Visibility into Exadata Nodes Improves Utilization
Objectives

• Improve Exadata utilization
• Visibility into nodes
• Prepare for Exadata in-memory
Exadata Architecture

Exadata: one platform...

...or eight nodes?
Scan Listener Architecture

Scan Listener

Node 1 Listener

Node 2 Listener

...

Node 8 Listener
Hypothesis: Visibility Needed

- Scan listener assigns on predicted workload
- Analyze and tune actual workload
- Deeper visibility improves the ability to tune a workload
Factors outside the database

Compliance

Complex

Unpredictable

Dynamic

Disruptive

Rogue

Inefficient

Data

Queries

Users

Applications BI/DW Analytics

Query Results
Are your nodes balanced?

- Balanced executions?
- Balanced workload?
- Balanced data consumption?
Case Studies

• FinServ (12/24 nodes) – CRM gone wild!
• Insurance (8 nodes) – Legacy ETL and Legacy CRS disrupt environment
• Manufacturer (8 nodes) – Rampant data warehouse auditor takes over
• Publisher (8/16 nodes) – homegrown apps connections / where is node 3?
Framework for visibility

- Capture database activity
- Aggregate activity into views
- Analyze
- Act
Preparing for in-memory

• What data objects are used?
• When?
• How frequently?
Visibility needed to manage

- Visibility by is critical
- Activities occur that scan listener does not understand
- Estimates and actuals do vary
About the speaker

• 30+ years in IT
• Focused on DW, BI, Big Data, ‘data science of operational metadata’
• Consults with many F500 Exadata users
About Teleran

Provide visibility, through analytics, to deliver business value in data-intensive environments

- Software & services company
- Focus data-intensive landscapes
- 5th generation products
- Patented technologies
### Selected Customers

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<th>Category</th>
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<tr>
<td>Banking</td>
<td>Bank of America, Wells Fargo, Scotiabank</td>
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<td>Other</td>
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