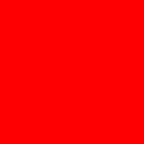




ORACLE®

Oracle Identity And Access Management

Gautam Gopal, MSIST, CISSP
Senior Security Sales Consultant
Oracle Public Sector



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. 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 for Oracle's products remain at the sole discretion of Oracle.

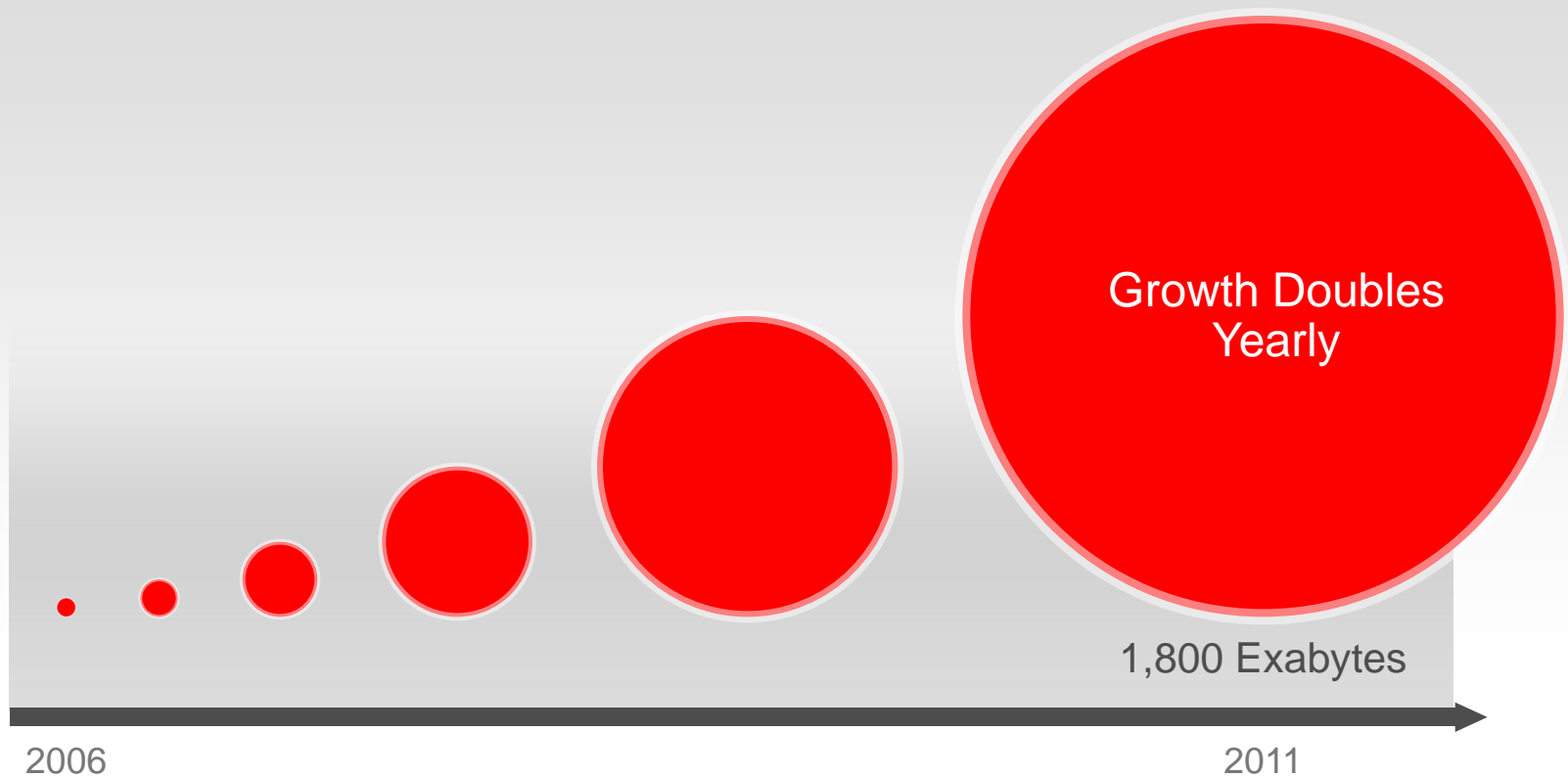
Agenda

- Problem statements
- Oracle and Enterprise Security
- Oracle and Identity Management
- Customer Case Studies
- Industry validations

Problem Statements



More data than ever...



More threats than ever...



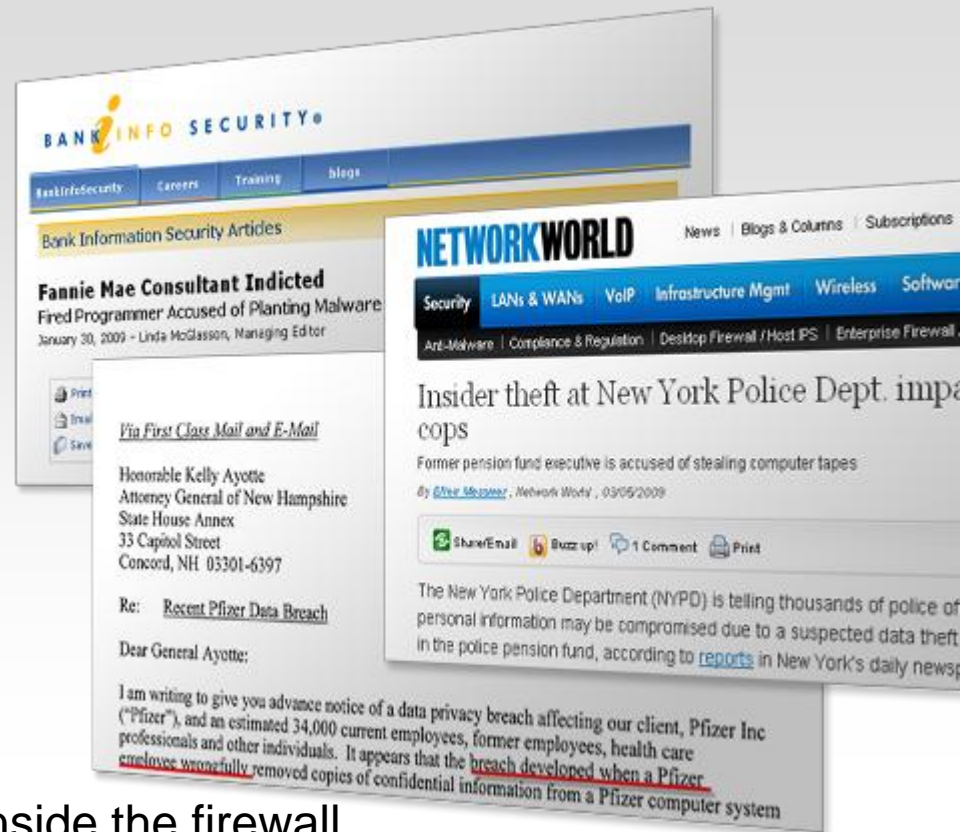
CyberInsecure.com
Daily Cyber Threats And Internet Security News Alerts

