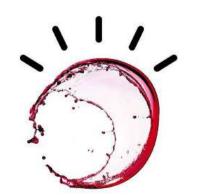




Degustare la crescita Un percorso in 4 tappe alla scoperta delle soluzioni IBM

Strategie e Soluzioni Software per il mondo Mobile





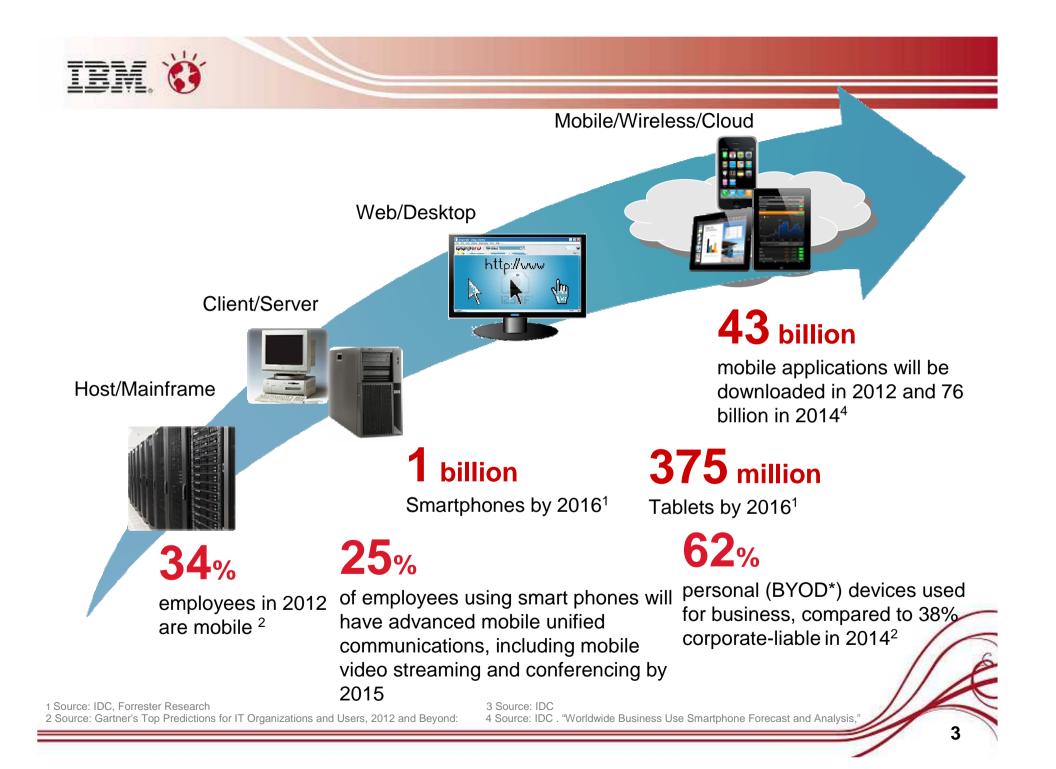


For around 30 years PCs in various forms have been people's main computing devices

Now the rise of smartphones and tablet computers threatens to erode the PC's dominance, prompting talk that a "post-PC" era is finally dawning

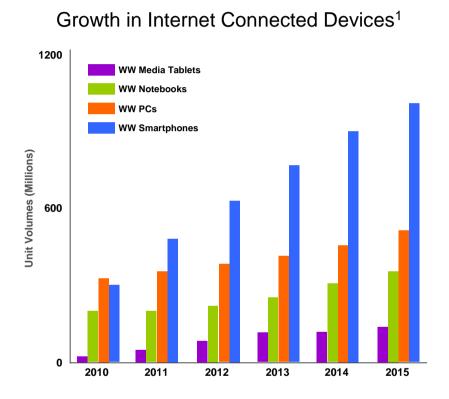
The Wintel era - dominated by PCs using Microsoft's Windows operating system and Intel's microchips - is drawing to a close

