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The Mobile/BYOD flood

Best not to stand on the way of the mobile revolution

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Additionally to the heretofore mentioned escape clause

Some of the opinions stated in this presentation are entirely mine and not those of my employer.

A number of unaccredited images appear in this presentation. That's my problem as well

Possible Agenda

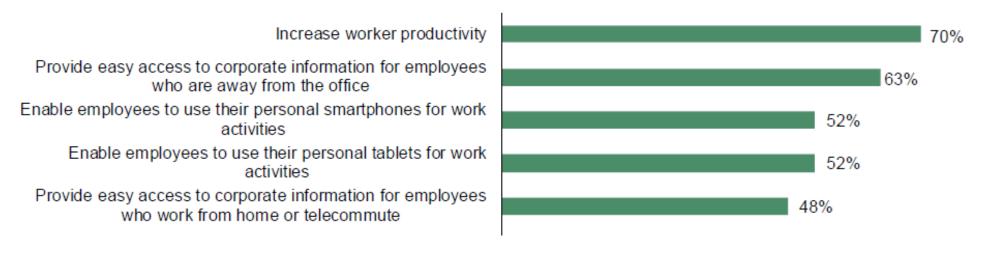
- What it looks like
- It's not plain sailing
- Technology based controls

The employer view

• Who is developing the BYOD program?



• What are the key factors driving your BYOD program?



Forester Research - Key Strategies to Capture and Measure the Value of Consumerization of IT, July 2012

Mobile Workforce Survey - Click Software

NCREASED PRODUCTIVITY





We are conservative in A/NZ

Use their iPad at work

37% vs 60 to 70% in Europe and North America

Professionals view their iPad as a laptop replacement

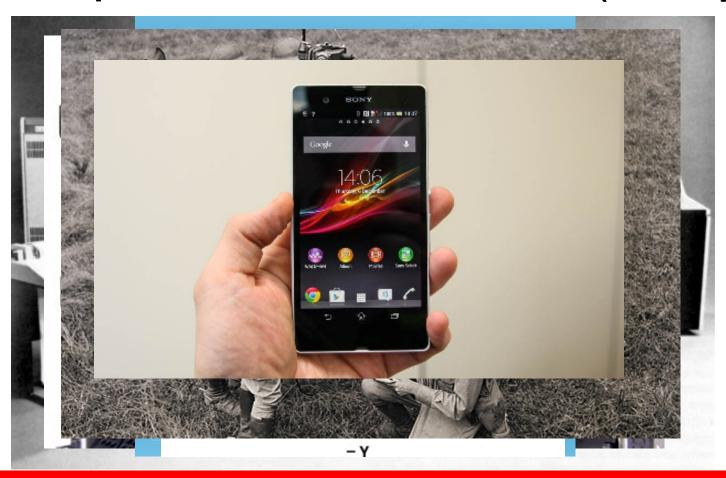
40% vs 64% worldwide

iPad provided by work

20% of the time vs 40% in Europe an 13% in North America)

IDC Ipad for Business 2012 survey

How to explain a modern mobile device (to a 10yr old)



Ubiquitous

"by 2013, mobile phones will overtake PCs as the most common web access device worldwide."

Gartner 2010, <u>www.gartner.com/it/page.jsp?id=1278413</u>
and

Gartner Oct 2012 http://www.gartner.com/newsroom/id/2209615

The Mobile and Social Access Promise

Anytime Anywhere Access



"Nearly three-quarters of organizations deploying user-focused BYOD New report improvements in employee productivity, customer response times and work processes. "

Pers

Dell Global BYOD Survey 2013

Mobile, Social and Cloud Access

the landscape

The Mobile and Social Access Problems Security

Proliferation of Devices

Cannot leverage existing security

Limited device control

A compliance challenge



How to centrally manage the security and be complaint?

The Mobile and Social Access Problems

Information Access

Corporate Resources & Information

Need for Anywhere, Anytime Access

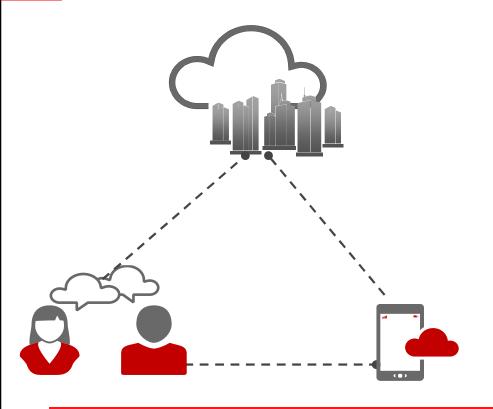
Often stored in Non-Secure Systems

Need to Control & Monitor Access



How to make internal information available, quickly & securely

Mobile Security is Beyond Device Management



46%

Of organizations that allow BYOD reported experiencing a data or security breach

Source: Trend Micro Survey, Feb 2012

50%

Of helpdesks struggle to keep up with mobile apps support

Source: Mobility Revolution Redux, March 2012

58%

Building corporate app stores

Source: Partnerpedia Survey, Aug 2011

MOBILE SECURITY STARTS FROM INSIDE

Other problems

It isn't all plain sailing

Laptops are well understood in terms of ongoing operational requirements – mobile is new Impact of confidentiality and availability due to theft, loss or damage

Personal/corporate information used for phishing / identity theft

Lack of corporate policies on use, acquisition, replacement

e.g. can you take the persons personal device if required?

