



Put your business in motion.
Build a mobile enterprise with System z



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Mobile Is Changing Interactions And How Work Gets Done

People are transacting on mobile

 The average mobile phone user checks their phone 150 times a day

But the experience of mobile is not yet meeting expectations

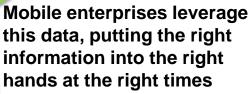
• 80% of apps are used once then deleted

Mobile transactions are generating unprecedented amounts of data

 Global mobile data traffic will increase 26-fold between 2010 and 2015, reaching 6.3 exabytes per month by 2015

This data is helping organizations deliver new value

 By 2020, 90% of new passenger cars sold will have some form of vehicle mobile platform, up from 10% in 2012.



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 By 2015, 2/3 of the workforce will own a smartphone, and 40% of the workforce will be mobile



As a Result, Leaders are Redefining Their Agendas





82% of CMOs

Plan to increase the use of social media



74% of CIOs

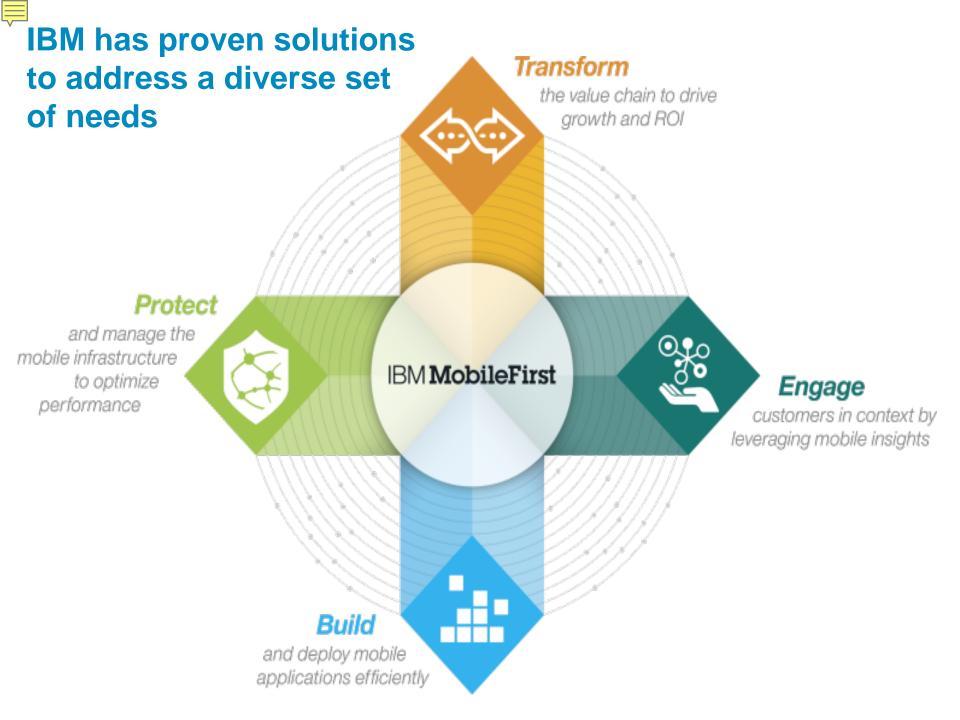
Say mobile solutions are part of their vision for increasing competitiveness



70% of COOs

Identify supply chain visibility as the top challenge in delivering on their agendas







Solving Key Business And IT Challenges with System z



- Developing apps that integrate with information from System z data
- Customer demands drive need to rapidly develop, deploy and update apps with stability and compliance
- Deploy apps that access back-end systems with optimal performance



- Protection of privacy and confidential information
- Policies for client-owned smartphones and tablets
- Visibility, security and management of end-to-end security
- Infrastructure complexity from multiple device platforms



- Clients operate in a "4 screen" world
- Leverage mobile information to deliver deeper engagement
- Analytics on System z extending to mobile apps



- New process and business designs required for transformation opportunities
- Rapid and disruptive innovation shortening time to value requirements

