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Oracle Identity Management Solutions Overview

IDM Framework

Authentication

- Password
- One Time Password
- Smart Card

Authorization

- Access Check
- Roles
- Rules
- Fine-Grained Access Control

Access Risk Management

- Fraud Detection
- Risk Models

Users

Application

Federated Services

Web Services

Applications

Directories

Databases

Office Automation

Role Mgmt

Role Resolution & Assignment

ID Lifecycle Management

Account Provisioning & Reconciliation

Access Policy

Password Management

Self Service

Delegated Admin

ID Store

High Performance LDAP

Virtualization

Oracle Security Inside Out

Information

Infrastructure

Databases

Applications
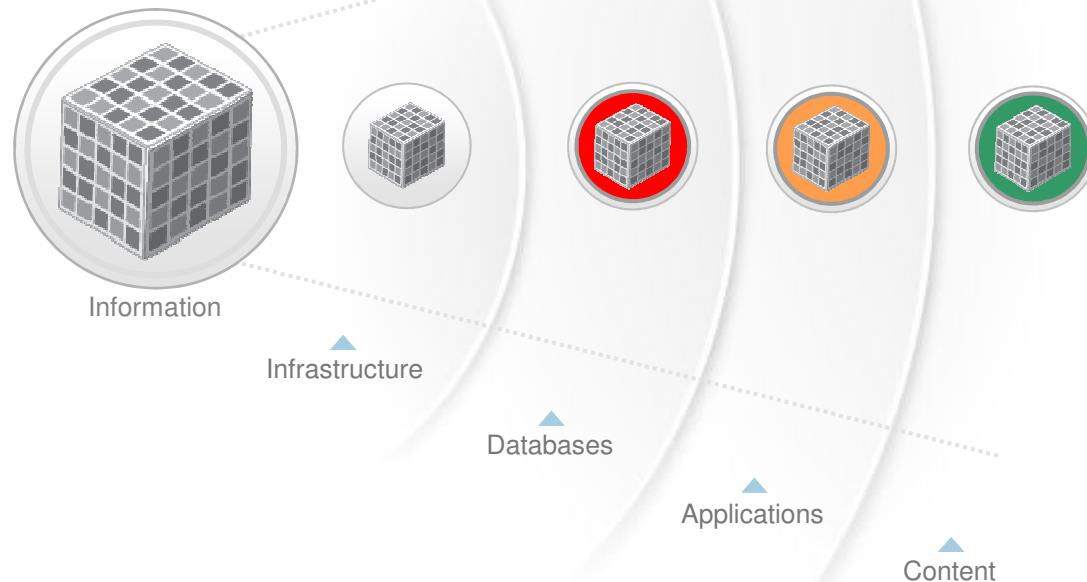
Content

Database Security

- Encryption and Masking
- Privileged User Controls
- Multi-Factor Authorization
- Activity Monitoring and Audit
- Secure Configuration
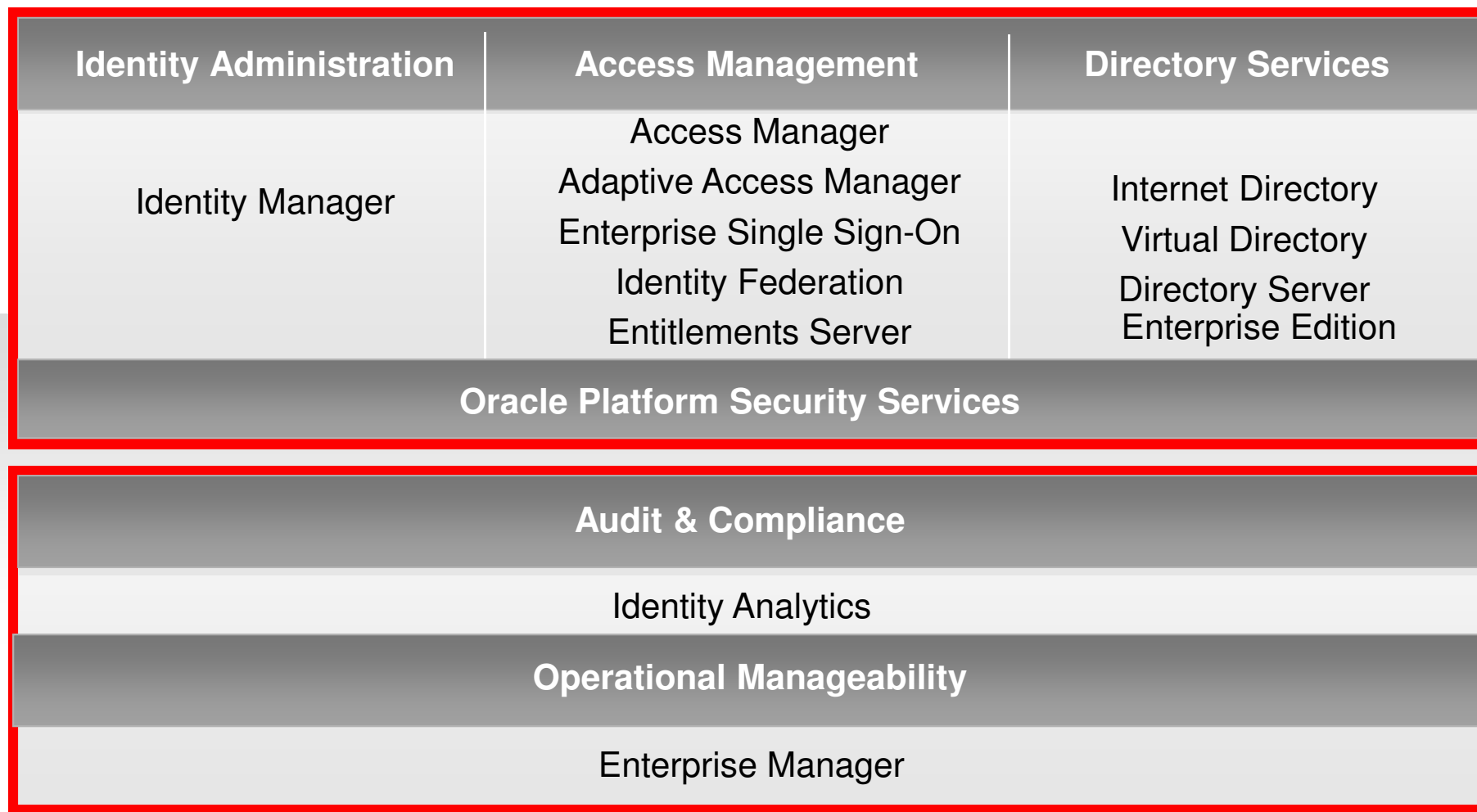
Identity Management

- 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

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Oracle Identity Management
Most Comprehensive, Integrated

Identity Administration	Access Management	Directory Services
Identity Manager	Access Manager Adaptive Access Manager Enterprise Single Sign-On Identity Federation Entitlements Server	Internet Directory Virtual Directory Directory Server Enterprise Edition

Oracle Platform Security Services

Audit & Compliance

Identity Analytics

Operational Manageability

Enterprise Manager

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Oracle IdM Suite Architecture