http://www.economist.com/node/21531109

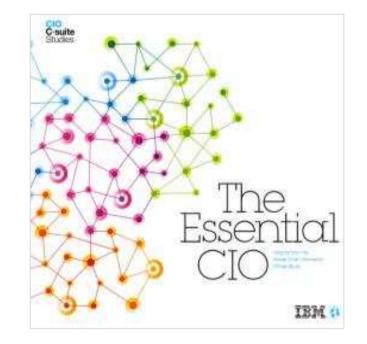




Mobile is the new enterprise priority



Mobile and Cloud: top spending priorities²



Dramatic Growth in Mobile Devices

- Mobile data traffic exceeded voice in 2010³
- Shipments of Smartphones exceeded total PC shipments for the first time in 2011⁴
- 10 Billion mobile connected devices are expected to be in use by 2020⁴

¹ Wells Fargo Securities, January 23, 2012 "Fostering the People: The Shift to Engagement Apps" ² 2011 IBM Global CIO Study
 ³ Wireless Industry News, August 26, 2010
 ⁴ 2011 Economist



An enormous set of opportunities...

Business to Enterprise



- Increase worker productivity
- Improved claims processing
- Increase revenue through sales engagements
- Extend existing applications to mobile workers and customers
- Reducing fuel, gas, or fleet maintenance costs that are relevant in particular industries
- Increase employee responsiveness and decision making speed
- Resolve internal IT issues faster
- Reduce personnel cost (utilizing personal owned instead of corporate issued 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

5



But also brings business and IT challenges

Enterprise Business Model Changes

- New business opportunities based upon geolocation
- Anytime, anywhere business transactions
- Importance of social business interactions

Development Lifecycle Complexity

- Complexity of multiple device platforms
- Connecting the enterprise back-end services
- Unique mobile requirements (UI, offline use, etc.)

