analyze mobile user behaviors – <u>automatically instrumented in IBM Worklight mobile apps</u>

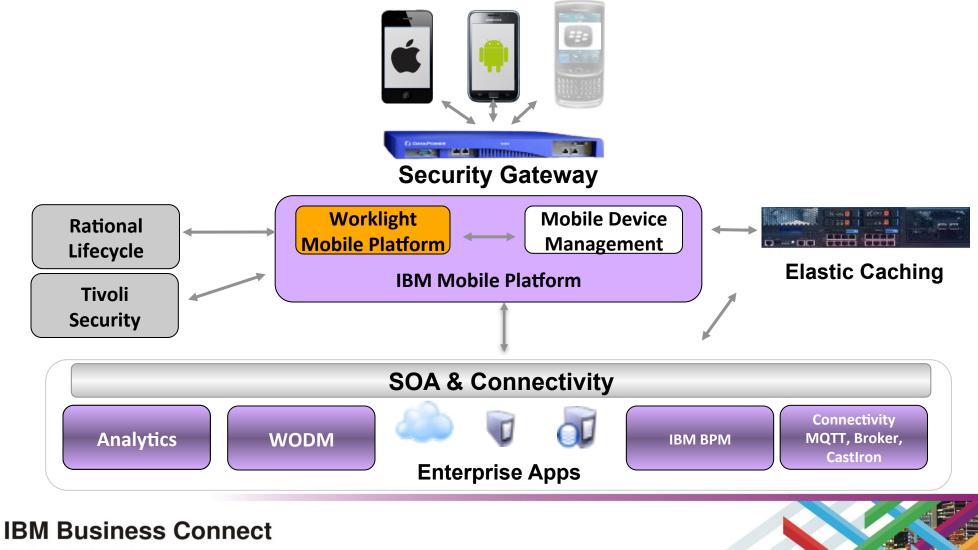
- Capture and high-fidelity replay of mobile gestures on iOS and Android-based devices
- ✓ Add-on Heatmap, Link Analytics, Form Analytics, and Attention Map analytics for mobile-web applications

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### **The IBM Mobile Platform**

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(i.e., what you need to build and effectively incorporate mobile apps with your business)



### Some Key IBM Worklight Customers by Vertical

IBM.



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#### **Product Catalog and Order Tablet Application for Sales Personnel**

- 60% development cost saved by using Worklight across 5 platforms
- Ist app built by 1 Developer in 12 Weeks, including customized authentication, MDM integration, SAP connectivity, offline access, mobile-triggered server emailing, JQuery UI library, Cordova plug-in





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#### **Multiple Apps for Employees**

- First Beta in less than a month
- Multi-geo user base
- Extended to notebook users

#### **Rapid Demo App Development**

- Access to CRM, SAP ERP, Lotus Notes
- Showcases for business
- Training for developers

### A Set of Standardized Components

- Document access and viewer
- Authentication
- Data access interface (adapter)
- Customized mobile design palette

### Mobile ROI – 60% Overall Cost Savings

- 30% savings in app development
- 80% savings in interfacing with backend systems
- 90% savings in content maintenance
- 50% savings in technical maintenance

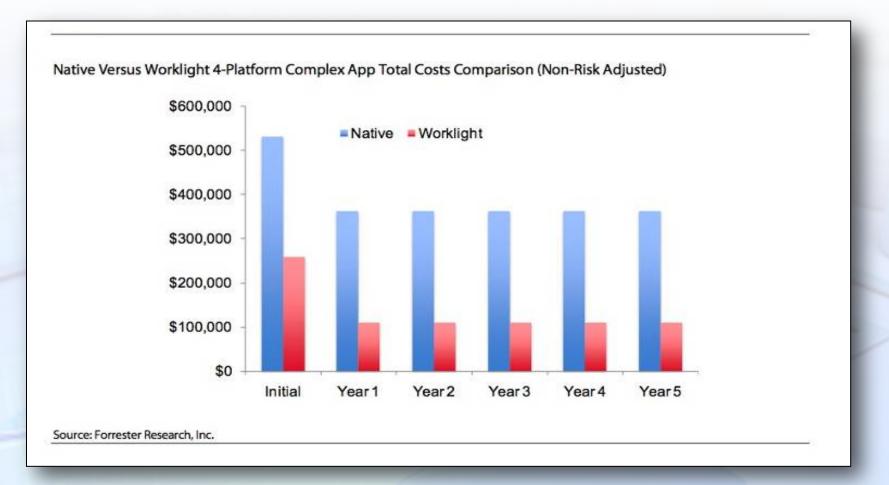




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### Forrester: Five-Year Risk-Adjusted ROI of Worklight is 363%!



