This document is for informational purposes. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle. This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. This document and information contained herein may not be disclosed, copied, reproduced or distributed to anyone outside Oracle without prior written consent of Oracle.   This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

Agenda

- Today's Security Challenges

- 2012 Data Breaches

- Enterprise Mobility Challenges
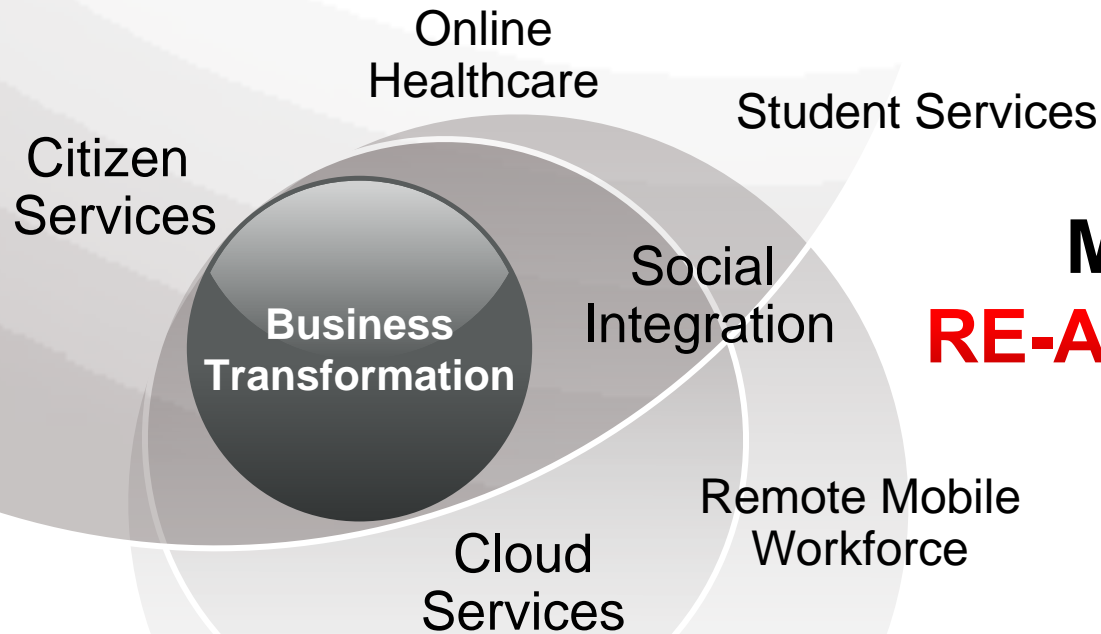
- Mobile Identity Management

- Mobile Identity Standards

ORACLE

STEP BY STEP APPROACH

SECURITY INSIDE OUT

DEFENSE IN DEPTH

ORACLE

Citizen Services

Online Healthcare

Student Services

Business Transformation

Social Integration

Cloud Services

Remote Mobile Workforce

Most Significant
RE-ARCHITECTURE
in 20 YEARS

800k **Health&Finance records STOLEN**

California Dept of Child Support Services

1.7GB Sensitive DB Leaked

US Bureau of Justice Statistics

3.8M **Bank Account #s leaked**

State of South Carolina

ORACLE

Attacks cost $$$$ in State Government (2012)

First Data Breach Settlement Under HITECH--$1.5 million

Posted on April 27, 2012 by Robyn Sterling

HHS reached a settlement on March 12, 2012 with Blue Cross Blue Shield of Tennessee ("BCBST") for $1.5 million stemming from a 2009 data breach. This settlement represents the first under the HITECH Act.

Alaska Medicaid Fined $1.7 M for Possible Patient Data Breach

BY: DYLAN SCOTT | ALASKA | JUNE 27, 2012

HHS Settlement for Lack of HIPAA Safeguards

Posted on April 24, 2012 by Robyn Sterling

One April 17, 2012, the United States Department of Health and Human Services Office for Civil Rights ("OCR") reached a settlement with Phoenix Cardiac Surgery ("PSC") for alleged violations of the HIPAA Privacy and Security Rules.

