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Introduction to Oracle Identity Management

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Web applications are great ...

- Inexpensive to develop
- Easy to deploy
- Access anywhere









Web application problems

- Administrative problems
 - Efficiently provisioning users for applications
 - Limited/no ability to delegate administration
- Usability problems
 - Different user names/passwords
 - Little/no personalization of portal content
- Security problems
 - Inconsistent password management policies
 - Fragmented security policy enforcement



The Solution: Identity Management

- Identity management is the process by which
 - Users are provisioned for enterprise applications
 - Application user roles and permissions are managed
 - Users manage profile information such as application preferences, passwords and PINs
 - Applications (such as Portals) are personalized for individual users



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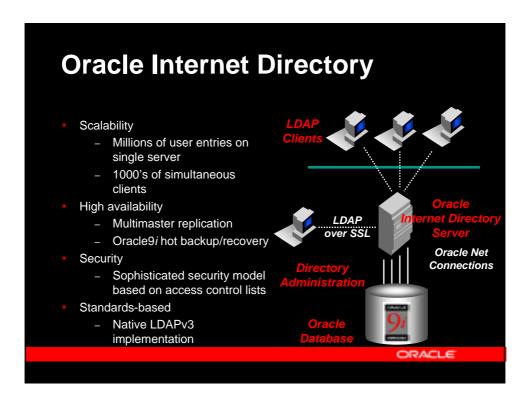
Benefits of an Integrated Identity Management Solution

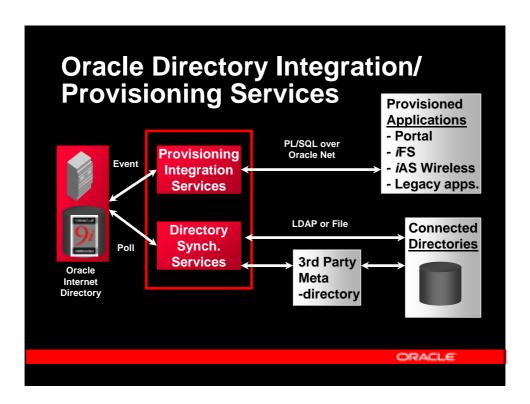
- For Administrators
 - Lower costs and improved accuracy in user provisioning
 - Better security through centralized management of security policies and authorizations
 - Scalable administration through delegation

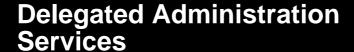
- For users
 - Improved productivity through quicker access to applications
 - Improved usability with single user identity and credentials and application personalization



Oracle Identity Management Integrated identity management for all **Directory** Integration Oracle products Highly robust and **Public Key** User Certificate scalable identity **Provisioning Authority** management platform **Directory** for the enterprise Open interfaces and standards for third Delegated interoperability Single Sign-on **Administration** ORACLE

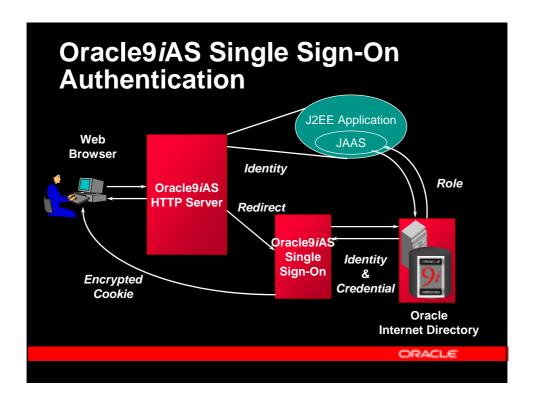








- New directory feature with Oracle9*i*AS V2
- Provides a consistent interface for directory content administration
 - Administrative tool: supports application administration delegation
 - End-user tool: Set passwords, preferences, whitepages



Oracle Certificate Authority

- New component with Oracle9iAS Release 9.0.4
- Out-of-the-box PKI solution for X.509v3 digital certificate provisioning
- Leverages Oracle9iAS Single Sign-On, Oracle Internet Directory