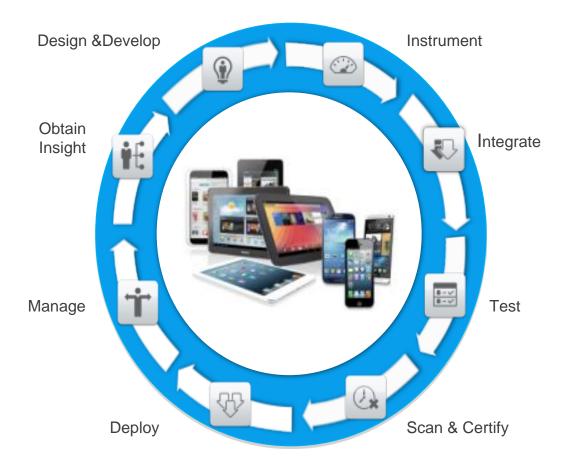




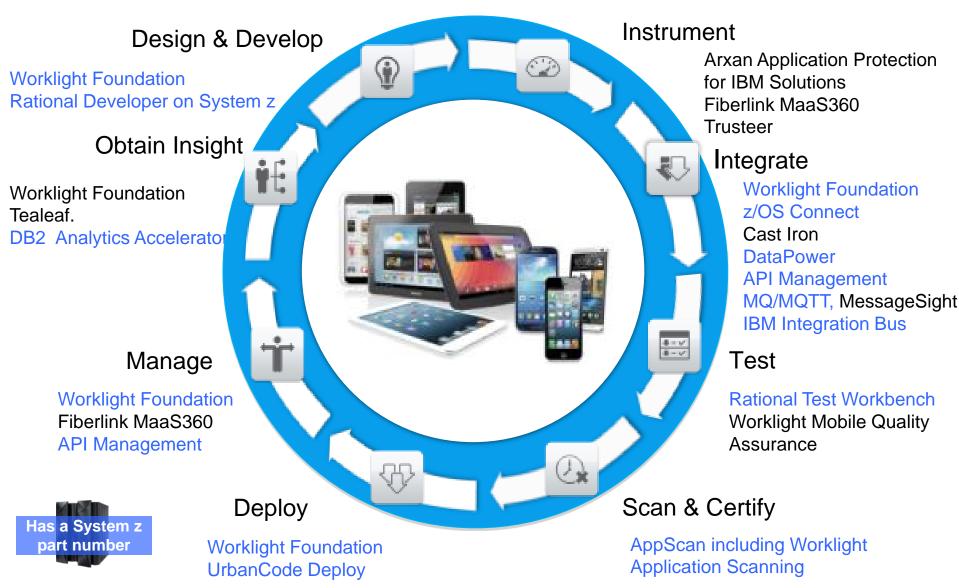


BM MobileFirst With System z:

- Quickly develop, test and deploy quality mobile apps across multiple applications on System z
- Seamlessly integrate rich mobile apps with System z
- Leverage existing z/OS transactions and data in new mobile applications



The System z mobile application development lifecycle



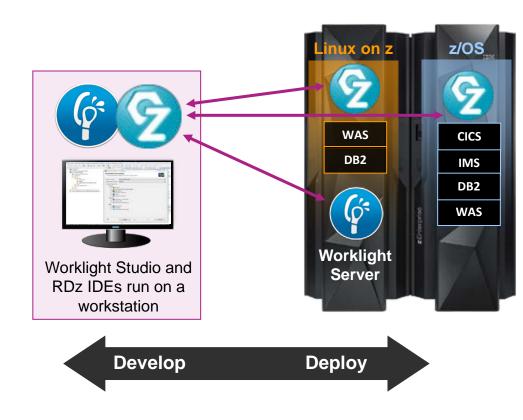


Building mobile apps on the zEnterprise

Advanced application development IBM Worklight integrated with Rational Developer for z Axian and AppScan

Developer mobile tools with programming models WebSphere Application Server Developer Tools for Eclipse

Application determination for support of mobile Rational Asset Analyzer





Why build apps with System z Solutions?