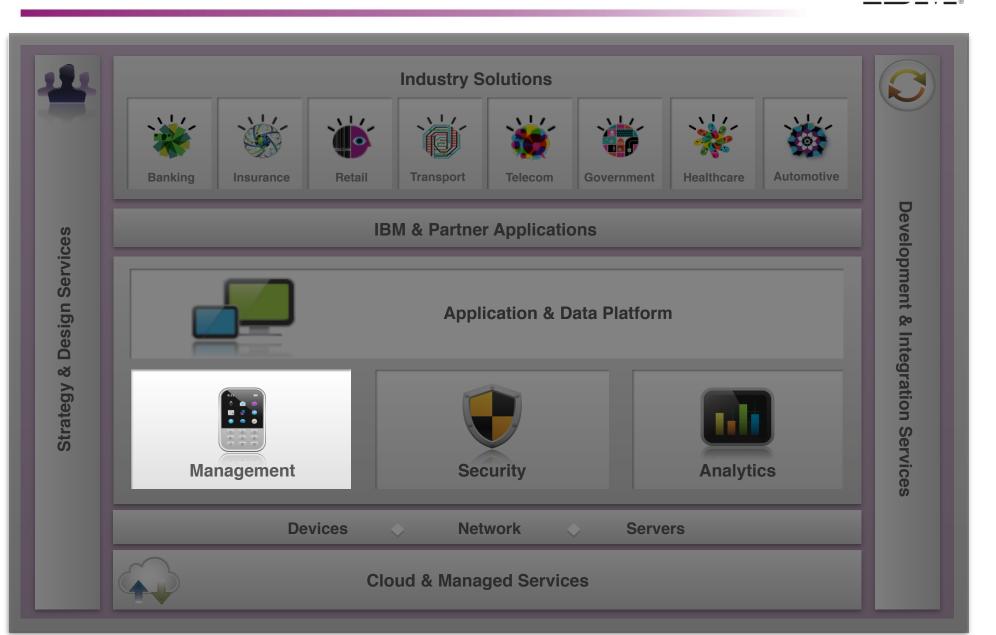


#### Study available at **ibm**.com/mobilefirst/worklight-forrester

Source: "The Total Economic Impact Of IBM's Worklight Platform", a commissioned study conducted by Forrester Consulting on behalf of IBM. Published April 2013.

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## **IBM MobileFirst: Management**



## **IBM MobileFirst Management**

#### For clients who need to:

- Implement BYOD with confidence
- Manage secure sensitive data, regardless of the device
- Manage, track and optimize mobile expenses
- Handle multi-platform complexities with ease



#### Key offerings:

- IBM Endpoint Manager for Mobile Devices
- IBM Emptoris Rivermine Telecom Expense Management
- IBM Mobile Enterprise Services for managed mobility

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#### IBM MobileFirst Management offers:

- ✓ Unified management across devices
- ✓ Selective wipe of corporate data
- Configuration & enforcement of password policies, encryption, VPN access & camera use
- Streamlined workflow between development & operations with an integrated Enterprise App Store
- ✓ Optimize telecom expenses with detailed usage analyses
- End-user portal for management of mobile equipment, carrier plans, and usage tracking
- ✓ On-premises or managed service delivery



## Secure Sensitive Data, Regardless of the Device

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# How do I ensure the security of mobile devices as they access more and more sensitive systems?

- Unified compliance reporting across all devices, including CIS Benchmarks
- Configure security settings such as password policy, encryption, WiFi, iCloud sync
- Full wipe, remote lock, map device location, and clear passcode options if device is lost or stolen
- Blacklist apps and automate alerts, policy response
- Detect jailbroken / rooted devices to notify users, disable access
- Integrate with mobile VPN and access management tools to ensure only compliant devices are authorized

# **12:25** Thursday, February 9 **Mobile Client** Warning: Your device is jailbroken"

Verizon 🗢

Multiple user communication and alert methods, including Google Cloud Messaging (GCM), enables users to be part of the security solution.

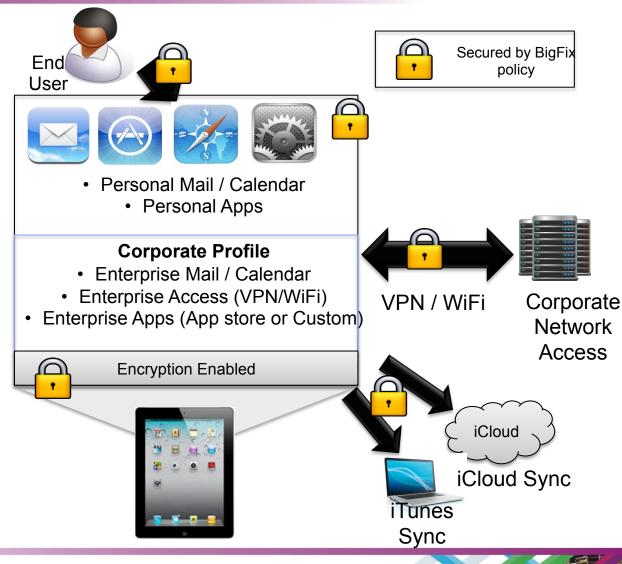
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## **Managing Mobile Devices – The Solution**