State of South Carolina Dept. of Revenue > Approximately 3.8 million Social Security numbers, 387,000 credit and debit card numbers and 657,000 business tax filings were exposed in a recent cyber-attack at the SC Department of Revenue. From http://www.sctax.org

STATE OF UTAH : DATA BREACH

UTAH CTO TAKES THE FALL.
RESIGNATION SOUGHT BY GOV. HERBERT
AFTER BREACH EXPOSES DATA ON
280,000 MEDICAID RECIPIENTS!!!!

"Some analysts have held up the breach as a classic example of the dangers weak or default passwords controlling access to critical systems and applications pose to enterprises."

"The state has said it will offer free credit monitoring and identity theft insurance coverage of up to $1 million for victims of the breach."

ORACLE

3. Financial Loss

2. Regulatory Fines

1. Brand Decline = Loss of trust from Citizens!
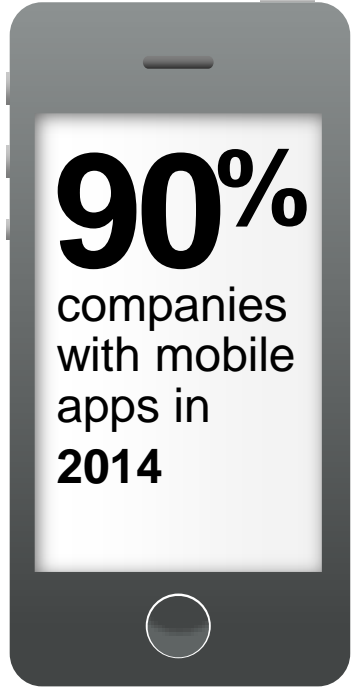
97% PREVENTABLE

ORACLE

ORACLE®

Mobile Devices in the Enterprise

- **Employees, Citizens, Students, Vendors**
  …using mobile devices
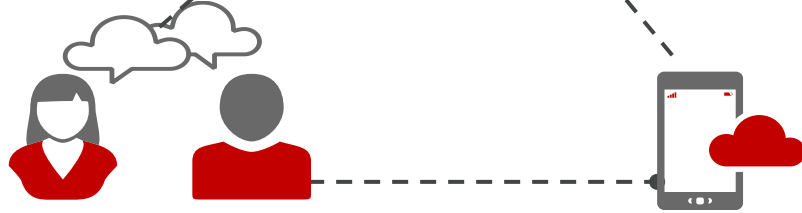
  Evolution of BYOD > Bring your own device

90% companies with mobile apps in **2014**

62% will **depend** on social networking to connect with customers and prospects

76% Store **passwords** ON THE DEVICE

10% Store **passwords** as PLAIN TEXT

Source: Information week Aug 2011

ORACLE

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
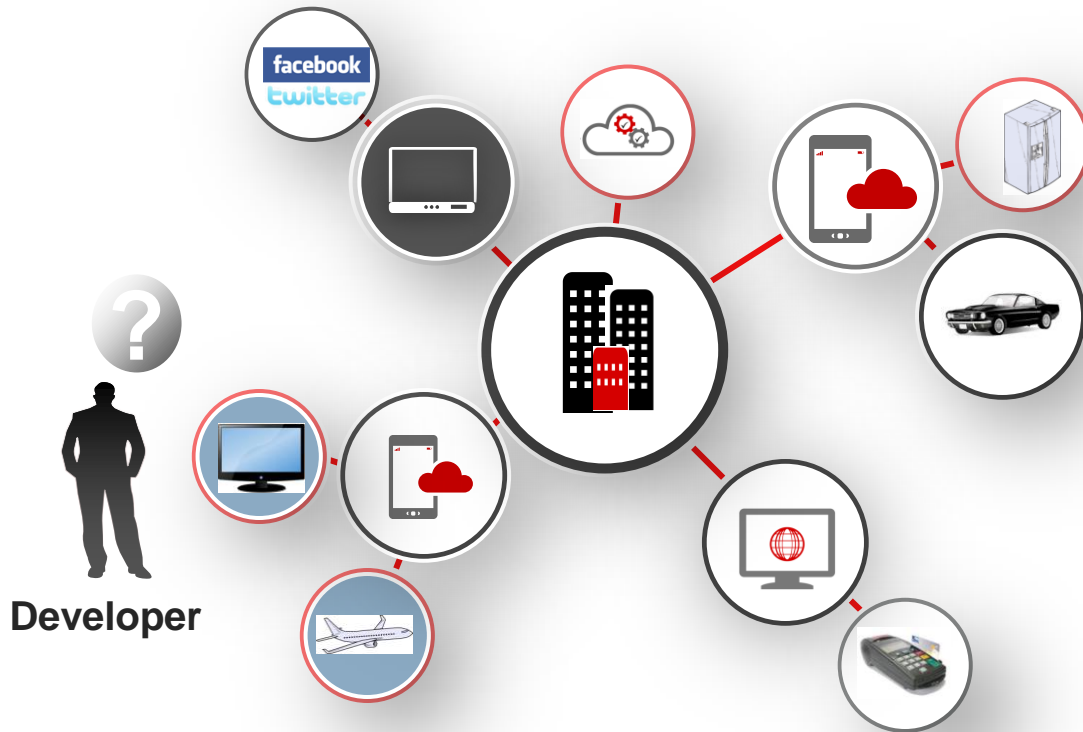
Source: Mobility Revolution Redux, March 2012