HOME ARCHIVES CONTACT ABOUT EMAIL SUBSCRIBE ADVERTISE

August 5th, 2008

Countrywide Financial Insider Steals And Sells Thousands Of Private Customer Records

The FBI on Friday arrested a former Countrywide Financial Corp. employee and another man in an alleged scheme to steal and sell sensitive personal information, including Social Security numbers, of as many as 2 million mortgage applicants. The breach in security, which occurred over a two-year



BANK INFO SECURITY
Bank Information Security Articles

Fannie Mae Consultant Indicted

Fired Programmer Accused of Planting Malware
January 30, 2009 - Linda McGlasson, Managing Editor

Via First Class Mail and E-Mail

Honorable Kelly Ayotte
Attorney General of New Hampshire
State House Annex
33 Capitol Street
Concord, NH 03301-6397

Re: [Recent Pfizer Data Breach](#)

Dear General Ayotte:

I am writing to give you advance notice of a data privacy breach affecting our client, Pfizer Inc ("Pfizer"), and an estimated 34,000 current employees, former employees, health care professionals and other individuals. It appears that the breach developed when a Pfizer employee wrongfully removed copies of confidential information from a Pfizer computer system

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Security | LANs & WANs | VoIP | Infrastructure Mgmt | Wireless | Software
Anti-Malware | Compliance & Regulation | Desktop Firewall / Host PS | Enterprise Firewall

Insider theft at New York Police Dept. impa cops

Former pension fund executive is accused of stealing computer tapes
By [Steve Mizer](#), Network World, 03/05/2009

ShareEmail Buzz up 1 Comment Print

The New York Police Department (NYPD) is telling thousands of police of personal information may be compromised due to a suspected data theft in the police pension fund, according to [reports](#) in New York's daily news

70% attacks originate inside the firewall

90% attacks perpetrated by employees with privileged access

Higher Costs Than Ever...

- User Management Costs
- User Productivity Costs
- Compliance & Remediation Costs
- Security Breach Remediation Costs



It Adds Up

Business Requirements for IT Security



Managing
Security & Risk



Increasing
Business Value



Sustaining
Compliance

State of Security Solutions Today



- **Fragmented**

- Multiple solutions which lack integration
- Lack of open standards



- **Bolted On**

- Security added to applications as after-thought
- Insufficient tooling and support for application development



- **Proprietary and Outdated**

- Complexity in ongoing maintenance
- Incapable of supporting modern IT initiatives

A New Approach is Needed

Modern Security Architecture

- Meet modern IT requirements
- Services, Cloud Computing, Extranet Scale



Integrated & Flexible

- Easy to deploy, easy to manage
- Enable agile IT for dynamic business

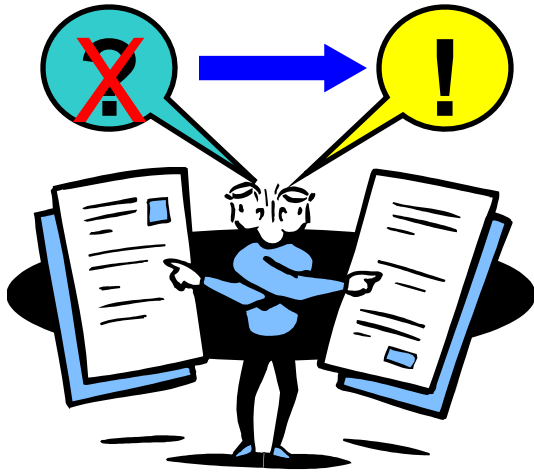


Intelligent Compliance

- Minimize compliance costs
- Increase governance and visibility

How Can Identity Management Help?

Establish Enterprise Identity & Roles



- Consolidate or virtualize multiple, complex identity environments to a single enterprise identity source
- Automate linkage of employee records with user accounts
- Establish enterprise roles for automation, compliance and business continuity
- Eliminate rogue and orphaned accounts

How Can Identity Management Help?

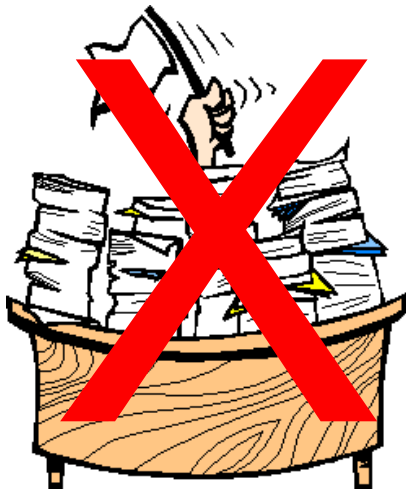
Enforce Strong And Granular Security Policies



- Enforce strong password policies via synchronization or single sign-on (SSO)
- Implement strong authentication and risk based authorization for critical apps and web services
- Enforce minimal access rights based on roles, attributes, and requests
- Leverage federation technologies for cross-domain SSO

How Can Identity Management Help?

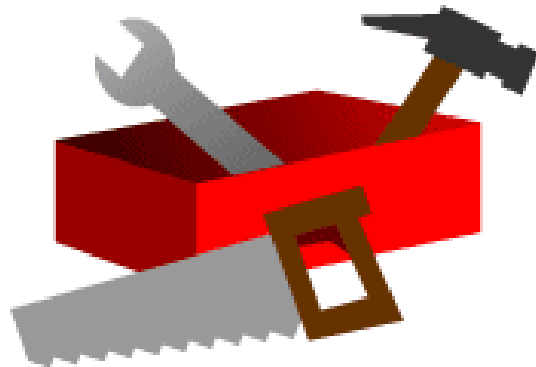
Define Audit And Control Framework



- Implement automated attestation for entitlements, roles, policies, workflows....
- Implement exception driven process automation
- Implement segregation of duties around roles and entitlements
- Implement automation and controls for management of privileged users

How Can Identity Management Help?