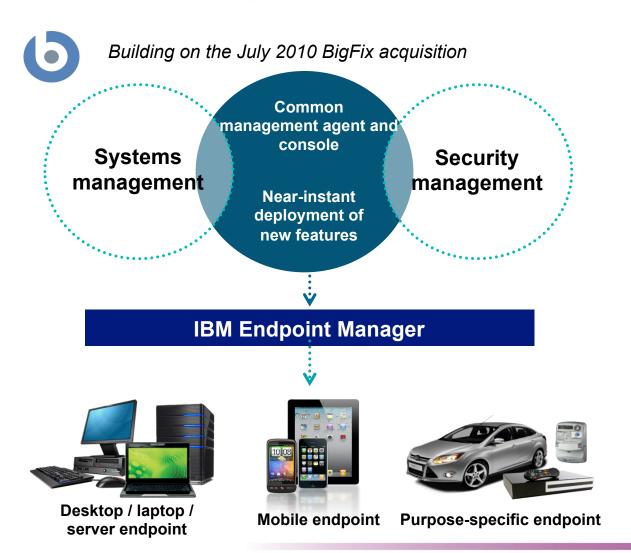
# Endpoint Manager for Mobile Devices

- Enable password policies
- Enable device encryption
- Force encrypted backup
- Disable iCloud sync
- Access to corporate email, apps, VPN, WiFi contingent on policy compliance!
- Selectively wipe corporate data if employee leaves company
- Fully wipe if lost or stolen



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## **IBM Endpoint Manager for Mobile Devices**



#### **Key Capabilities**

- Advanced management for iOS, Android, Symbian, and Windows Phone
- Unified management automatically enables VPN access based on security compliance
- Integration with back-end IT management systems such as service desk, CMDB, and SIEM
- Security threat detection and automated remediation
- Extends IBM's existing 500,000 endpoint deployment



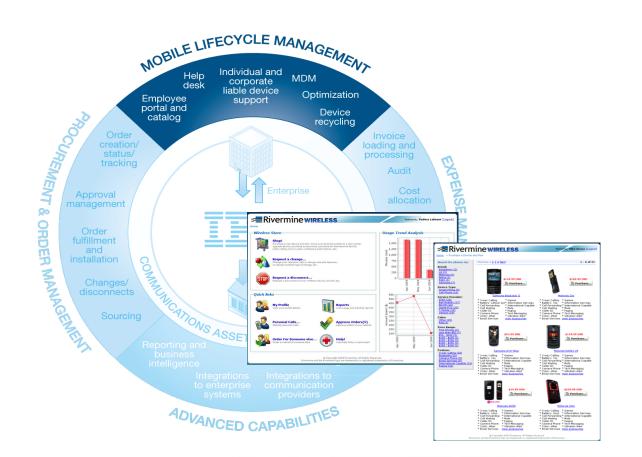




## Manage, track and optimize cost and enforce policies



# *IBM Emptoris Rivermine Telecom Expense Management - Mobile Device and Expense Management*



#### **Key Capabilities**

- End-User Portal & Reporting streamlines mobile usage management
- Dedicated End-User Mobile Help Desk resolves mobile issues efficiently
- MDM accelerates device issue resolution and corporate mobile policy enforcement
- Individual & Corporate Liable Device Support for centralized corporate mobile management
- Rate Plan Optimization & Auditing
- Invoice Processing
- Mobile Policy Development
- Personal vs. Business Call Tagging

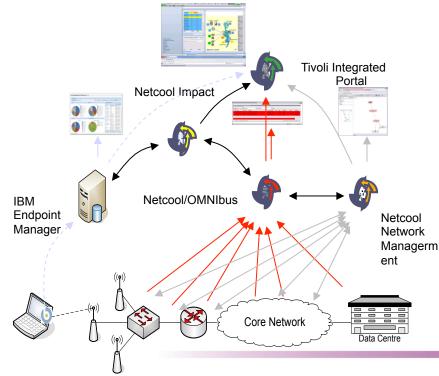
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## Manage enterprise wireless networks



#### IBM Netcool/OMNIbus & Netcool Network Management

The Future of Business Rides on the Network: Operations management software that enables around-the-clock visibility, control and automation of network management tasks for optimal performance of your network resources (both physical and virtual).



#### **Client Challenge**

Show in **REAL TIME** an enterprise wide view of the mobile workforce connecting through public and private networks.

