

ORACLE®

Bridging the Big Data Divide with Oracle Data Integration

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Diverse Data Sets

Information Architectures Today: Decisions based on transactional data







transactions, applications, structured Data

Information Architectures Today: Decisions based on all your data Video and Images





Social Data

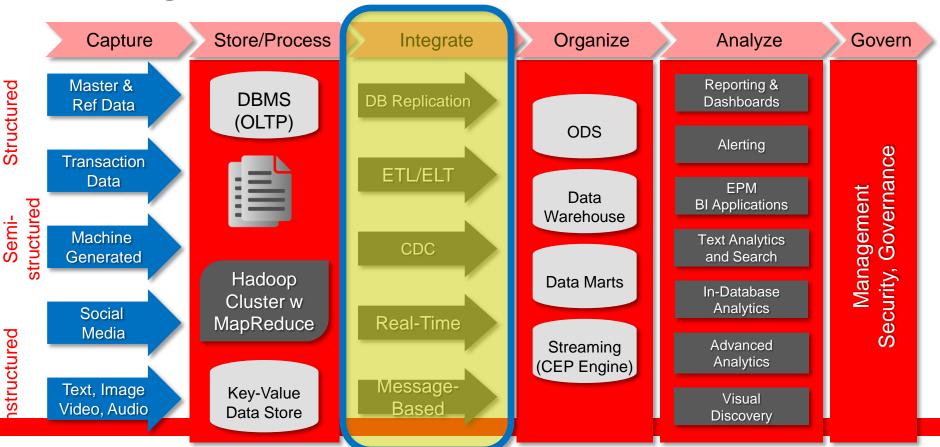


Machine-Generated Data

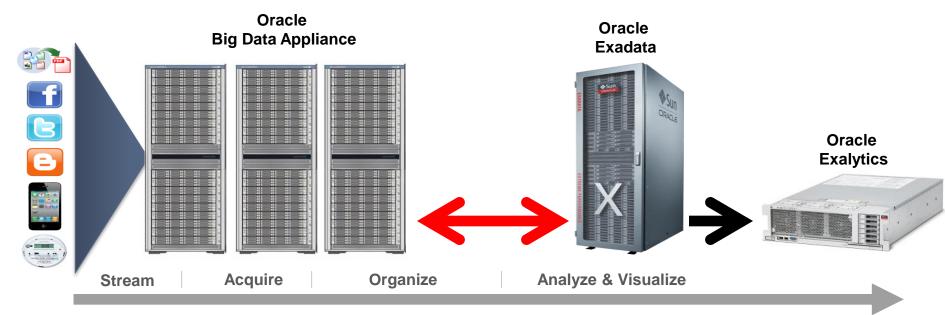




Integrated Architecture

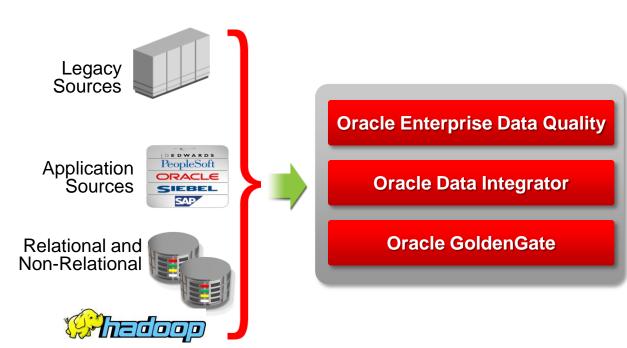


Integrate Big Data with DW and Transactional Data Stores

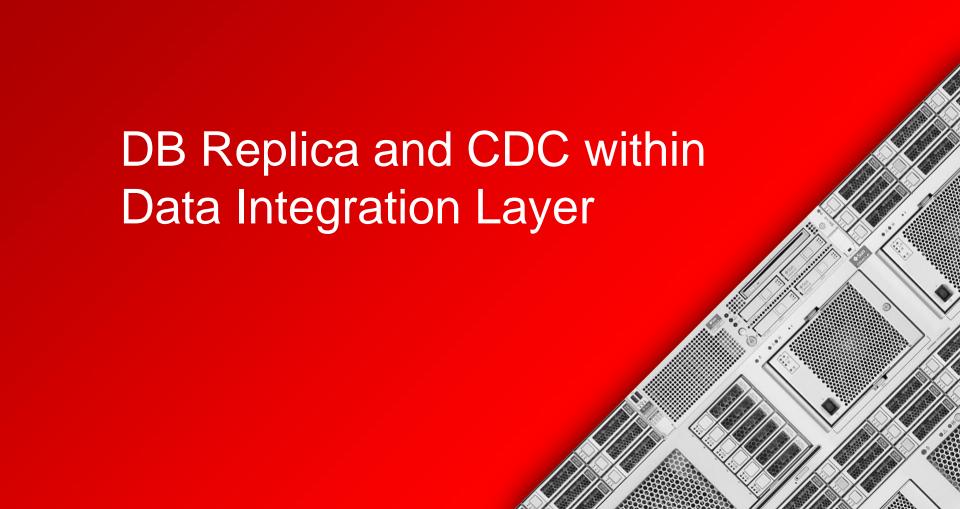