Enterprise

Oracle LOB / Fusion

ISV

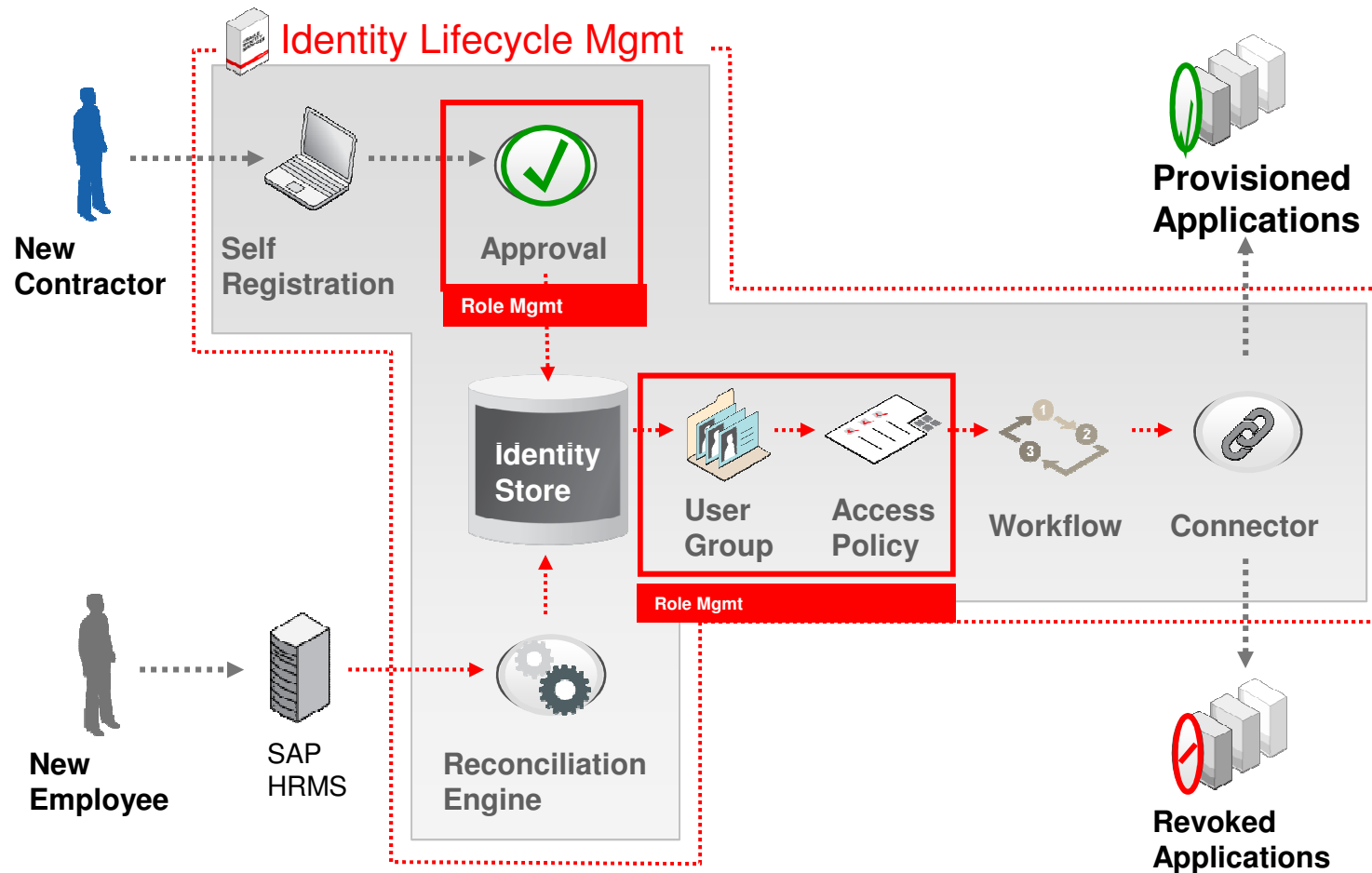| Identity Services (Standards Based)		Authentication Authorization	Federation Trust	Identity Admin Provisioning	Role Mgmt. Policy Mgmt.
Identity & Access Management Product Portfolio	**Enterprise Apps**	OAM OAAM	OIF OES	OIM ORM	OID OVD	OWSM OAS4OS
	Shared Services	Access	Identity	Audit	Risk
	Core Infrastructure	Platform Security For Java	User Administration	Common Audit Framework
Technology (FMW & IdM)		Virtualization (OVD)	Orchestration (BPEL PM)	Deploy & Install	User Interface
Persistence (Standards Based)		LDAP (OID)	DB	File