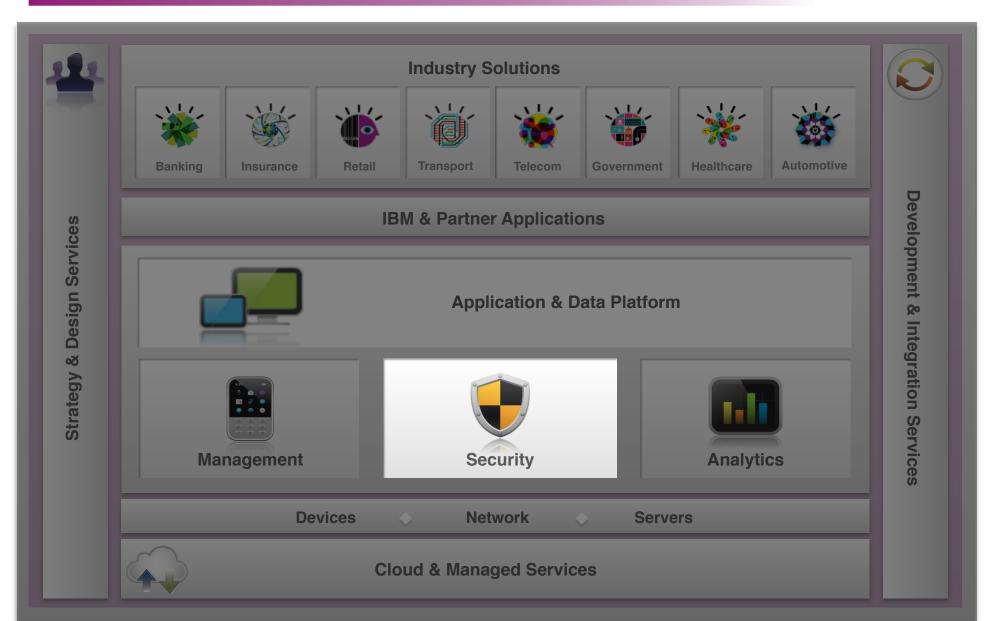
#### **Key Capabilities**

- Easily identify the impact of any outages and highlight ongoing issues resulting from a lack of capacity or poor radio signals:
- View current locations and connection points of mobile devices
- Gain visibility, control and automation of the network and service quality experienced by mobile users

## **IBM Business Connect**

## **IBM MobileFirst: Security**





## **IBM MobileFirst Security**

#### For clients who need to:

- Protect devices and data
- Defend the network
- Ensure secure access

- Safeguard mobile apps
- Preserve user experience without compromising security

## **IBM MobileFirst Security offers:**

- ✓ Context aware risk based access control
- ✓ Mobile threat protection
- ✓ Strong session management & Single Sign–on
- $\checkmark$  Vulnerability analysis for mobile apps
- $\checkmark$  Visibility and analysis of security events from the device, network, user end app behavior

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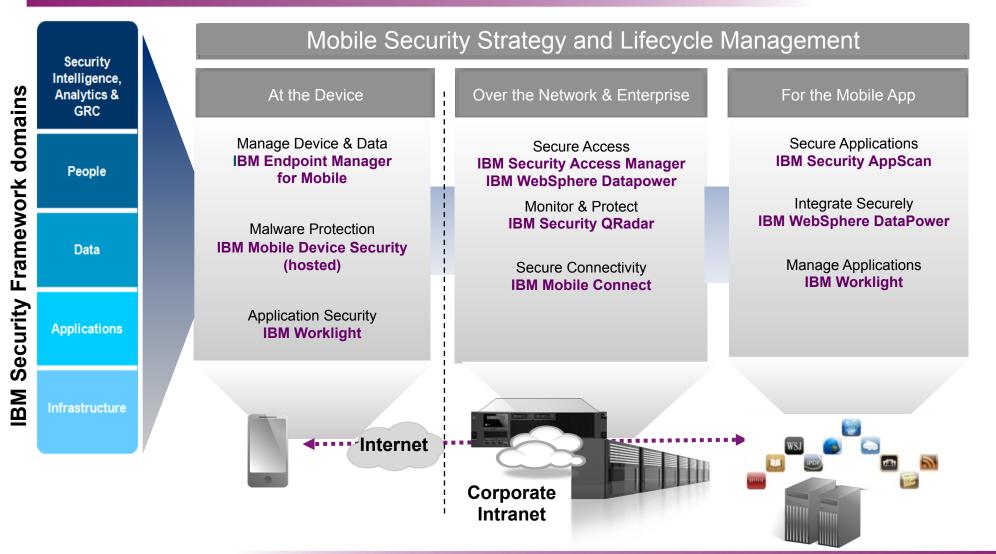
## **Key offerings:**

- **IBM Security Access** Manager for Cloud and Mobile
- IBM Security Appscan



## **IBM MobileFirst offerings to secure the enterprise**





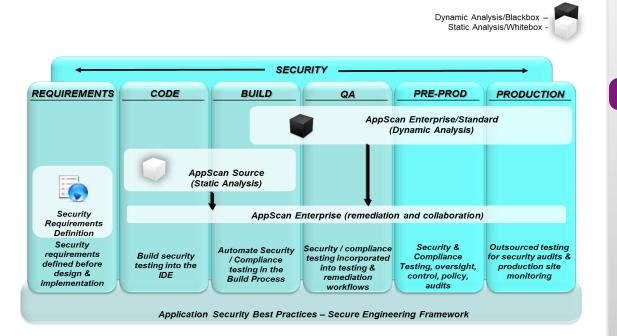
#### **IBM Business Connect**

## **IBM Mobile Application Security**



#### IBM Security AppScan

App security testing and risk management



- Test Native application
- Test Web-based application

#### **Client Challenge**

Applying patches and resolving application vulnerabilities after apps are Delivered and Deployed is a very costly and time consuming exercise