- □ Load from big data processing into your data warehouse for further analysis
- □ Access your customer information while you process through your big data in order to look for patterns

Oracle Data Integration Solutions



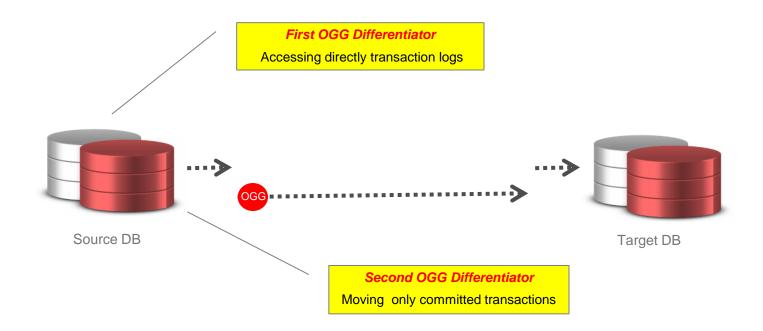
- Complete and best-of-breed approach to address enterprise integration
- Maximum performance with lower cost of ownership, ease of use, and reliability.
- Certified for leading technologies to deliver fast time to value
- Oracle customers report:
 - 80% lower TCO
 - Five times higher performance
 - 70% reduction in development costs



What is Oracle GoldenGate?

