



# IBM MobileFirst Protect: Secure & Manage your mobile enterprise

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Stephen Downie – Growth Markets, Unified Endpoint Management





# Digital and mobile technologies are making your customers and employees more empowered than ever...

**40%**

of smartphone users search for an item while in a store

**38%**

yearly increase in revenue from people using mobile devices to purchase items.

**80%**

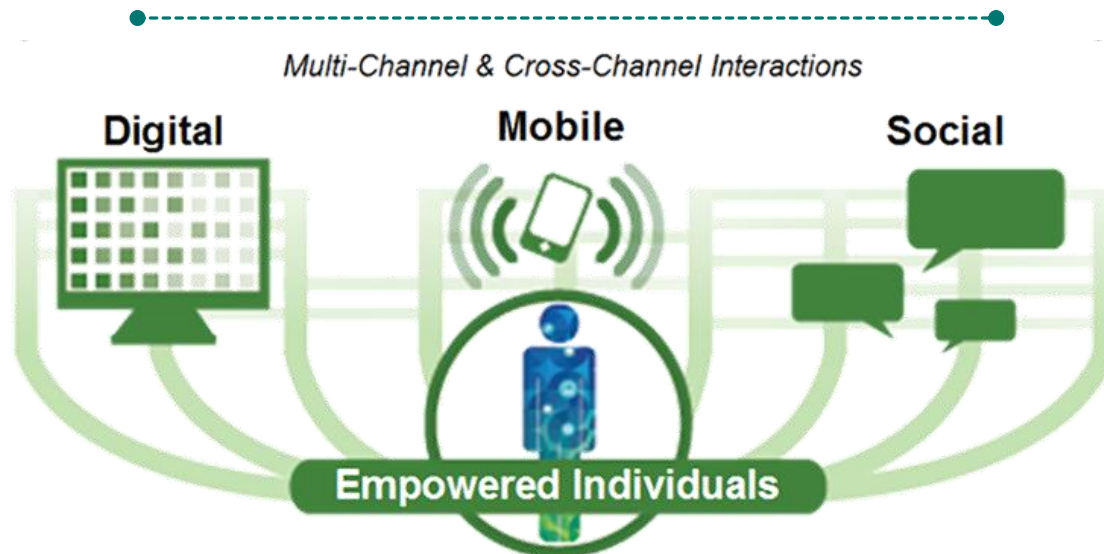
of individuals will exchange personal information for a personalized offering

**200 million**

Mobile workers will use at least one business-focused app this year

**81%**

of employed adults use at least one personally-owned mobile device for business





# But security threats are ever present

## Threats on your customers

53%

of financial apps on Android have been hacked

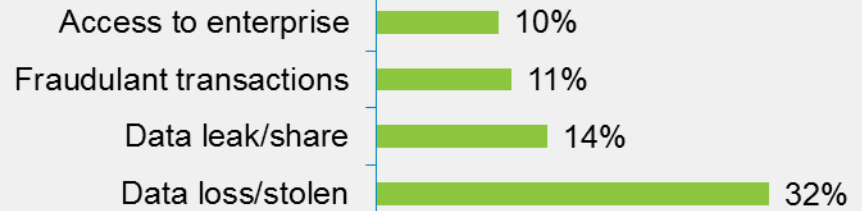
100%

of Top 100 Android apps have been hacked

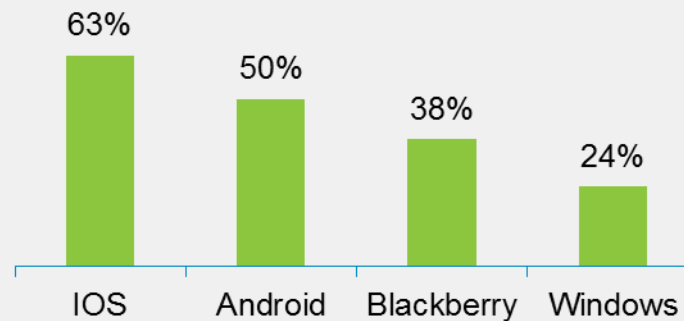
8.9 billion

annual cost of crime

## Threats on your employees



## Mobile OS BYOD Support





CIOs and CISOs want to deliver a great user experience on leading devices but cannot compromise on best-of-breed security

Chief Information Officer



*How do I manage rapid deployment of devices in a cost-effective way?*

*How do I enable my workforce with the right apps with the right user experience at the right time?*

*What do I do with all of our old devices? I need to protect my investment!*

Chief Information Security Officer



*How do I ensure all devices accessing our network are secured and encrypted?*

*How do I ensure proper authorized access to private customer data and protect against fraud?*



