North American Telco Case Study
Encryption and Centralized Key Management Project

Client Overview

- Diversified North American telecommunications company with wireless, cable, business solutions, and media operations

- $13.7 billion in revenue in 2016.

- Board of Directors directive: encrypt databases for 50+ applications that manage customer information by the end of 2016
  - 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

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