Oracle Identity Management – Putting it Together **Oracle Identity Management Infrastructure** 3rd Party Directory LDAP **Oracle Internet** Certificate Integration Directory **Directory** Services Authority Delegated 3rd Party Oracle 9iAS Provisioning Administration Authentication Service Services Service JAAS Roles, E-Biz Responsibility **DB Enterprise Roles** File permissions Component access Interpersonal Rights, Controls, Java2 Label Security, .. Secure mail, Permissions,... Service discovery, Oracle Oracle Oracle iAS Oracle RDBMS E-Business Suite Collaboration Suite ORACLE

Oracle Internet Directory

What are Directory Services?

"A flexible, special-purpose distributed database designed to enable the storage and retrieval of entry-oriented information for a wide range of applications"

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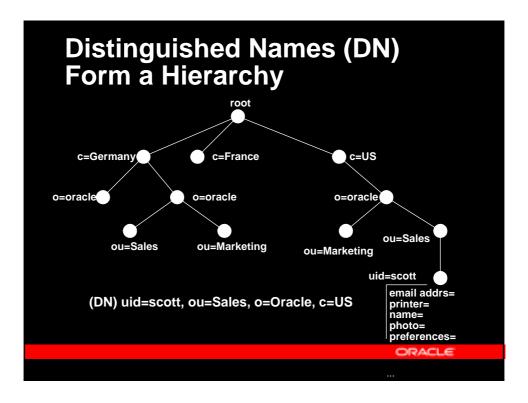
Databases vs Directories

- Table oriented
- Location pecific data
- Application- consistent naming policies
- Performance emphasis on transactions

- Entry oriented
- Global data
- Globally consistent naming policies
- Performance emphasis on retrieval

Conclusion: Usage model determines design choices

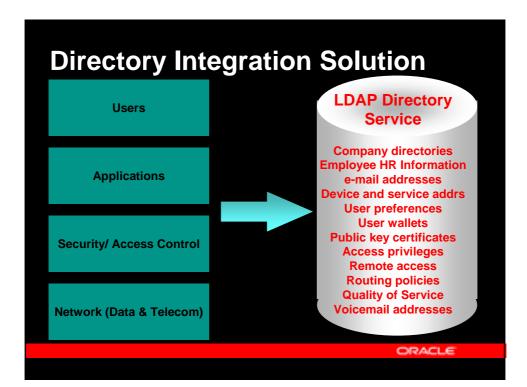




LDAP: The Standards-based Solution

- Directory service standard based on the ISO X.500 specification
 - Uses the X.500 information model
- Lightweight, browser-friendly client implementation
- Protocol standard defined and maintained by the IETF
- Need for interoperability is driving rapid adoption
- Everyone is integrating with it



