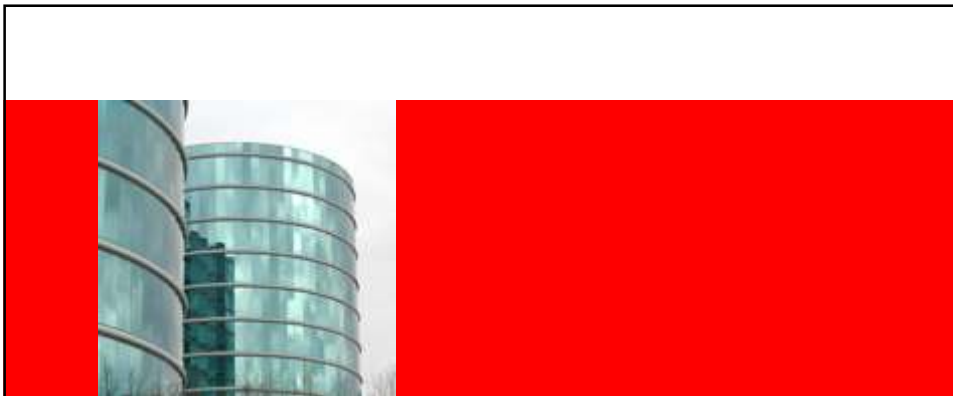


ORACLE®



ORACLE®

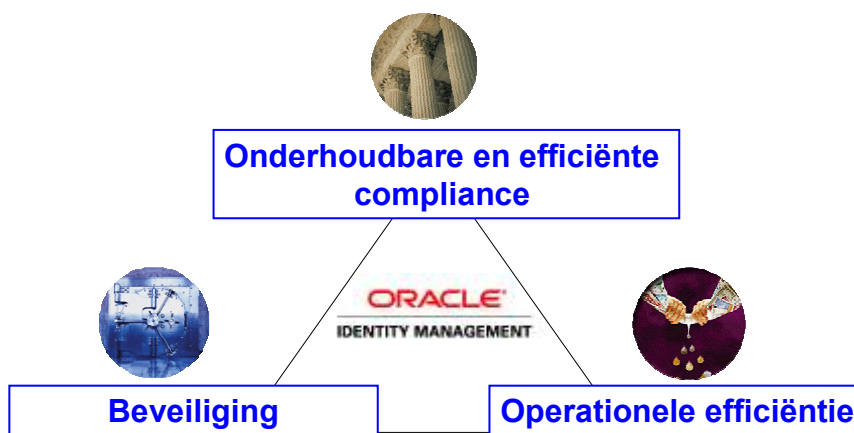
Identity & Access Management

Frank van der Borden
Principal Sales Consultant

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 remains at the sole discretion of Oracle.

ORACLE

Uitdagingen voor bedrijven



ORACLE

IdM Oplossing voor compliance problemen



- ✓ Dwingt scheiding van verantwoordelijkheden (SoD) af
- ✓ Beperkt toegang tot juiste personen
- ✓ Automatiseert toegangsbeheer
- ✓ Automatiseert hercertificatie en audit rapportage
- ✓ Toont “in controle zijn” aan



ORACLE

IdM Verhoogt Beveiliging



- ✓ Gecentraliseerde beheer beveiliging en toegangsbeleid
 - Consistent beleid afgedwongen op alle nivo's van bedrijf
 - Bedrijfsbrede inzicht in gebruikers, toegangsrechten en audit data
- ✓ Geautomatiseerde provisioning / de-provisioning
 - Rolgebaseerde provisioning en de-provisioning
 - Geautomatiseerde wijzigingen getriggerd door status wijziging gebruikers
- ✓ Single Sign-On, Gedelegeerd beheer
 - Minder kans op wachtwoord misbruik
 - Delegeer beleidsbeheer naar business owners