## CIOs and CISOs are looking for a modern mobile security solution

Legacy Mobile Security Experience	IBM's Mobile Security Experience
End-to-end proprietary architecture	Leverage best-of-breed systems and partners (Identity, Email, Network Security, EMM, Apps)
Email and messaging-oriented solutions	Apps and Content in addition to secure email
On-premises deployment only	Choice of simple cloud, on-premises or hybrid deployment options depending on customer needs
Complex deployment and integration project measured in months	Fast and easy deployment task measured in days
Dedicated IT headcount needed to support	Just a task for an IT administrator – set and forget

**IBM MobileFirst Protect** delivers exceptional end user experience with:



**Best-in-Class**



**Simplified Security**



**Ease of Deployment**

## IBM MobileFirst Protect safeguards my data and my company's data



When my work tablet – containing my credit card information and patients' data – was being attacked by malware without my knowledge, it could have been devastating for me and my practice. Luckily, my company discovered it immediately and was able to secure the data, protecting me and my patients.



Katy is a retail associate working to find the perfect gift for Jane's son.

While accessing Jane's customer information. Special care is taken to ensure her customer data is protected.

Customer data is protected on the device and through secured transmission.

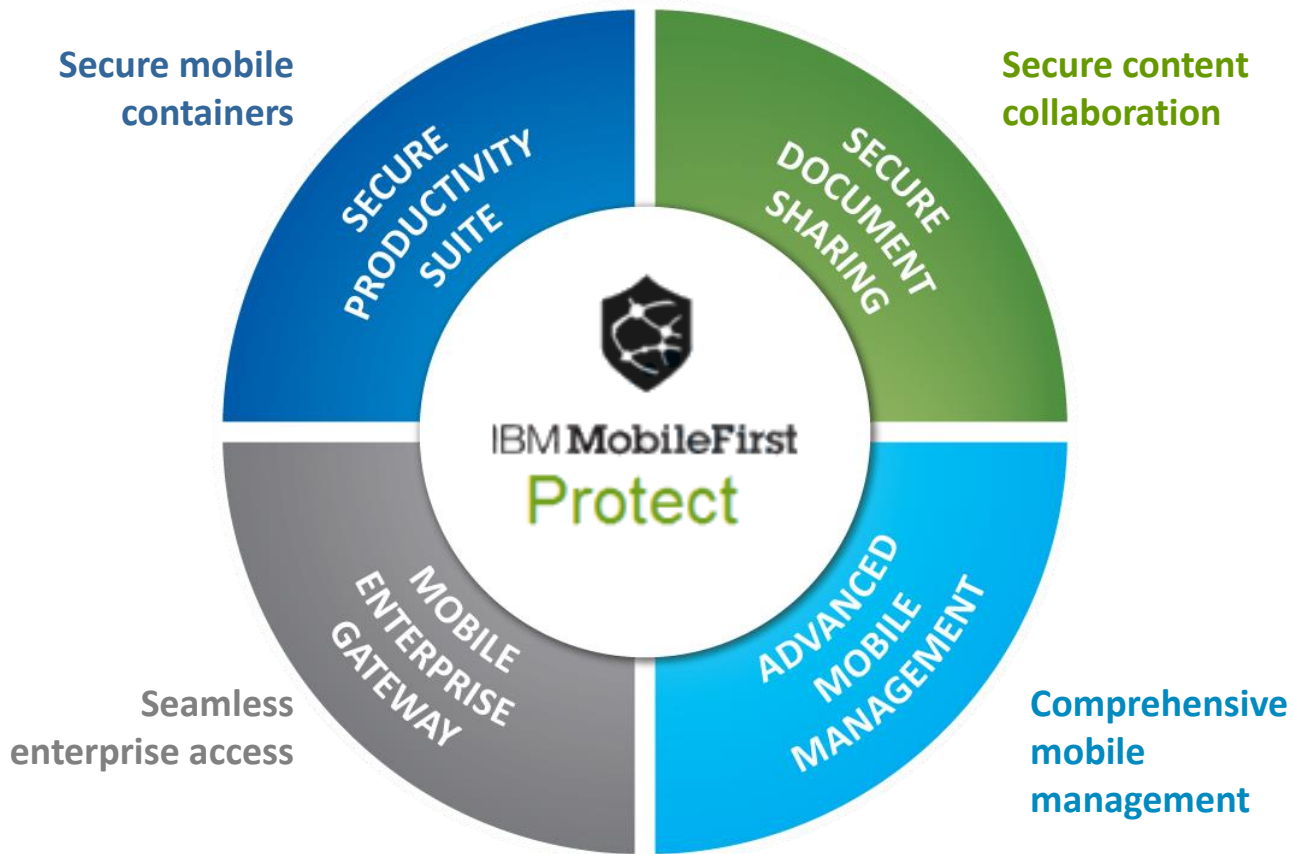
Additional controls are used to ensure the device has not been compromised

Context-aware security protects all customer data and transactions across devices, apps, and the enterprise, which improves usability. Separating customer data on the device ensures no other apps can access it, ensuring customer privacy.