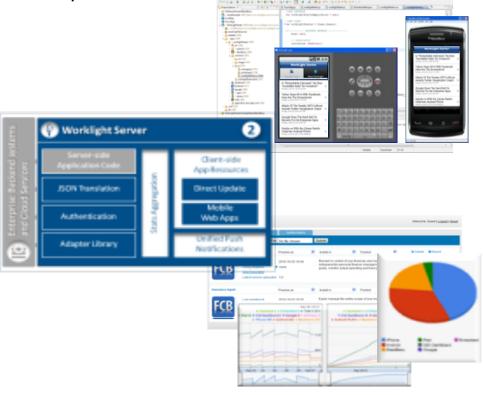
#### **Key Capabilities**

- Leverage AppScan for vulnerability testing of mobile web apps and web elements (JavaScript) of hybrid mobile apps
- Vulnerabilities and coding errors can be addressed in software development and testing
- Code vulnerable to known threat models can be identified in testing
- Security designed in vs. bolted on

#### **IBM Business Connect**

#### **IBM Worklight**

Develop, deliver and deploy security-rich mobile apps to streamline business activities while also delivering a rich user experience



#### **Client Challenge**

Efficiently and securely, create and run HTML5, hybrid and native mobile apps for a broad set of mobile devices

#### **Key Capabilities**

- Integrated secure access to backend application resources
- Secured by design develop secure mobile apps with best practices, code obfuscation
- Protect mobile app data with encrypted local storage for data, offline user access, app authenticity validation, and policy enforcement
- Maximize mobile app performance with analytics, remote disabling of apps

#### **IBM Business Connect**

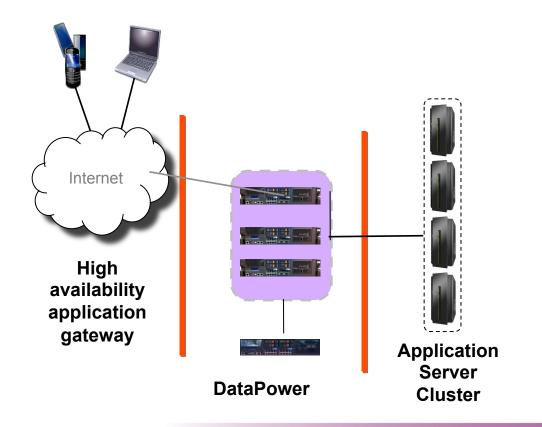


## Load Balancing, Protection At The Gateway



#### IBM DataPower Appliance

Delivers optimized and secure mobile app experience



#### **Client Challenge**

Mobile applications place new availability and security demands on application resources.

#### **Key Capabilities**

- Satisfy complex routing & scaling requirements
- Message protection / validation and XML firewall
- Supports open standards applicable to mobile ex. OAuth
- App authentication and authorization
- Synergy with IBM Security Access Manager to deliver context aware user access security

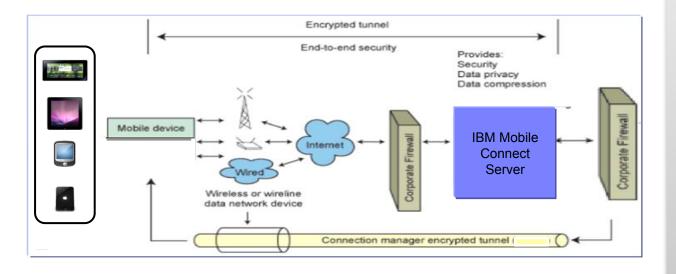
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## **Security-rich Mobile Connectivity**



#### **IBM Mobile Connect**

Provides features that help deliver a security-rich connection to enterprise resources from mobile devices.



#### **Client Challenge**

Need to protect enterprise data in transit from mobile devices to backend systems

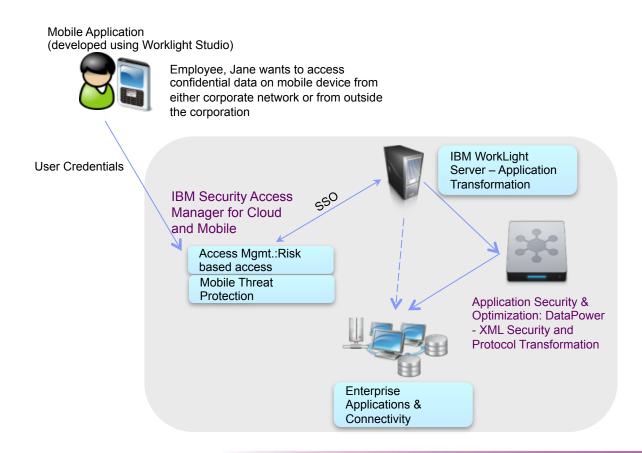
#### **Key Capabilities**

- Clientless app-level Virtual Public Network (VPN) with a SSLsecured tunnel to specific HTTP application servers.
- Application-specific VPN access (clientless, reverse-proxy-like access)
- Strong authentication and encryption of data in transit