Deploy A Scalable Integration Architecture

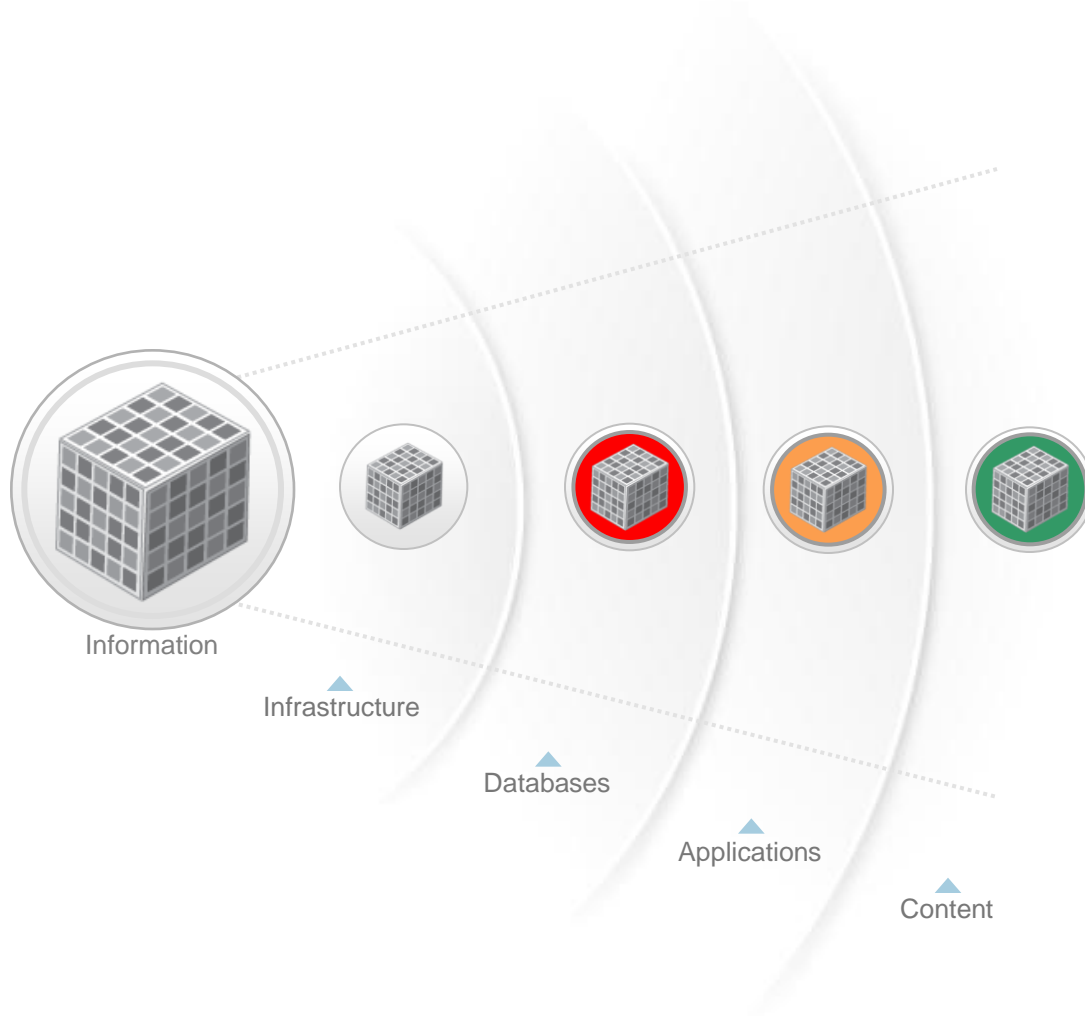


- Define an enterprise-wide integration standard
- Leverage all integrations through a single interface / application
- Heavily leverage open standards to protect IT investments
- Maximize out-of-the-box integrations across technology stacks: applications, middleware, database and operating systems

Oracle and Enterprise Security



Oracle Security Inside Out



Database Security

- Encryption and Masking
- Privileged User Controls
- Activity Monitoring and Audit
- Secure Configuration

Identity Management

- User Provisioning
- Role Management
- Entitlements Management
- Risk-Based Access Control
- Virtual Directories

Information Rights Management

- Document-level access control
- All copies, regardless of location (even beyond the firewall)
- Auditing and revocation

Information Centric Security Solutions



Content

**INFORMATION
RIGHTS
MANAGEMENT**

Centralized Document
Access Control

Revocation (Digital
Shredding)