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IDENTITY ADMINISTRATION

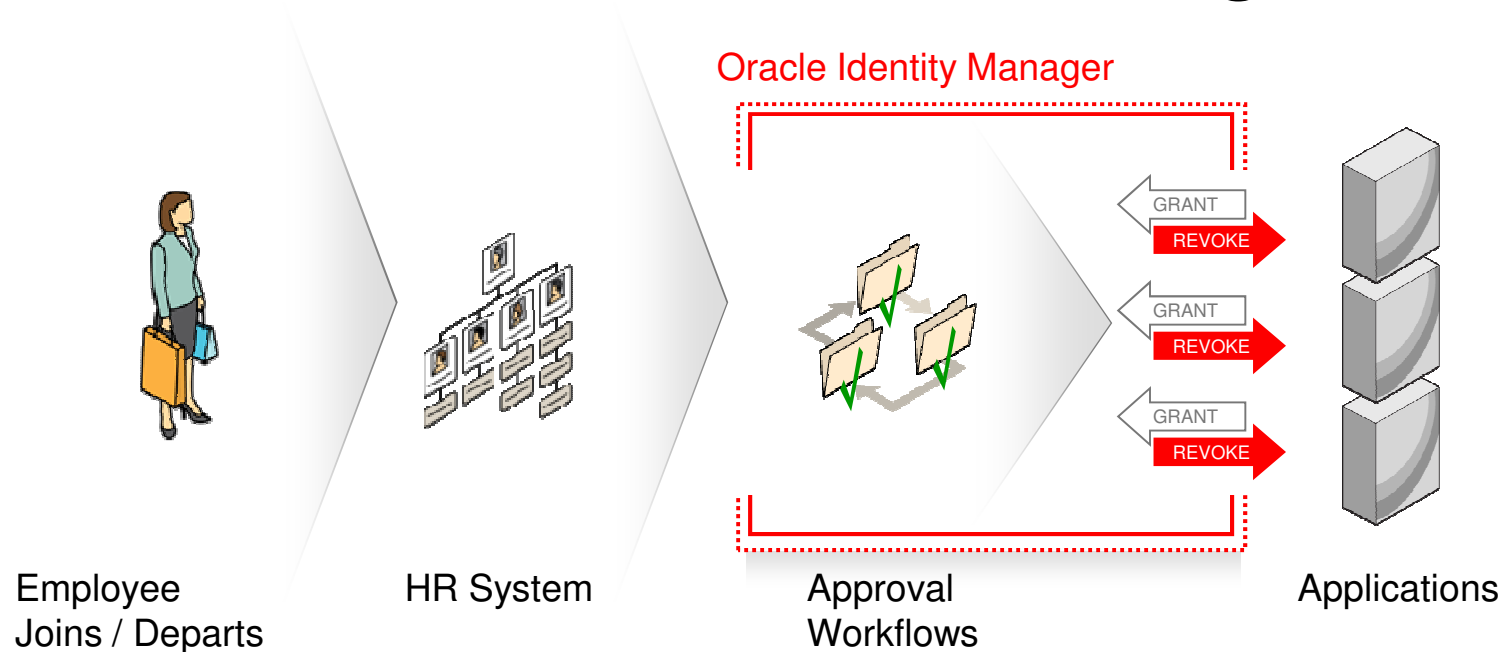# Oracle Identity Administration

Oracle Identity Manager

- User Self Service & Delegated Administration
- Password Management
- Organization Administration
- Role Administration & Lifecycle Management
- Request Management for Registration, Roles, Accounts & Entitlements
- User Provisioning for Roles, Accounts & Entitlements
- Provisioning & Reconciliation Connector Framework
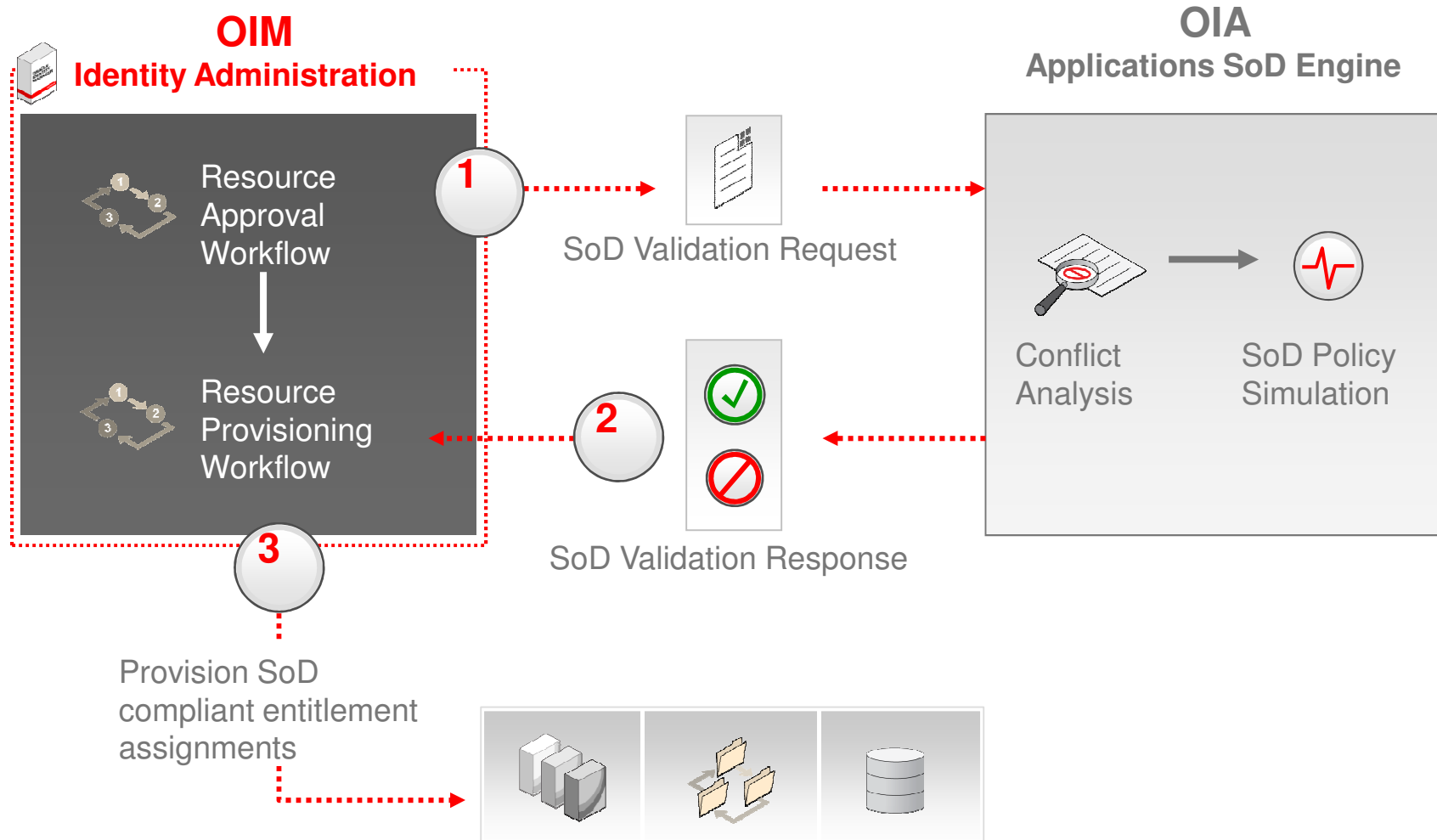- Applications Integration & Connectors

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Policy based Provisioning

Identity Lifecycle Mgmt

New Contractor

Self Registration

Approval

Role Mgmt

New Employee

SAP HRMS

Identity Store

Reconciliation Engine

User Group

Access Policy

Role Mgmt

Workflow

Connector

Provisioned Applications

Revoked Applications

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Role Based User Provisioning

Oracle Identity Manager

GRANT
REVOKE

GRANT
REVOKE

GRANT
REVOKE

Employee
Joins / Departs
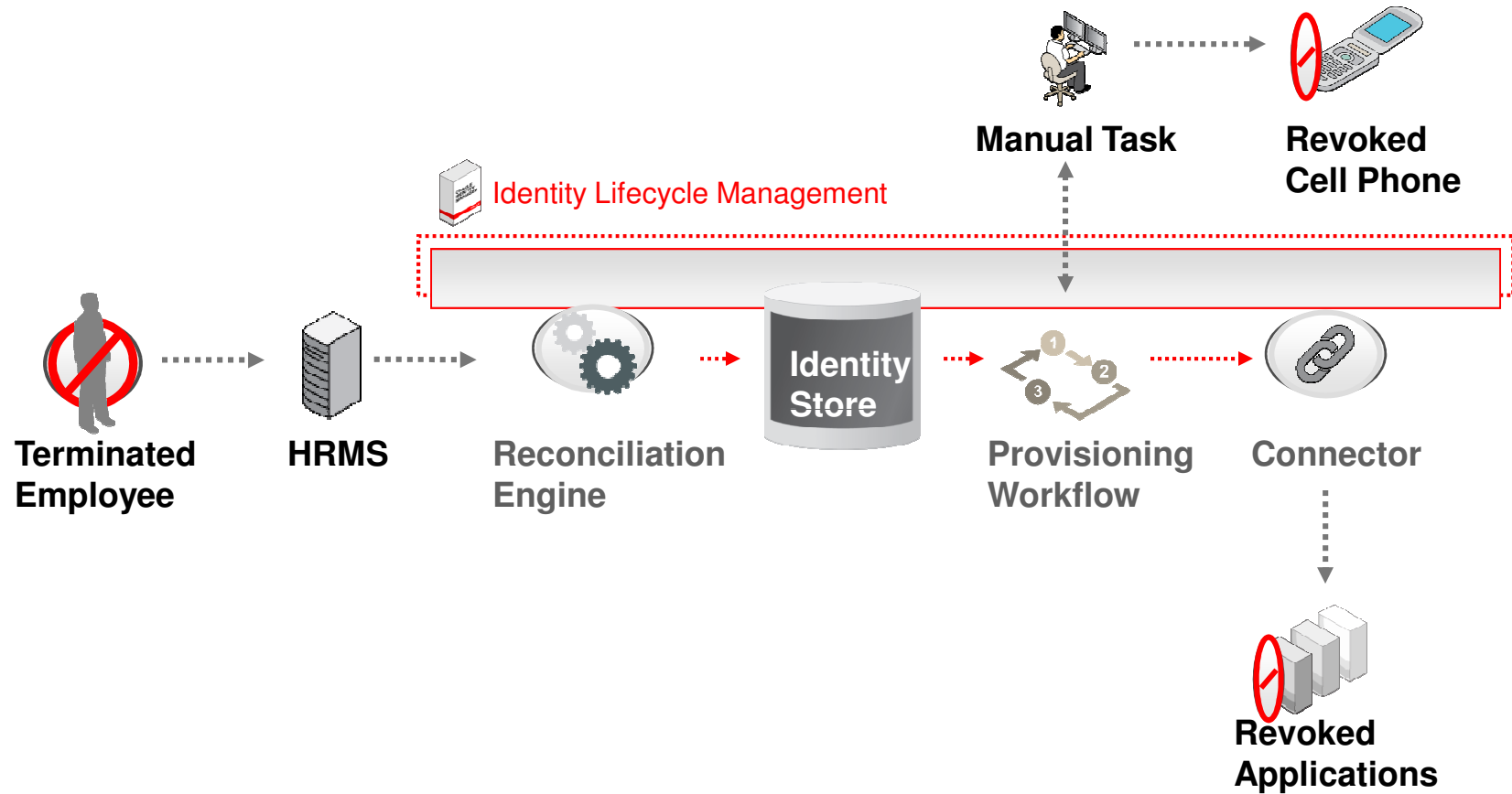
HR System

Approval
Workflows

Applications

- Automate Roles Based Provisioning / Deprovisioning
- Identify orphaned accounts
- Report on "Who has access to what"
- Self-service requests

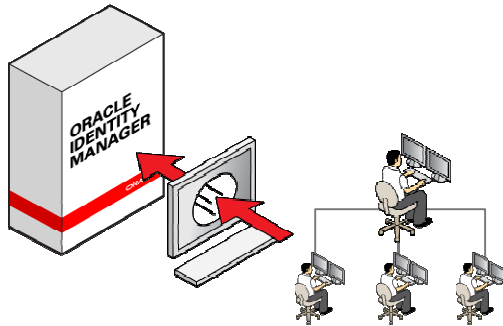# SoD Compliant Provisioning
Preventative Simulation

OIM
Identity Administration
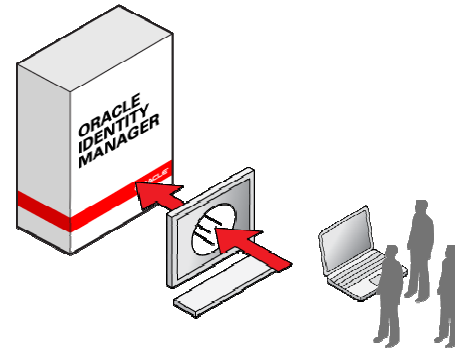
OIA
Applications SoD Engine