## IBM MobileFirst Protect:

One security and management platform for all your mobile assets



### New in Q4

- Threat Protection / Prevention
- Zero-day iOS 8 support
- Content Management Updates
- Content access from End User Portal
- Shared folders
- Gmail integration for device discovery & access controls
- Windows Phone
- Certificates for Email and Wi-Fi configuration
- Kiosk mode
- Secure Container / Secure Mail
- iOS Notifications for Exchange 2013





# IBM MobileFirst Protect: Comprehensive security to enhance employee productivity and protect sensitive enterprise data

## Manage and secure enterprise-owned and personal BYO devices

- Mobile device management
- Mobile application management
- Mobile expense management

## Simple, secure access to behind-the-firewall resources

- Mobile enterprise gateway for browser
- Mobile enterprise gateway for docs
- Mobile enterprise gateway for apps



## Isolate and contain work emails, Web access and app data to prevent data leaks:

- Secure mail
- Secure browser
- Application security

## Securely view, distribute, create, edit and share documents via mobile device:

- Mobile content management
- Secure editor
- Secure document sync



## IBM MobileFirst Protect: Easiest to Deploy and Scale



## Mobile Device, App, and Content Management & Security platform

### For organizations that are...

- Embracing multi-OS environments (iOS, Android, Windows Phone)
- Allowing Bring-Your-Own-Device (BYOD) programs
- Developing and deploying mobile apps (public and private)
- Enabling corporate content on mobile devices securely (push and pull)
- AND MORE....



## IBM MobileFirst Protect: Dual Persona to Separate Work and Personal

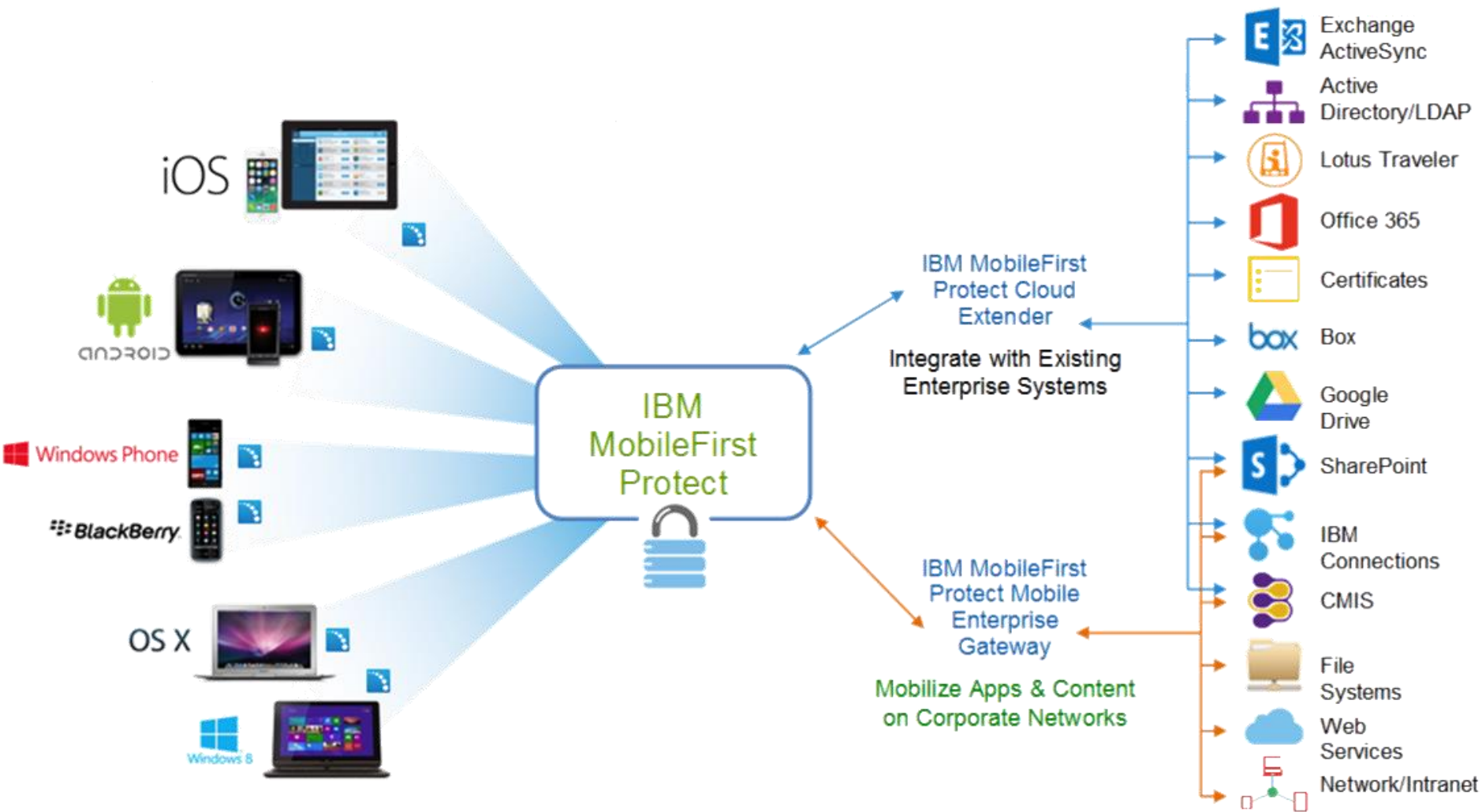
- Secure Mail
- Application Security
- Secure Browser
- Secure Document Sharing