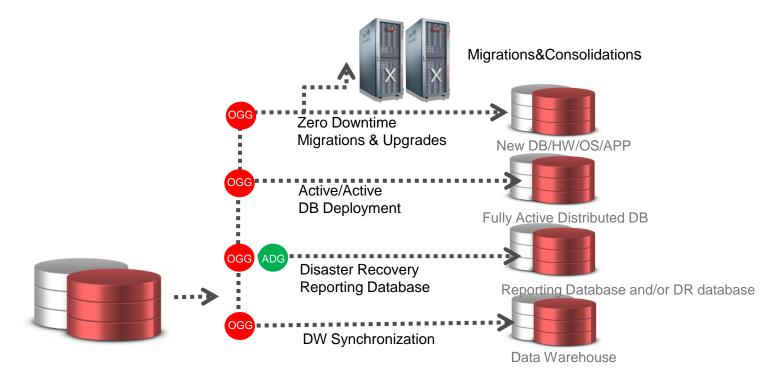


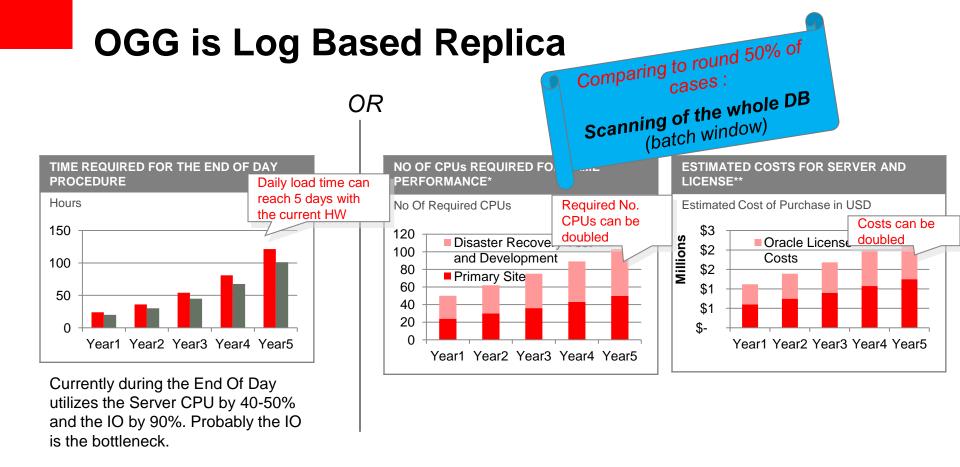
What is Oracle GoldenGate?





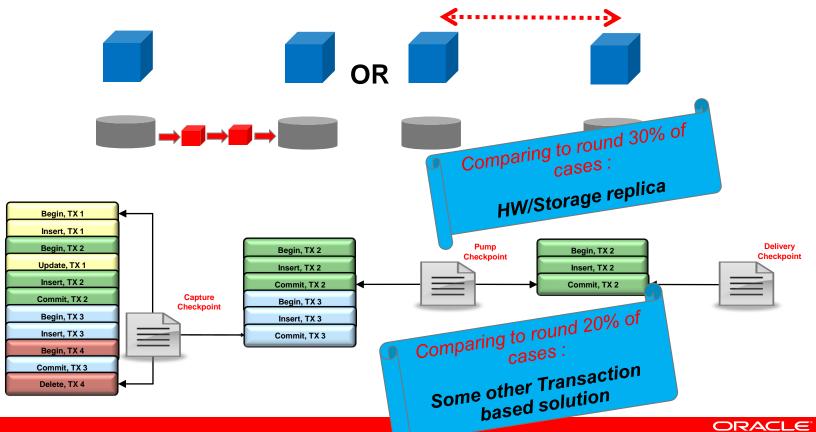
Oracle DIS Use Cases - OGG





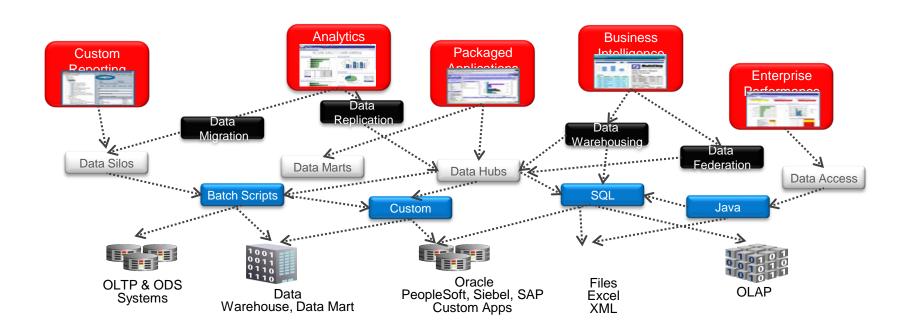


OGG Moves Only Committed Transactions



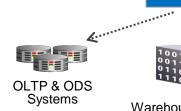


ODI is centralizing all ETL Development



ODI is centralizing all ETL Development Comparing to round 80% of Comparing to round 80% of Cases: **Using Manual Coding** Custom Packaged Reporting Enterprise *********







Data Warehouse, Data Mart



Oracle PeopleSoft, Siebel, SAP Custom Apps



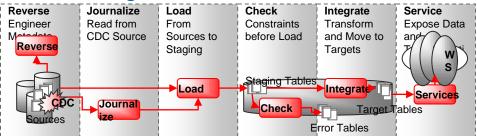


Why is ODI different?