Resource Approval Workflow

1

SoD Validation Request

Resource Provisioning Workflow

2

SoD Validation Response

Conflict Analysis

SoD Policy Simulation

3

Provision SoD compliant entitlement assignments

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Automated De-Provisioning

Manual Task

Revoked
Cell Phone

Identity Lifecycle Management

Terminated
Employee

HRMS

Reconciliation
Engine

Identity
Store

Provisioning
Workflow

Connector

Revoked
Applications

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Self Service and Delegated Admin

Delegated Admin

Self-Service

Manager assigning proxy user
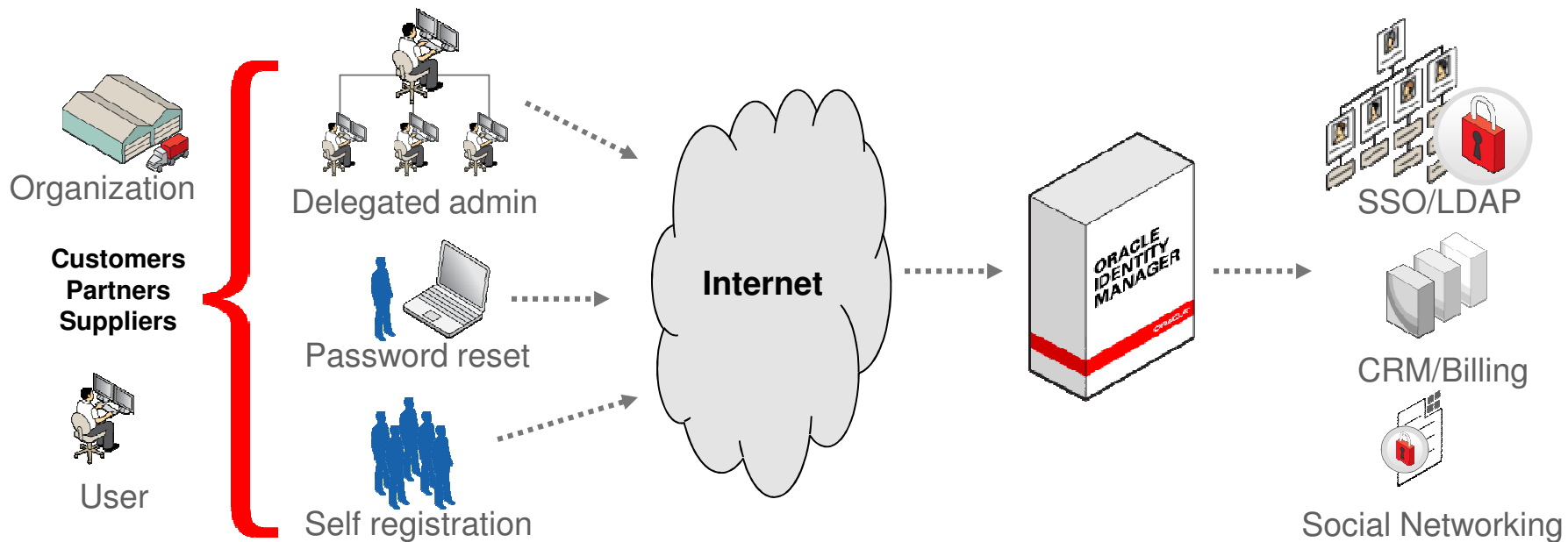
User doing password reset

- Self Service Account Requests

- Delegated Administration

- Password Reset and Profile Management

Extranet Provisioning

Organization

Customers
Partners
Suppliers

User

Delegated admin

Password reset

Self registration

Internet

ORACLE IDENTITY MANAGER

SSO/LDAP

CRM/Billing

Social Networking

- Millions of users and hundreds of organizations but simpler provisioning policies

- User/company registration, account and password management

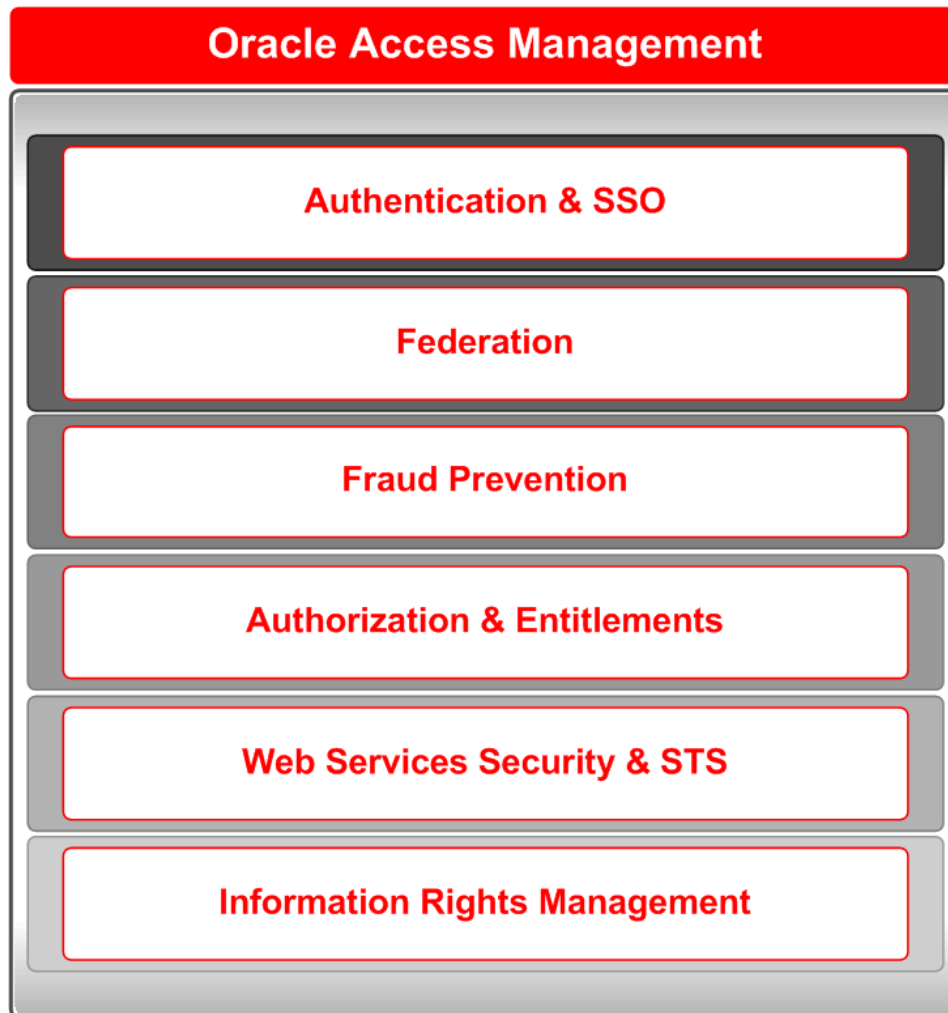- Multi-tier delegated administration and compliance reporting

Available Out-of-The-Box Connectors

Database Servers	Directory Servers
ORACLE Microsoft IBM DB2 SYBASE	ORACLE Novell Microsoft Sun microsystems

Enterprise Applications	Enterprise Messaging
ORACLE SIEBEL SAP PeopleSoft	Microsoft Novell GroupWise Lotus domino

Operating Systems	Security Management
Microsoft Windows redhat AIX L solaris hp HP-ux	RSA SECURITY IBM RACF ca ACF2 TopSecret
	Help Desk
	bmc REMEDY service management

ACCESS MANAGEMENT

Oracle Access Management

Oracle Access Management

- Authentication & SSO
- Federation
- Fraud Prevention
- Authorization & Entitlements
- Web Services Security & STS
- Information Rights Management

- Comprehensive security for applications, data, documents and web services

- End-to-end authentication, single sign-on, and fine grained application protection