Easily understand and extend z/OS applications for mobile

Rational Developer for System z (RDz) and Rational Asset Analyzer (RAA)

Simple wizards for mobile to z/OS integration RDz

Interaction of System z components for mobile RAA

End to end tooling for mobile and enterprise components of z/OS applications

Rational Team Concert and UrbanCode Deploy

- Common Eclipse-based IDEs for all types of mobile development
- Develop and test System z mobile applications anywhere, anytime

- Manage all types of code from JavaScript to COBOL
- ✓ Lifecycle Integration Adapters to leverage third-party tools



Connecting mobile apps on the zEnterprise

API Management Mobile protocol connectivity to System z applications z/OS z/OS Connect nux on z **API Management** Worklight **DB2 NoSQL** CICS Server z/OS Connect Mobile **DataPower** apps IMS **Extending enterprise** MQ WAS apps to mobile IBM Integration **IMS Mobile Feature Pack** Bus **CICS Mobile Feature Pack** DB2 Cloud MessageSight Connectors to 3rd parties MQ MQ Scalable services to accelerate and enrich mobile apps **IBM Bluemix Mobile Cloud Services**

Unmatched scale to support millions of transactions per day

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Why connect apps to System z solutions?



Optimal mobile throughput and response time to mobile devices

Worklight Foundation on

Linux for z



Direct interface from mainframe to mobile z/OS Connect



publish, manage and socialize API's for the enterprise API Management

Easily

create,



Leading SaaS enterprise applications Cast Iron DataPower



Advanced
web
protocol
support with
high
performance
MQTT
MessageSight



ESB
environment
for
integrating
mobile
traffic
IBM
Integration
Bus

Complete Integration Solutions



Philippines bank **RCBC** transforms IT to gain 1.2M customers in one year





Challenges

RCBC needed an IT infrastructure to support a core-banking system that would help the bank improve efficiency, launch products faster and provide anywhere-anytime mobile access to banking products and services.

Solution

Developed mobile solutions using IBM Worklight platform and Rational Team Concert software workflow to track the development process, from code checkout to promotion to the target environment which extended their business beyond traditional brick-and-mortar branches

Benefits

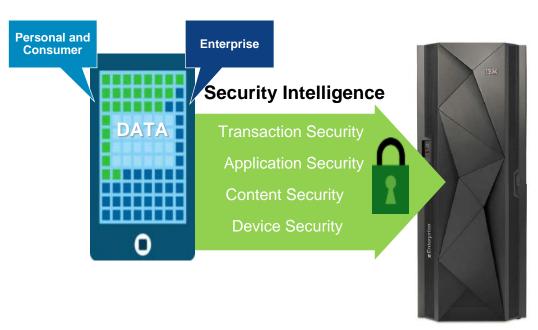
Reduced new product launch times by 50 percent and increased its readiness to effectively compete in the marketplace, moving two to three years ahead of its competition.





BM MobileFirst With System z:

- Instrument applications with security protection from mobile to back-end systems
- Secure mobile transactions from customers, partners and suppliers
- Preserve native device experience without compromising security
- Separate personal and business data
- Provide intelligent access based on risk and location







Securing mobile apps for sensitive data on System z

Unified management and security control for mobile devices

Fiberlink MaaS360 Trusteer

Enforce web and mobile security policies

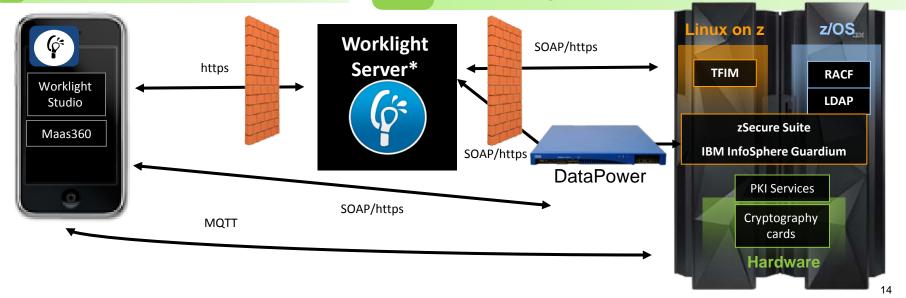
IBM DataPower IBM Castlron

Protect against fraudulent and unauthorized access

IBM Security Access Manager for Mobile Arxan Application Protection for IBM Solutions

Security foundation for System z mobile workloads

IBM Security zSecure Suite, RACF, LDAP, IBM Security QRadar SIEM, IBM InfoSphere Guardium



Why secure apps with System z Solutions?