## WorkPlace Container for Mobile Collaboration



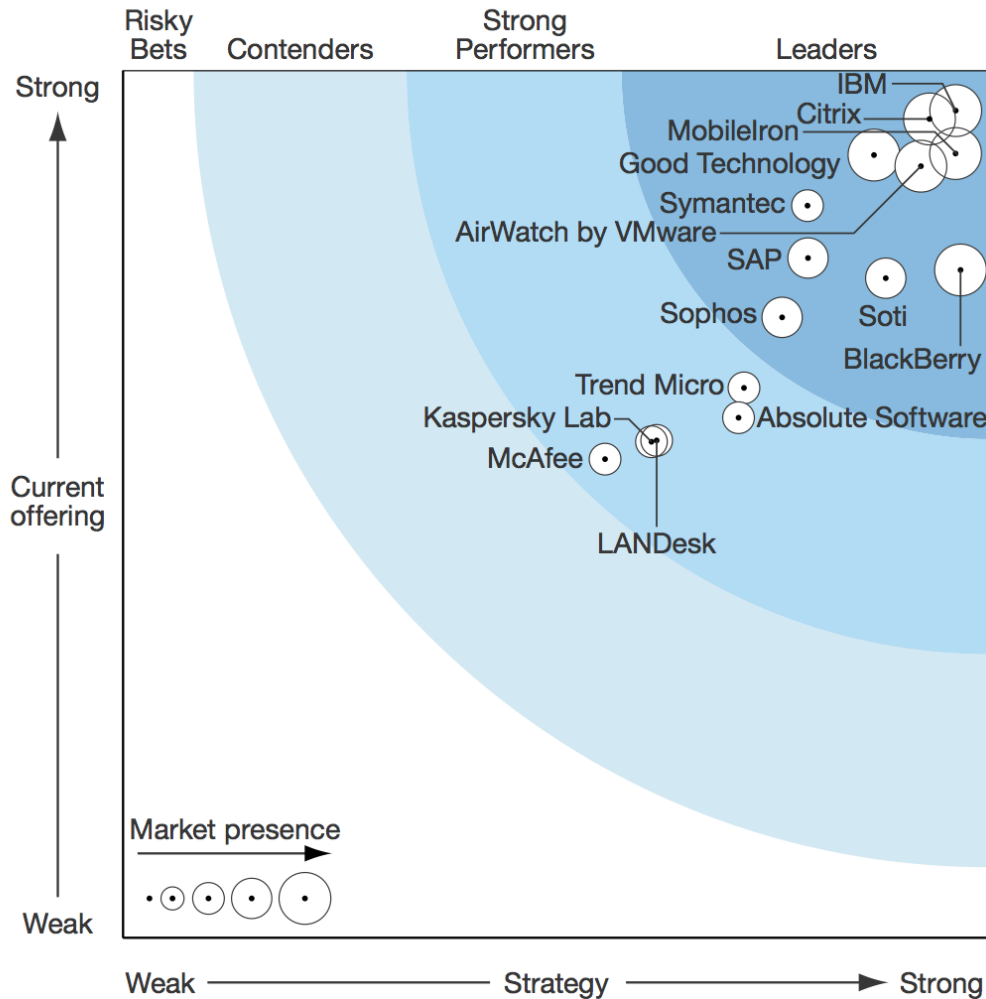
## Seamless Enterprise Integration





# Best-in-Class Devices and Management

Figure 2 Forrester Wave™: Enterprise Mobile Management, Q3 '14



## IBM: A Leader in Enterprise Mobility Management



IBM is a Leader in the 2014 Forrester Wave for Enterprise Mobile Management, ranked Highest in Current Offering and received top scores in 20 out of 27 categories.