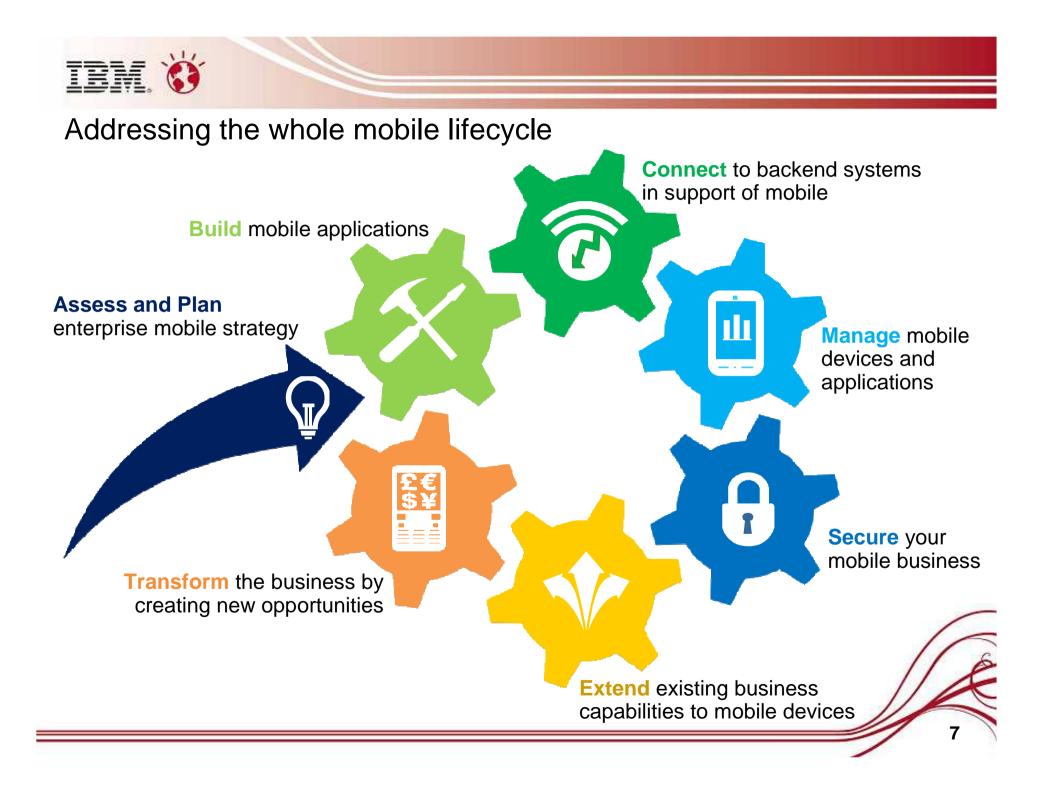
Mobile Security and Management

- Protection of privacy and confidential information
- Use of client-owned smartphones and tablets
- Visibility, Security & Management of mobile platform



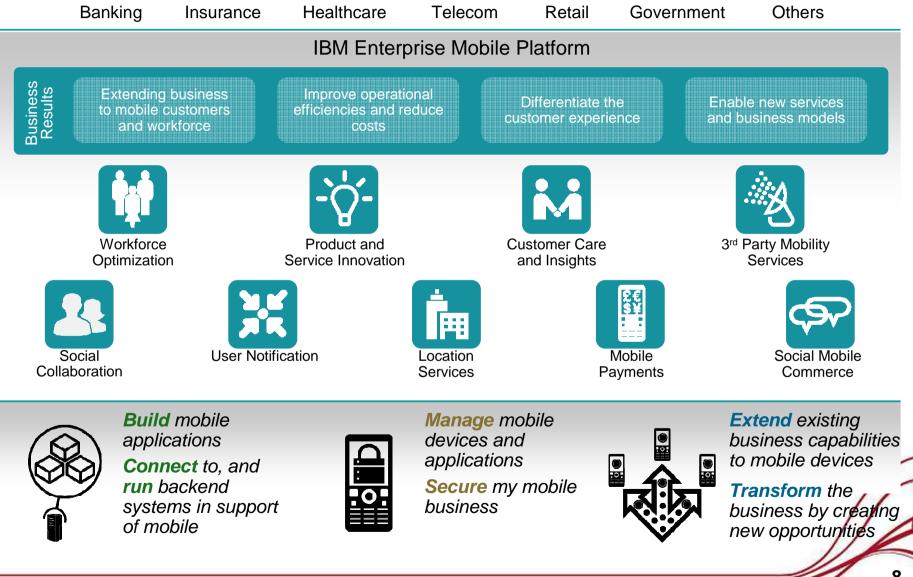
Top Mobile Adoption Concerns:

- 1. Security/privacy (53%)
- 2. Cost of developing for multiple mobile platforms (52%)
- 3. Integrating cloud services to mobile devices (51%)





IBM Enterprise Mobile Platform





Mobile client initiatives



Build mobile applications Connect to, and run backend systems in support of mobile



Manage mobile devices and applications Secure my mobile business

ING So DIRECT

Save your money® *ING Canada

News Analysis

ING Direct praises IBM's Websphere for role in its mobile banking app

COMPUTERWORLD

Key Capabilities

- Mobile web app development
- Enterprise data, service, and application integration
- Mobile Technology Preview features



Concord Hospital improved patch compliance 50%, reduced software license costs 25%, and has not had a single malware infection since implementation of IBM Endpoint Manager for patch management and core protection

Key Capabilities

- Mobile Lifecycle Management
- Device analytics and control
- Secure Network Communications
 & Management



Extend existing business capabilities to mobile devices

Transform the business by creating new opportunities



The Wimbledon App transforms the fan experience at the tournament by combining GPS location data with analytics and live-action feeds of all the tennis action

Key Capabilities

- Strategy and planning services
- Mobile-enabled solutions including analytics, commerce, and social business
- Implementation and hosting services