Data leakage to the device

Auto connection to any wireless point, network bridging, etc.

Data costs

Unknown installed applications

Patching / anti-malware

Usernames and passwords stored on the devices in cleartext



Some steps you can take

- Implement technology safeguards, leveraging known frameworks as guidelines for policy development.
- Classify data, making the most sensitive data (personal, financial, client-sensitive or confidential) unreadable or inaccessible.
- Regularly update the operating systems and software of work devices to ensure security improvements are quickly proliferated throughout the enterprise.
- Design a device management program that includes where the users connect, etc.
- Take into account the applicable legislation and regulations on privacy around the world

The Mobile and Social Access Problems

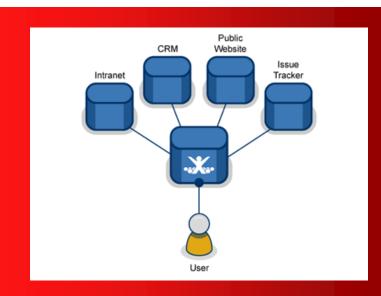
User Experience

Native Applications

No Native Single Sign-on

Password Help Desk Calls

Inconsistent Login Experience



How to improve user experience and productivity?

The Mobile and Social Access Problems

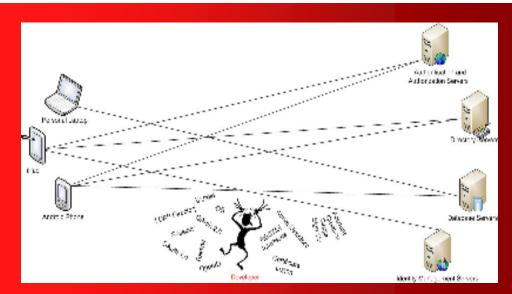
Developer Experience

Security Coded Into Each Application

Lack of Security Experience

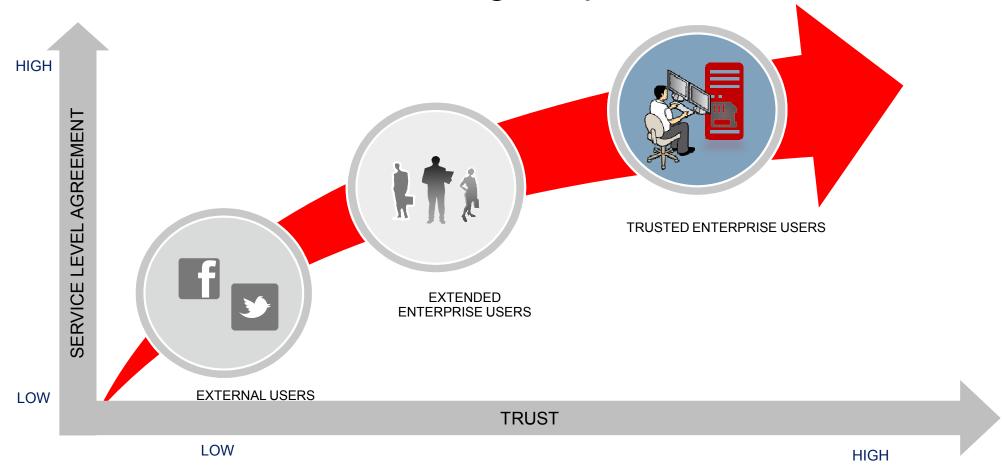
Longer Cycle with Weak Security

Inconsistent Login Experience



How to simplify app development with strong security?

Diverse Users Accessing Corporate Resources



Mobile Authentication

Flexible Options for Devices, Applications and Users









KeyVault from Redcore

Two factor authentication for the web

- Safe from Man-in-the-Middle & Man-in-the-Browser threats)
- Cryptographic security
 - Digital keys and certificates
 - Keys are "locked" to the device or token
 - Web transactions can be digitally signed
- IdentrustTM certified
- Allows transactions to be "digitally signed".