## Why IBM

1

### **Best in Class Security Solution:**

- We are leaders in MDM
- Best in class – Apple Devices & MDM
- Offered on-prem/cloud
- Ease and speed of migration

2

### **Security is more than encryption:**

- Risk-aware applications
- Anti-malware
- Fraud protection

3

Enterprises need complete **Security and Management solutions** for both employee- and customer-facing app opportunities



# IBM's Industry-leading MobileFirst Portfolio

**200+**  
**IBM SOFTWARE APPS**  
are available today in App Stores,  
with almost **1,000,000 downloads**

IBM named  
**A LEADER**  
among Global  
Digital Marketing  
Agencies

IBM named  
**A LEADER**  
for **application**  
**security testing**

**100%**  
**OF THE TOP 100**  
communication  
service providers  
use IBM software

IBM named  
**A LEADER**  
in Mobile  
Application  
Development  
Platforms

IBM named  
the only **LEADER**  
for **managed**  
**mobility**  
**services**

IBM is cited as  
**A LEADER**  
in **app design and**  
**managed services**

**IBM LEADS in**  
Worldwide Mobile  
Application  
Development,  
Testing, Management  
& Infrastructure Services

**Software & Information  
Industry Association (SIIA)  
honored IBM**

for Best Mobile Development  
Solution  
(May 2013)

**//CODiE//**  
**2013 SIIA CODIE WINNER**



# Thank You!

Learn: [ibm.com/mobilefirst](http://ibm.com/mobilefirst)

Try: [ibm.com/bluemix](http://ibm.com/bluemix)

Watch: [youtube.com/IBMMobileEnterprise](http://youtube.com/IBMMobileEnterprise)



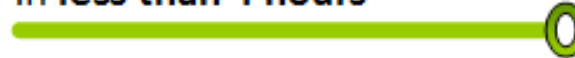


# Why IBM MobileFirst Protect?

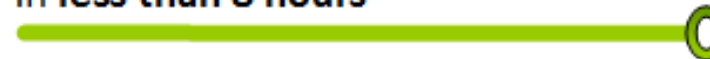
## Fastest Time to Trust



**60%** deployed IBM MobileFirst Protect in **less than 4 hours**



**75%** deployed IBM MobileFirst Protect in **less than 8 hours**



0%

100%



*Sales & customer support at no additional charge*



*24x7 customer support by phone, chat or email*



*Community, forums, blogs, on-demand webinars*



**A LEADER 2014**  
Mobile Enterprise Mobility Management  
**Gartner Magic Quadrant**



**A LEADER 2014**  
Enterprise Mobile Management  
**The Forrester Wave™**



**A CHAMPION 2014**  
Mobile Device Management  
**Info-Tech Research Vender Landscape Award**

## IBM MobileFirst

As Jane prepares to purchase a present for her son at a retail store...

Jane is sent a “one time password via text” to add extra security without alarming her.

Her bank notices potential fraudulent activity happening overseas.

The threat goes unnoticed to Jane, improving her mobile experience while simplifying her shopping experience.

Security and Protection extends beyond employees to customers. Ensuring personal information is secured and accessed by only the people who are allowed to access it helps enterprises manage threats on customers.



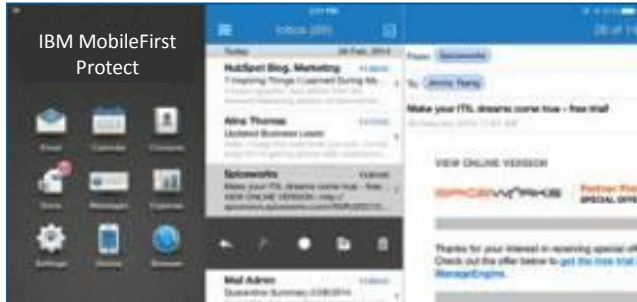


## Protect User, Device, Data and Transactions with IBM Security Access Manager

- 1** **Context Aware** security means you authenticate when you need to, which provides a better user experience
- 2** **Protect** against targeted attacks and web vulnerabilities
- 3** **Detect Insider Fraud**



# IBM MobileFirst Protect: Secure Productivity Suite

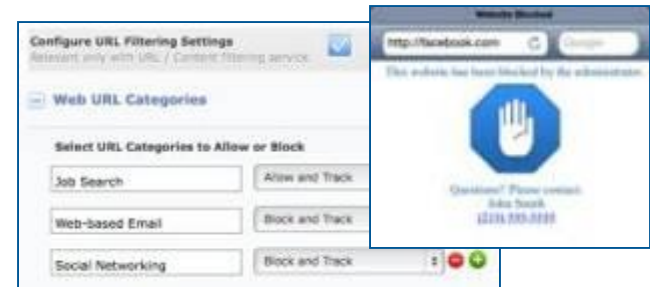


## Secure Mail

- Contain email text & attachments to prevent data leakage
- Enforce authentication, copy/paste & forwarding restrictions
- FIPS 140-2 compliant, AES-256 bit encryption for data at rest

## Secure Browser

- Enable secure access to intranet sites & web apps w/o VPN
- Define URL filters based on categories & whitelisted sites
- Restrict cookies, downloads, copy/paste & print features