IBM mobile enterprise apps

- A comprehensive suite of mobile solutions
- Device appropriate interfaces for the leading mobile devices – smartphones and tablets
 - ≻ iOS
 - > Android
 - BlackBerry OS
 - > Windows Mobile
- Supported by enterprise governance and security capabilities





IBM mobile enterprise apps

Business Intelligence & Analytics



Coremetrics for Mobile



IBM Cognos Mobile

Social Business & Collaboration



IBM Lotus Notes Traveler (email, calendar, contacts)

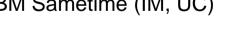


IBM Connections (social)













IBM Symphony (doc viewer)

Business Process Management



IBM BPM for Mobile



Commerce



IBM Sterling Integrator Mobile



IBM Sterling Store Associate Mobile



IBM Sterling TMS Carrier Mobile



IBM Sterling Field Sales Mobile



IBM Sterling Order Management



IBM Sterling Control Center Mobile

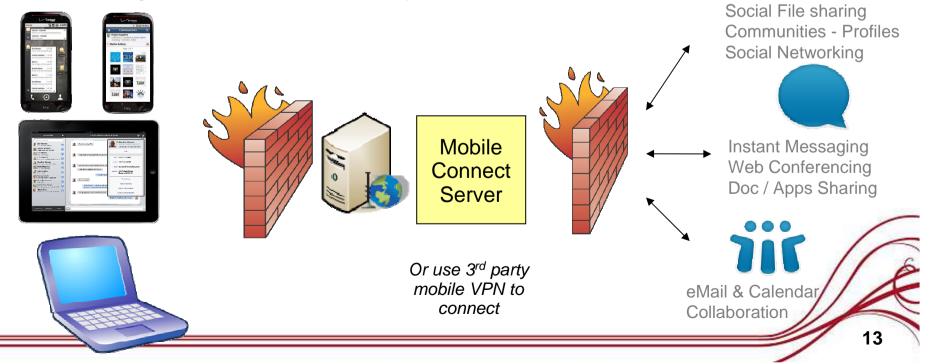




Secure email & social collaboration

- Mobile security software for enterprise application connectivity
- Clientless HTTP single sign-on services via a SSL secured tunnel for communication to specific HTTP application servers
 - > No need to open general VPN access to all intranet servers
- Supports iOS, Android, Symbian, PC's and other mobile devices
- Strong authentication and encryption





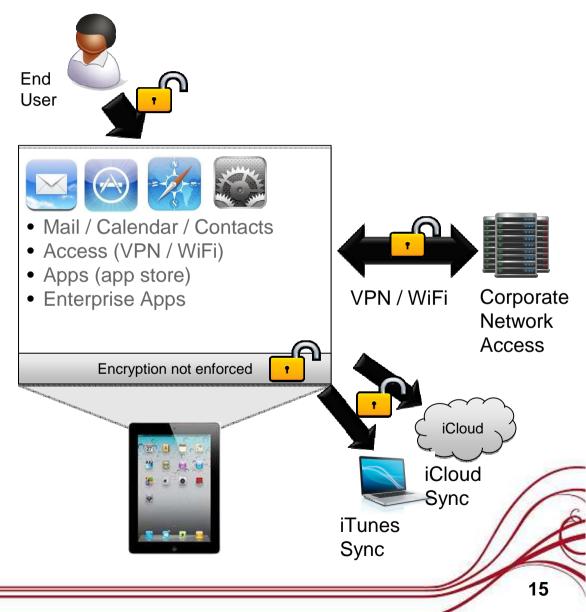




The Problem

Security & Management Challenges:

- Potential unauthorized access (lost, stolen)
- Disabled encryption
 Insecure devices connecting
 to network
- Corporate data leakage