Document Activity
Monitoring and Audit



Applications

**IDENTITY
AND ACCESS
MANAGEMENT**

Identity
Administration

Directory Services

Access
Management

**DATABASE
SECURITY**

Activity Monitoring

Access Control and
Authorization

Encryption and
Data Masking



Databases

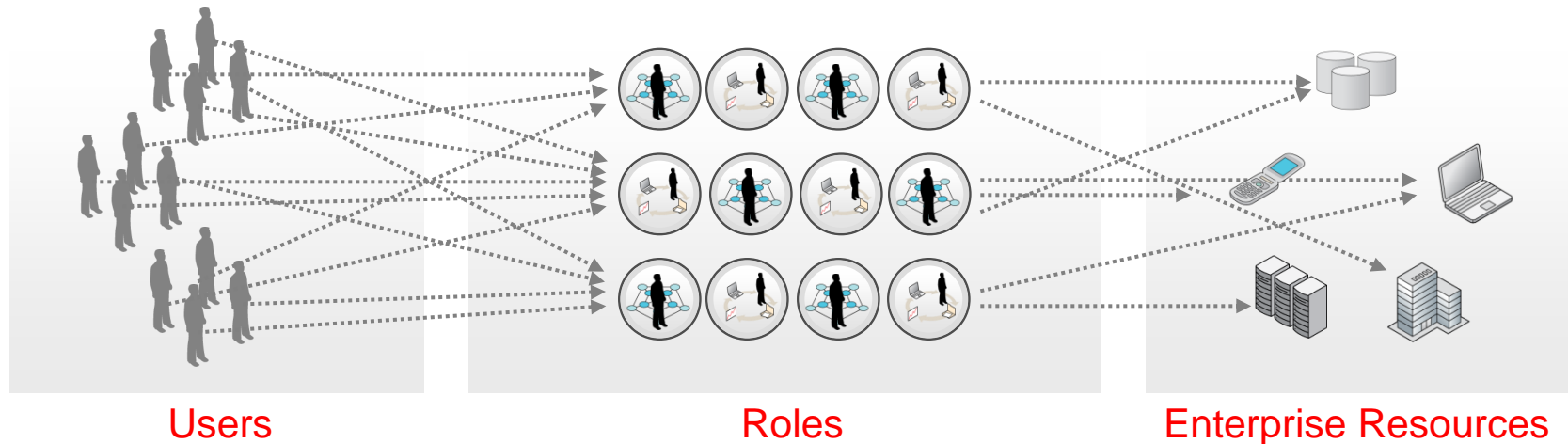
Oracle and Identity Management



Oracle's Identity Management Portfolio

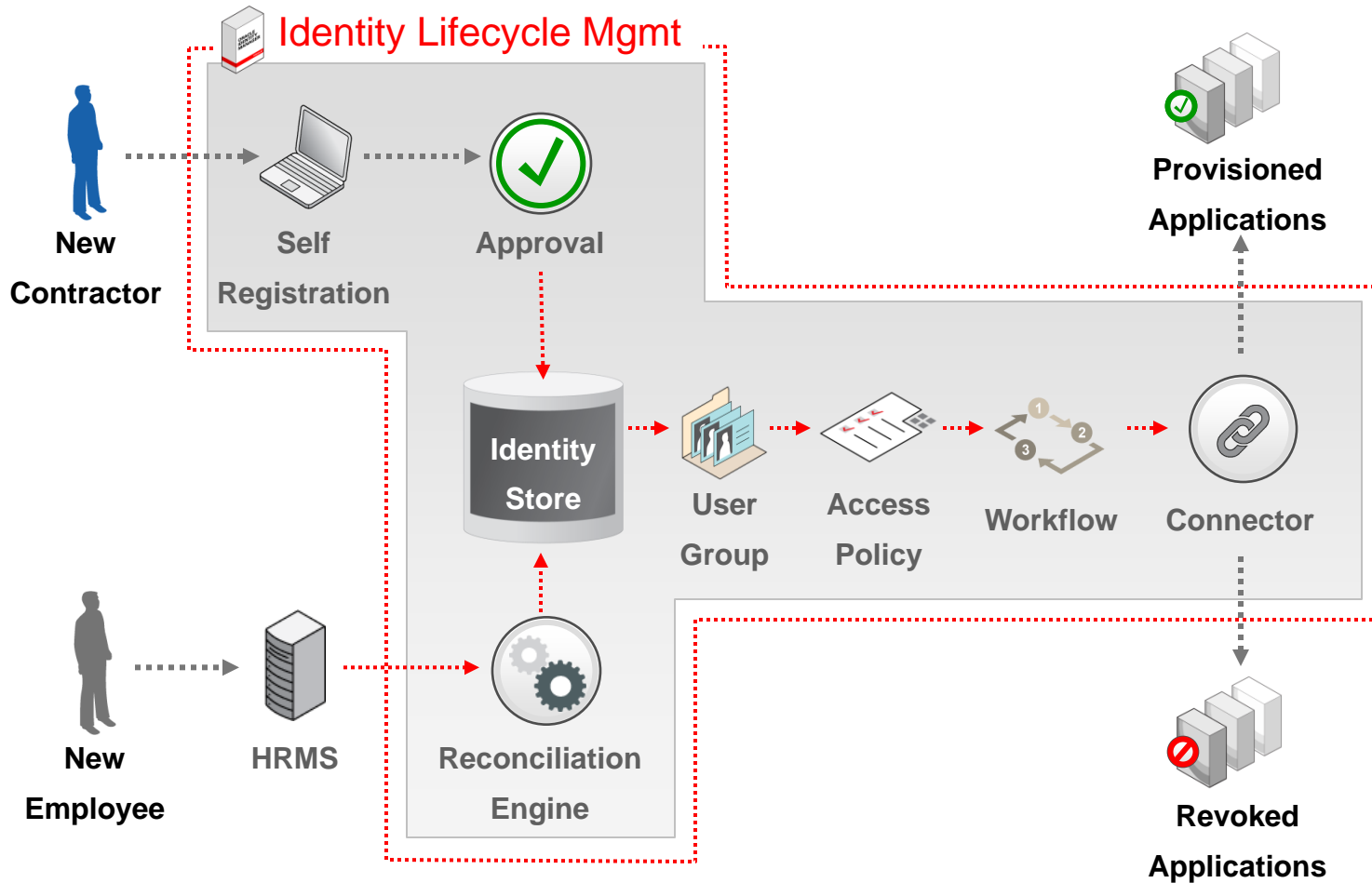
Identity Administration	Access Management*	Directory Services
Identity Manager	Access Manager Adaptive Access Manager Enterprise Single Sign-On Identity Federation Entitlements Server	Directory Server EE Internet Directory Virtual Directory
Identity & Access Governance		
Identity Analytics		
Platform Security Services		
Operational Manageability		
Management Pack For Identity Management		