- Innovative anomaly detection, transaction security, and multi-factor authentication
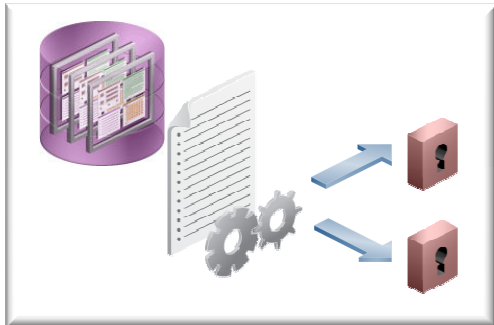
- Extensive 3rd party integrations
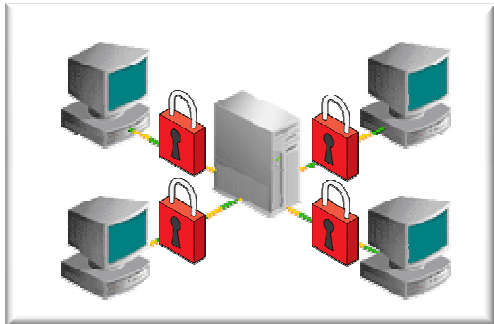
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Oracle Access Management Suite Plus

- Entitlements Management
- Fine Grained Authorization

- Risk-based Authentication
- Real-time Fraud Prevention

- Security Beyond Firewalls
- Auditing and Revocation

Entitlements Server	Adaptive Access Manager	Information Rights Mgt.
OpenSSO STS	Access Manager/ ESSO	Identity Federation

- Security Token Management
- Identity Propagation

- Web Access Control
- Single Sign-On

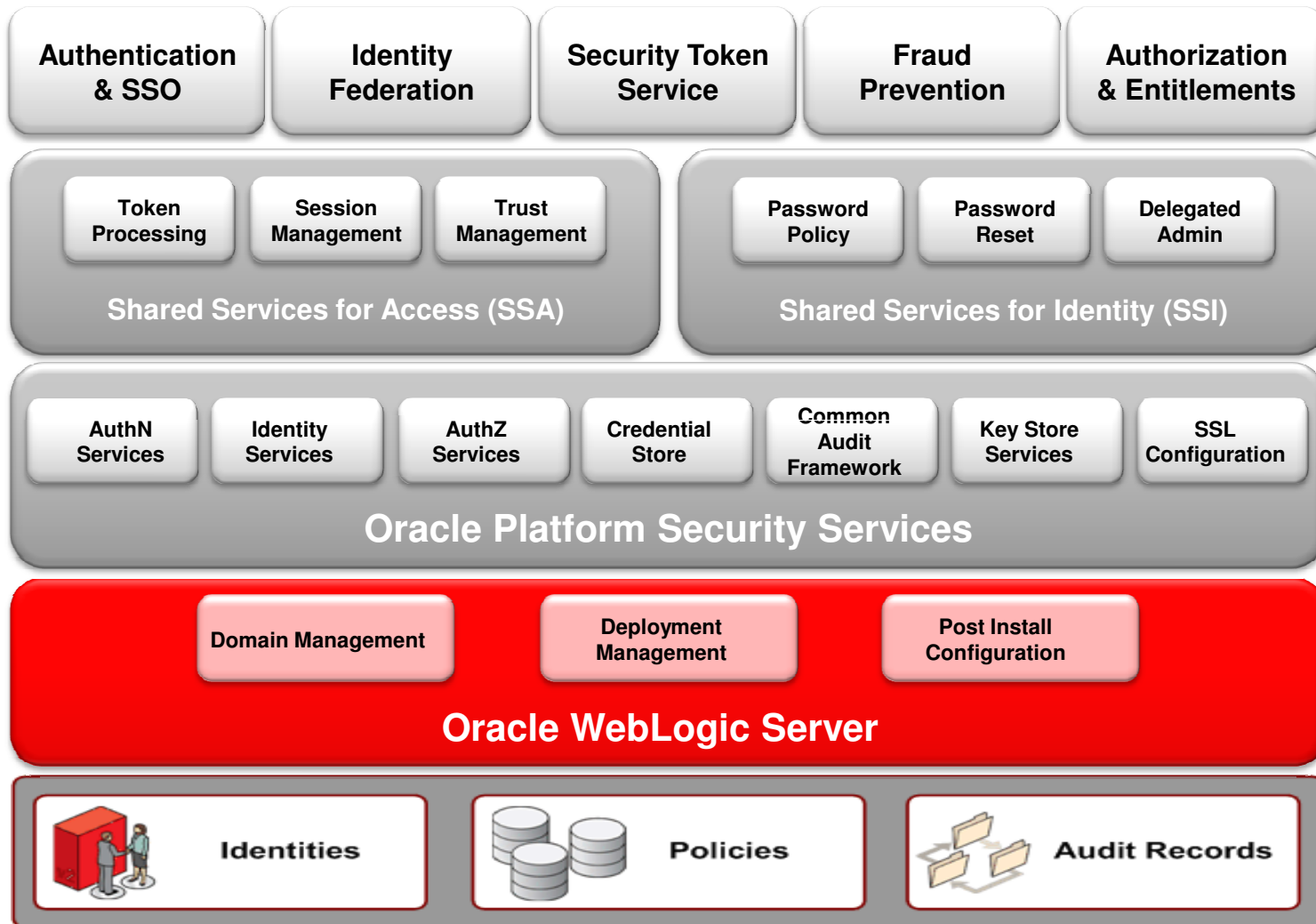- Partner SSO & Identity Federation
- Fedlet SP integration
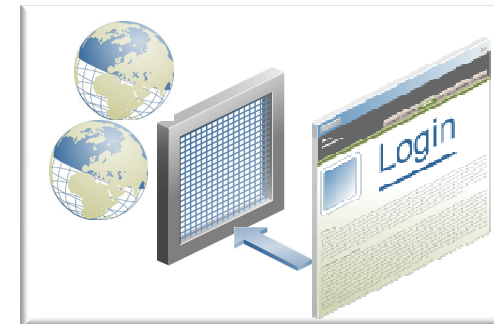
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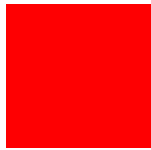
Access Management
Architecture

Authentication & SSO	Identity Federation	Security Token Service	Fraud Prevention	Authorization & Entitlements

Shared Services for Access (SSA)
- Token Processing
- Session Management
- Trust Management

Shared Services for Identity (SSI)
- Password Policy
- Password Reset
- Delegated Admin

Oracle Platform Security Services
- AuthN Services
- Identity Services
- AuthZ Services
- Credential Store
- Common Audit Framework
- Key Store Services
- SSL Configuration

Oracle WebLogic Server
- Domain Management
- Deployment Management
- Post Install Configuration

Identities | Policies | Audit Records
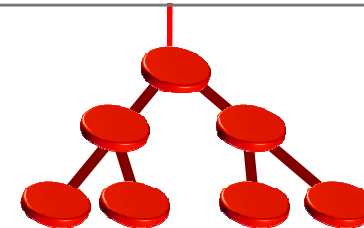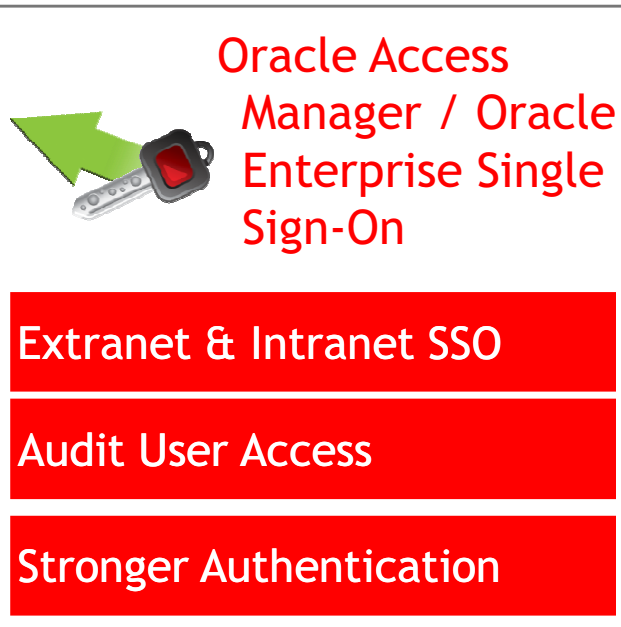
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Enable Single Sign-On

Oracle Access Manager
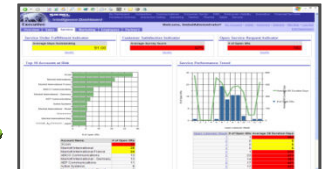**Oracle Enterprise Single Sign-On**