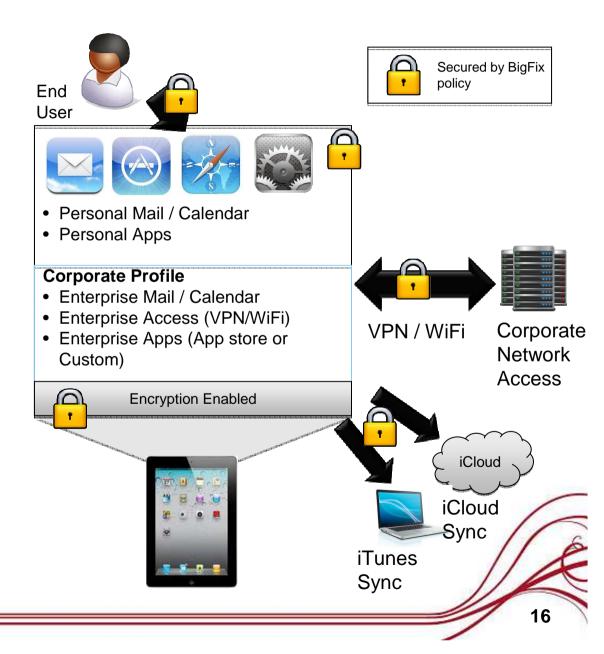




The Solution

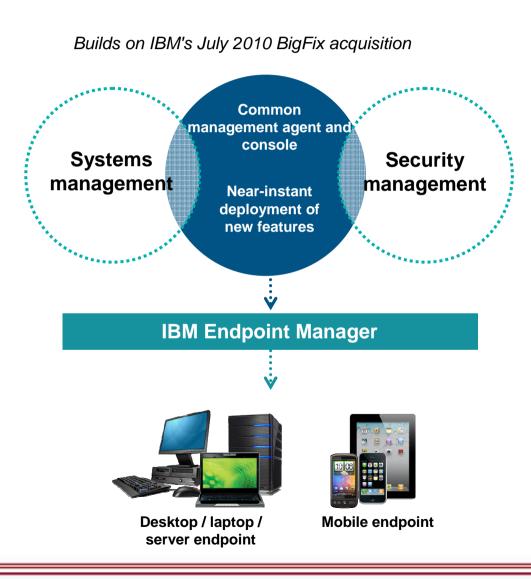
IBM Endpoint Manager for Mobile Devices:

- 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





IBM Endpoint Manager for Mobile Devices



Device management via Android agent, iOS APIs, Lotus Traveler, Microsoft Exchange, and Office 365

New!

- Complete device hardware and software inventory in near realtime
- A 'single device view' enables IT personnel to easily view device details and take required action
- Web reports provide at-a-glance mobile device deployment overviews
- Data usage tracking and configuration of roaming settings aids in expense management
- Pass mobile device data to network management, service desk, asset management, and security and compliance systems



Securing sensitive data

- Unified compliance reporting across all devices
- Configure security settings such as password policy, encryption, WiFi, iCloud sync
- Multiple authenticated device enrollment options, including LDAP/AD integration
- Full wipe, remote lock, map device location, and clear passcode options if device is lost or stolen
- Whitelist / 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



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



IBM internal BYOD initiative





Extending Corporate Access

"IBM's BYOD program "really is about supporting employees in the way they want to work. They will find the most appropriate tool to get their job done. I want to make sure I can enable them to do that, but in a way that safeguards the integrity of our business."

Jeanette Horan, IBM CIO

Customer Needs

- Support BYOD for a variety of mobile platforms securely for a highly mobile population
- Scale to hundreds of thousands of devices

Key Features & Outcomes

- 120,000 mobile devices, 80,000 personally owned, supported in months
- Integrated Notes Traveler, IBM Connections, IBM Sametime, and IBM Endpoint Manager





Mobile application models

Browser Access

Written in HTML5 JavaScript and CSS3. Quick and cheap to develop, but less powerful than native.

Hybrid Apps - Web

HTML5 code and Worklight runtime libraries packaged within the app and executed in a native shell.

Hybrid Apps - Mixed

User augments web code with native language for unique needs and maximized user experience.

