

Integrating Data in Oracle Environments

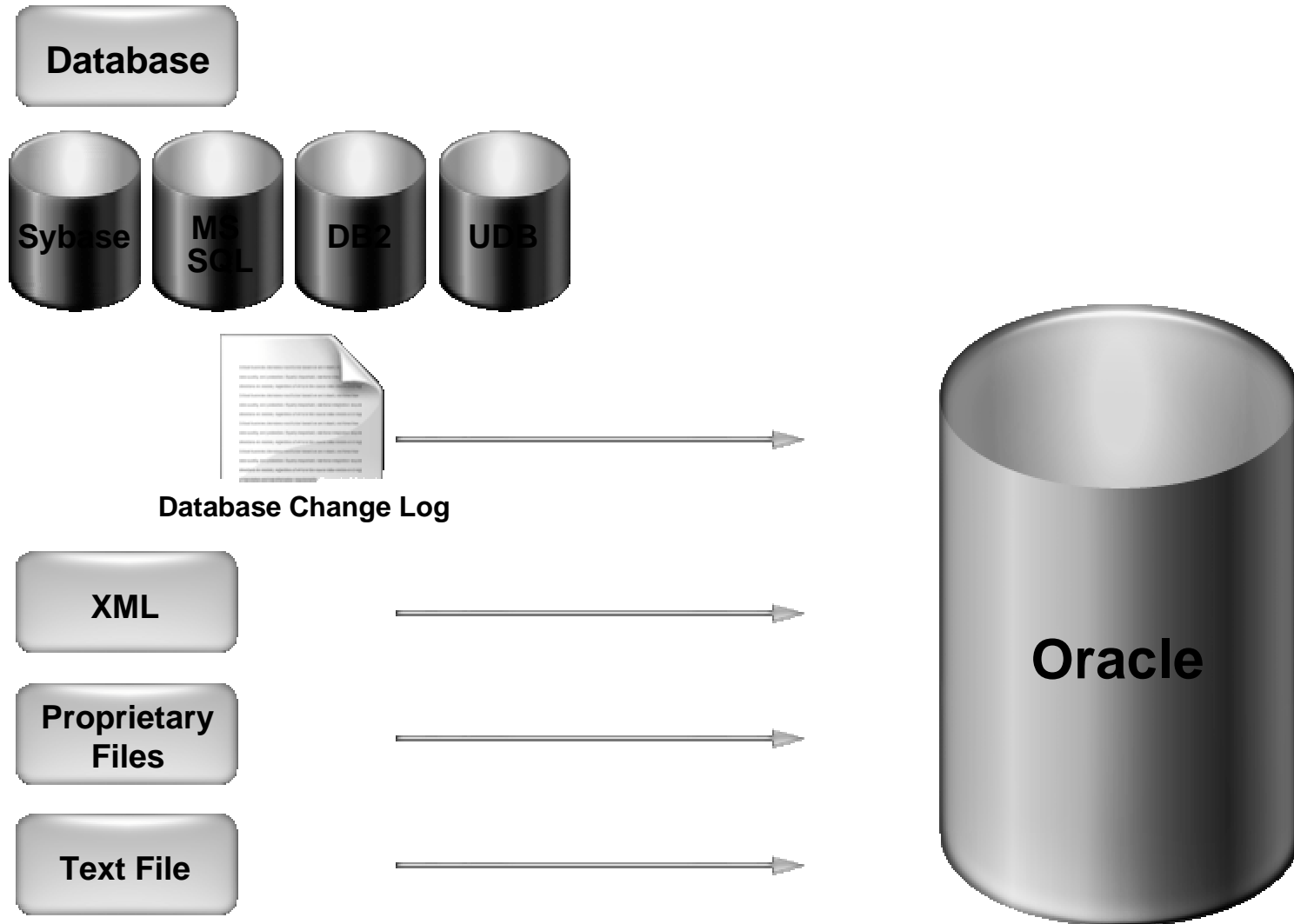
- Reasons for heterogeneous integration
- Sources of data
- Types of data integration
 - ETL: Extract Transform and Load
 - EAI: Enterprise Application Integration
 - DTC: Detect, Transform, Communicate
- Summary
- Q & A