Highest Level of security for operating system, hardware, applications and database

zEnterprise System, z/OS, DB2 for z/OS, IMS, CICS, PKI Services, Cryptography.

Easily authenticate and authorize mobile users connecting to mainframe

IBM Security Access Manager

Monitor real-time vulnerabilities in applications, databases, and operating systems on the mainframe

IBM Security zSecure

IBM InfoSphere Guardium for z/OS

IBM Security AppScan,



- ✓ End-to-end Security
- ✓ Real-time Security Intelligence



UK's saving and mortgage **Nationwide** transformed from legacy core systems to a modern, real-time, multi-channel banking system





Challenges

Nationwide knew that it needed to transform its service offerings to embrace new channels and personalized products.
Customers demanded an alwayson, multi-channel banking system

Solution

Used DB2 for z/OS to enable to operate in real-time and across multiple channels with resiliency and stability for managing millions of accounts. Used IBM security tools to manage different levels of access rights with ease.

Benefits

24/7 availability to support anytime, anywhere banking services, shorter time-to-market for new accounts, and ample scalability to support Nationwide's ambitious growth plans.

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BM MobileFirst With System z:

- Quickly create and deploy personalized mobile campaigns and gain insights with analytic information from System z
- Maximize brand value by integrating the physical and digital experiences of mobile customers
- Receive timely, informative and interactive information to support decision-making, regardless of location.



Analytics solutions for mobile apps in the zEnterprise

Informative and interactive business intelligence IBM SPSS and Cognos Solutions on Linux on System z
Next Best Action Solution on zEnterprise

Complex queries in seconds IBM DB2 Analytics Accelerator for z/OS

Visibility into the customer mobile experience to optimize app design

IBM Tealeaf





Providing superior customer service at **Banca Carige** by launching innovative mobile services and analytics





Challenges

Banca Cariage needed to develop an improved understanding of consumer behavior through analytics, and launch new mobile services that engage and retain customers through great service.

Solution

Banca Carige built an analytics environment and a new mobile banking service using IBM software on IBM zEnterprise EC12 mainframes, which provide round-the-clock availability and high security

Benefits

Launching new services meets changing customer demands, while the proven underlying technology accelerates deployment and reduces risk; consolidating to a single platform cuts cost and complexity.





IBM **MobileFirst**

Can Help You:

- Design new engagement models placing the customer first
- Use cost-effective workload mobile pricing on System z for competitive advantage
- Use Linux on z solutions to build new business models that drive revenue

In essence,

Reinvent Business with Mobile





Transform your mobile apps with System z

Collaborate with IBM mobile experts and design new System z mobile innovation

IBM MobileFirst Studios

Develop cost-effective mobile solutions with System z

IBM Workload Pricing on System z

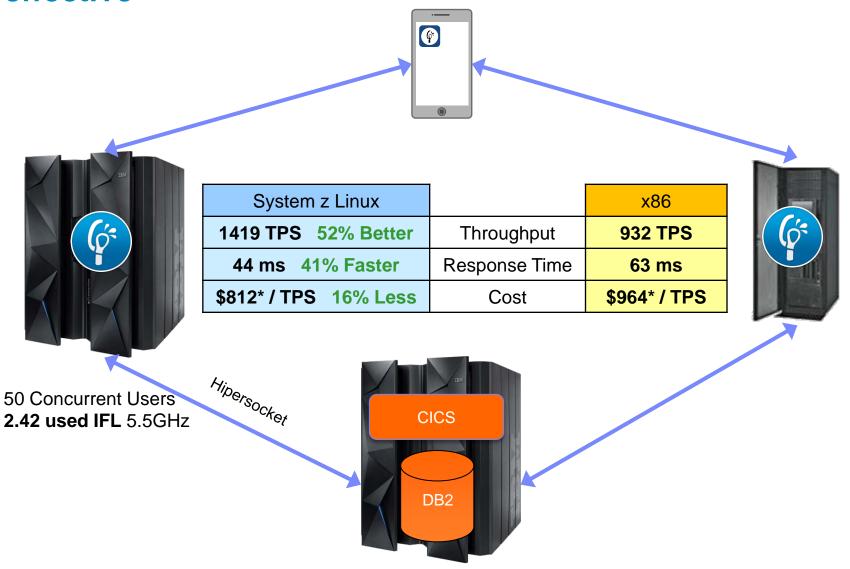
Accelerate the Mobile
Transformation Journey with
System z solutions