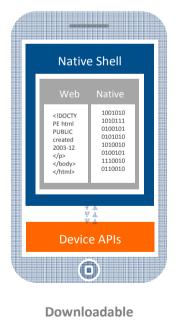
Native Apps

Platform-specific. Requires unique expertise, pricy and long to develop. Can deliver higher user experience.

Native Application







Device APIs Device APIs Downloadable



Open and extensive dev environment IBM Worklight

App development using native and/or familiar web technologies:

- HTML5
- CSS3
- JavaScript



App delivery in variety of forms:

Native Shell

Ā

ative Applicatio

0

- Mobile Web app
- Hybrid app

Mobile Browser

ladornek homi elerado nomis I -- created 2002-12-12 neads/thies/012//hties

Ö

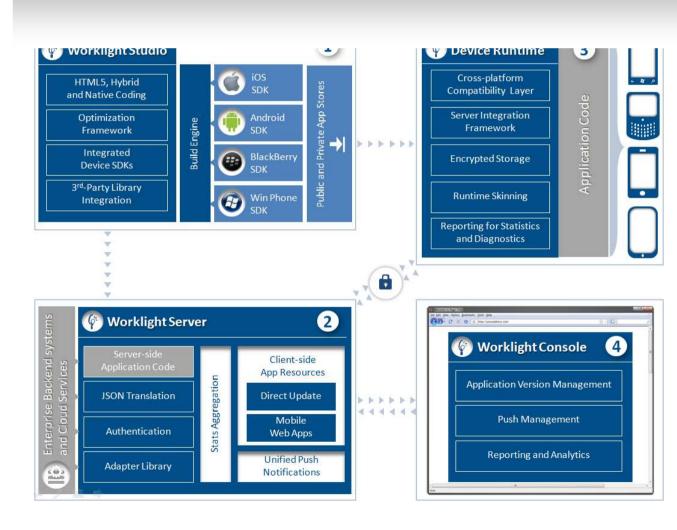
Native

Compatible with prominent HTML5 libraries and tools:





Rich mobile middleware functionality

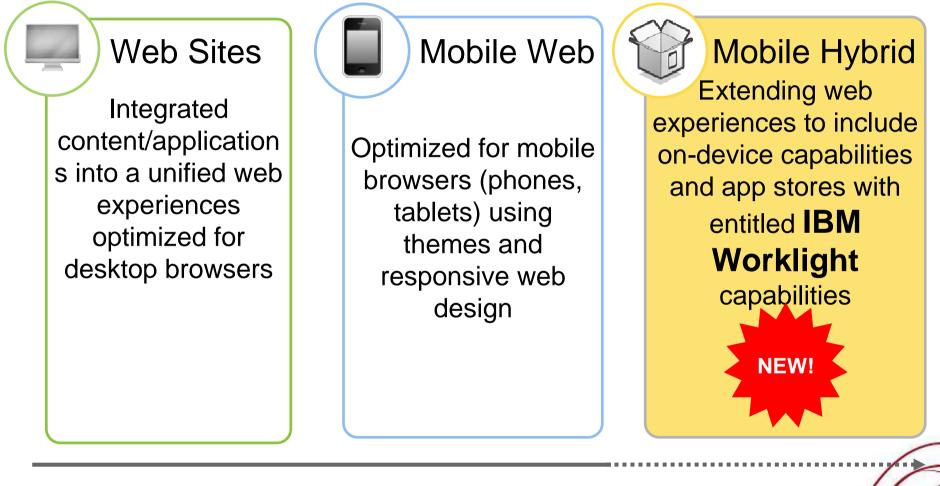


Run-time capabilities provided on the server and device:

- Strong authentication
- On-device encryption
- Back-end integration
- Push notifications
- Data collection for analytics
- Application updates
- Runtime skinning
- Support for B2E, B2B as well as B2C