## Application Security

- Contain enterprise apps with a simple app wrapper or SDK
- Enforce authentication & copy/paste restrictions
- Prevent access from compromised devices



# IBM MobileFirst Protect: Secure Document Sharing

## Mobile Content Management

- Contain documents & files to prevent data leakage
- Enforce authentication, copy/paste & view-only restrictions
- Access IBM MobileFirst Protect distributed content & repositories such as SharePoint, Box & Google Drive



## Secure Editor

- Create, edit & save content in a secure, encrypted container
- Collaborate on Word, Excel, PowerPoint & text files
- Change fonts & insert images, tables, shapes, links & more

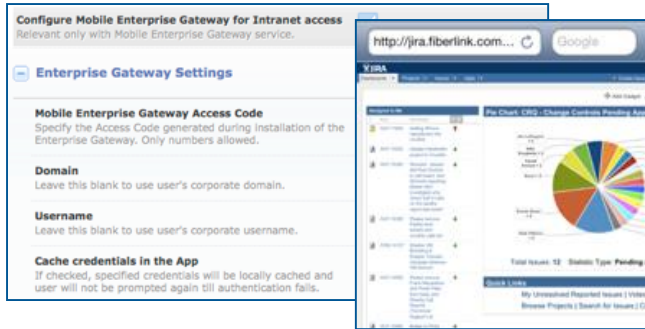
## Secure Document Sync

- Synchronize user content across managed devices
- Restrict copy/paste & opening in unmanaged apps
- Store content securely, both in the cloud & on devices





# IBM MobileFirst Protect: Mobile Enterprise Gateway

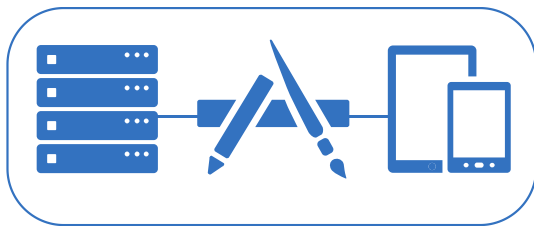


## Mobile Enterprise Gateway for Browser

- Enable IBM MobileFirst Protect Secure Browser to access enterprise intranet sites, web apps & network resources
- Access seamlessly & securely without needing a VPN session on mobile device

## Mobile Enterprise Gateway for Docs

- Enhance MaaS360 Mobile Content Management with secure access to internal files, e.g. SharePoint & Windows File Share
- Retrieve enterprise documents without a device VPN session



## Mobile Enterprise Gateway for Apps

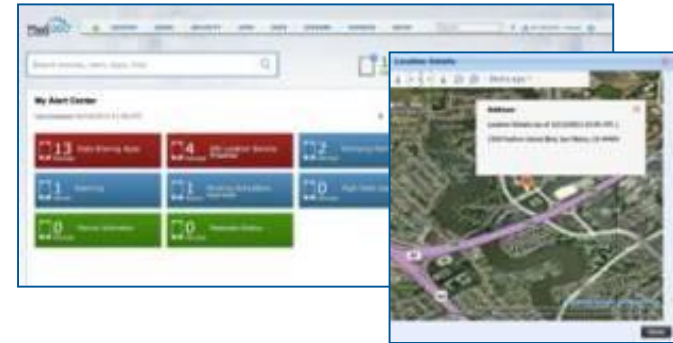
- Add per app VPN to IBM MobileFirst Protect Application Security to integrate behind-the-firewall data in private apps
- Incorporate enterprise data without a device VPN session



# IBM MobileFirst Protect: Mobile Enterprise Gateway

## Mobile Device Management

- Manage smartphones, tablets & laptops featuring iOS, Android, Windows Phone, BlackBerry, Windows PC & OS X
- Gain complete visibility of devices, security & network
- Enforce compliance with real-time & automated actions



## Mobile Application Management

- Deploy custom enterprise app catalogs
- Blacklist, whitelist & require apps
- Administer app volume purchase programs