Desktop Login

Employees

Oracle Access Manager / Oracle Enterprise Single Sign-On

Extranet & Intranet SSO

Audit User Access

Stronger Authentication
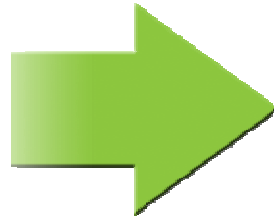
Corporate Directory

Portals

Custom Applications

Business Applications

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Oracle ESSO Suite

OAM Architecture

Employees

Partners

Customers

Vendors

HTTP/S

FIREWALL

WebGate

Single Sign-On to Enterprise Applications

FIREWALL

Web/Application Servers

Collaboration Servers

Portal Servers

HTTP/S

WebGate

Secure Protocol over SSL

Access Server

LDAP/S

Directory Server

User identities for authentication and access

Security policies for authentication and authorization
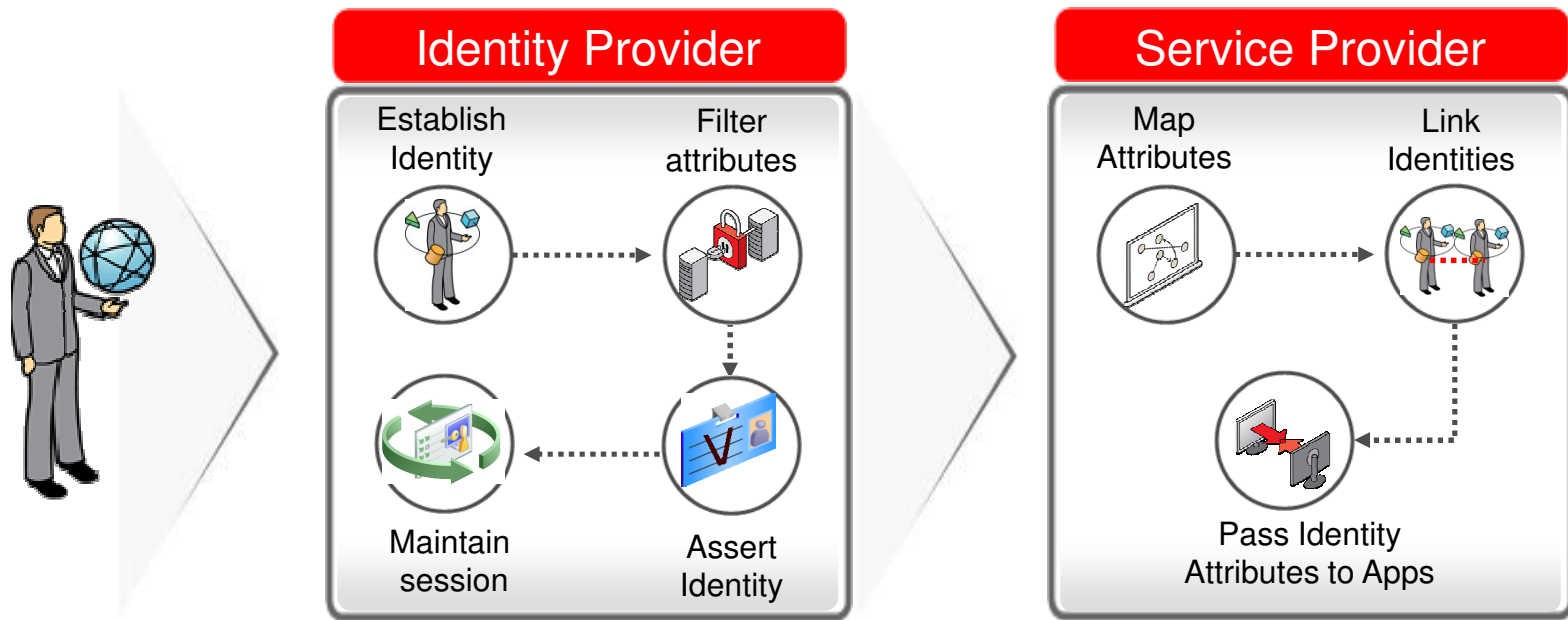
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Identity Federation (OIF)