ORACLE

IdM Verhoogt efficiëntie



- ✓ Bespaart gebruiker uren door onnodige wachtwoord activiteiten
 - Onderzoek Burton Group; 15 minuten per dag door applicatie logons (ca. 65 uur per jaar)
 - Onderzoek Network Application Consortium: gem. 44 uur per jaar bij gebruik van 4 applicaties
- ✓ Verlaagt de kosten van de Helpdesk door afname wachtwoord support
 - Studie Gartner: 25/35% van de Helpdesk calls zijn wachtwoord gerelateerd
- ✓ Verhoogde productiviteit
 - Reduceert tijd voor toegang tot systemen van dagen naar minuten
 - Geautomatiseerde provisioning - \$1250 per jaar per medewerker ROI¹
- ✓ Verhoogde IT Productiviteit
 - Ontwikkelaars herbruiken gecentraliseerde security functionaliteit
 - Versnelt applicatie deployments



1 - Burton Group Report August 2004

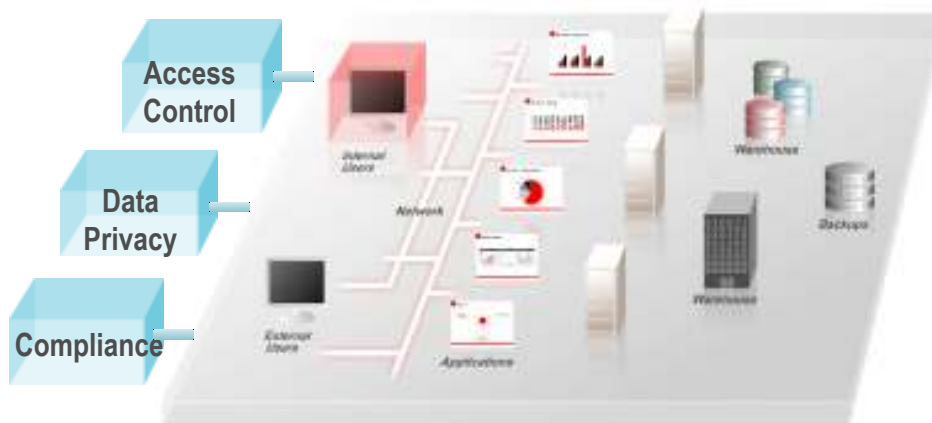
ORACLE

Oracle Security Strategy

Complete Suite Of Products

Integrated with Applications

Heterogeneous Open Standards



ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.

Access Management

Directory Services

"Identity Management 2.0"

Core Platform

LDAP storage
LDAP synchronization
OS authentication

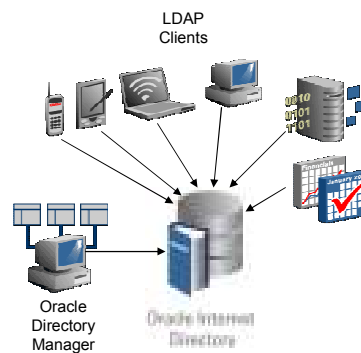
Audit & Compliance

Manageability

ORACLE

Directory

- Schaalbaar
- Hoge beschikbaarheid
- Flexibele deployment topologie
- Uitbreidbaar
- Veilig
- Beheerbaar
- Authenticatie services voor OS



ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.

Access Management

Directory Services

"Identity Management 2.0"

Identity virtualization

Core Platform

LDAP storage
LDAP synchronization
OS authentication

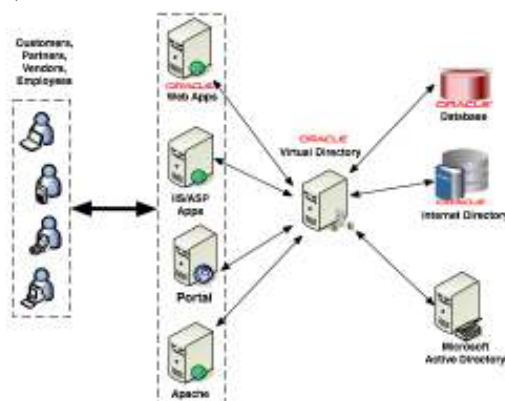
Audit & Compliance

Manageability

ORACLE

Virtuele Directory

- Standaard adaptoren (JDBC, LDAP)
- Web Services als bron
- eenvoudig uitbreidbaar
- Listeners (LDAP, HTTP)
- Snelle uitrol nieuwe applicaties
- Hergebruik bestaande bronnen
- Combineren van bronnen
- Geen synchronisatie nodig
- Voorkomt politieke discuss
- 'Directory Firewall'



ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.