Why Heterogeneous Integration? **DataMirror®**

- Company acquisitions - differing environments
- Purchased applications - database requirements
- Legacy applications
- Load balancing
- Complexity and cost of ownership for disparate databases
- Need for specialized data stores
- Have complete view of all business information

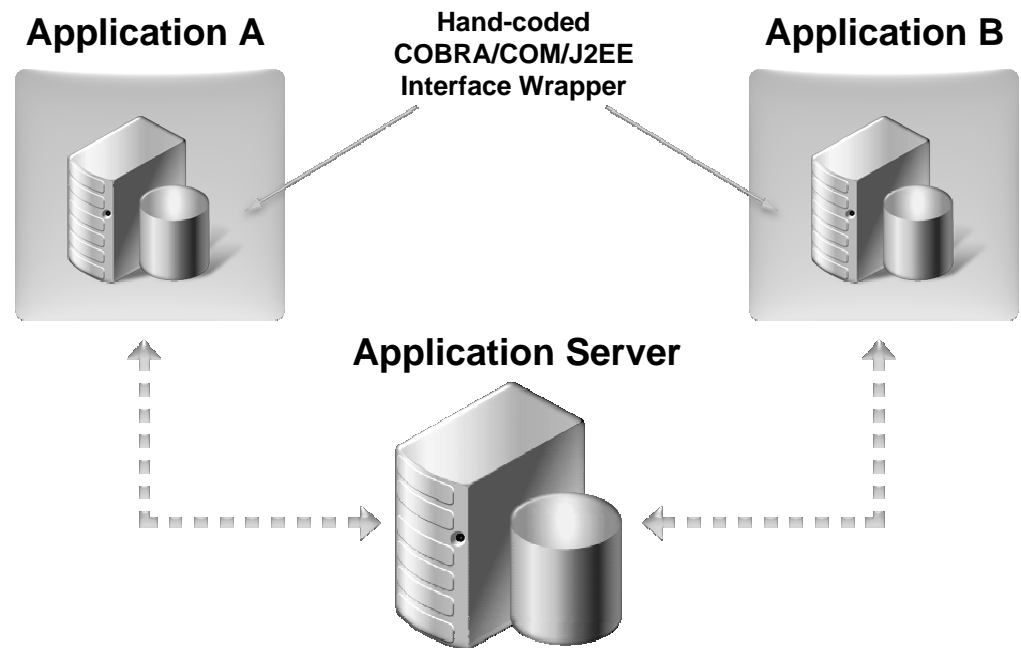
Database Support & Flat Files

DataMirror[®]



JMS Application Servers:

- BEA Weblogic
- IBM Websphere
- iPlanet
- SeeBeyond
- webMethods
- Vitria
- Sun ONE
- Oracle 9i Application Server