Oracle Identity Administration

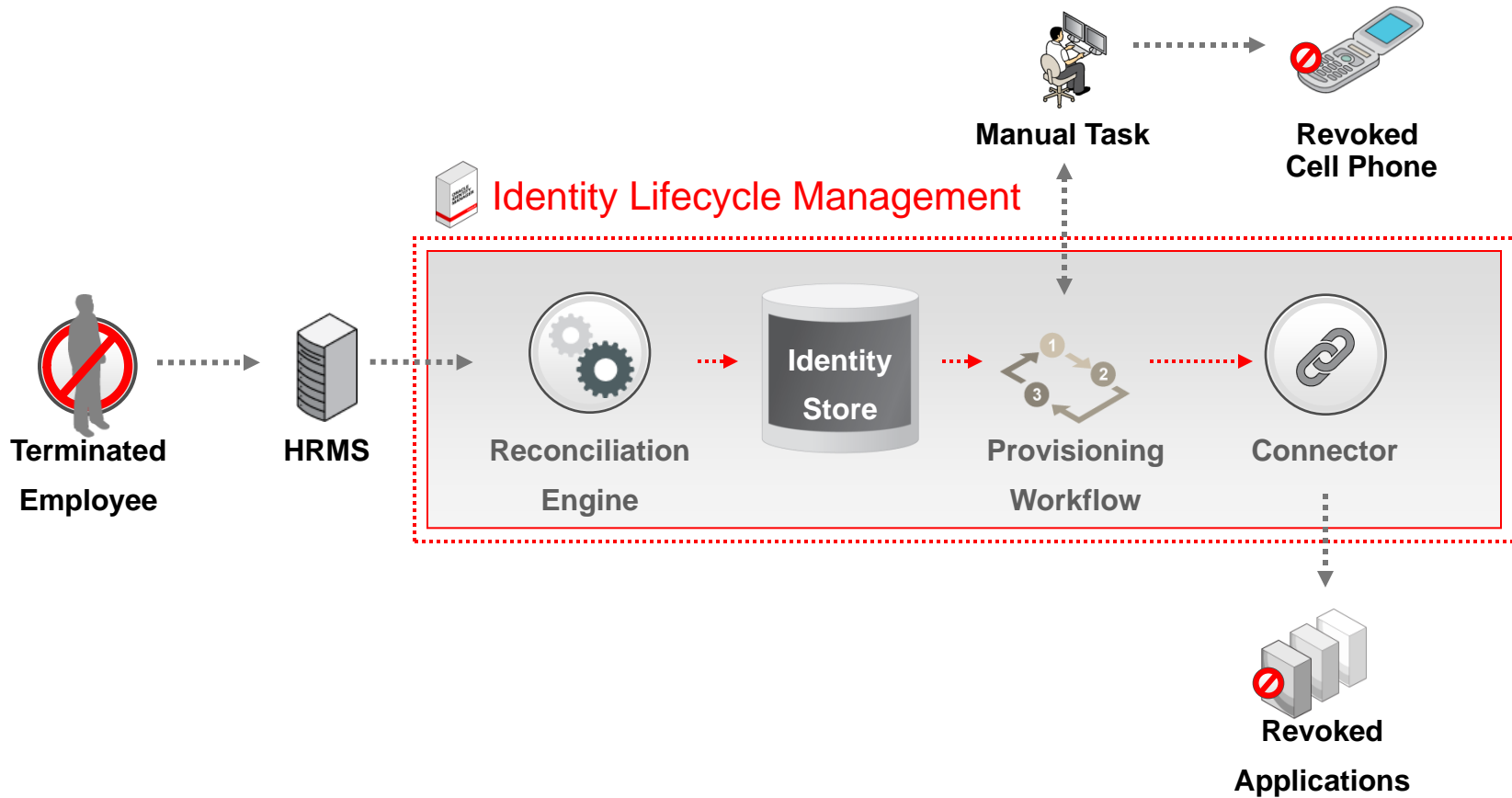


- Tens of thousands of users with hundreds of entitlements
- Automate Provisioning / Deprovisioning
- Identify orphaned accounts
- Report on “Who has access to what”
- Self-service requests & Delegated Administration

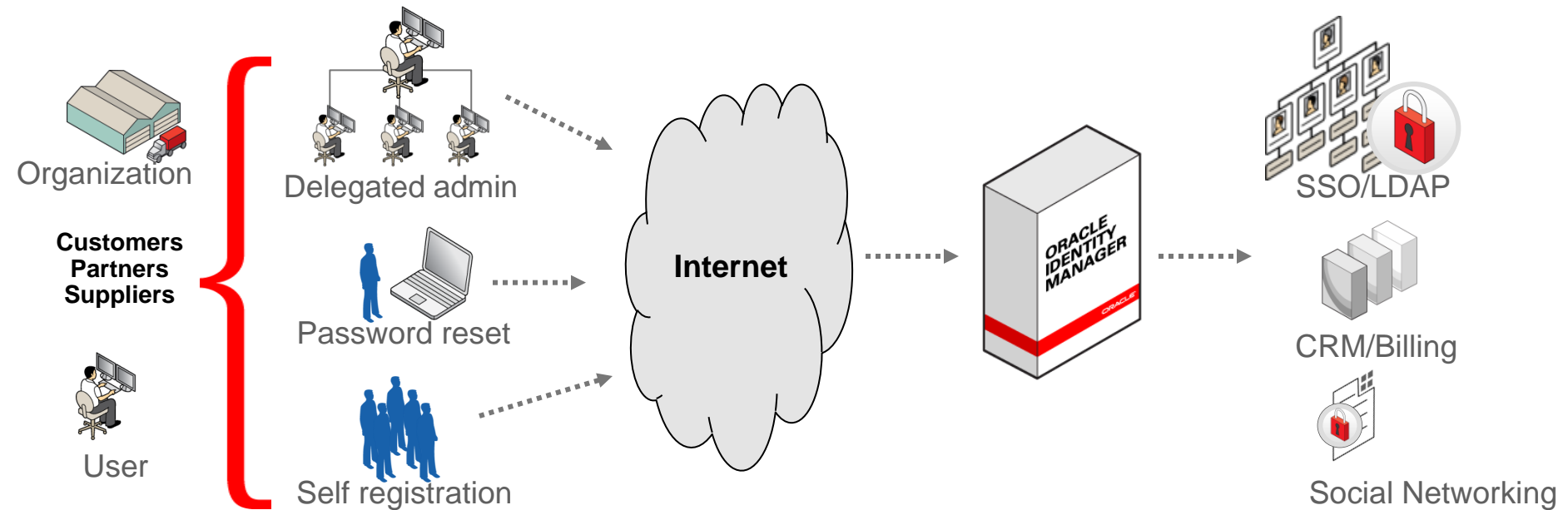
Policy based Provisioning



Automated De-Provisioning



Extranet Provisioning



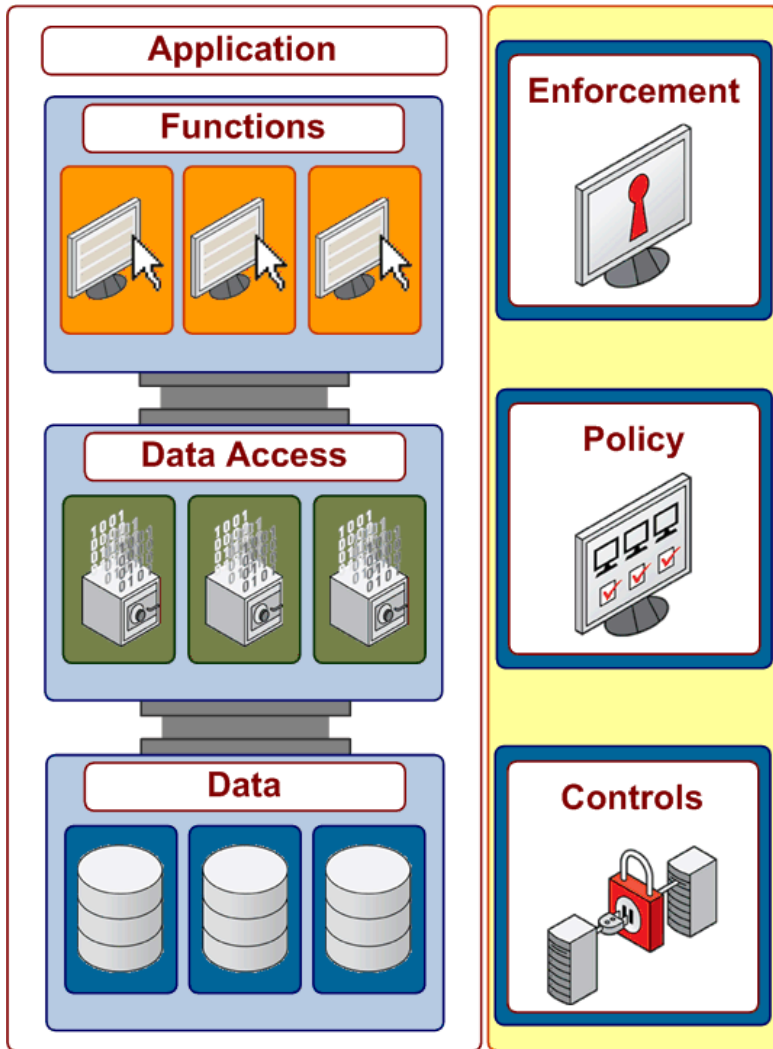
- Millions of users and hundreds of organizations but simpler provisioning policies
- User/company registration, account and password management
- Multi-tier delegated administration and compliance reporting