Access Management

Directory Services

"Identity Management 2.0"

Identity virtualization

Core Platform

Identity lifecycle
Organization lifecycle
Provisioning & Reconciliation
Password management

LDAP storage
LDAP synchronization
OS authentication

Audit & Compliance

Manageability

ORACLE

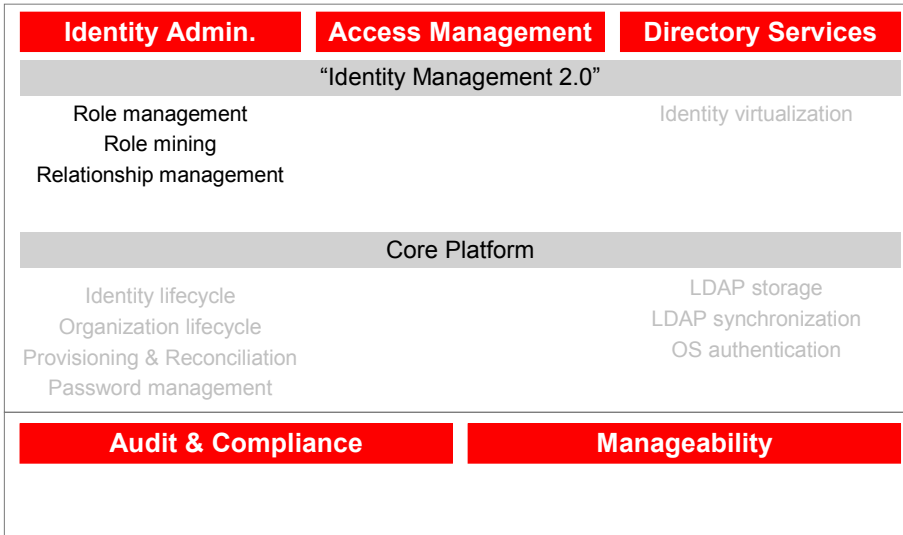
Levens Cyclus Identiteit



- Reconciliatie
 - Authentieke bronnen (HR?)
- Provisioning
- Joiner, Mover, Leaver
- Rapportage & Recertificatie
- Adaptor Factory
- Agentless Connectoren
- IT Rol beheer
- Approval workflows
- Provisioning workflows

ORACLE

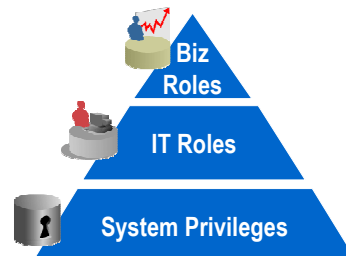
Oracle's Comprehensive IDM Solutions



ORACLE

Role management

- Role mining
- Rule mining
- Role management – Top down
- Eenvoudig in gebruik voor Business gebruikers
- SoD
- Polyarchie
- Approvals



ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.

Access Management

Directory Services

"Identity Management 2.0"

Role management
Role mining
Relationship management

Identity virtualization

Core Platform

Identity lifecycle
Organization lifecycle
Provisioning & Reconciliation
Password management

Authentication
Authorization
Single sign-on
Federation

LDAP storage
LDAP synchronization
OS authentication

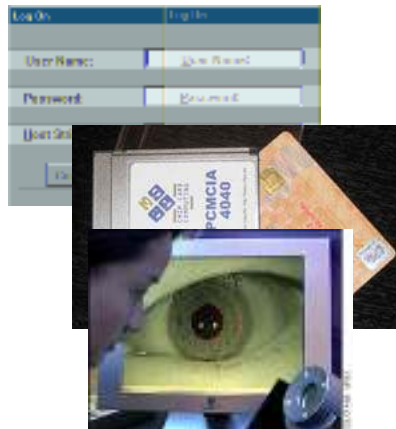
Audit & Compliance

Manageability

ORACLE

Identificatie & Authenticatie

- Kennis
 - wachtwoord
- Bezit
 - Smartcard
 - paspoort
 - rijbewijs
- PersoonsKenmerk
 - vingerafdruk
 - Irisscan