58% Building corporate app stores

Source: Partnerpedia Survey, Aug 2011

MOBILE SECURITY STARTS FROM INSIDE

Mobile Identity & Access Challenges

Developer

- Limited resources to support chatty clients
- No SSO across native mobile applications
- Challenging to secure access to data stored on legacy systems
- Risky to allow business transactions from untrusted devices

ORACLE

Guess: The cost of remediating a breach exceeds the cost of preventing a breach by…..

10X

We need to start taking a proactive approach to security!!!

ORACLE

Identity Theft	Quality of Service	Data Security & Integrity	Regulatory Compliance
SS #s	Denial of Service	Collaboration	PII
Credit Card Info	Fraud	Privacy	PCI
Personal Profile			NIST Security Model
			IRS 1075
			HIPPA/HITECH

BUSINESS **CHALLENGES** HAVE **EVOLVED**

This document is for informational purposes. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle. This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. This document and information contained herein may not be disclosed, copied, reproduced or distributed to anyone outside Oracle without prior written consent of Oracle.   This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

MOBILE ACCESS INFRASTRUCTURE OUTDATED

Proprietary

VPN Based

Brittle

Client Server

Point 2 Point Inflexible

Fragmentation

Hard Coded

Expensive

Maintenance

Not Scaleable

First Generation

Status Quo

Internal Users Only

Slow

Integration

Custom

Legacy

Rigid
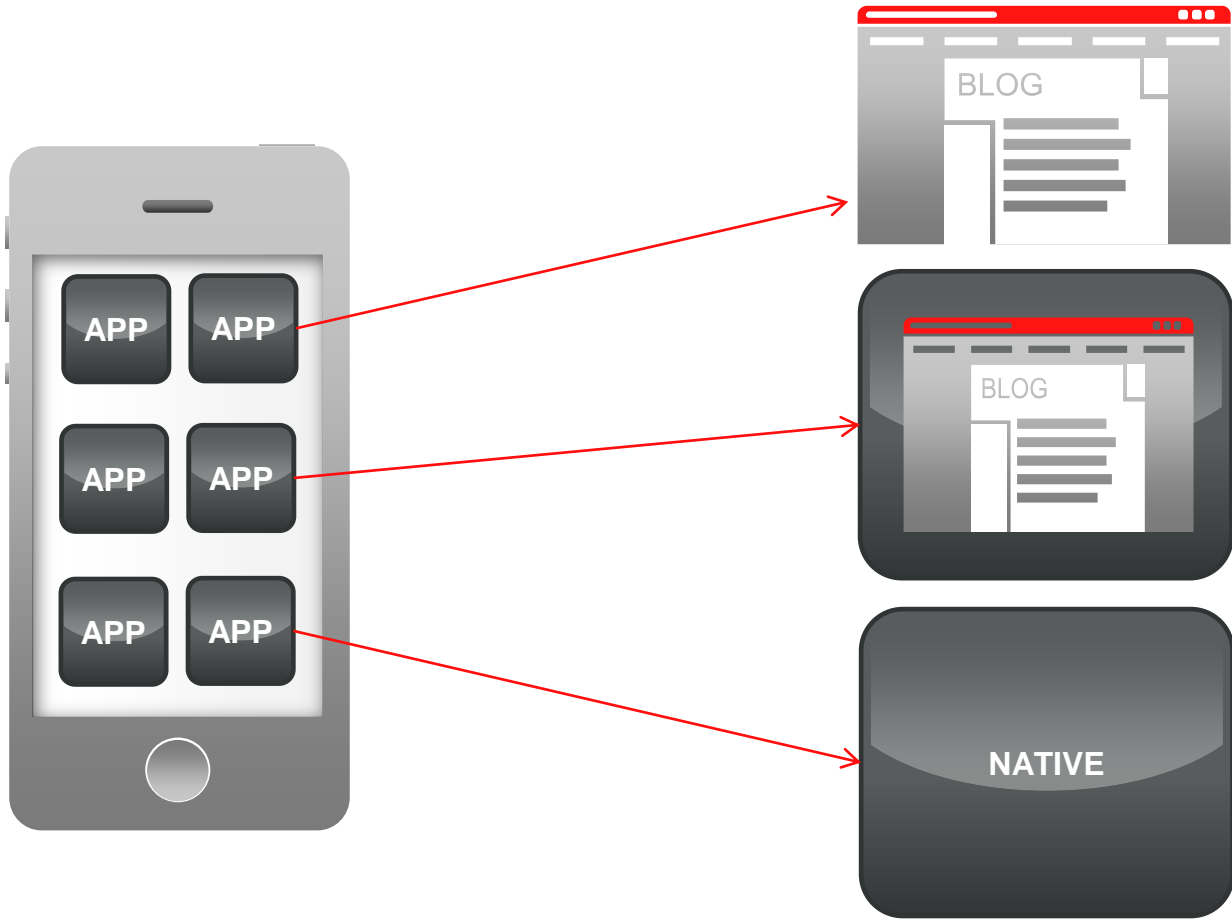
ORACLE

State-full Cross-network

Lower Energy Usage

Device Independent

REST INTERFACES
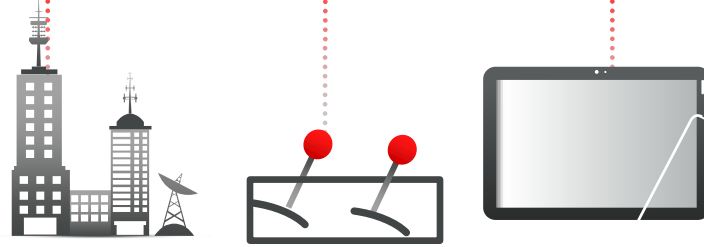
REST SIMPLIFIES MOBILE APPS

ORACLE

Corporate DMZ

Corporate Network

Mobile Browser

Webgate

OAM Protected Resource

Oracle Access Manager

API Gateway

Native Application

Mobile and Social

Data Interfaces /
Oracle Entitlements Server

Directory Services

Mobile Security Policy

REAL EXAMPLE CONNECTING COLLEGE TEST PREP STUDENTS

Name:

College:

Major:

Minor:

Graduation Date:

Student Advisor:

High School:

Test Date:

