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accessed data blocks are cached in memory in the same manner as traditional nonencrypted data blocks. This efficient use of native database performance optimizations enables TDE to minimize overhead. TDE tablespace and column encryption also can be used in combination within the same database for hybrid encryption solutions.

Key Management

Oracle Advanced Security provides a built-in, two-tier key management architecture, consisting of a master encryption key and one or more data encryption keys. The TDE master encryption key is used to encrypt and protect the data encryption keys. The master encryption key resides outside of the database in the Oracle Wallet.

Strong Protection for Data In Transit

Oracle Advanced Security provides standards-based network encryption for protecting all communication to and from the Oracle Database. Connections can be rejected from clients that have encryption turned off. No changes to existing applications are required, allowing businesses to easily deploy network encryption.

Strong Authentication Replaces Password Based Authentication

Oracle Advanced Security provides strong authentication to the database using Kerberos, PKI or RADIUS. Oracle Advanced Security interoperates with the Microsoft Kerberos and MIT Kerberos v5. With Oracle Advanced Security, customers can require their users to plug-in a Smart Card (CAC, HSPD-12) as part of their SSL-based authentication to the Oracle Database.

Strong Protection for Database Backups

Data encrypted with TDE remains encrypted when the database files are backed-up to disk with Oracle RMAN. Oracle RMAN can also use TDE during the backup process to encrypt the entire database backup, including the SYSTEM and SYSAUX tablespaces. In addition, Oracle RMAN compression and TDE can be used together to generate backups that are both compact and secure.

Application Certification with Transparent Data Encryption

Oracle Advanced Security TDE is certified with many applications, including Oracle E-Business Suite, Oracle PeopleSoft Enterprise, Oracle Siebel CRM, Oracle JD Edwards EnterpriseOne and SAP.

Contact Us

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



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