## Mobile Expense Management

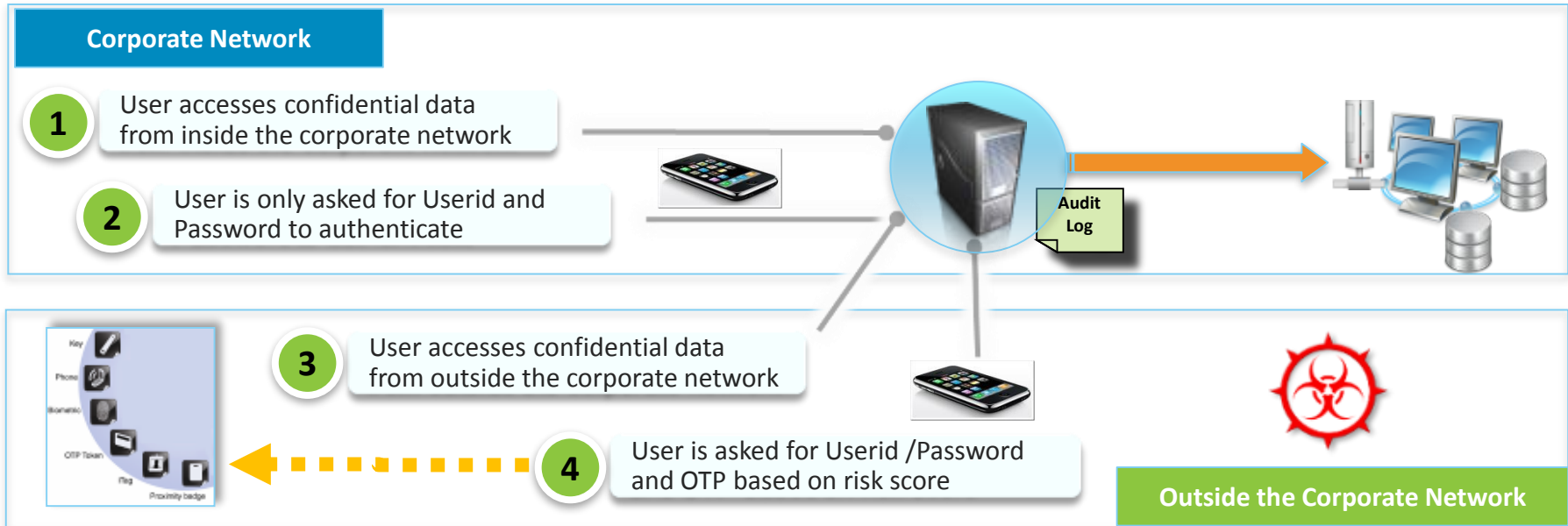
- Monitor mobile data usage with real-time alerts
- Set policies to restrict or limit data & voice roaming
- Review integrated reporting and analytics







## Context-aware access to secure mobile user access

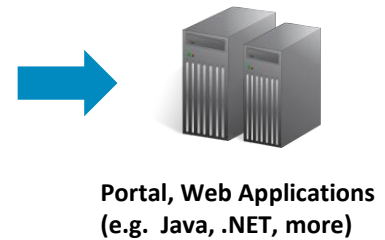


- Risk-based Access feature to determine and score risk levels using user attributes and real-time context (e.g. location, device)
- Enforce mobile user access based on risk-level (e.g. permit, deny, step-up authenticate)
- Support mobile authentication with built-in One-Time Password (OTP) and provide ability to integrate with 3<sup>rd</sup> party strong authentication vendors, as needed



# Secure access and protect the content against targeted attacks and web vulnerabilities

**IBM Security Access Manager  
Proxy Appliance (AMP 5100)**



Access Operations	Grant/Deny
An authorized user requests access to the portal and SSO	Grant
Password is stolen, session is hijacked and HTTP content is compromised	Deny
HTTP content contains common vulnerabilities such as SQL Injection, Cross site scripting, Cross-site request forgery	Deny
Enforce step-up authentication or risk-based access to restore authorized user access	Grant

**Access Management in a multi-perimeter world**  
**Integrated Web Access and Web Content Protection in a Single Appliance**  
**(Powered by X-Force)**



# Detect insider fraud

Potential Data Loss  
Who? What? Where?

Magnitude	
Description	Potential Data Loss/Theft Detected
Attacker/Src	10.103.14.139 (dhcp-workstation-103.14.139.acme.org)
Target(s)/Dest	Local (2) Remote (1)
Network(s)	Multiple (3)
Notes	Data Loss Prevention Use Case. Demonstrates QRadar DL authentication ...

	Event Name	Source IP (Unique Count)	Log Source (Unique Count)	Username (Unique Count)	Category (Unique Count)
	Authentication Failed	10.103.14.139	OracleDbAudit @ 10.101.145.198	Multiple (2)	Misc Login Failed
	Misc Login Succeeded	10.103.14.139	OracleDbAudit @ 10.101.145.198	scott	Misc Login Succeeded
	DELETE failed	10.103.14.139	OracleDbAudit @ 10.101.145.198	scott	System Action Deny
	SELECT succeeded	10.103.14.139	OracleDbAudit @ 10.101.145.198	scott	System Action Allow
	Misc Logout	10.103.14.139	OracleDbAudit @ 10.101.145.198	scott	Misc Logout
	Suspicious Pattern Detect	10.103.14.139	Custom Rule Engine-8 :: qradar-vn	N/A	Suspicious Pattern Detected
	Remote Access Login Fa	10.103.14.139	Custom Rule Engine-8 :: qradar-vn	N/A	Remote Access Login Failed

Who?  
An internal user

What?  
Oracle data

Navigate

Information

Resolver Actions

TNC Recommendation

DNS Lookup

WHOIS Lookup

Port Scan

Asset Profile

Search Events

Search Flows

➔

**QRadar Has Completed Your Request**

Go to APNIC results

[Querying whois.arin.net]

[whois.arin.net]

OrgName: Google Inc.