#### **IBM Business Connect**



## *IBM Security Access Manager for Cloud and Mobile*



#### **Key Capabilities**

Increase accuracy of identifying mobile access security risks

- Dynamically assess the security risk of an access request
- Quickly enforce Risk-Based Access
- Ensuring users and devices are authenticated and authorized
- Flexibility and strength in authentication: user id/ password, OTP, biometrics, certificate, custom
- Protect applications from known security threats by analyzing HTTP traffic

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## **Deliver An Adaptive Security Posture**

## IBN.

#### IBM Security QRadar

Deliver mobile security intelligence by monitoring data collected from other mobile security solutions – visibility, reporting and threat detection



#### **Client Challenge**

Visibility of security events across the enterprise, to stay ahead of the threat, show compliance and reduce enterprise risk

#### **Key Capabilities**

Integrated intelligent actionable platform for:

- Searching
- Filtering
- Rule writing
- Reporting functions

A single user interface for:

- Log management
- Risk modeling
- Vulnerability prioritization
- Incident detection
- Impact analysis tasks



#### **IBM Business Connect**

## **Mobile Endpoint and Data Protection**



#### IBM Hosted Mobile Device Security Management

Turn-key security for employee-owned and corporate-liable mobile devices



#### **Client Challenge**

Mobile threat protection without inhouse skills or technology to own or manage

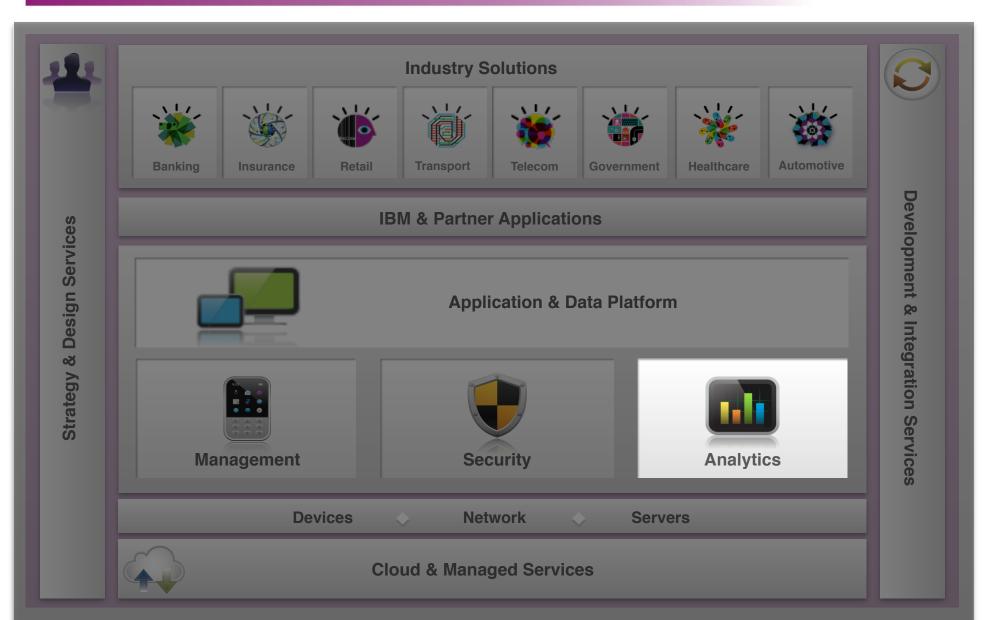
#### **Key Capabilities**

- Mobile malware prevention (spyware, viruses, etc.)
- Simple, cloud-based delivery
- Policy compliance monitoring
- Device management and security for Apple, Android, BlackBerry, Windows Mobile, and Symbian devices
- End-user portal to locate/lock/ wipe a lost or stolen device

#### **IBM Business Connect**

## **IBM MobileFirst: Analytics**





## **IBM MobileFirst Analytics**

#### For clients who need to:

- Optimize digital & mobile experiences to drive online conversion
- Analyze mobile behaviors and quantify business impact of user struggles
- Improve customer service resolution and drive loyalty



## Key offerings:

 IBM Tealeaf CX Mobile

#### **IBM MobileFirst Analytics offers:**

- Automatic detection of customer issues through user and mobile device data
- ✓ User behavior drill down with high fidelity replay & reporting of the user experience
- Correlated customer behavior with network and application data
- High conversion and retention rates with quantifiable business impact analysis

#### **IBM Business Connect**

## **Tealeaf CX Mobile**



Visibility into the customer mobile experience to improve conversions and grow revenue

Industry-leading customer experience management solutions to mobile websites, native applications, and hybrid apps including support for HTML5.