Oracle Access Management



- Comprehensive security for applications, data, documents, web services
- End-to-end authentication, single sign-on, and fine grained application protection
- Innovative anomaly detection, transaction security, and secondary authentication
- Extensive 3rd party integrations

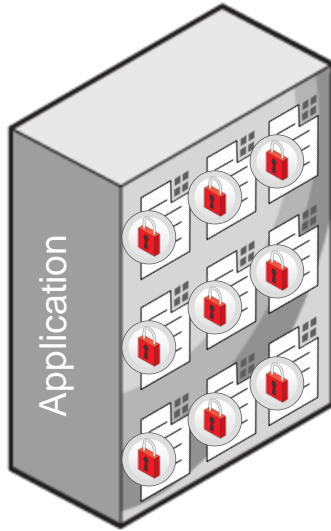
Security for Applications



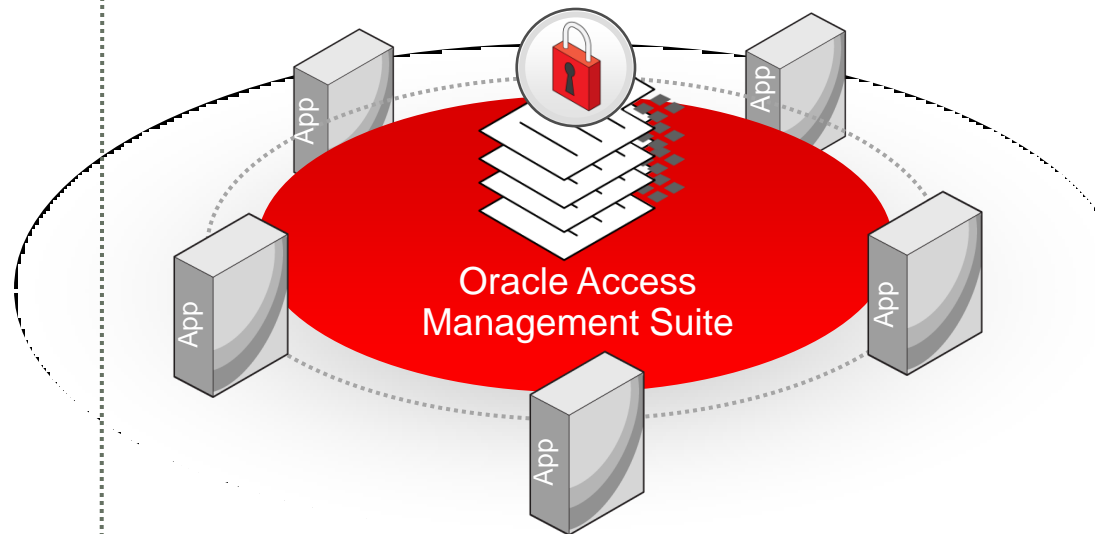
- Consolidated application security policy
- Enforcement across application and data tiers
- Fine grained authorization
- Anomaly and risk based authentication & authorization

Entitlements Management

Before



After

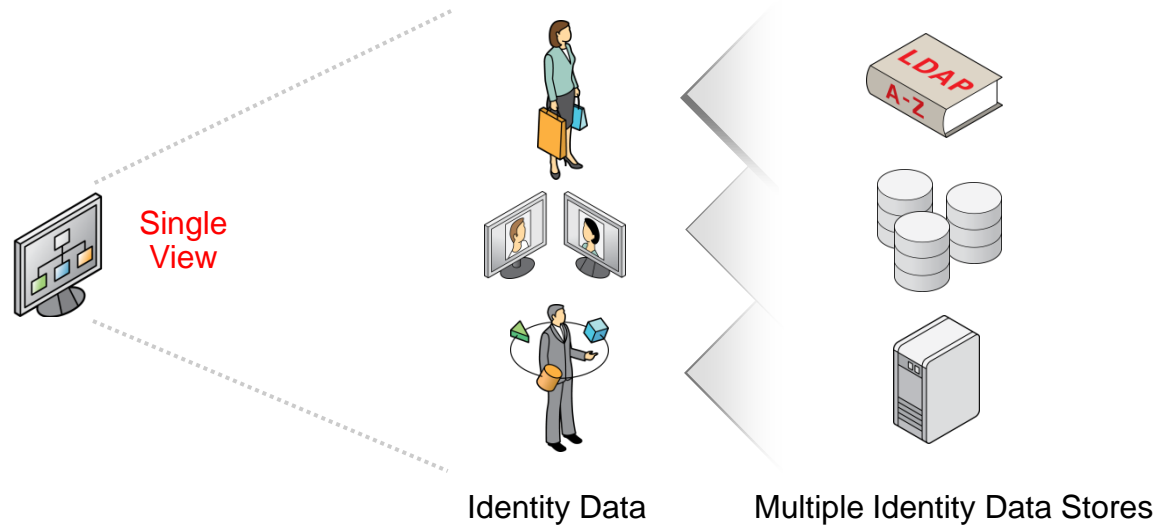


- Hard-coded security policies
- Brittle policy management
- Application policy silos

- Externalized entitlements
- Agile business policies
- Centralized policy management

