

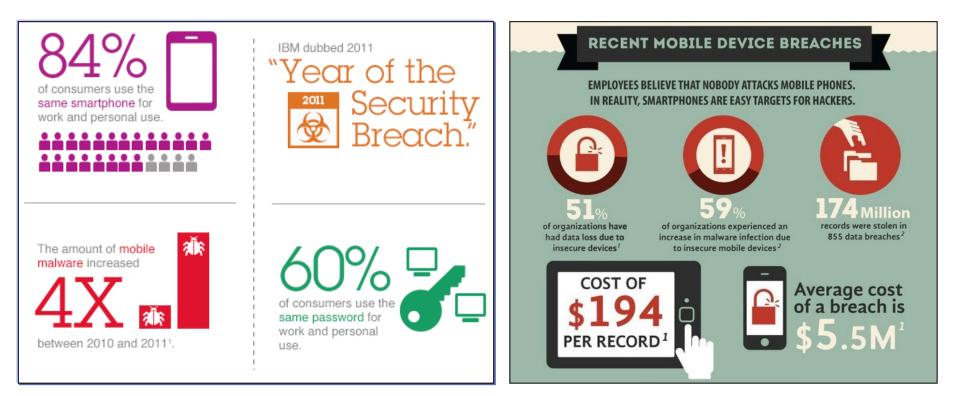
Crafting an Adaptive Mobile Security & Management Posture

Delivering Confidence 06/12/2013



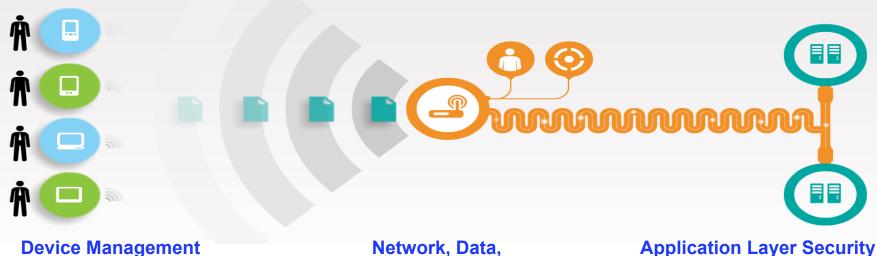
IBM

Enterprises Need Confidence to Put Mobile First



A Frame of Reference to Structure Your Strategy

IBM Mobile Security and Management Framework



Device Management

Security for endpoint device and data

Achieve visibility and adaptive security policies

and Access Security

Application Layer Security

Develop and test applications

Operational Priorities in Evolving to a Mobile Enterprise



Potential for productivity gains and enhancing employee and organization responsiveness motivating organizations to transform high value processes (i.e. Mobile Payments, Health Monitoring etc)

Enterprise Mobile Apps

Mobile Collaboration

Basic Mobile Access (Email Calendar Contacts Browser)

Management of New Mobile Devices

Mobile as the preferred channel to reach employees and partners encouraging proliferation of mobile business apps

Dynamic work tasks and context-specific interactions promote the use of mobile devices for content collaboration (i.e. messaging, file sharing, etc)

Employees demanding greater mobile access to core productivity tools

Organizations facing an ever increasing influx of consumer mobile devices on the corporate network require visibility over those devices

Mobile Security Maturity Model

Optimized	Mobile Security Intelligence Risk Assessments, New Threat Detection, Active Monitoring						
	Integrated management of multiple devices Device Security policy management	Prevent loss or leakage of sensitive information Risk / Context based Access Threat Detection on inbound network traffic	Context / Risk based document collaboration / creating / viewing Enforce restrictions on copy/ paste	Multi-factor context aware access and offline access Granular security policy definition and enforcement Enable data sharing based on policy			
Proficient	Endpoint Protection with Anti-malware White/black list apps Detection of Jailbreak/ rooted devices	Prevent copy and paste of email, calendar, contacts and intranet data Application level VPN	Secure document creation and viewing Document Collaboration with secure file sync / collaboration	App Management – provisioning/ updates/disabling Separation of corporate apps from personal apps Application validation			
Basic	Update management Device lock / Device wipe Device Registration	Segregated secure access corporate email, calendar, contacts and browser User /device authentication and single sign-on	Connectivity to social networks Secure instant messaging	Enforcing encryption of data within an app App Vulnerability Testing and Certification			
	BYOD	Data Separation	Mobile Collaboration	Mobile App. Security			

What if context determined capabilities automatically & securely?