Submit

or…

f Login with Facebook

ORACLE
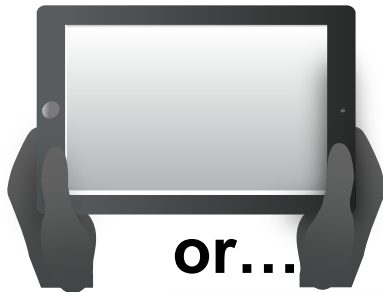
Blacklist Devices ☑

Better Experience ☑

Single Point of Revocation ☑

MONITORING & REPORTING

IMMEDIATE VISIBILITY

Alerts

Location

Risk

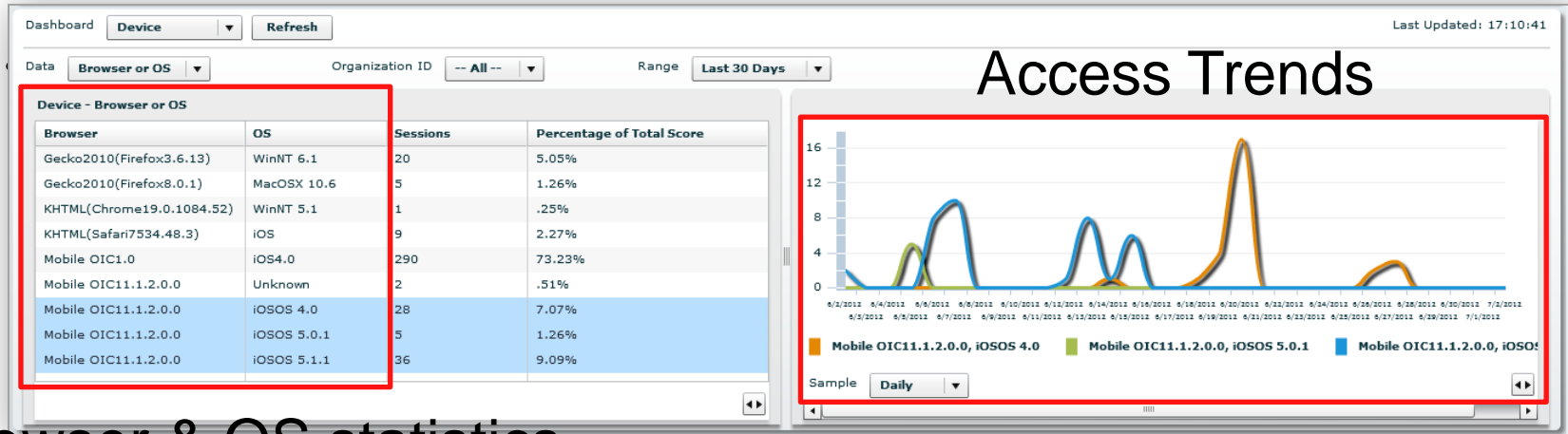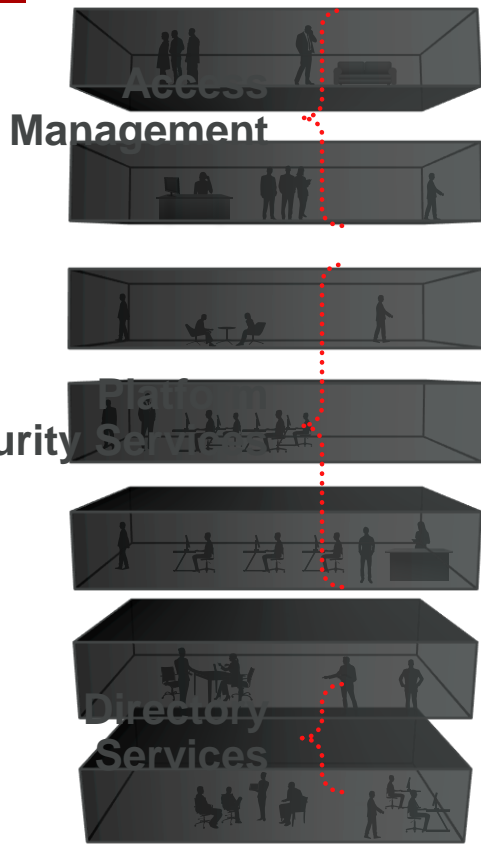| Row	Session ID	Alerts	User Name	Device ID	Device Type	Client Application Name	Longitude	IP Address △▽	Location	Authentication Status	Session Date	Post authentication Score	Post authentication Action
6	104		...ed	103	Mobile device	OICSecurityApp	40.68906	103.37.240.35	United States, Cali...	Success	6/27/2012 4...	0	Allow
7	103		...ates	103	Mobile device	OICSecurityApp	40.68906	124.240.10.37	United States, Cali...	Success	6/27/2012 4...	300	Challenge
8	102	Medium Alerts: (1)	...rivat1	102	Mobile device	OICSecurityApp	46.68906	10.240.37.124	Private, Private, P...	Blocked	6/27/2012 2...	1000	Block
9	101		...srm1	101	Mobile device	OICSecurityApp	40.89906	130.35.103.33	United States, Cali...	Pending	6/27/2012 2...	300	Challenge