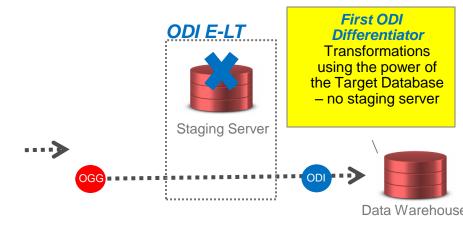
Second ODI Differentiator

ODI Declarative Design and ODI Knowledge Modules for reusing already written down level SQL code

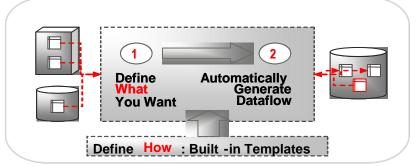
ODI Knowledge Modules



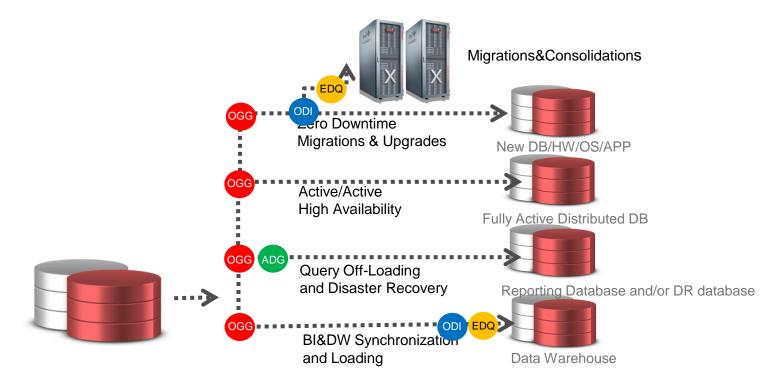




ODI Declarative Design

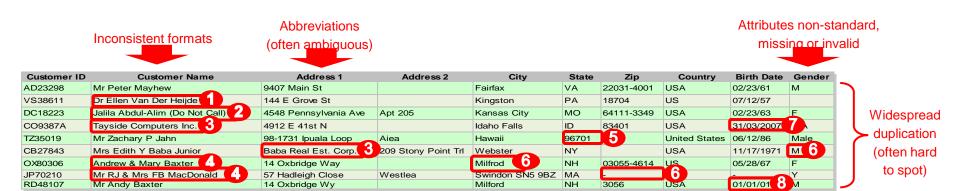


Oracle DIS Use Cases – ODI and EDQ





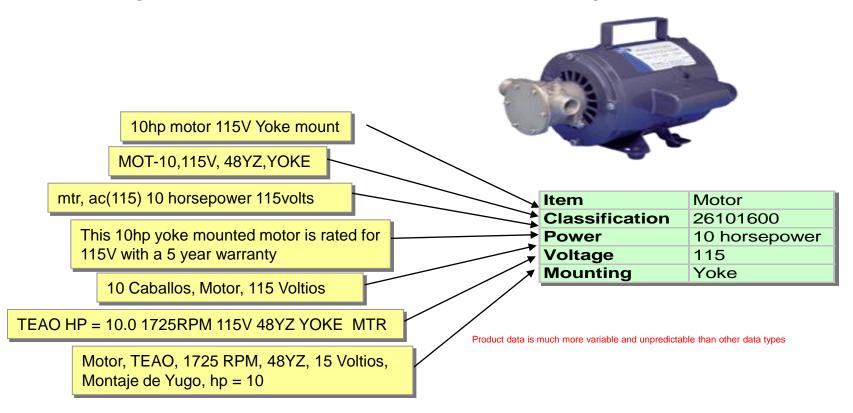
Why Do We Need Data Quality?