Centralize Identity Data

Oracle Virtual Directory



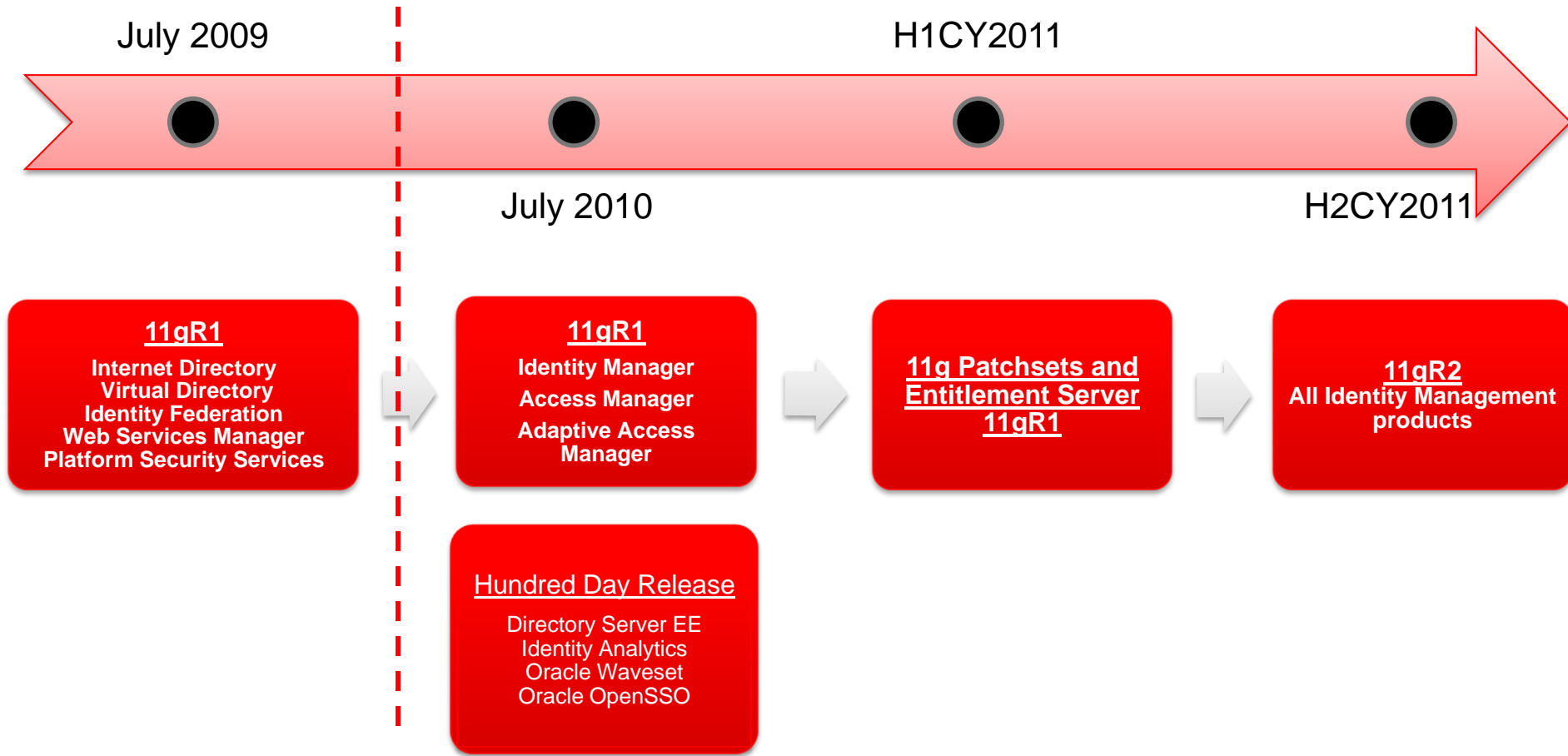
- Virtual consolidated view of identity silos
- Real-time identity data integration
- Accelerated applications deployment
- Eases pain of directory consolidation

Integration of Sun Identity Management

- Integration with Oracle Identity Management
- Integration with Oracle Fusion Middleware
- Certifications across all Oracle platforms (DB, OEL, WLS) for all Sun products
- Continued investment in performance tuning and sustaining engineering across all Sun products



Oracle Identity Management Roadmap Timelines



Sun Acquisition

Customer Case Studies



Case Study – US Postal Service

Reduced Help Desk Calls and IT Costs



Business Challenges

- Provide eSSO to thousands of applications of all types to over 160,000 employees
- Reduce helpdesk calls and IT costs
- Integration with Microsoft Windows Authentication and Microsoft Active Directory

Oracle Solution

- Passlogix v-GO SSO (Oracle eSSO Logon Manager)
- Initial configuration completed within 30 days of contract award
- Fully deployed in under 1 year with less than 3 FTE

Return On Investment

- Users need only to log on once – to Windows
- Secure access for all MS Windows, Web, Telnet, Java, homegrown and host-based applications

Case Study – State of DE

Improved Security & Efficiency



Business Challenges

- DTI wanted to provide 12,000 state employees with self service HR capability.
- Wanted to initiate eGovernment efforts to offer Delaware residents the ability to do common online tasks.
- Most of the self service tasks were manual and paper/fax based.

Oracle Solution

- Oracle Access Manager, Oracle Virtual Directory, and OID chosen May 2006
- 150K External Users, 12K Internal Users
- Oracle Solution works with IBM WebSphere mid-tier and PeopleSoft HR
- Oracle was able to demonstrate a web services based identity management solution

Return On Investment

- User self service expected to lower cost and improve user adoption
- Improved security and efficiency by migrating manual self service tasks to an automated system

Case Study – State of Minnesota

HIPAA Compliant



Business Challenges

- Minnesota's Department of Human Services (DHS) 30,000 medical providers and 80,000 users submit electronic claims. These must be secured to comply with federal HIPAA regulations
- Management overhead of all users is tremendous as providers and users change regularly

Oracle Solution

- State of Minnesota selected Oracle Access Manager
- Secure access claims submission portal, using audit and log capabilities
- Superior workflow capabilities for setting up users in Microsoft Exchange and Active Directory
- Powerful delegated administration features

Return On Investment

- Medical claims are secure and processed more quickly
- State of Minnesota is "HIPAA compliant"