- Capture and high-fidelity replay of mobile gestures\* for mobile web sessions on iOS and Android-based devices help optimize users' experiences on mobile web applications.
- Analyze mobile user behaviors and quantify business impact of user struggles with IBM Tealeaf integrated solutions
- Add-on Heatmap, Link Analytics, Form Analytics, and Attention Map analytics for mobile-web applications

\* Mobile gestures such as zoom in/out, pinch in/out, scroll left/right and orientation change \*\* Requires Tealeaf cxOverstat add-on

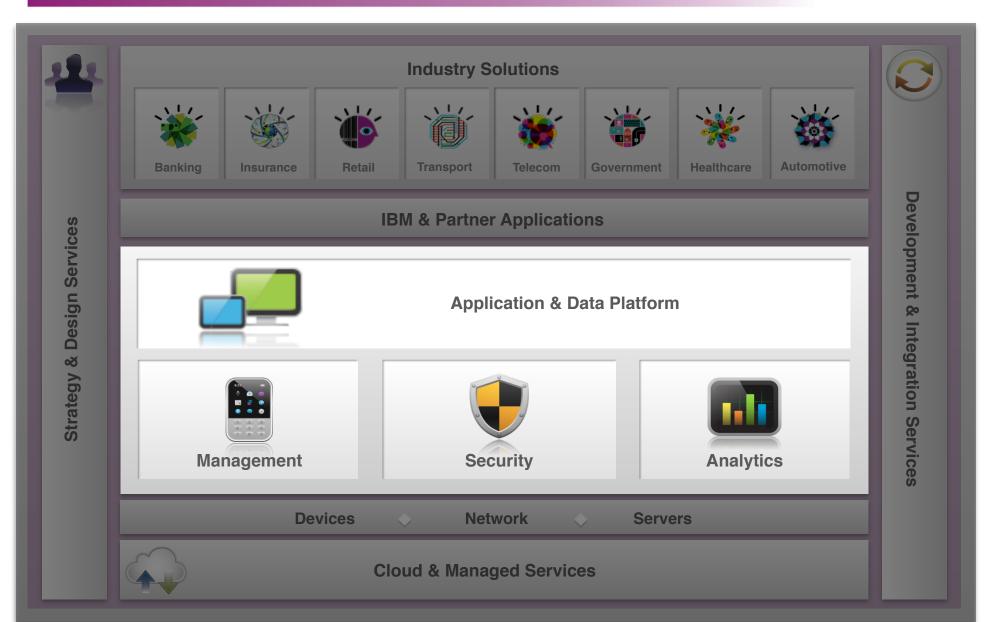
## **IBM Business Connect**





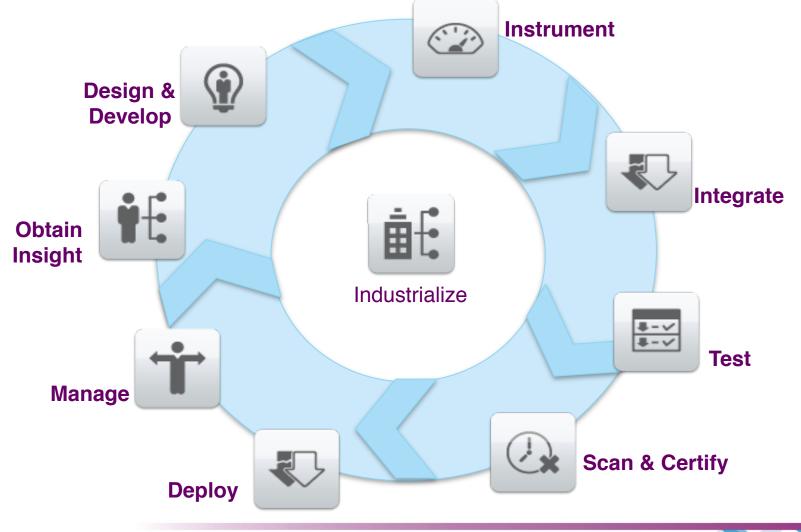
## **IBM MobileFirst: Development Lifecycle**