Device Based Security

Mobile Device Information (OS, Carrier, Jailbroken, IP/MAC)

Device Registration/ Fingerprint

Blacklist/ Whitelist

Stronger Authentication (KBA, OTP, etc)

Device Based Security



Context Aware Authorisation











- **Context Aware**
- **Standards Based**
- Full Audit Trail
- **No Code Changes** Required

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Client SDKs

Native Libraries for iOS, Android and JAVA

Store/Access Keys, Tokens, Handles and other secure data

Access Mobile Device Information (OS, Carrier, Geolocation, IP/MAC)

Support KBA, OTP via Email and SMS

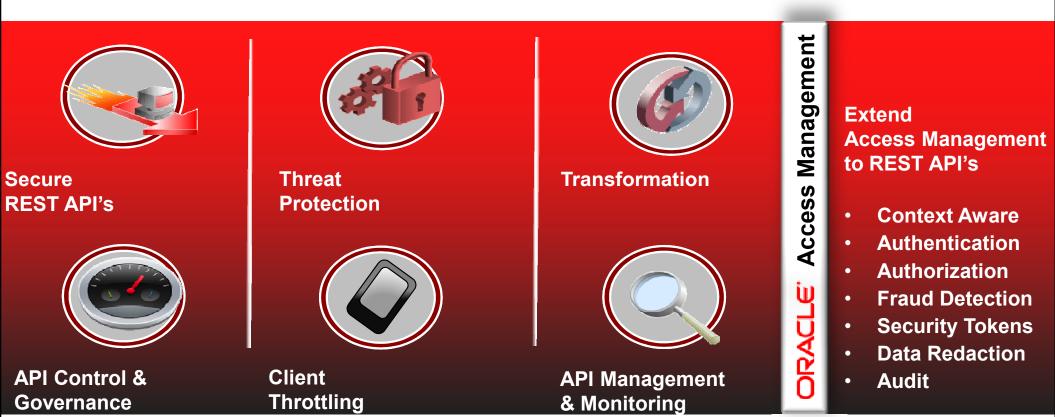
Manage Single Sign-on

Quickly build security into your mobile applications

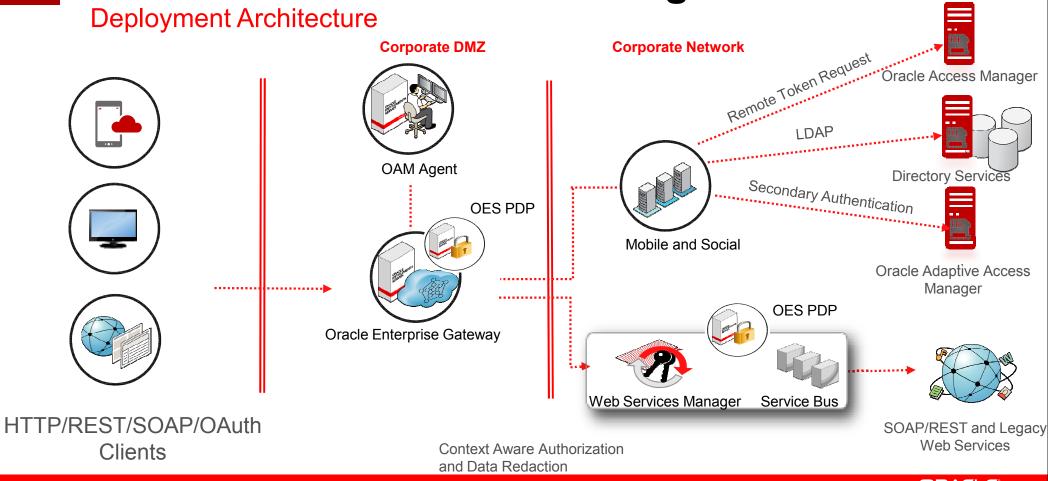


Secure API's

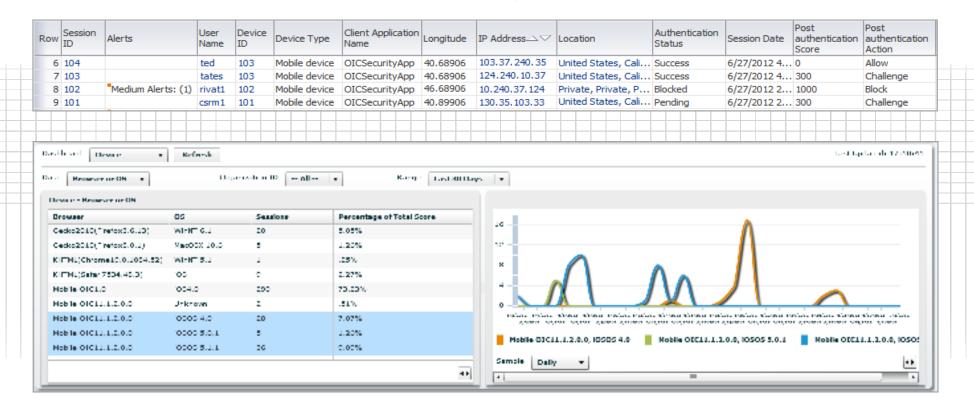
Enable Mobile Transactions and Access to Corporate Data



Mobile & Social Access Management



Detailed Mobile Visibility



Summary

- Either embrace it, or block it
 - Don't compromise security
 - Support current service level agreements
- Enterprise access platform extends to mobile
 - Security
 - Enhance user experience
 - Standards
- It's not all about technology
 - Governance, policies and standards,