ORACLE

Autorisatie

- Wie mag wat
- Groep lidmaatschap
 - Statisch
 - Dynamisch
- Self Service
- Approval workflows
- Delegatie

ORACLE

Hoe wordt informatie benaderd/verspreid?

- Web
 - WAM
 - Voorkomen fraude (phishing, man-in-the-middle)
- Client/Server
- Terminal based
- Web Services (SOA)
- OS toegang (systeembeheer)



ORACLE

Gebruikersgemak

- Single Sign-On?
 - Web Applicaties
 - Client/Server & Terminal
- Federatief



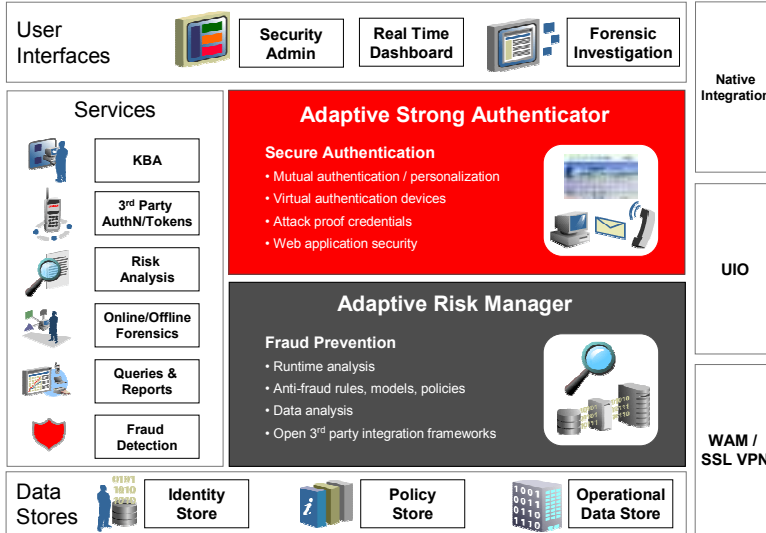
ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.	Access Management	Directory Services
"Identity Management 2.0"		
Role management Role mining Relationship management	Strong authentication Risk based authorization	Identity virtualization
Core Platform		
Identity lifecycle Organization lifecycle Provisioning & Reconciliation Password management	Authentication Authorization Single sign-on Federation	LDAP storage LDAP synchronization OS authentication
Audit & Compliance		Manageability

ORACLE

Sterke Authenticatie en Risk Management



ORACLE

ASA KeyPad “Personalization”



Time Stamp

Personalized Phrase

ORACLE

ASA KeyPad “Jitter”

A random data send every time it's used.



Watch the number one key

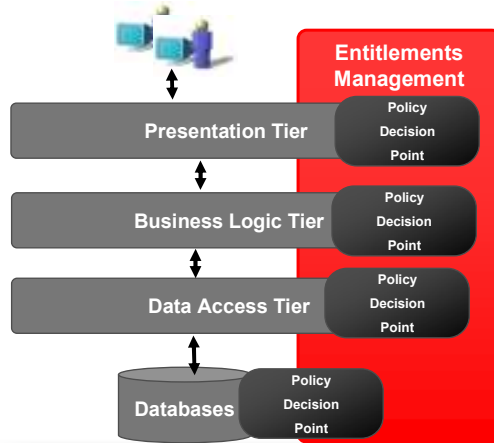
ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.	Access Management	Directory Services
“Identity Management 2.0”		
Role management	Strong authentication	Identity virtualization
Role mining	Risk based authorization	
Relationship management	Fine grained entitlements	
Core Platform		
Identity lifecycle	Authentication	LDAP storage
Organization lifecycle	Authorization	LDAP synchronization
Provisioning & Reconciliation	Single sign-on	OS authentication
Password management	Federation	
Audit & Compliance		Manageability