## The IBM Mobile Enterprise Development Lifecycle

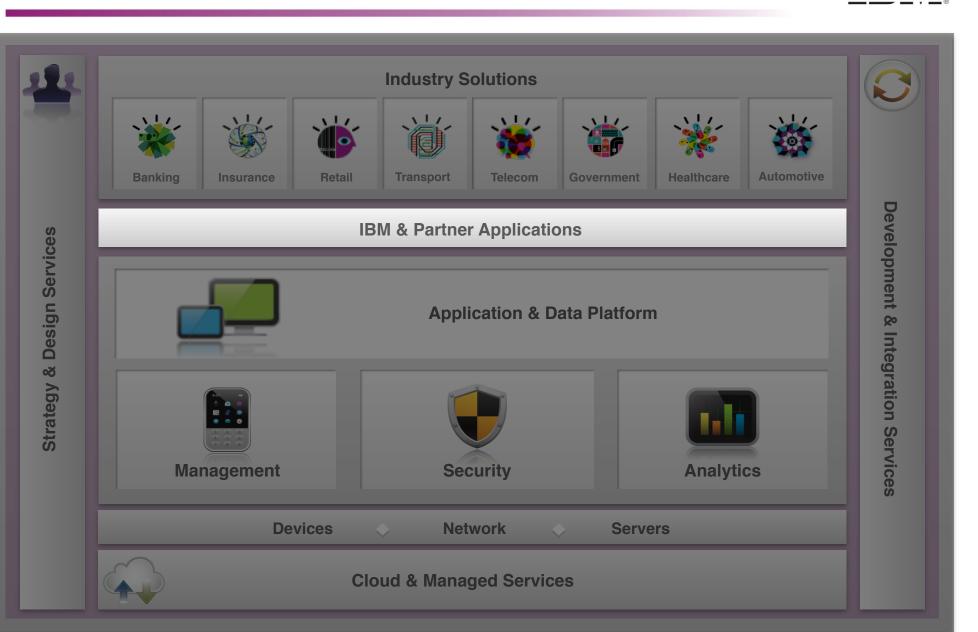




#### **IBM Business Connect**



## **IBM MobileFirst: Mobile Apps**





#### IBM mobile solutions for social business

A comprehensive portfolio of mobile solutions for social business and web experiences.



#### **Client Challenge**

- Activate the workforce to improve productivity and unleash innovation anywhere.
- Delight customers—wherever they engage to increase loyalty, advocacy and revenue.

#### **Key Capabilities**

- Mobile solutions for social business:
  - Push email, calendar, contacts, to do items
  - Social software for access to your professional network
  - Presence, IM chat and telephony
  - Online meetings
  - Business document viewer
- Development tools for multichannel web experiences and Domino mobile apps – extending the IBM MobileFirst platform
- Device-appropriate interfaces for the leading mobile devices
  - Apple<sup>®</sup>, Google Android, Research In Motion<sup>®</sup> BlackBerry<sup>®</sup>, Nokia

#### **IBM Business Connect**

Visit www.ibm.com/socialtogo



#### **IBM Cognos Mobile**

A rich client for mobile employees to view and fully interact with Cognos business intelligence reports, dashboards, metrics, analysis and other information in a security-rich environment.



#### **Client Challenge**

Providing quick, easy access to analytics to workforce wherever they are to enable uninterrupted productivity

#### **Key Capabilities**

- Rich, visual and interactive experience for quick, easy access to analytics where people work.
- Location- aware reports containing pre-filtered information
- Single authoring and administrative environment to deliver secure, relevant, and reusable content
- Confidently and easily deployed Cognos Business Intelligence on industry leading form factors

## **IBM Business Connect**





## Embrace mobile across buy, market, sell, and service



#### **IBM Smarter Commerce**

Applying mobile to enhance business performance across the commerce value chain



#### **Client Challenge**

Improve engagement with customers, employees, and partners

#### **Key Capabilities**

- Empower employees and partners with extend mobile access to critical commerce processes
- Reinvent customer interactions with mobile sales and service
- Extend marketing reach with mobile campaigns and locationbased services
- Refine the mobile customer experience with analysis of mobile usage

#### **IBM Business Connect**

**Business Without Limits** 

Visit <u>www.ibm.com/socialtogo</u>

## Take your business with you wherever you go



#### **Business Process Management**

IBM makes it possible to integrate BPM into your mobile strategy



#### **Client Challenge**

Every day you are challenged to do more, better, and faster

#### **Key Capabilities**

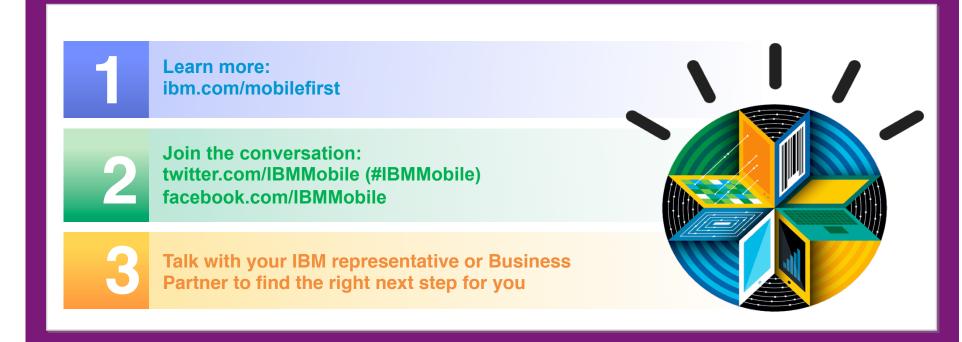
- Gives peace of mind that comes from knowing that important and time sensitive tasks will find employees wherever they might happen to be.
- Finding expertise is instant, and innovation doesn't have to wait for that mythical "down time ".
- Provides a single view that consolidates tasks from multiple IBM process sources

#### **IBM Business Connect**

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#### **IBM Business Connect**



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