

ORACLE



Oracle Database Vault and Applications Unlimited Certification Overview

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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.

Content Overview

- What we heard from our customers
- E-Business Suite Certification with Database Vault
 - Protection policy overview
 - Demonstration
 - Supported releases
- Regulatory overview snapshot
- Oracle Database Vault certification summary
- Certification with PeopleSoft and Siebel
- Learn more
- Q&A

What we heard from our customers...

- "Our DBAs must be able to manage the database but should not be able to read sensitive application data."
- "Users should not be able to by-pass applications to access information in the database directly."
- "The Finance department should not be able to run reports during production."
- "New DBAs should not be able make database changes alone."
- "Auditors always look for database accounts and their responsibilities. We need to control DBAs ability to create new database accounts."

Key Drivers to Customers

- Stronger IT / Internal Security Controls
 - Prevent DBA access to Applications data
 - Enforce Separation of duty in the Applications database
 - Strong controls on remote / off-shore Applications administration
 - Real-time preventive controls can prevent ad-hoc changes or access to Applications environment
- Regulatory and Privacy Requirements
 - Sarbanes-Oxley (SOX), GLBA, HIPAA, PCI
 - Regulations continue to expand in global economy
 - Japan, Korea have similar versions of SOX
 - Protect Personally Identifiable Information (PII)
 - 40+ US States have privacy breach disclosure laws
 - European Union Data Privacy requirements

E-Business Certification Announcement



Sign In

Press Release Source: Oracle

Oracle(R) Database Vault Certified for the Oracle E-**Business Suite**

Thursday February 7, 8:00 am ET

AMERITRADE

Policies and Best Practices Help Secure Sensitive Application Data from **Even Privileged Users**

REDWOOD SHORES, Calif., Feb. 7 /PRNewswire-FirstCall/ -- Oracle today announced the certification of Oracle® Database Vault for use with the Oracle E-Business Suite. This enables customers to better protect sensitive application data from unauthorized access by any user, including privileged users, misusing their database privileges. Oracle Database Vault is the industry's most advanced database security product designed to enforce when, where, how, and by whom, data can be accessed.

Finance Home -

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Oracle Database Vault

Transparent Access Controls

- Controls on privileged users
 - Restrict highly privileged users from application data
 - Provide Separation of Duty
 - Security for database and information consolidation
- Real time access controls
 - Control who, when, where and how data is accessed
 - Make decision based on IP address, time, auth...



Oracle E-Business Suite

Database Vault Out-of-the-Box Access Control Policies

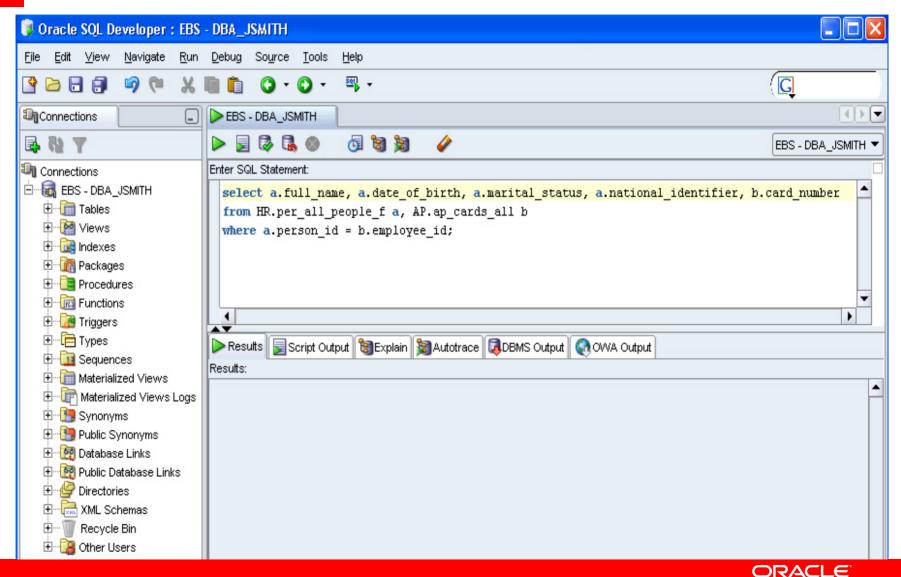
- New and existing named database users with DBA role
 - Oracle Database Vault pre-seeded Realms prevent access to E-Business Suite application data
 - Oracle Database Vault Separation of Duty prevents new account creation or changing of passwords
- Extensibility
 - Define custom command rules to restrict ad-hoc access to specific Factors such as IP addresses or subnets
 - Define custom realms for E-Business Suite



