Oracle GoldenGate and Oracle Streams: The Future of Oracle Replication and Data Integration

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Oracle Corporation
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GoldenGate is Strategic to Oracle

- Best-in-class leader in real-time data solutions
- Complements existing Oracle products
  - Continuous Availability for heterogeneous systems
  - Real-time data access for Reporting
  - Real-time data for BI, EPM, Exadata
  - Zero-downtime migrations / upgrades to Oracle Database and Applications

- Over 400 customers with 4,000+ implementations across Fortune 500 companies: Financial Services, Communications, Healthcare, Public Sector, Retail & Utilities industries
  - Top 3 of 5 largest commercial banks
  - Top 3 of 3 busiest ATM networks
  - Top 7 of 10 financial data services companies
  - Top 4 of 5 telecommunications providers
  - Top 3 of 5 largest food & drug stores
Oracle GoldenGate delivers real-time access of real-time information, enabling companies to dramatically improve the availability, reliability, and performance of critical data across enterprise systems.
GoldenGate and Streams

- GoldenGate is Oracle’s strategic replication solution
- Streams continues to be a supported Oracle Database feature
- Best Streams technology will be integrated into GoldenGate
GoldenGate and Data Guard

- Information Distribution & Consolidation, Application Upgrades & Changes
  - Use **GoldenGate** - heterogeneous, active-active, transformations, subsetting
- Disaster Recovery / Data Protection / HA
  - Simple Full Oracle Database Protection
    - Use **Active Data Guard**
    - High-performance, simple, drop-in solution for HA and DR, readable at standby
    - Works for all apps and data types, including packaged apps that can’t be changed
  - Application desiring flexible HA, active-active, schema changes, platform changes
    - Use **GoldenGate**
    - Avoid or manage active-active conflicts at application level
- Combine the two for full database protection and information distribution
GoldenGate and Data Integrator

- **Fastest real-time solution**
- Sub-second latency for real-time feeds
- Guarantee delivery eliminates data loss
- Eliminates down-time for migration and upgrades
- Least intrusive to source systems

- **Fastest E-LT Solution**
- Optimized SET-based transformation for high volume transformations
- Data lineage for improved manageability
- Integrates to Data Quality

Bulk Data Movement and Transformation

Real-Time Data Integration and Replication

Oracle Data Integrator Enterprise Edition

Oracle GoldenGate
Oracle Real Time Data Integration
Oracle’s Unique Offering for Real Time Business Intelligence

1. **Oracle GoldenGate**
   - Real time extracts from transactional systems
     - Non-invasive on sources
   - Continuous streaming load into ODS Schema of target
     - Latency in seconds

2. **Oracle Data Integrator EE**
   - High Performance ‘E-LT’ on target data warehouse
     - Periodic mini-batches (15 min)
     - Transform in the Database
     - Never go back to sources
# Heterogeneous Databases and Platforms

<table>
<thead>
<tr>
<th>Databases</th>
<th>O/S and Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capture:</strong></td>
<td>• Windows 2000, 2003, XP</td>
</tr>
<tr>
<td>▪ Oracle</td>
<td>• Linux</td>
</tr>
<tr>
<td>▪ DB2</td>
<td>• Sun Solaris</td>
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<tr>
<td>▪ Microsoft SQL Server</td>
<td>• HP NonStop</td>
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<tr>
<td>▪ Sybase ASE</td>
<td>• HP-UX</td>
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<tr>
<td>▪ Teradata</td>
<td>• HP TRU64</td>
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<tr>
<td>▪ Enscribe</td>
<td>• HP OpenVMS</td>
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<tr>
<td>▪ SQL/MP</td>
<td>• IBM AIX</td>
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<tr>
<td>▪ SQL/MX</td>
<td>• IBM z/OS</td>
</tr>
<tr>
<td><strong>Delivery</strong></td>
<td></td>
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<tr>
<td>▪ All listed above, plus:</td>
<td></td>
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<tr>
<td>▪ HP Neoview, Netezza, Greenplum, and any ODBC compatible databases</td>
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<tr>
<td>▪ ETL products</td>
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<tr>
<td>▪ JMS message queues</td>
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<td>▪ MySQL</td>
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<td>▪ TimesTen</td>
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