Industry Validation



Short List: Burton Group Market Insight

“Oracle is currently leading the provisioning market

- Provisioning Market 2009 report

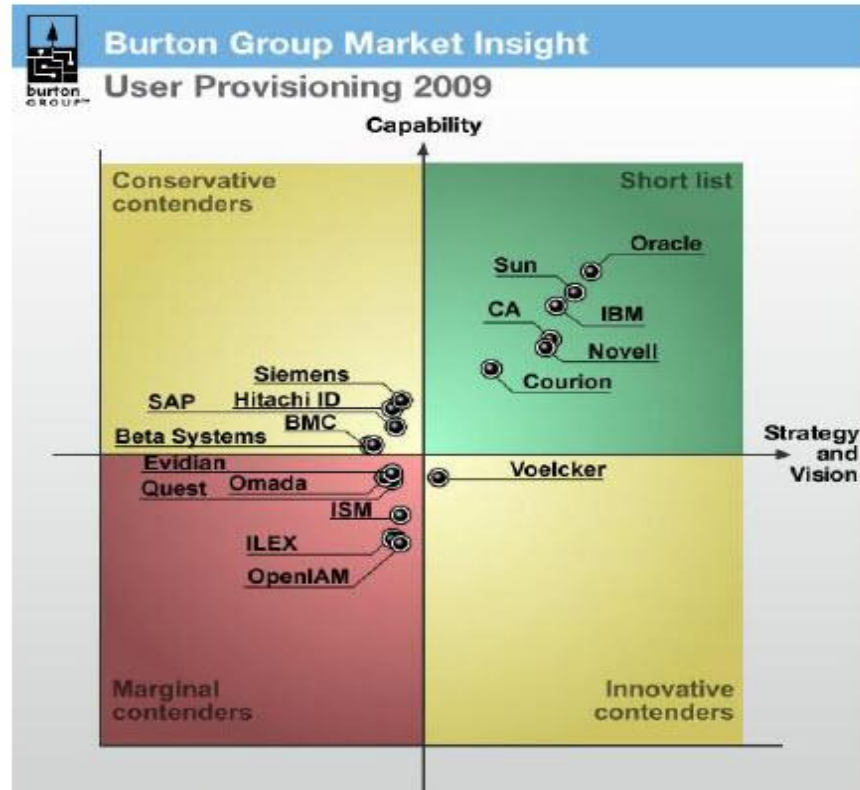
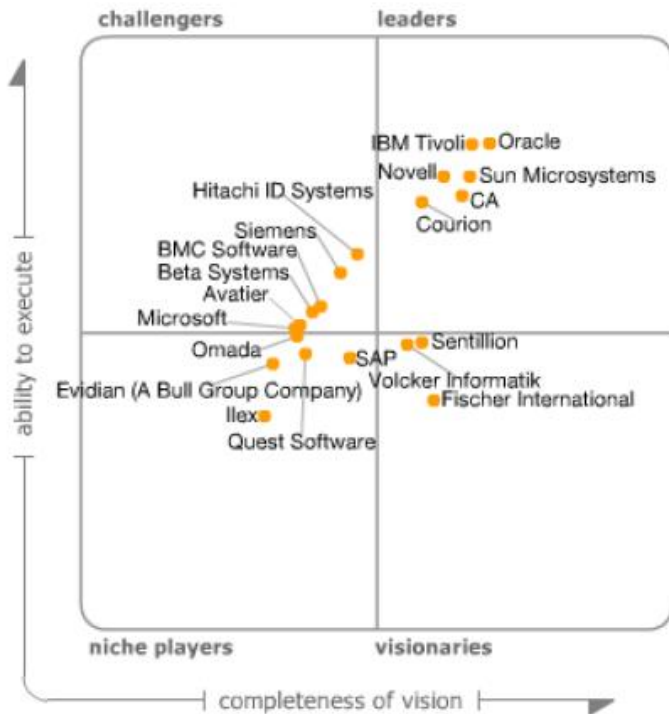


Figure 4: 2009 User Provisioning Market Insight Diagram

A Leader in Gartner Magic Quadrants

2009 Magic Quadrant for User Provisioning



As of Sept. 30th 2009

2009 Magic Quadrant for Web Access Management



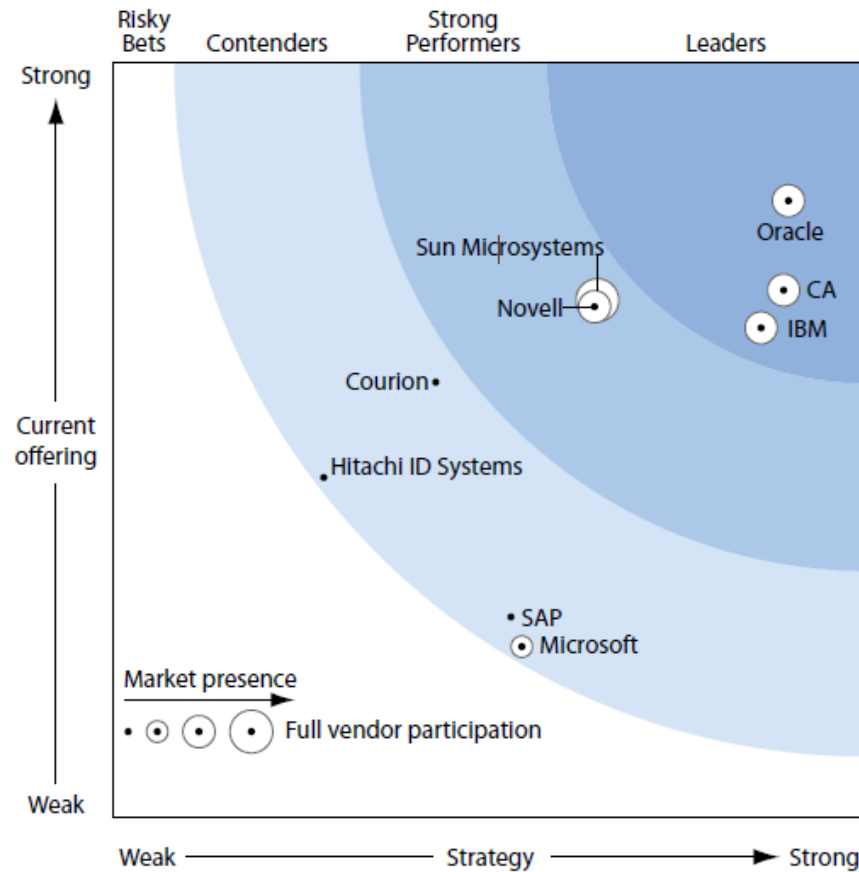
As of Nov. 12th 2009

ORACLE

A Leader in Forrester Wave:

Identity and Access Management, (November 2009)

Figure 2 Forrester Wave™: Identity And Access Management, Q4 '09



Source: Forrester Research, Inc.

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For More Information

search.oracle.com

Identity management



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