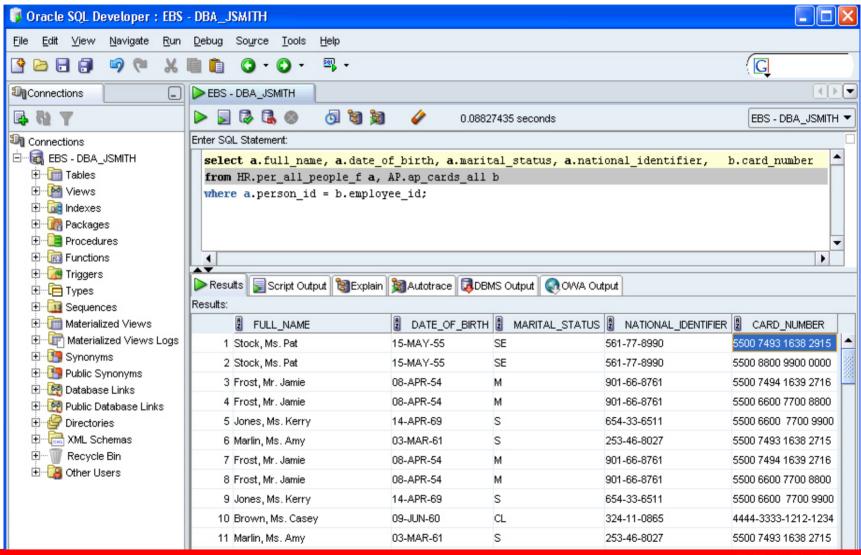
Demonstration:

Protecting application data from privileged users

DBA_JSMITH Tries To Access Sensitive Data



DBA_JSMITH Able To Access Sensitive Data



Database Vault Administration Page



Help Logout Database

Logged in as EBZDVO

Database Instance: ap628s01

Administration

Database Vault Reports General Security Reports Monitor

The links below allow you to protect applications and data using Oracle Database Vault features that include: Realms, Command Rules, Rule Sets, Factors, and Secure Application Roles.