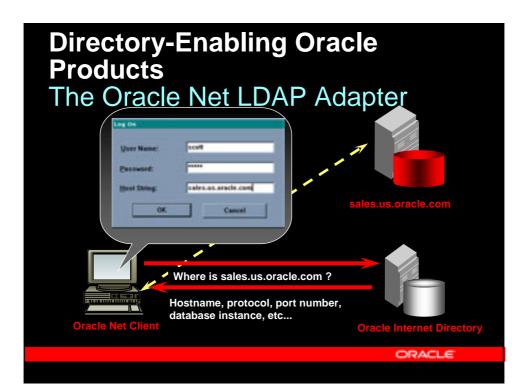


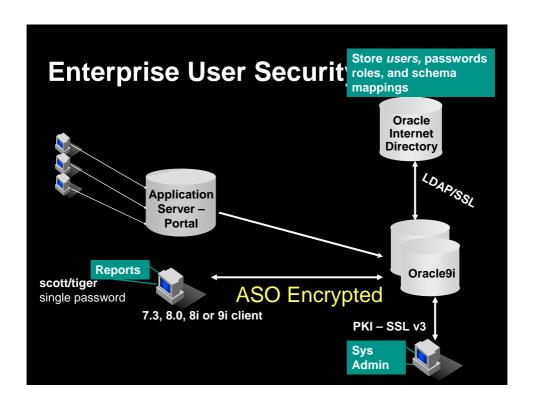
Integration Strategies and Tools

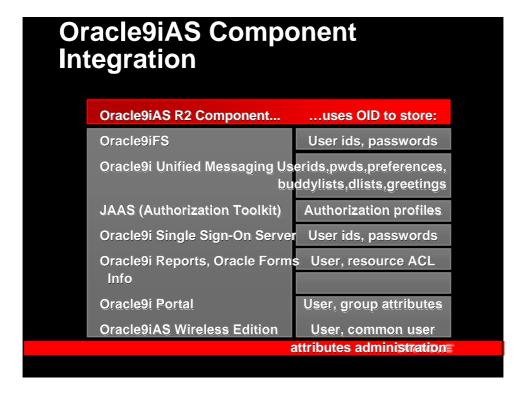
Oracle Identity Management – Important Points

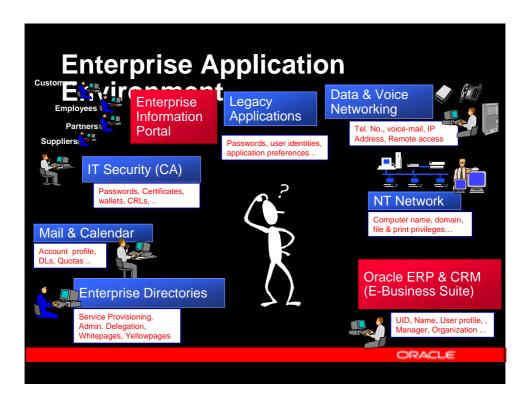
- Essential, integrated infrastructure for the entire Oracle product stack (Database, Oracle9iAS, e-Business Suites, Oracle Collaboration Suite)
- Enterprise identity management infrastructure for third-party and custom applications

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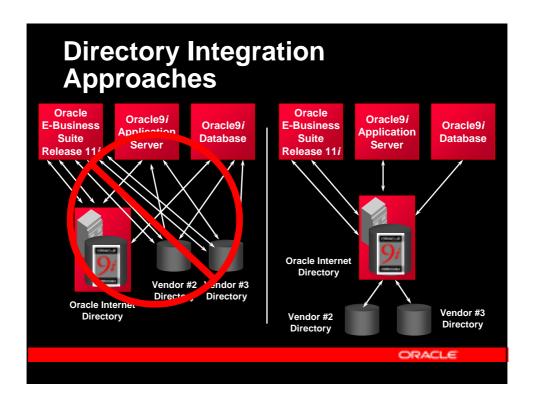




Problems We Need to Solve

- For administrators
 - Consolidation of user identities
 - Application user provisioning/de provisioning
 - User access administration
 - Consistent security policies
- For users
 - Minimum number of credentials to manage
 - Application "single sign on"
 - Unified account self amagement





Windows Integration Current Integration Capabilities & Future Directions

Current Oracle Windows Integration Points

- "Fat client" integration options
 - NTS Authentication (Oracle9i Database on Windows only)
 - Oracle Advanced Security Kerberos Support
 - Microsoft Key Distribution Center (MSKDC)
 - Oracle Advanced Security SSL Support
 - Authentication with X.509 certificate
 - May be issued by Microsoft Certificate Store (MCS)
- "Thin client" integration options
 - Certificate based authentication with Single Sign On

Windows Integration Tools Under Development

- Windows Directory Connector for Oracle Internet Directory
 - Pre packaged solution for Windows directories
 - Built on Oracle Directory Integration Platform
- Windows Authentication Plug-in
 - "Referral" of authentication to Windows O/S
 - Removes requirement for password synchronization
- Windows Password Modification Plug-in
 - Permits update of Windows passwords from Oracle administration tools

