

North American Telco Case Study

Encryption and Centralized Key Management Project

Client Overview

Key Issues:

- Diversified Fortune 500 North American telecommunications company with wireless, cable, business solutions, and media operations
- Board of Directors directive:
 - Encrypt databases for 50+ applications that manage customer information
 - Implement OKV
 - Encrypt databases on Exadata
 - Migrate databases to Exadata from AIX and HP-UX, then encrypt them on Exadata



How Our Consultants Helped

- Analysis to determine requirements, use case and technology needs for a global centralized key management system
- Complete a design for Oracle Key Vault to manage keys for encrypted databases
 - High Availability with multiple primary and standby OKV servers
 - Manage keys for 50 application databases
 - Databases 20TB+ in size
- Extensive detail sharing to enable client self-sufficiency – to maintain, support and grow the Key Management System



Results

- Met the audit directive issued by the client's Board of Directors
- Database encryption for 50+ applications
- Migration (and encryption) of databases from AIX and HP-UX servers to standardized Exadata systems
- Large scale encryption successfully navigated the client's challenging change windows and mandatory blackout period
- Centralized Key Management with knowledge to support the system post go-live
 - Client self-sufficiency to maintain and grow the Key Management System as requirements evolve