

ORACLE DATABASE VAULT

KEY BENEFITS



- Prevent access to sensitive application data by privileged users for strong internal controls
- Control access to the applications, databases and data with flexible security controls
- Enable and customize separation-of-duty for security and compliance
- Available for Oracle Database 11g, Oracle Database 10g Release 2, and Oracle Database 9i Release 2
- Certified with Oracle E-Business Suite, Oracle PeopleSoft Applications, Siebel, Oracle Content DB and Oracle Internet Directory

Oracle Database Vault provides powerful security controls for protecting applications and sensitive data. Oracle Database Vault prevents privileged users from accessing application data, restricts ad-hoc database changes and enforces controls over how, when and where application data can be accessed.

Oracle Database Vault secures existing database environments transparently, eliminating costly and time consuming application changes.

Oracle Database Vault

Compliance mandates, outsourcing, and protection of privacy related information are just a few of the security challenges facing organizations today. Oracle Database Vault provides transparent controls to help organizations satisfy the Health Insurance Portability and Accountability Act (HIPAA), Sarbanes-Oxley (SOX), Payment Card Industry (PCI), and numerous breach disclosure laws such as California's SB1386. Oracle Database Vault -

- Prevents privileged database user access to application data
- Enforces real time access controls with multi-factor authorization
- Provides separation-of-duty controls

Privileged User Controls

IT administrators, database administrators, and application administrators fill highly trusted positions within the enterprise. However, regulatory compliance, outsourcing, application consolidation and increasing concerns over insider threats have resulted in an almost mandatory requirement for strong controls on access to sensitive application data. With Oracle Database Vault Realms, enterprises can prevent privileged users from accessing application data. Realms are easily defined and can be placed around an entire application or a set of tables quickly and easily.

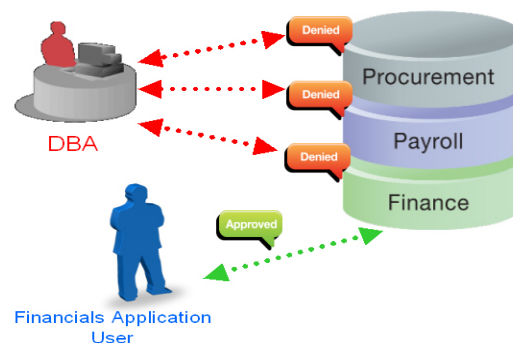


Figure 1 - Oracle Database Vault Realms

RELATED PRODUCTS AND SERVICES:

The following products provide additional security to help meet privacy and regulatory requirements:

- Oracle Advanced Security
 - Transparent Data Encryption for Oracle databases at the tablespace or column level
 - 3DES, AES 128, 192, 256
 - Network Encryption, SSL
 - Strong authentication using Kerberos and PKI

- Oracle Audit Vault
 - Secure and consolidate audit data from Oracle 9i and later databases, SQL Server 2000 and 2005 databases
 - Built-in reports for compliance and privileged user activity
 - Raise alerts on suspicious activity
 - Centrally manage audit policies for Oracle databases

- Oracle Label Security
 - Transparent row level access controls using data labels
 - Multi-level security for government and defense organizations
 - Flexible, policy based architecture for commercial organizations

- Oracle Data Masking
 - De-identify privacy related application data non-production environments
 - Create masking policies for easy management

Real Time Access Controls

Oracle Database Vault Rules and Factors significantly tighten security by limiting who, when, where and how databases, data and an applications can be accessed. Multiple factors such as IP address, time of day and authentication method can be used in a flexible and adaptable manner to enforce access control without making changes to the application. For example, access can be restricted to a middle tier, creating a “trusted-path” to the application data and preventing use of ad-hoc tools. Oracle Database Vault command rules and rule sets can be used to enable security policies for virtually all SQL commands.

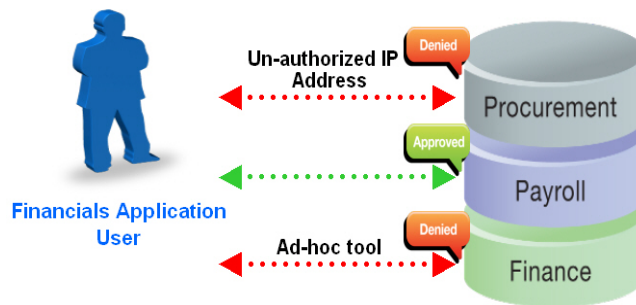


Figure 2 – Oracle Database Vault Command Rules and Multi-factor Authorization

Separation of Duty

Oracle Database Vault provides powerful separation of duty controls. Oracle Database Vault provides three distinct responsibilities out-of-the-box for security administration, account management, and day-to-day database administration activities. For example, Oracle Database Vault blocks a DBA with the *create user* privilege from creating a new user if the DBA doesn't have the proper responsibility. Organizations with limited resources can setup multiple accounts and still benefit from the separation-of-duty enforcement provided by Database Vault.

Application Validation

Out-of-the-box Database Vault policies are available for numerous applications on the Oracle Technology Network and Oracle Metalink. Additional applications, including partner applications, are in the process of being validated.

Application	Validation Status
E-Business Suite 11i / R12	✓
PeopleSoft	✓
Siebel	✓
Oracle Internet Directory	✓
Oracle Content DB	✓

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