

Oracle Warehouse Builder Architecture

Overview

There are two methods for migrating code to Production (Software Change Management). This document will outline the two methods and will list the advantages and concerns of each method.

The OWB product consists of a set of tools that allow a developer to map how data will be migrated from one system to the next, using a graphical interface to represent each ETL map. The definition of the ETL maps are stored as metadata in a database schema known as the "Design Repository". Once a map is ready to be tested, OWB generates PL/SQL code from the ETL map's metadata, and deploys (stores) the PL/SQL in the target database. This design allows the ETL Map to be executed without the original metadata that represents the ETL Map being accessed.

There are at least two ways to migrate the PL/SQL code to Production:

1. Install a single Design Center to be used for development, deployment to test, and deployment to production.
2. Install two Design Centers (one for development/test, and one for production), and use the export/import tool in OWB to migrate metadata code from test to production.

Advantages/Concerns Listing

Method	Advantages	Concerns
One Design Center	<ul style="list-style-type: none">• Deployment to Production is streamlined in one tool.	<ul style="list-style-type: none">• The current Design Center is on development hardware. (This does not stop Production's ETL execution if development goes offline, but it could halt ongoing development and new deployments to Production.)• Possible development downtime/outage if a production problem is found and needs fixing in development.
Multiple Design Center	<ul style="list-style-type: none">• Better Failover – Multiple locations hold the design metadata (though both options have the PL/SQL code in all locations).• Code is migrated via files, which would better enforce Version Control.• Better isolation between development and production for security reasons. (though OWB's design center has security controls when using one design center.)	<ul style="list-style-type: none">• Deployment is more cumbersome and requires more steps for migration (though OWB scripting can assist in the future).

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