ORACLE

Entitlements Management

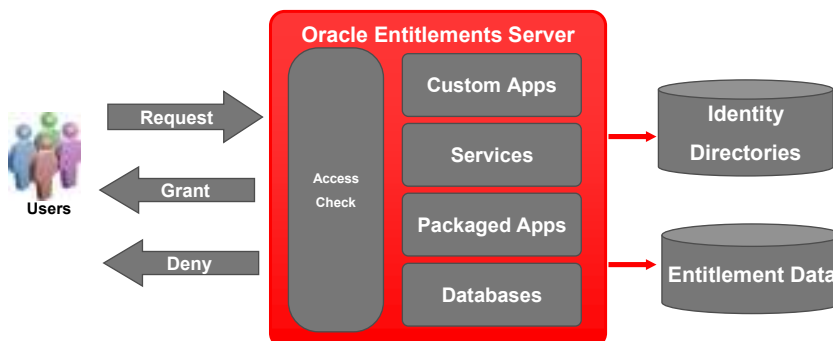


- Establish a centrally managed policy repository
- Leverage existing investments in security and identity management
- Evaluate and enforce policy
- Take responsibility for policy creation and maintenance out of developer's hands
- Get control over who can do or see what, when, and how

ORACLE

Oracle Entitlements Server

Oracle Entitlements Server (OES) is a **Fine-Grained Entitlements Management Solution** that provides *centralized policy management* and *distributed, runtime policy enforcement* for applications and SOA



ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.	Access Management	Directory Services
"Identity Management 2.0"		
Role management	Strong authentication	Identity virtualization
Role mining	Risk based authorization	
Relationship management	Fine grained entitlements	
Web Services security		
Core Platform		
Identity lifecycle	Authentication	LDAP storage
Organization lifecycle	Authorization	LDAP synchronization
Provisioning & Reconciliation	Single sign-on	OS authentication
Password management	Federation	
Audit & Compliance		Manageability

ORACLE

Oracle WSM Benefits

- Externalize web services security
 - No web services security "silos"
- Focus on domain expertise
 - Developers focus on business logic
 - Security architects and administrators focus on security and management
- Meet governance requirements
 - Centralized corporate rules are applied locally
 - Security policies are defined in a single point of control
- Lower costs of administration
 - Security policy changes are handled centrally, not in each web service
 - Security audits / reports are run across all web services from a single point of administration
 - Web services security and management environment is easier to deploy, maintain, and upgrade

ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.	Access Management	Directory Services
"Identity Management 2.0"		
Role management	Strong authentication	Identity virtualization
Role mining	Risk based authorization	
Relationship management	Fine grained entitlements	
	Web Services security	
Core Platform		
Identity lifecycle	Authentication	LDAP storage
Organization lifecycle	Authorization	LDAP synchronization
Provisioning & Reconciliation	Single sign-on	OS authentication
Password management	Federation	
Audit & Compliance		Manageability
Audit	Reporting	Analytics
Attestation	Segregation of duties	Fraud

ORACLE

Auditing / logging

- Succesvol/Niet succesvolle toegang
 - Authenticatie
 - Autorisatie
- Wie heeft wat?
- Wie had wat?
- Wie gaf rechten?
- SoD
- Tamper proof
- Veilige opslag

ORACLE

Oracle's Comprehensive IDM Solutions

Identity Admin.	Access Management	Directory Services
"Identity Management 2.0"		
Role management	Strong authentication	Identity virtualization
Role mining	Risk based authorization	
Relationship management	Fine grained entitlements	
	Web Services security	
Core Platform		
Identity lifecycle	Authentication	LDAP storage
Organization lifecycle	Authorization	LDAP synchronization
Provisioning & Reconciliation	Single sign-on	OS authentication
Password management	Federation	
Audit & Compliance		Manageability
Audit	Reporting	Service level
Attestation	Analytics	Performance
	Fraud	Automation
	Segregation of duties	