Database Vault Feature Administration

Realms

Command Rules

Factors

Rule Sets

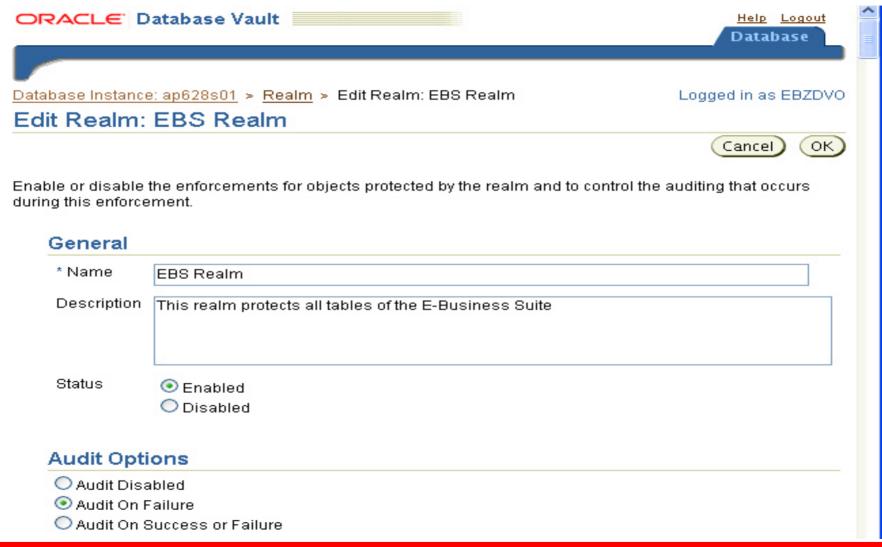
Secure Application Roles

Label Security Integration

Administration

Database Vault Reports General Security Reports Monitor

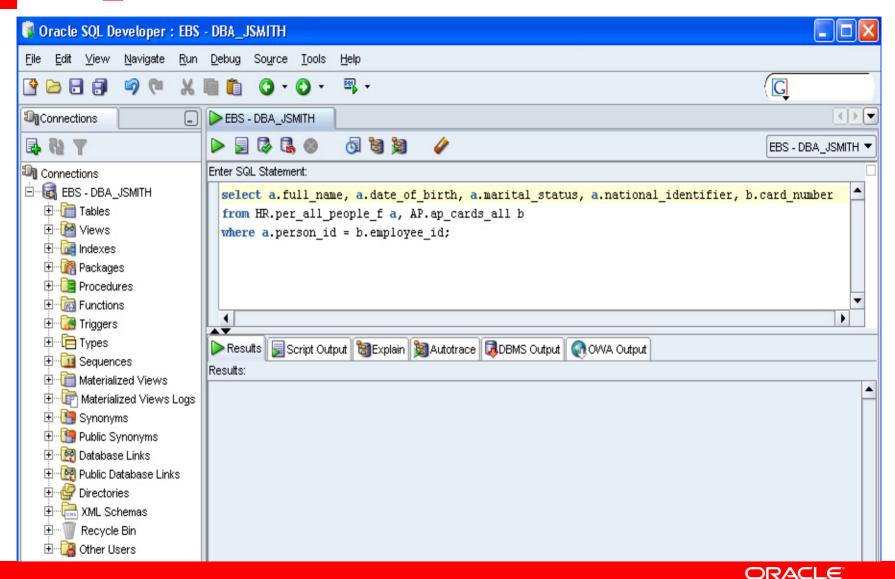
Security Administrator Defines EBS Realm



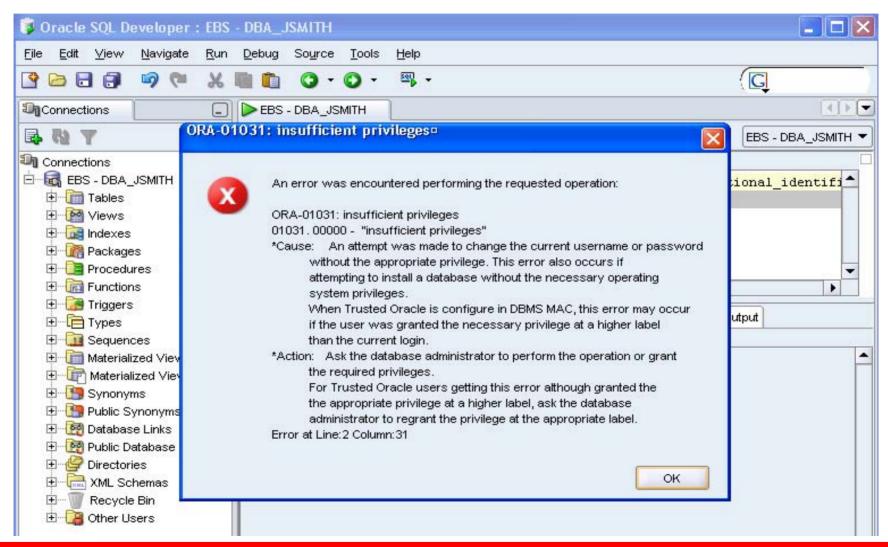
EBS Realms Defined Out-of-the-Box



DBA_JSMITH Tries To Access Sensitive Data



DBA_JSMITH Blocked By Realm Protection



Oracle Database Va	ault (DBV)
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Regulatory Legislation	Regulation Requirement	Does DBV Mitigate This Risk?	
Sarbanes-Oxley Section 302	Unauthorized changes to data	Yes	
Sarbanes-Oxley Section 404	Modification to data, Unauthorized access	Yes	
Sarbanes-Oxley Section 409	Denial of service, Unauthorized access	Yes	
Gramm-Leach-Bliley	Unauthorized access, modification and/or disclosure	Yes	
HIPAA 164.306	Unauthorized access to data	Yes	
HIPAA 164.312	Unauthorized access to data	Yes	
Basel II – Internal Risk Management	Unauthorized access to data	Yes	
CFR Part 11	Unauthorized access to data	Yes	
Japan Privacy Law	Unauthorized access to data	Yes	
PCI - Requirement 7	Restrict access to cardholder data by business need-to-know	Yes	
PCI – Requirement 8.5.6	Enable accounts used by vendors for remote maintenance only during the time period needed	Yes	
PCI – Compensating Controls for Requirement 3.4	Provide ability to restrict access to cardholder data or databases based on the following criteria: IP address/Mac address Application/service User accounts/groups	Yes	
PCI - Requirement A.1: Hosting providers protect cardholder data environment	Ensure that each entity only has access to own cardholder data environment	Yes	