Dashboard: **Device** ▼ | **Refresh** | Last Updated: 17:10:41

Data: Browser or OS ▼ | Organization ID: -- All -- ▼ | Range: Last 30 Days ▼

Access Trends

Device - Browser or OS

Browser	OS	Sessions	Percentage of Total Score
Gecko2010(Firefox3.6.13)	WinNT 6.1	20	5.05%
Gecko2010(Firefox8.0.1)	MacOSX 10.6	5	1.26%
KHTML(Chrome19.0.1084.52)	WinNT 5.1	1	.25%
KHTML(Safari7534.48.3)	iOS	9	2.27%
Mobile OIC1.0	iOS4.0	290	73.23%
Mobile OIC11.1.2.0.0	Unknown	2	.51%
Mobile OIC11.1.2.0.0	iOSOS 4.0	28	7.07%
Mobile OIC11.1.2.0.0	iOSOS 5.0.1	5	1.26%
Mobile OIC11.1.2.0.0	iOSOS 5.1.1	36	9.09%

■ Mobile OIC11.1.2.0.0, iOSOS 4.0   ■ Mobile OIC11.1.2.0.0, iOSOS 5.0.1   ■ Mobile OIC11.1.2.0.0, iOSO!

Sample: **Daily** ▼

Browser & OS statistics

ORACLE

Device Tracking

Device Registration

White\Black List

GPS & WIFI Location

KBA & OTP

User Registration

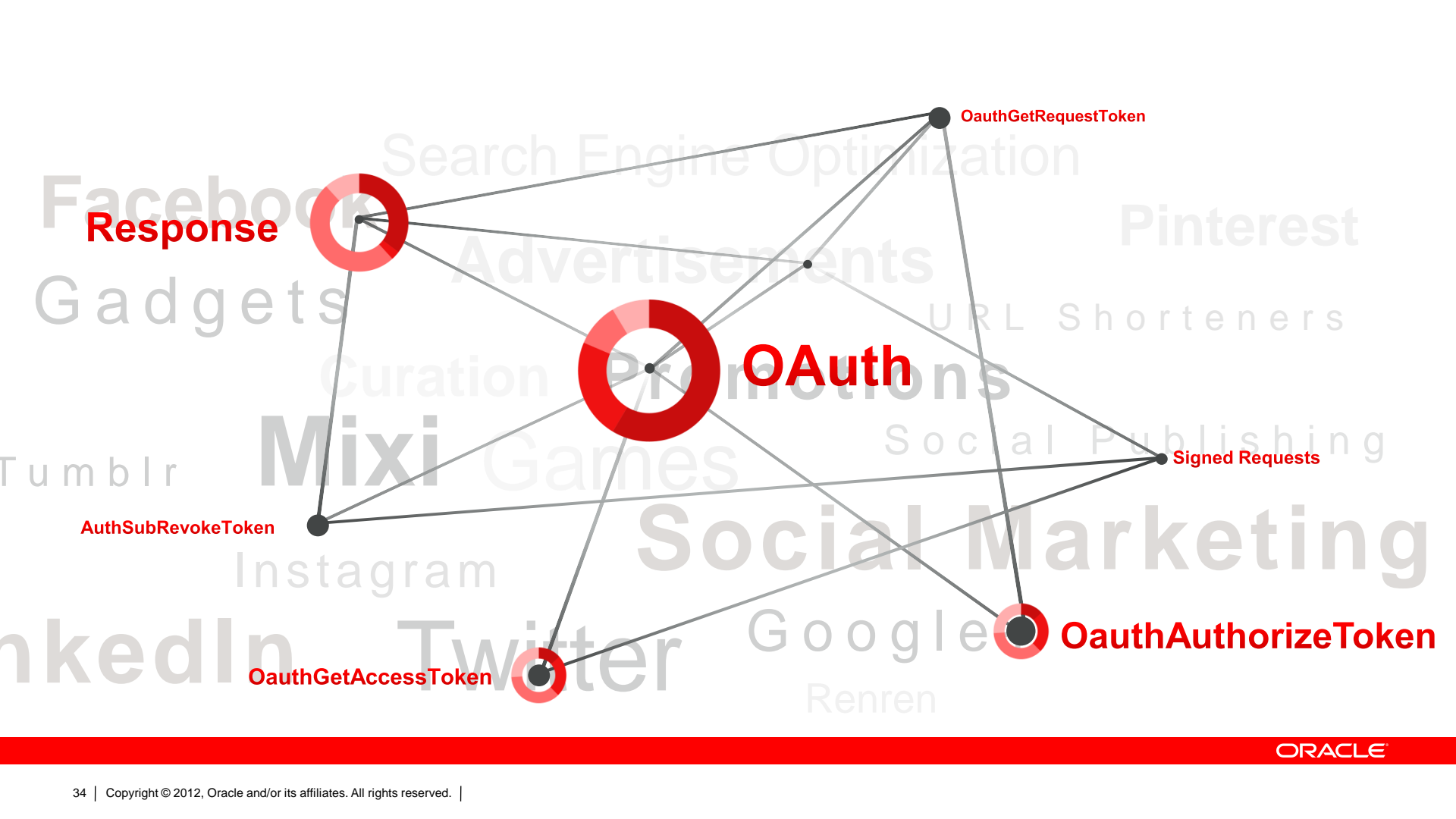White Pages

