Data Guard Experiences

GOOD AT
• Rock solid inexpensive way to provide DR without the use of often expensive disk replication solutions.
• No limitation on distance between sites.
• No limitation on data types.
• Can be used in conjunction with compression and encryption.

POSSIBILITIES
• Could not use the DR site for reporting unless redo apply was stopped.
• Lost scalability and return on investment opportunities with DR hardware.
Requirements

• Address potential production impact of Reporting and AdHoc queries.
• Increase ROI stream of DR assets.
• Create DR fast incremental backups.
Active Data Guard Experiences

- Simple to deploy.
- Recoup capital investment or disaster recovery through more efficient use of hardware.
- Impact of Ad/Hoc queries isolated.
- Business Technology teams able to troubleshoot data issues in real time without impact to online portal.
- Larger run window for reporting jobs/feeds.
- Read only database services change is transparent to application.
Reporting\Ad-Hoc Query Offloading

Active Data Guard

Reporting\AdHoc Query

Application Server Connections

APP RPTG\BATCH

Primary DB

Secondary DB
Read Only Transaction Load Balancing

- APP Servers
- Active Data Guard
- Read Only Transactions
- Read/Write Transactions
- Client Side Load Balancing
- Secondary DB
- Primary DB
Lessons Learned

- Define SLA for read only transactions.
- Define Enterprise Manager beacon tests for read only DR site.
- Use triggers and DB role to manage cluster services during role transitions.
- Use Data Guard Broker.
- Do configure Oracle client side load balancing.