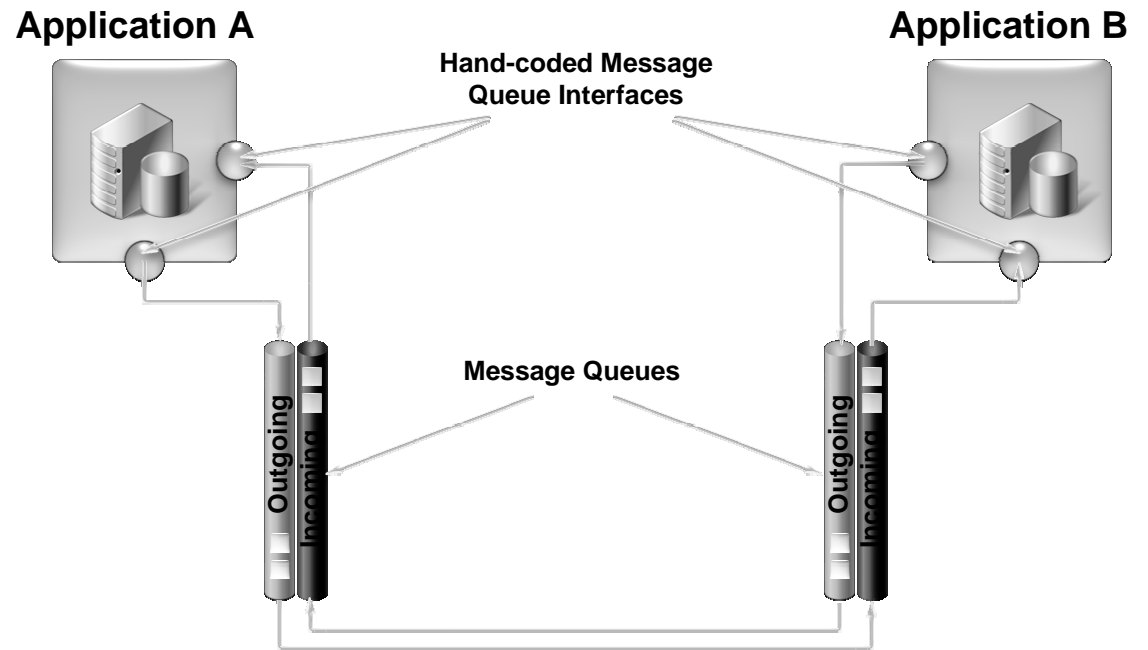


Application Servers coordinate transactions between applications, but customers must program standard interface wrappers to the application server.

Application Message Queues

JMS Message Queues:

- IBM MQSeries
- Sonic MQ
- Tibco
- Oracle AQ



Types of Oracle Data Integration



- ETL: Extract Transform and Load
- EAI: Enterprise Application Integration
- DTC: Detect, Transform, Communicate
- Others:
 - EII: Enterprise Information Integration
 - Block Replication
 - Custom Integration Code

- Integrate disparate data sources
- Complex transformations
- Low TCO - hides database complexities
- Database access as opposed to logs
- Handles large data volumes
- Light footprint due to PULL rather than Push technology

- Database access as opposed to logs
- Batch processing vs. real-time
- Requires extensive re-work to handle real-time
- Rigid – RDBMS, application packages, and flat files
- Back office, un-attended integration

- Transaction-Oriented
 - Ensures transactional integrity
- Event-driven
- Enables Business Process Automation
- Efficient transactional message movement

- Complex to maintain
- Not highly scalable
- Complex to deploy
- Expensive to setup
- Complex to maintain

DTC – Advantages



- Asynchronous
- Log Access
- Access to timely data
- Load Balancing
- Push-based Technology
- Change Data Capture
- Flexible – supports both real-time and batch mode integration

"The big trend in data integration is real-time reporting and analysis that enable more rapid business action based on deeper business insights."

Integration Landscape 2005, Forrester Research Inc., Dec. 2004

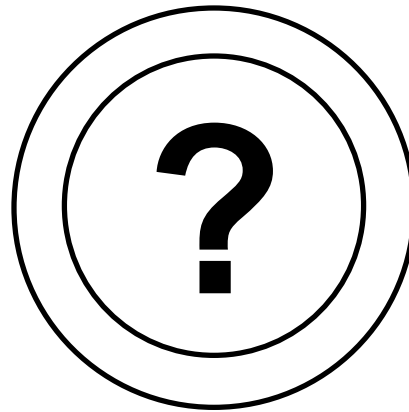
DTC – Disadvantages



- Doesn't handle message queues
- Doesn't handle proprietary formats (non-rdbms)
- Doesn't validate transaction process

Heterogeneous Integration Summary ***DataMirror®***

- Information stored in more than one format
 - Large variety of data sources
 - Open (relational & flat file)
 - Proprietary
 - Applications
- To get a complete view of your business, you must integrate the data stored in these systems
- Several different methodologies for integration
 - EAI, ETL, DTC
- Must select the methodology that best suits each business problem



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