OrgID: GOGL

Where?  
Gmail

**Threat detection in the post-perimeter world**  
 User anomaly detection and application level visibility are critical  
 to identify inside threats





## Backup



# An IBM MobileFirst Approach

## Transform

the value chain to drive growth and ROI



## Engage

customers in context by leveraging mobile insights



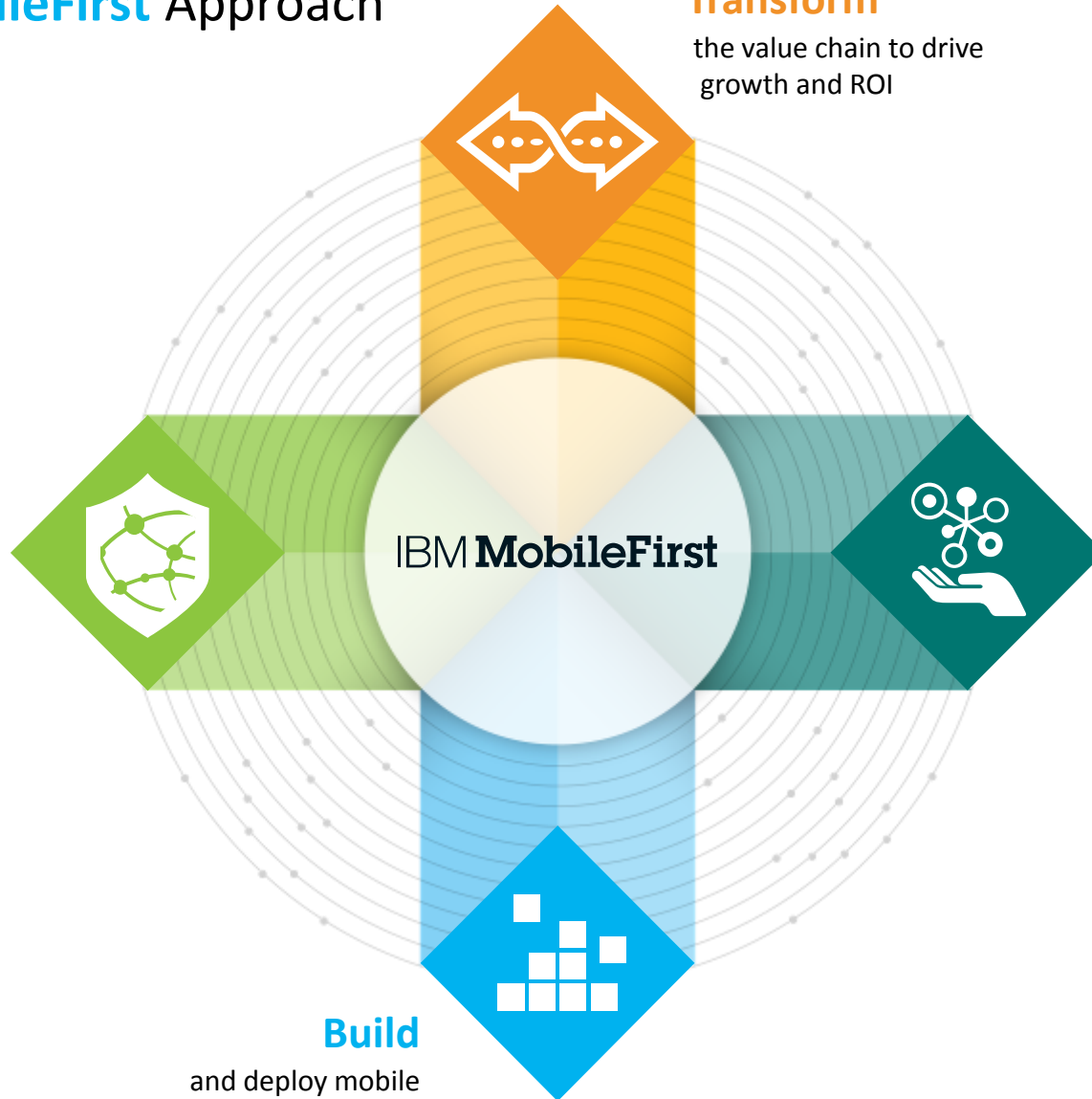
## Build

and deploy mobile applications efficiently



## Protect

and manage the mobile infrastructure to optimize performance





IBM MobileFirst Protect:



**IBM MobileFirst Protect**

Best in Class  
Experience & Security