E-Business Suite Supported Versions

Certification with Oracle Database Vault

- E-Business Suite
 - Release 11.5.10 CU2
 - Customers are encouraged to pick the latest Rollup Patch (RUP)
 - Latest RUP is RUP6
 - Apply the EBS patch that creates the Database Vault protections
 - Protections apply to all E-Business Suite modules such as: ERP, Financials, HR, CRM ...etc
 - Metalink note 428503.1 has all the Instructions
- Oracle DB Versions:
 - Oracle Database 10.2.0.3
 - One-off Database Vault patch

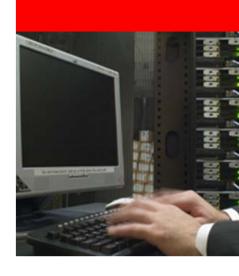


Oracle E-Business Suite

Database Vault Application Protection Matrix

Database Vault with EBS 11i

Realm Name	What is Protected?	Who is authorized to access?
EBS Realm	All tables in Oracle E-Business Suite 11i Product Schemas	All Oracle E-Business Suite 11i Product Schemas and APPS, APPLSYS, SYSTEM, CTXSYS
EBS Realm - Applsys Schema	Most tables in the APPLSYS Schema	APPS, APPLSYS, SYSTEM and CTXSYS
EBS Realm - Apps Schema	All objects in the APPS Schema (except the views)	APPS, APPLSYS, SYSTEM, CTXSYS and All product schemas, that uses intermedia indexes
EBS Realm - Applsyspub Schema	Objects required for EBS authorization	APPS, APPLSYS, SYSTEM, APPLSYSPUB and CTXSYS
EBS Realm - MSC Schema	Tables in the MSC Schema - except those, which require partitions to be exchanged (see script for full details)	APPS, APPLSYS, SYSTEM, CTXSYS and MSC
CTXSYS Data Dictionary	Objects in the CTXSYS Schema	All Oracle E-Business Suite 11i Product Schemas and APPS, APPLSYS, SYSTEM



Oracle E-Business Suite

Database Vault Certification Technical Details

- EBS Realm
 - What is protected?
 - All tables in Oracle E-Business Suite 11i product schemas
 - Who is authorized?
 - All Oracle E-Business Suite 11i product schemas and APPS, APPLSYS, SYSTEM, CTXSYS users

- EBS Realm Applsys Schema
 - What is protected?
 - Most tables in the APPLSYS schema
 - Who is authorized?
 - APPS, APPLSYS, SYSTEM and CTXSYS

- EBS Realm Apps Schema
 - What is protected?
 - All objects in the APPS Schema (except the views)
 - Who is authorized?
 - APPS, APPLSYS, SYSTEM, CTXSYS and all product schemas, which uses Intermedia indexes

- EBS Realm Applsyspub Schema
 - What is protected?
 - All objects required for boot-strapping the EBS applications
 - Who is authorized?
 - APPS, APPLSYS, SYSTEM, APPLSYSPUB and CTXSYS

- EBS Realm MSC Schema
 - What is protected?
 - All Tables in the MSC schema except those requiring partitions to be exchanged
 - Who is authorized?
 - APPS, APPLSYS, SYSTEM, APPLSYSPUB, MSC and CTXSYS

- CTXSYS Data Dictionary
 - What is protected?
 - All objects owned by CTXSYS Schema
 - Who is authorized?
 - All Oracle EBS product schemas in addition to APPS, APPLSYS, and SYSTEM
 - APPS, APPLSYS, and CTXSYS are authorized to the Data Dictionary Realm as well

Patching and Cloning Instructions

- Patching and cloning
 - Step by step instructions provided for EBS patching
 - Database tier cloning works as it is without changes
 - Middle tier cloning works as it is without changes

Extending The Oracle-Supplied Realms

- Why extending the Oracle-supplied realms
 - Customers have additional security requirements
 - Customers need to create additional realms
 - Customers need to authorize named EBS DBAs to realms
 - Step by step how to instructions provided
 - Refer to metalink note 428503.1

- Middle tier 10gAS SSO/OID integration
 - No change is needed, if the integration was done before installing Oracle Database Vault
 - If the integration will be done after, step by step instructions provided
 - Refer to metalink note 428503.1
- Middle tier 10gAS Portal integration
 - Works as it is with no special instructions
- Oracle 10gAS Discoverer integration
 - Step by step instructions provided on what needs to be done
 - Refer to metalink note 428503.1