Access Management

Platform Security Services

Directory Services

Mobile Interfaces

Mobile Identity Management Architecture
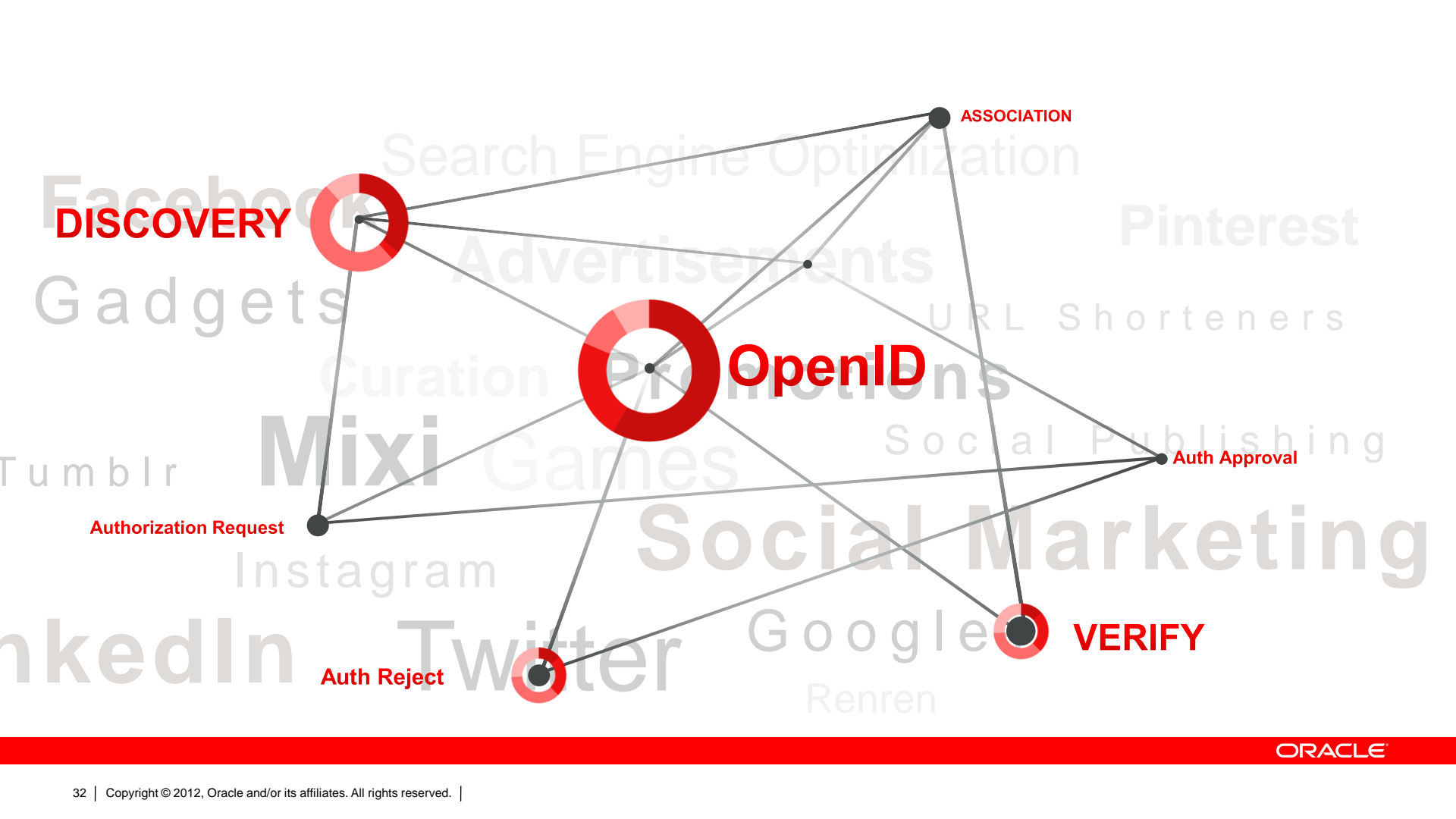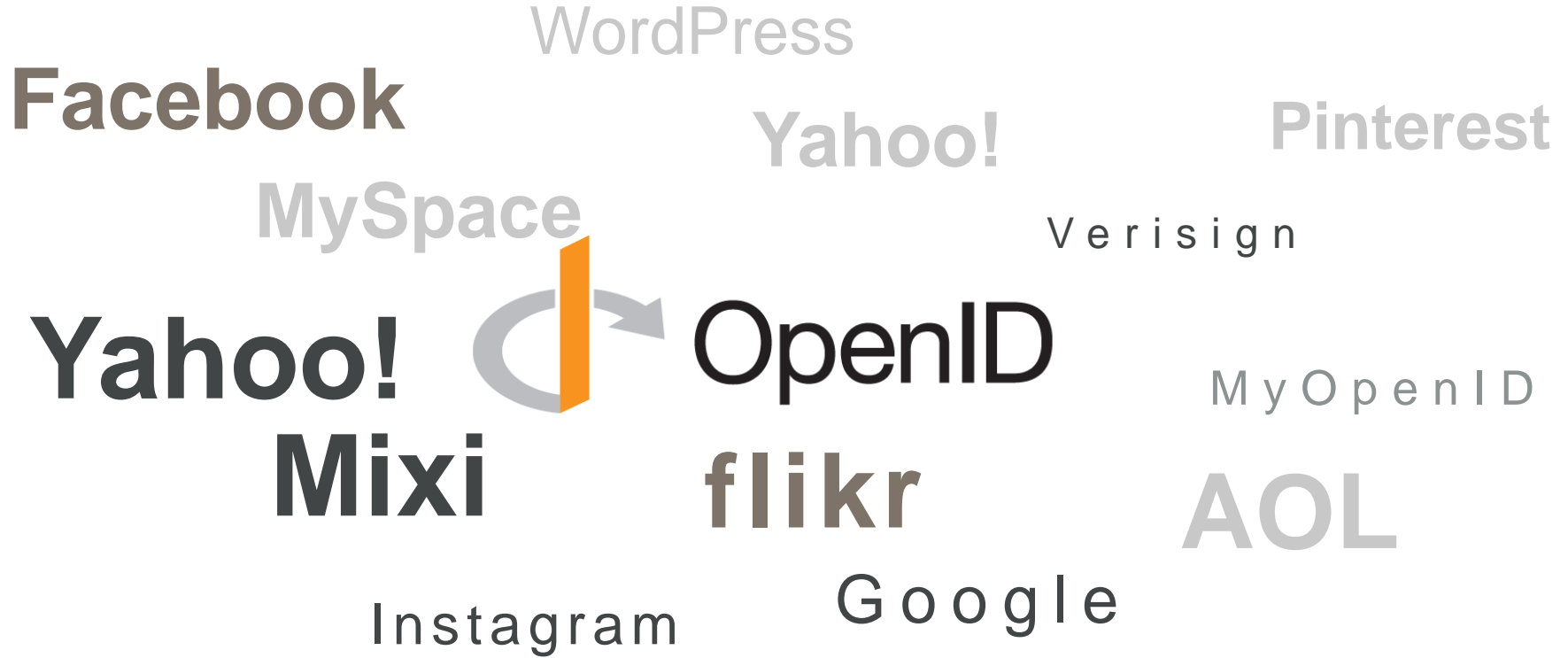
ORACLE

Copyright © 2012, Oracle and/or its affiliates. All rights reserved.

ORACLE

ORACLE

ORACLE

CURRENT INFRASTRUCTURE WON'T SCALE

....

REST SIMPLIFIES THE INTERACTION

....

A COMPLETE MOBILE IDENTITY ARCHITECTURE

Questions?

ORACLE