



**Data Arching Strategy –Database Administration Overview**

**Meeting Date:** December 15, 2015 / 3:30 PM

**Purpose / Intended Outcome**

* DBA Technology Overview
* Oracle upgrade planned for 2016
* Challenges in roles

**Discussion Items**

* + Getting the business to agree on data management/purging has been a challenge
		- Looked at a partitioning strategy, but the project died
			* Had a strategy – didn’t like the archival aspect when talking about production
			* Concern of testing
			* Technically constraints – HP hardware (8 years old); changes would take a long time

o ESI is operating 8 times faster after hardware refresh

* + Consumption of disk space and management
		- Not worried about performance if data footprint increases
			* Left unchecked, performance issue will happened again though
	+ DBAs have had to be reactionary versus on the front end of the design process
* Not really spending time rebuilding indexes – not best practices
	+ Don’t do a lot of deleting, mostly inserts, so don’t have fragmentation
* Partitioning
	+ Claim and line item tables – by date was obvious in 2008-2009
		- Didn’t know how things would be growing or where needs would be
	+ There wasn’t a project to put it together
		- Need to work together with how to partition data
	+ Want to get rid of dead data – don’t want to partition things not used by the business
* Databases
	+ 90% of information on Solaris, Spark
	+ Handful of stuff on HP UX – Federal mostly
	+ Number of production databases – 15
		- Bulk of ETS is in one database
		- Separation with provider and Renaissance
		- Closer to 21 DB in UAT, 15 DB in Test, 4 DB in Dev
* Quarterly patches – done about twice a year

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o Don’t have a regular patching strategy

* Application code migration
	+ Dev -> Test -> UAT -> production
* Stored procedures, schemas, Code value updates
	+ ETS – DDL and store procedures done on build weekend; manual process
* How do DBAs share data internally between applications
	+ Application code lives in Java
	+ Java code will request data from DW
* Additional opportunities
	+ Reporting database (CDC) is currently manual and will be automated next year
	+ Shrinking the database size – Claim PR2 has growth by 5 TB in the last 5 months
		- Added 100 TB with hardware refresh
		- Add 100MM records a month
	+ File and table organization
		- Use all small files now
		- Tables will need to be reorganize when data is purged
		- Talking about the physical storage
	+ Backup and recovery strategy
		- Don’t have a great place for full image copies
	+ Multi-tendency

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