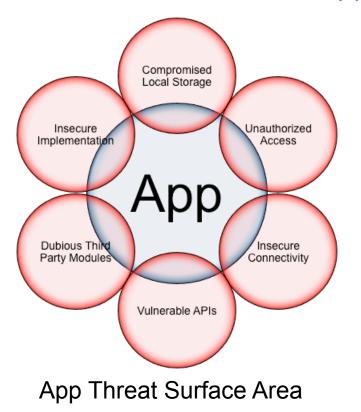
- Context
 - On-site inside emergency room
 - On the hospital network
 - Authorized doctor on shift
- Function: All app features
- Data: Full data access and storage
- Security: Single-factor authentication

- Context
 - At coffee shop
 - On an unsecured network
 - Authorized doctor on call
- Function: Designated features only
- Data: Specific encrypted data
- Security: Multi-factor authentication

6



Need to Defend the Mobile App



Spoofing	Tampering	Repudiation	Information Disclosure	Denial of Service	Elevation of Privilege		
App Attack Approaches							



Mobile Security Intelligence





IBM Solutions

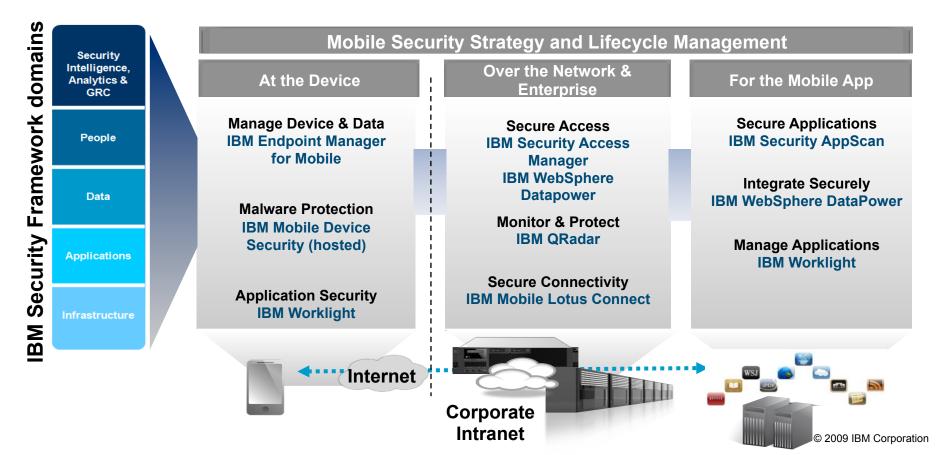
© 2012 IBM Corporation



IBM MobileFirst Offering Portfolio



IBM MobileFirst offerings to secure the enterprise



IBM

A Mobile First organization needs...

Prioritized security and privacy throughout the mobile app lifecycle to protect sensitive business systems *IBM Security AppScan 8.7* What's New

- Accelerates the use of iOS in an Enterprise setting
- Native security scanning of iOS applications built in Objective C, Java or JavaScript
- Facilitates a "secure by design" process in the software development lifecycle for mobile applications
- Addresses requirements for usage in the US Federal Government



A Mobile First organization needs...

Real-time visibility and control over all mobile devices IBM Endpoint Manager for Mobile Devices

What's New

- FIPS 140-2 Certified Encryption Module
 - Meet US Government standards for data protection
- Automated Compliance-based Email Access

- Automatically grant or deny email access based on device compliance.

IBM Lotus Notes Traveler Security Policy Integration

Ease security administration by setting and reporting Lotus
 Traveler security policies through the Endpoint Manager
 console

Expanded BYOD Platform Support

 BlackBerry 10, Microsoft Windows Phone 8, Windows RT, Apple iOS 6.1

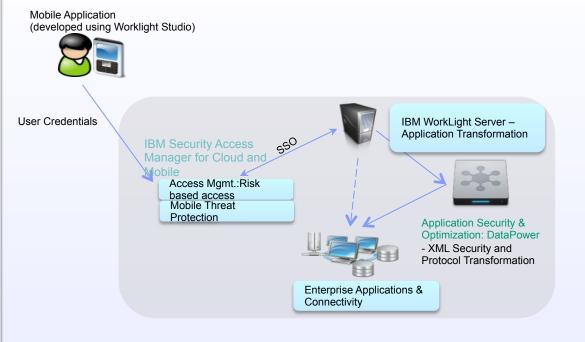






A Mobile First organization needs...

