

The Situation

Copyright Clearance Center was planning a data mart to be used as a base for their copyright distribution reporting. Though the task seemed overwhelming, Integra was called in to help.

The Challenge

A method of determining changes, transforming the production data and loading it into the Data Mart was needed. Integra was asked to design and build a process to detect data changes, and "flatten" the data from the production database, and load it into a staging area and then into the data mart.

The Response

Oracle's Change Data Capture (CDC) was used to track and store changes made to the production tables. CDC works with the Oracle archive logs, to immediately capture any inserts, updates and deletes made to the production tables. It then publishes those changes to separate tables to be used for the Data Mart Load. Integra used Oracle's Warehouse Builder (and Extract, Transform, and Load tool) to build complex, high-speed

PL/SQL transformations to "flatten" the production data and to collect Meta data about the load. Integra worked closely with the Copyright Clearance Center staff to determine the requirements, define and document the load process and data mart entities, and build the system.

The Result

Integra was able to put in place the building blocks required for a sound data mart and load process. By using high-level, integrated tools such as OWB, and CDC, Copyright Clearance Center staff was able to understand and maintain the system after Integra's consultants left.

The Technology

Oracle9i, Oracle Warehouse Builder (OWB), Oracle Change Data Capture (CDC), PL/SQL



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