- Flexible integration framework

- Lightweight SP integration via Fedlet

- Support for industry standards, SAML, WS-Federation

- Enterprise-ready operational management and monitoring

Identity Providers and Service Providers

Identity Provider

Service Provider

TRUST
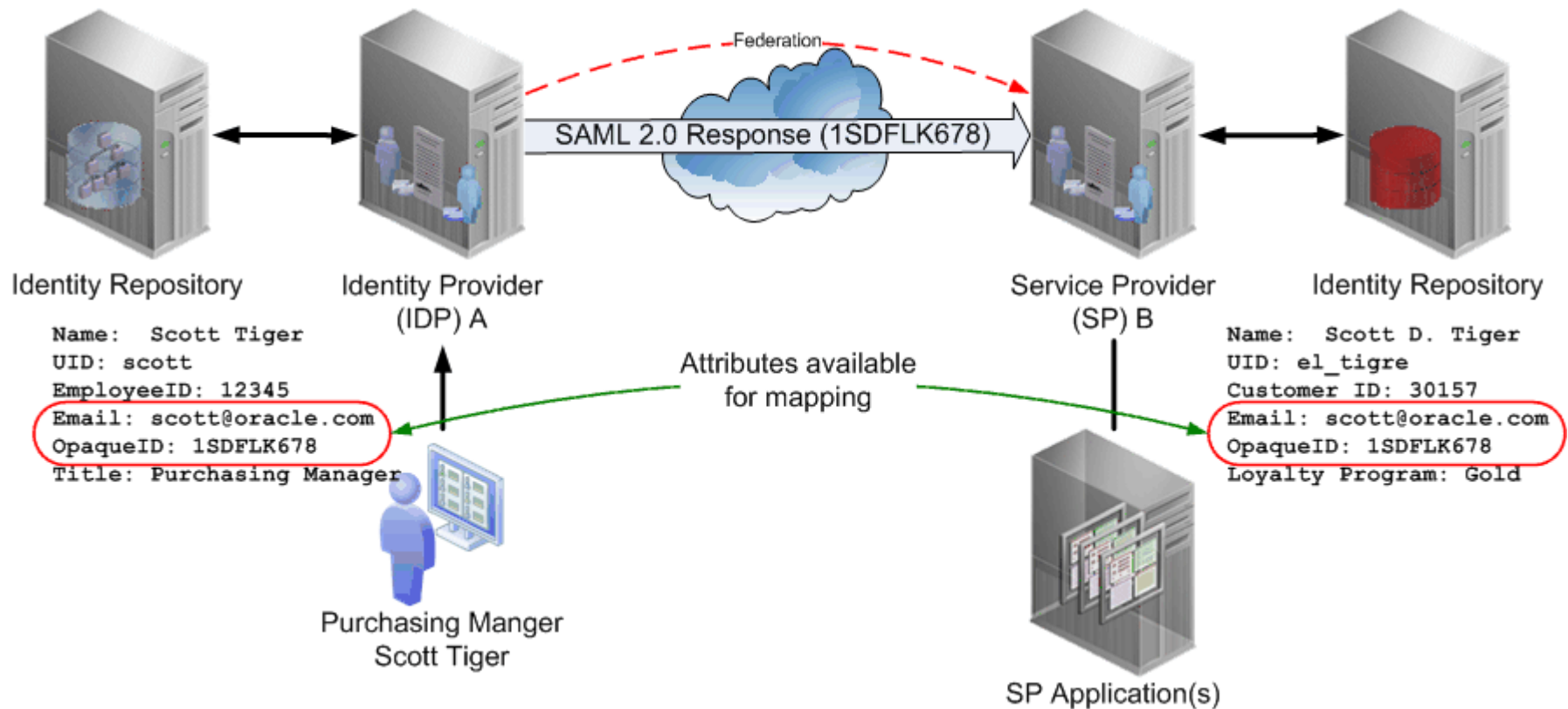
IDENTITIES

Domain A

Domain B

- Domain B trusts Domain A
- Domain A acts in an Identity Provider role
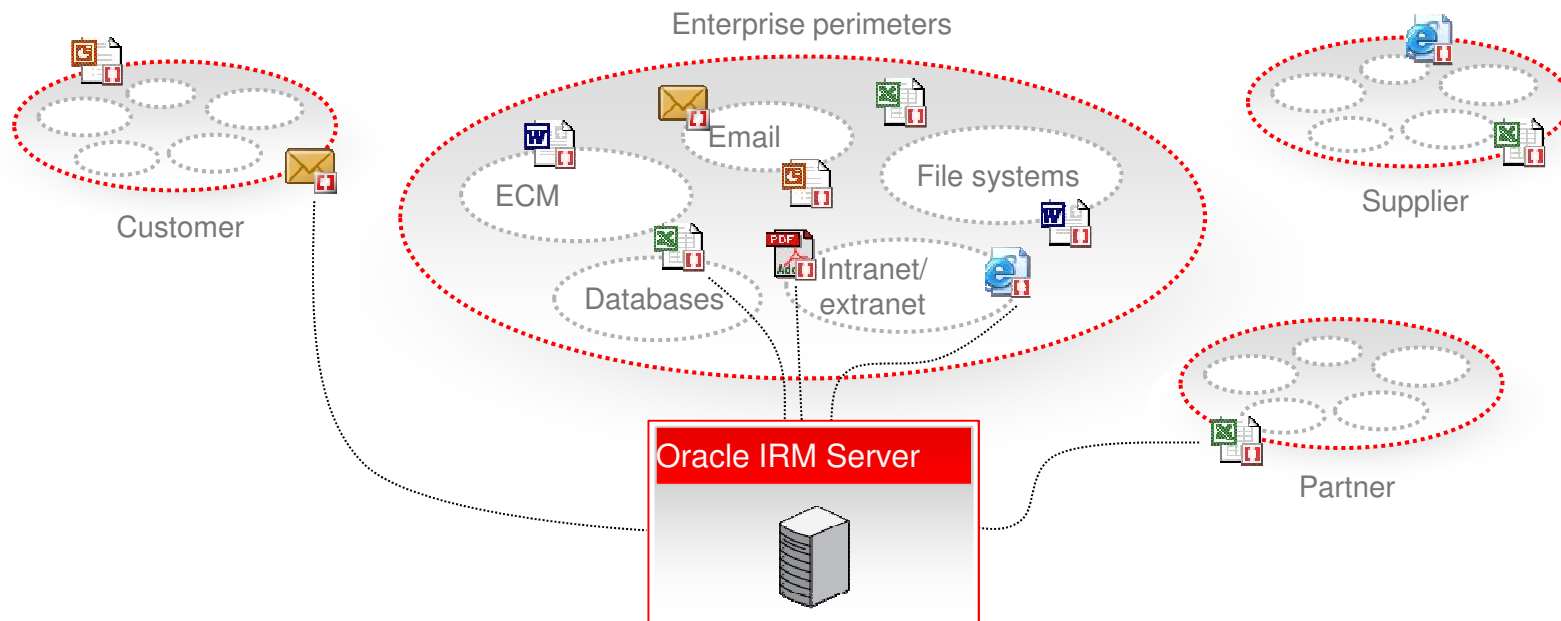- Domain B acts in a Service Provider role

Use Case: Account Mapping

The user has accounts with both federation partners and there's a common element available for mapping

Oracle Information Rights Management
Securing all copies of your sensitive information

Enterprise perimeters

Customer

ECM

Email

File systems

Databases

Intranet/extranet

Supplier

Oracle IRM Server

Partner

- Everywhere IRM-encrypted content is stored, transmitted or used
  - NO ACCESS FOR UNAUTHORIZED USERS
  - Transparent, revocable access for authorized users
  - Centralized policy and auditing for widely distributed content
- Content security beyond the database, application and firewall

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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
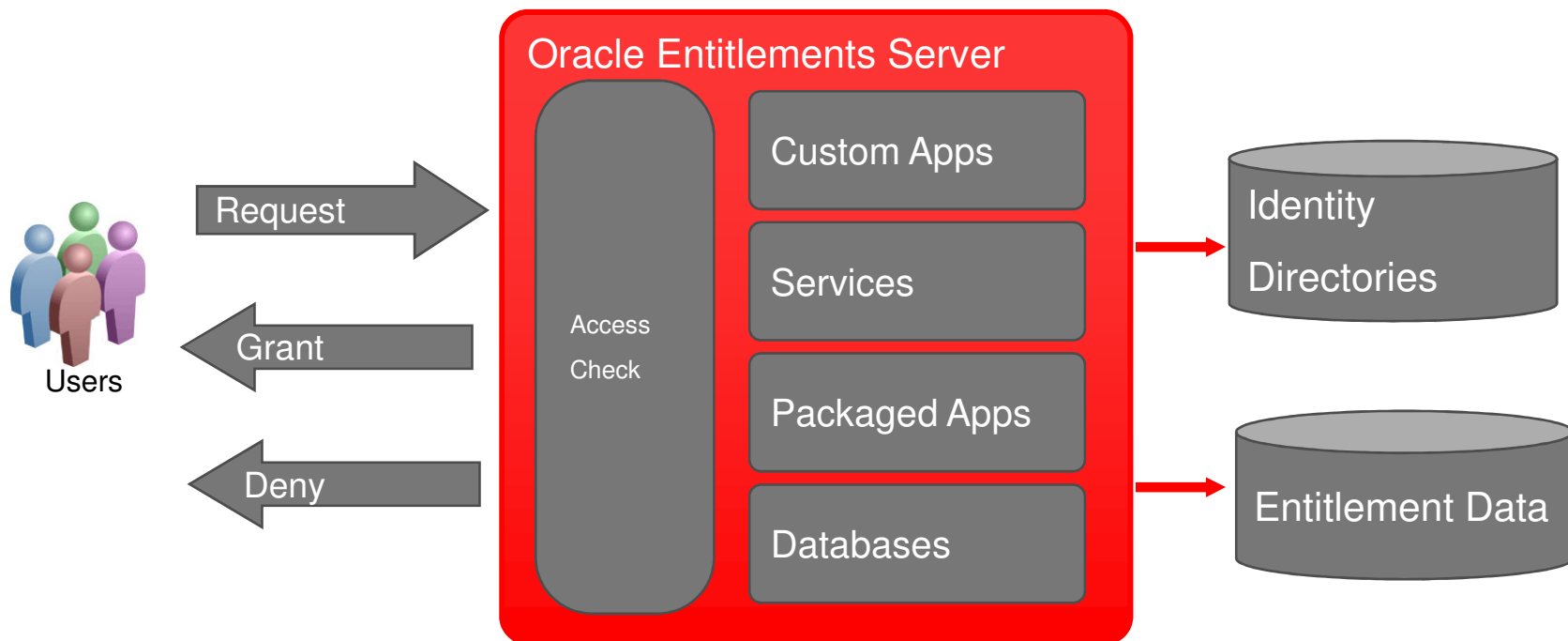
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Fraud Prevention (OAAM)

Fraud Prevention

Secure Login

Challenge or Block

Model Risk

Analysis and Forensics

Detect Anomalies

Evaluate transactions
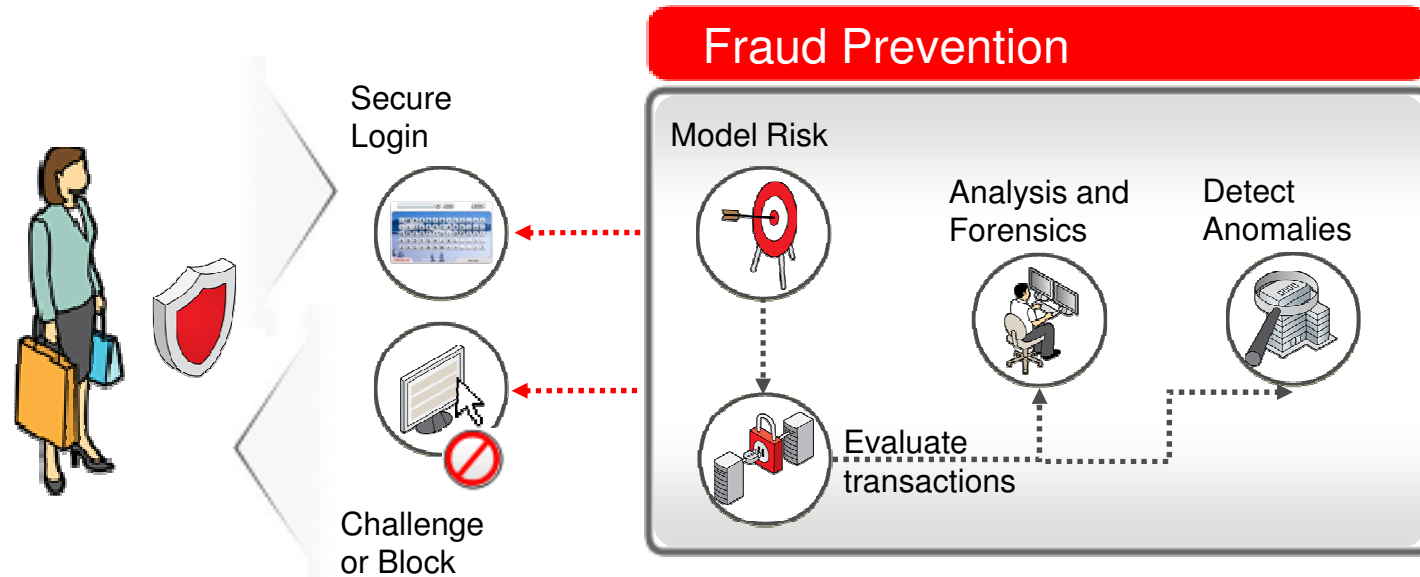
- Strengthened authentication

