

ORACLE GOLDENGATE WITH ORACLE DATABASE SECURITY

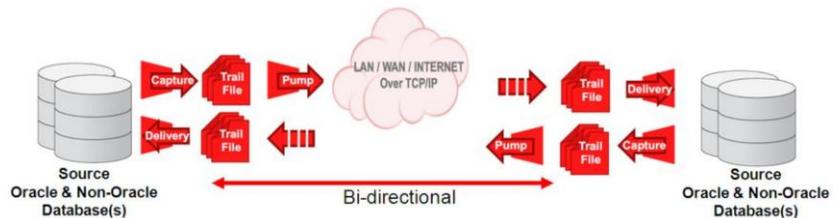
KEY FEATURES AND BENEFITS

- Seamless replication of data from and between Oracle Databases configured with Oracle's industry leading database security solutions
- Replicate data from Oracle Databases protected with Oracle Advanced Security TDE to Oracle or non-Oracle destinations
- Replicate data from Oracle Databases protected with Oracle Database Vault to Oracle or non-Oracle destinations
- Seamless interoperability with Oracle Advanced Security TDE built-in key management

Oracle provides industry leading database security solutions to help customers protect sensitive data and address regulatory compliance requirements. Oracle GoldenGate provides real-time, high performance, database replication across distributed and heterogeneous databases. Together, Oracle GoldenGate and Oracle Database Security solutions provide industry leading security combined with real time capture and replication of business critical data. Oracle Advanced Security Transparent Data Encryption can be used with Oracle GoldenGate, enabling data to be encrypted at rest and efficiently replicated.

Overview of Oracle GoldenGate

Business-critical systems must offer high availability, ensure fast and easy access to the right data, and quickly adapt to changing business and IT demands. With transaction volumes increasing at an exponential rate as more and more business processes are conducted online, many organizations need a better solution to collect and deliver immediate access to the tremendous amount of enterprise data. Oracle GoldenGate provides real-time capture, transformation, routing, and delivery of database information while maintaining transactional integrity.



Overview of Oracle Database Security

Oracle Databases provide defense-in-depth, inside-out security, protecting data from attack from both inside and outside the database. Privileged user controls, multi-factor authorization, transparent data encryption, auditing, configuration scanning, and SQL monitoring, are just a few of the industry leading security controls Oracle offers.

Oracle Advanced Security Transparent Data Encryption (TDE) provides highly optimized encryption of data at rest inside the Oracle Database. TDE helps address regulatory requirements while preventing privileged and unauthorized operating system users from directly accessing sensitive information by inspecting the contents of database files. TDE also protects against theft, loss or improper decommissioning of database storage media and backups. To protect data at rest inside of the Oracle Database, Oracle Advanced Security TDE encrypts data before it is written to storage and automatically decrypts data when reading it from storage, without requiring any changes to existing applications. Access controls that are enforced inside of the Oracle Database, including object grants and roles, still remain in

effect. TDE provides a robust, two-tier key management architecture consisting of a master encryption key and separate data encryption keys. The current and historical master keys are stored outside of the database in an Oracle Wallet, and they easily can be rotated to meet compliance requirements.

Oracle Database Vault prevents access to sensitive data and other unauthorized activities within the Oracle Database by insiders or privileged accounts that have been compromised. Oracle Database Vault realms block DBA privileges from being abused to bypass traditional privilege grants. Oracle Database Vault command rules can enforce specific operational controls to prevent actions by privileged users that may compromise the security of the database.

Benefits of Using Oracle Database Security and Oracle GoldenGate

The amount of sensitive data stored in databases and replicated between environments continues to grow, and the need to secure that data has never been greater. Hackers continue to target privileged accounts inside and outside of databases. Working in concert, Oracle Database Security solutions and Oracle GoldenGate provide unparalleled, industry leading solutions for securing and replicating data. Oracle GoldenGate works with Oracle Advanced Security TDE and Oracle Database Vault. Oracle Advanced Security TDE, Oracle Database Vault and Oracle GoldenGate are certified with multiple software applications, including Oracle applications such as E-Business Suite, Oracle PeopleSoft Enterprise, and Oracle JD Edwards Enterprise.

Contact Us

For more information about Oracle Database Security or Oracle GoldenGate, visit oracle.com or call +1.800.ORACLE1 to speak with an Oracle representative.



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Hardware and Software, Engineered to Work Together