IBM Ready Apps
Linux on System z solutions





Worklight Server on Linux on System z Linux is costeffective

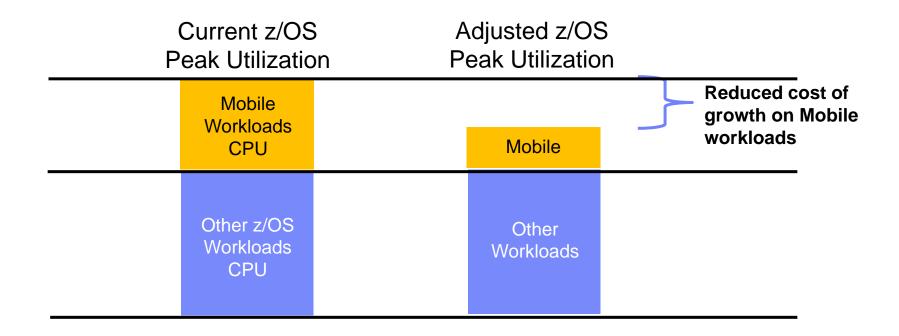


^{* 3-}Year TCA for Worklight Server (Front-end) for Prod + Dev/QA + DR. Rounded cores to 3 for the cost study.



Grow mobile transactions on z/OS with System z Mobile Workload Pricing

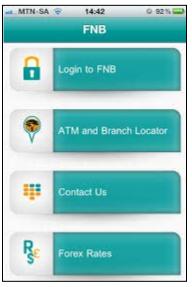
- Reduce z/OS peak MSUs attributable to mobile workloads -- up to 60%
- No Infrastructure Changes Required... (such as separate LPARs)





FNB drives unprecedented growth and performance in mobile banking





Challenges

in South Africa, more people have cellphones and smart mobile devices than bank accounts. FNB wanted to launch a reliable, secure and highly responsive mobile channel before its competitors, and looked for a platform that would enable very short timeto-market.

Solution

FNB integrated a new Java-based mobile front-end directly with tried-and-trusted business logic and core banking services running on IIMS on an IBM zEnterprise EC12 server. IBM IMS Enterprise Suite Connect APIs for Java and C and IBM IMS Enterprise Suite SOAP Gateway manage links between the channel applications and core functionality and data on the mainframe.

Benefits

Rapid deployment enabled FNB to gain first-mover advantage in the market, gaining the number one spot for mobile banking. Ultra-low average end-to-end response times of 30 milliseconds ensure snappy performance for mobile banking users. Fast, secure and reliable mobile banking generates more business for FNB and reduces its average cost per transaction.

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IBM MobileFirst with System z provides seamless connection to Systems of Record

BUILD and deploy to back-end systems to access mission critical data for enhanced customer experience

PROTECT critical data with military strength security solutions from app to mainframe

ENGAGE customers with the fastest analytics capabilities for the enterprise

TRANFORM enterprise business with packaged mobile solutions and services



Up to **60%** improvement in mobile transaction throughput with System z

Call To Action: Engage with your clients on this broad Mobile Story

Download and Access:

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- •IBV mobile study: http://ibm.co/ibvmobile
- SWG for Mobile z Acceleration Page
- SWG Know on the Go Mobile Conversations
- System z for Mobile Whiteboard Oct 16th

2

Sign your client up for:

- •Free Mobile Agenda Workshop ibmmobile@us.ibm.com
- z/OS Connect & Mobile Wildfire Workshop Oct 21-22

Reach out for assistance:

3

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