Building an effective multichannel web



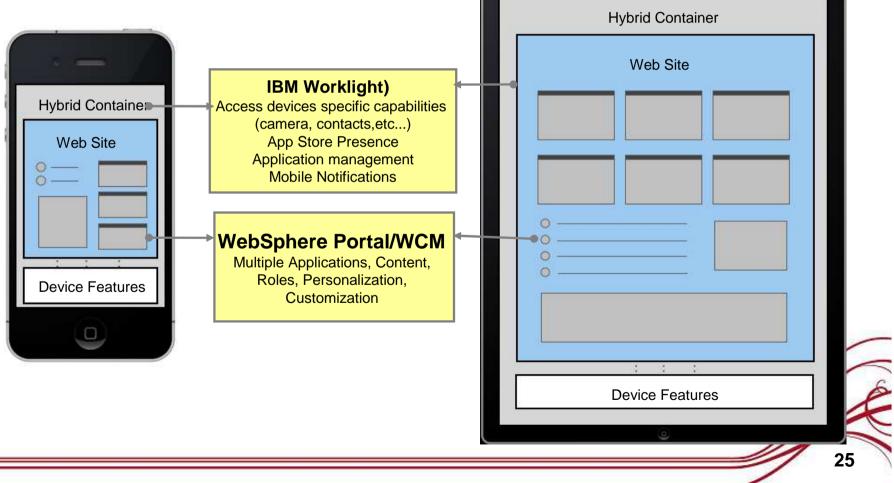
Strong multichannel capabilities today...

...extended even further!



An hybrid approach example (1/2)

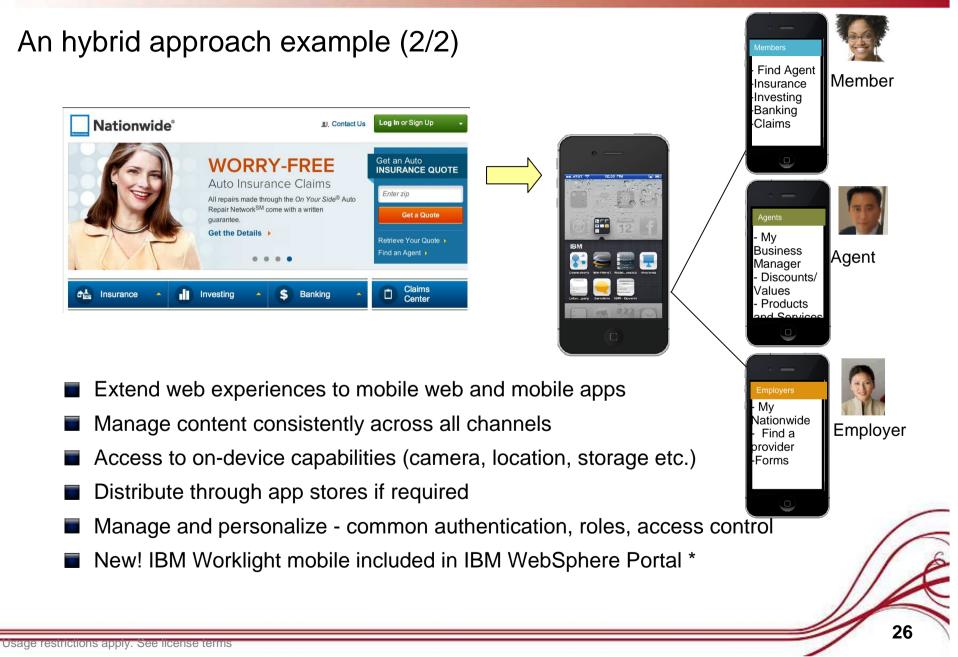
WebSphere Portal/WCM and IBM Worklight used together can extend the capabilities and reach of an exceptional web site



4:57 PM

100%







IBM Mobile Foundation



Includes

- IBM Worklight
- IBM WebSphere Cast Iron
- IBM Endpoint Manager for Mobile Devices

Plus New Service

• IBM Software Services for Mobile Foundation

27