Major Financial Services Company

Use Case

- Control Privileged Users
 - Prevent DBAs from accessing sensitive data in Realms
 - Setup multiple levels of DBAs
- Control Access based upon environmental factors
 - Restrict hostnames authorized to access the DB
 - Control access based on geography
- Control use of ad-hoc query tools; Enforce maintenance periods
 - Restrict connections by ad-hoc query tools to maintenance times or specific users
- Control Patching activity
 - Patching activity requires another monitoring user to be logged in
- Control unauthorized database changes

Oracle Database Vault

Applications Certification Summary

Application / Product

- PeopleSoft Applications
- E-Business Suite Applications
- Oracle Siebel Applications
- Other partner applications
- Oracle Content DB
- Oracle Internet Directory

Status





(In progress)





Certification With PeopleSoft Applications

PeopleSoft Validation Announcement

- Database Vault is Validated with PeopleSoft Applications
- Press Release issued at RSA 2007

Security

February 2, 2007 Oracle Set to Stake Security Claim By Clint Boulton

Press Release

Source: Oracle Corporation

Oracle(R) Database Vault Delivers Unrivaled Secure Data Access Control for PeopleSoft Applications

Wednesday February 7, 8:30 am ET

Certification With Oracle's PeopleSoft Enterprise Applications Helps Organizations Strengthen Enterprise Security

REDWOOD SHORES, Calif., Feb. 7 /PRNewswire-FirstCall/ -- In response to customer demand, Oracle (Nasdaq: ORCL - News) today announced that Oracle® Database Vault, the industry's most advanced security product designed to protect and limit access to sensitive data and applications, is now certified with Oracle's PeopleSoft Enterprise applications.



February 7, 2007 Oracle Database Vault Delivers Secure Data Access Control for PeopleSoft Applications

Oracle picks up certifications, introduces new software (InfoWorld)

8 feb 2007 | Source: Yahoo News

Validation with PeopleSoft Applications

Supported Versions

- PeopleSoft apps less than 8.4 (e.g., 8.0, 8.1, 8.3)
 - Must be on PeopleTools 8.22
- PeopleSoft apps 8.4 or greater (e.g., 8.4, 8.8, 8.9, 9.0)
 - Must be on PeopleTools 8.46 or greater
- Oracle DB Versions:
 - Oracle Database 10.2.0.3
 - Oracle Database 9.2.0.8
- Database Vault delivered security policies for Peoplesoft at:

http://www.oracle.com/technology/software/products/database_vault/index.html

available for internal as well as customer download



PeopleSoft Application Protection Matrix

Authorized Type Ction Set	SYSADM	PSFTDBA	SYSTEM	DBA
PeopleSoft Realm	OWNER	OWNER	No Access	No Access
Select Command Rule	Not Restricted	Limit PSFTDB Rule Set	No Access	No Access
Connect Command Rule	PeopleSoft Access Rule Set	Not Restricted	Not Restricted	Not Restricted
Drop Tablespace Command Rule	Disabled Rule Set	Disabled Rule Set	Disabled Rule Set	Disabled Rule Set

Health care Customer

Use Case

- Customer on Oracle 9i database
- Using PeopleSoft HCM application release 8.9
- On PeopleTools version 8.46
- Running In a RAC environment
- Using Database Vault delivered security policies with no change
- Was able to go production in two weeks only
- Is running in production for more than 6 months now



Certification With Siebel Applications

Siebel Applications Certification

Supported Versions

- All Siebel modules are supported
 - Service, Sales, Marketing, ...etc
- Siebel 7.7 and above are supported
 - 7.7
 - 7.8
 - 8.x
- Oracle DB Versions:
 - Oracle Database 10.2.0.4
 - Oracle Database 11.1.0.7 (future)



Siebel Application Protection Matrix

Authorized Type Ction	SIEBEL	SIEBELDBA	SADMIN	DBA And SYSTEM
Siebel Realm	OWNER	OWNER	Access through middle tier	No Access
Select Command Rule	Not Restricted	Restrict Select Rule Set	Not Restricted	No Access
Connect Command Rule	Siebel Access Rule Set	Not Restricted	Siebel Access Rule Set	Not Restricted
Drop Tablespace Command Rule	Disabled Rule Set	Disabled Rule Set	Disabled Rule Set	Disabled Rule Set

Learn More

E-Business Suite certification technical details

Visit: http://metalink.oracle.com
 View Metalink note: 428503.1

Steven Chan blog

http://blogs.oracle.com/schan/

Customer facing Technical information, demos, software

Visit: http://otn.oracle.com -> products -> database -> security and compliance -> Oracle Database Vault

Consulting Help

Consulting Quick start implementation
 Contact Michael Beasley