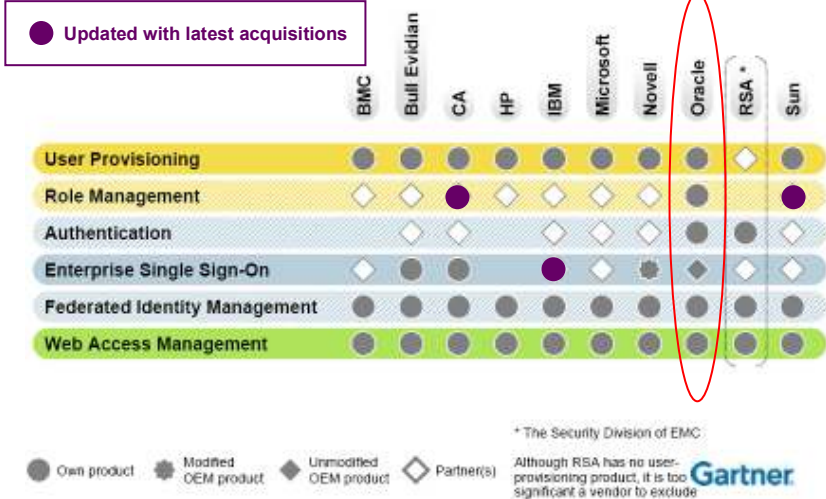
ORACLE

Oracle's Identity Management Suite

Identity Admin.	Access Management	Directory Services
"Identity Management 2.0"		
Role Manager	Adaptive Access Manager	Virtual Directory
	Entitlements Server	
	Web Services Manager	
Core Platform		
Identity Manager	Access Manager	Internet Directory
	Identity Federation	Authentication Service for OS
	Enterprise Single Sign-On	
Audit & Compliance		Manageability
Identity Management Suite		Enterprise Manager IDM Pack

ORACLE

Most Comprehensive IdM Suite



ORACLE

Identity And Access Management Marketplace, Gartner Symposium/ITxpo, Ant Allen, ESC19_1049, 11/07, AE

Identity Management Customers

Financial Services



Transportation & Services



Manufacturing & Technology



Telecommunication



Public Sector



Retail



ORACLE

Oracle Confidential



ORACLE

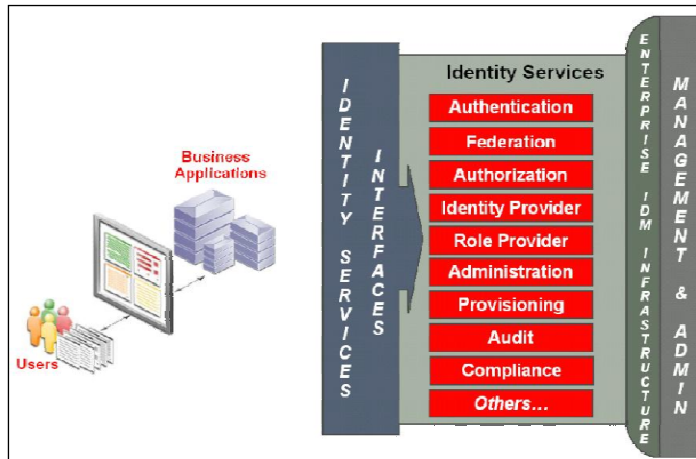
Toekomst

Looking Ahead

- Oracle will broaden security product portfolio
 - Security is not just another line of business for Oracle
 - Security is strategic to Oracle's entire product portfolio
 - Emerging areas: fine grain authorization, entitlement management, privacy, governance, risk management... etc.
- Project Fusion
 - Single security model across Enterprise Applications Suite
 - Enforced uniformly at all parts of technology infrastructure
 - Across entire life-cycle from development to maintenance
- From security silos to built-in security
 - Built into enterprise applications, middleware, DB, OS
 - Identity Services Framework

ORACLE

Identity Services Framework



ORACLE