- Real-time anomaly detection

- Preventative actions

- Reporting and forensics

OAAM Risk Analytics

- User Profile

- Device Fingerprint

- IP Geolocation

- Application & Contextual Data

Web Services Security & STS (OWSM)
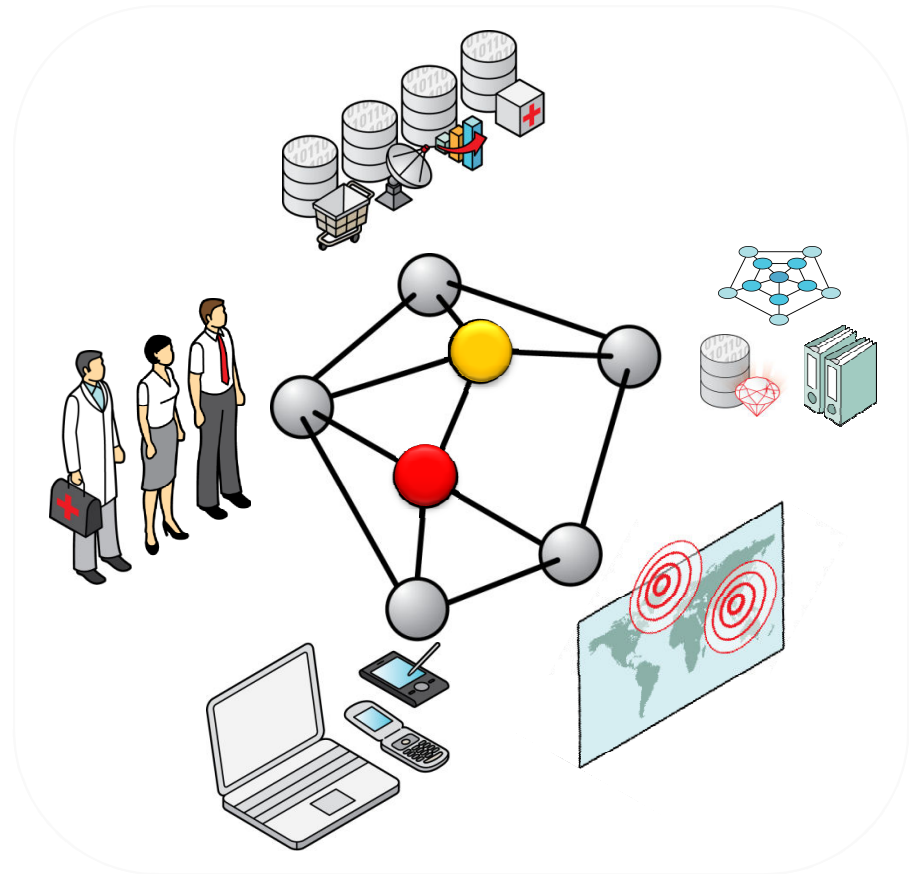

Authentication
- Valid Web Service?
- Issue, renew, validate Credentials

Trust Authority / Token Service

Authorization
- Evaluate Policies
- Enforce Access
- Re-route service

Authorize / Deny Access
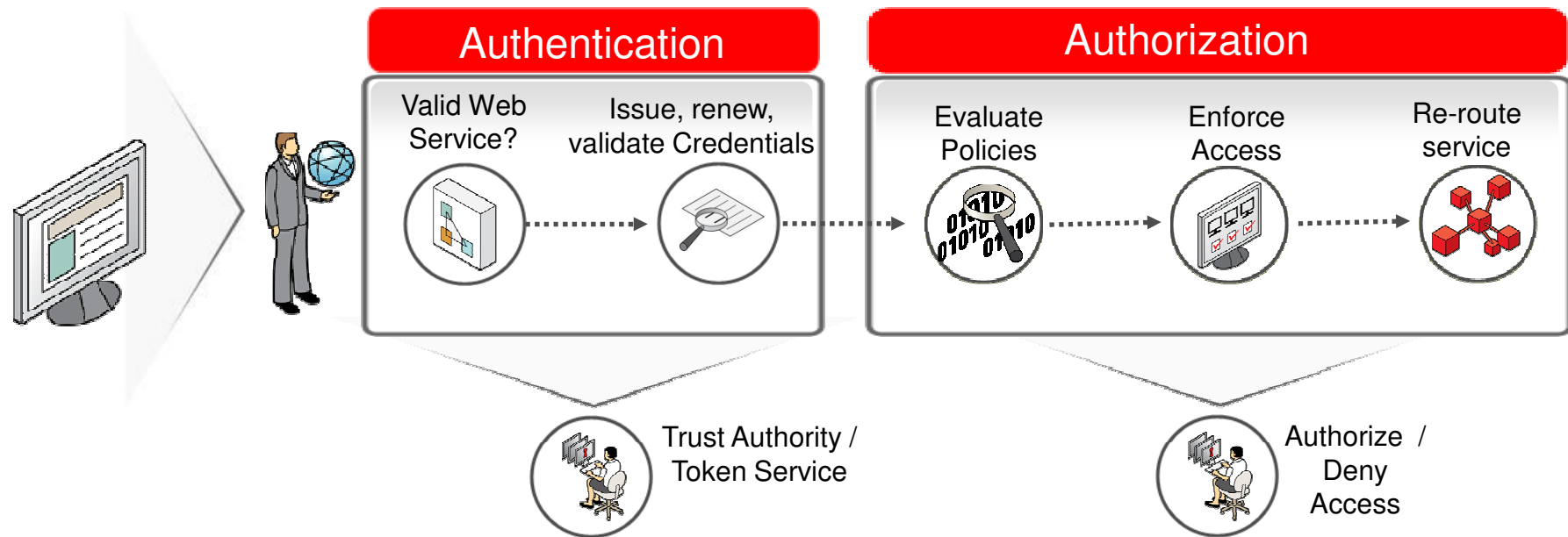
- Comprehensive enterprise security and token services
- Shared security services – authN, authZ, tokens
- Support for industry standards, XACML, SOAP
- Centralized policy management

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DIRECTORY SERVICES

Directory Services
Combined Oracle-Sun Solution

Oracle Virtual Directory

- Real-time consolidation of disparate identity stores

Oracle Directory Server EE
(previously Sun Directory Server EE)

Oracle Internet Directory

- High Performance Directory with native LDAP store
- Ideally suited for heterogeneous environments

- High Performance Directory, built on Oracle Database
- Ideally suited for Oracle applications and environments

Centralized Identity Data

Portals

Custom Applications

Business Applications

Directory Services Manager

LDAP

ORACLE VIRTUAL DIRECTORY

Single 'LDAP' View

Virtualize LDAP, DB, Web Service ID Sources

Rapidly Expose Identity Data to Applications

'Virtually Consolidate' first...Then Retire ID Stores

INTERNAL USERS AND ATTRIBUTES

HR Apps   Directories

EXTERNAL USERS AND ATTRIBUTES

Multiple DBMS Mainframe

MERGERS AND ACQUISITIONS USERS AND ATTRIBUTES

Web Services   Directories

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