Increase accuracy of identifying mobile access security risks IBM Security Access Manager for Cloud and Mobile



Mobile Security

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



Customer Case Studies



European Bank delivers secure mobile Internet banking Background



Major European Bank needed to reduce operational complexity and cost with a single, scalable infrastructure to secure access to various back-end services from multiple mobile apps. A customized authentication mechanism empowered the bank to guarantee the security of its customers while safeguarding the trust relationship with a safe app platform that encrypts local data and delivers app updates immediately.

Customer Needs

- Extend secure access to banking apps to mobile customers
- Enhance productivity of employees to perform secure banking transactions via mobile devices
- Support for iOS, Android, and Windows Mobile

- Authenticates requests made via HTTPS from hybrid mobile apps running on WorkLight platform to back-end services
- A custom certificates-based authentication mechanism implemented to secure back-end banking application



A health insurance provider offers secure mobile access



Challenges

Differentiate from competitors by offering customers greater access by supporting mobility Reduce overhead of paper-based claims processing and call-center volume

Solution

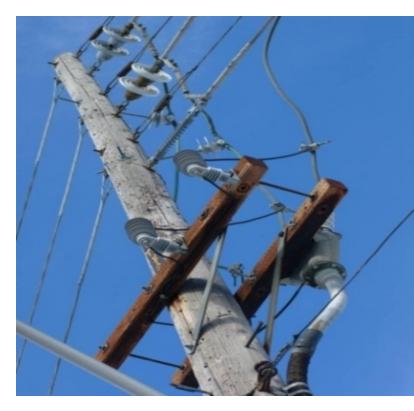
Requests made via HTTPS to multiple back-end services from native device applications protected by IBM Security Access Manager

Authentication enforced with both Basic Authentication and a custom implementation through Access Manager's External Authentication Interface

- Simultaneously build trust and improve user experience with secure membership management and claims processing
- Improve customer satisfaction and responsiveness
 through secure mobile solutions



Public utility adds mobile devices without adding infrastructure



Company Overview

Serving 4.5 million customers in the southwestern region of the United States, this electric company of 25,000 employees is a leader in clean energy while exceeding reliability standards and keeping consumer costs below average. They are experiencing a migration from traditional endpoints to mobile devices.

Customer Needs

- Support 20,000+ mobile devices
- Corporate and employee-owned, many platforms and OS versions
- High availability for certain devices used in the field
- Adherence to internal security policies, external regulations

- Scalability to 250,000 endpoints provides room to grow without adding infrastructure
- Added mobile devices to existing IEM deployment in days
- Ability to integrate with Maximo, Remedy
- Responsiveness and agility of product and product team



Global automotive company secures mobile access







Challenges

- Automobile customers require secure, personalized access to vehicle information services on their mobile devices
- Required secure access to radio, internet and social network services from the automobile

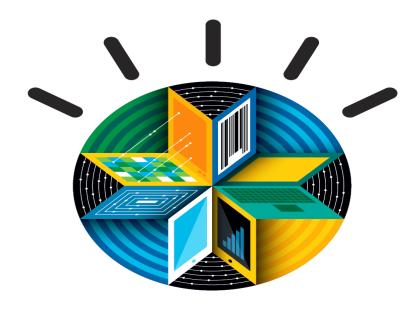
Solution

- IBM Security Access Manager and IBM Federated Identity Manager along with IBM DataPower
- Seamless authentication and authorization to back-end automotive business services

- Simplified single sign-on for trusted third party service providers
- Scale to hundreds of thousands of devices and users
- Improved customer satisfaction



Get started with IBM



• Learn more at:

www.ibm.com/mobilefirst

- Access white papers and webcasts
- Get product and services information

 Talk with your IBM representative or IBM Business Partner to find the right next step for you