- Compound Names
- Embedded Additional Information
- Mixed Business & Personal Names
- Multiple Names

- Mis-Fielded Data
- 6 Erroneous Data
- International Date Formats
- 8 Default or Dummy Data

Why Do We Need Data Quality?



Oracle Enterprise Data Quality

 Profile, Audit, Transform, Parse, Cleanse, Standardize, Match within One Unified Solution





EDQ Address Verification

300 Berry #1210 SF California

Parse Validate

PremiseNumber	300	300
ThoroughfareName	Berry	Berry St
SubPremise	#1210	Unit 1210
Locality	SF	San Francisco
AdministrativeArea	California	CA
PostCode		94158-1670

Latitude 37.775837 **Longitude** -122.39557



Step 1 Extract pieces of the address

Step 2 Check the pieces against the information in the Global Knowledge Repository to complete and find the correct abbreviations

Step 3 Change character set – transliterate - if necessary

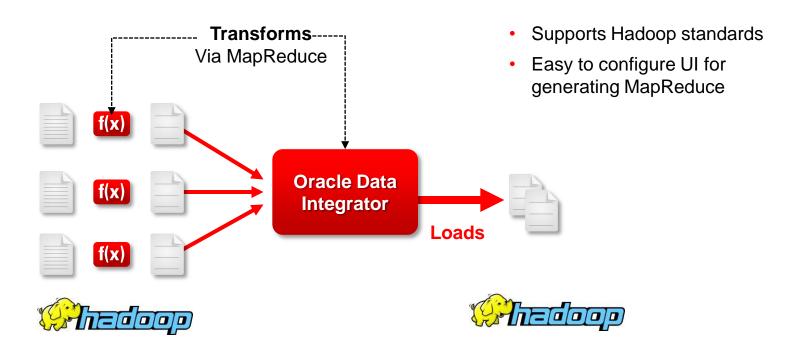
Step 4 Find Location





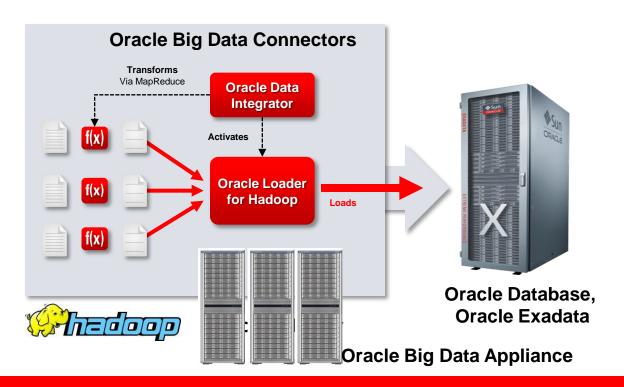
ODI for Big Data

Heterogeneous Integration to Hadoop Environments



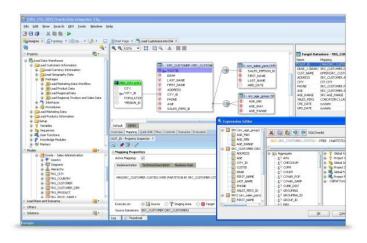
ODI for Big Data to Oracle

Optimized Integration to Oracle Exadata



Oracle Data Integrator for Big Data

Putting Together the Unique Advantages



Simplifies creation of Hadoop and MapReduce code to boost productivity

Integrates big data heterogeneously via industry standards: Hadoop, MapReduce, Hive, NoSQL, HDFS

Unifies integration tooling across unstructured/semi-structured and structured data

Optimizes loading of big data to Oracle Exadata using Oracle Big Data Connectors

Engineered for running on and integrating with Oracle Big Data Appliance via Big Data Connectors

