

Oracle Warehouse Builder: Administration/Operation Training

This course is for Operators, Administrators, and Quality Assurance staff for organizations that utilize OWB. Students will learn the fundamental architecture of OWB, its repository structures, and how mappings are built (logically and physically). Students learn how to import, export, and sample metadata along with view metadata reports through the web. Students learn how to execute mappings from within OWB, and also from SQL scripts and Enterprise Manager.

Students will learn how to generate common trace files/plans for OWB mappings so they can leverage their existing knowledge and Oracle tuning skills. Students will understand the security features provided in OWB and what steps should be considered to help them secure their OWB installation. Students will also learn how to build powerful process flows, email notifications, error dispatching etc.

Modules

1. Day One

- a. OWB Basics (**45 min**)
 - i. Applicability, Architecture, Client/Server, Product Installation
- b. OWB Repositories (**60 min**)
 - i. Design, Runtime, Installation
- c. Target Schemas (**30 min**)
 - i. Stage/DW/Mart, schema based, permissions, WB_RT
- d. OWB Lifecycle (**60 min**)
 - i. Development Systems, Staging Servers, Production Servers, change management, Snapshots/MDL
- e. Metadata Export/Import (**60 min**)
 - i. MDL format, Metadata, Export, Import
- f. Deploying Objects (**120 min**)
 - i. sequences, tables, dimensions, cubes, troubleshooting error conditions

2. Day Two

- a. Sample Source Data (**60 min**)
 - i. OWB metadata import from Oracle tables, flat file sampling
- b. Build Mappings (**120 min**)
 - i. 3 or 4 simple mappings, SQL intermediate result
- c. Execute Mappings (**75 min**)
 - i. run mappings, set and row based, audit levels
- d. OWB execution from SQLPlus (**60 min**)
 - i. Installation of run_my_owb_stuff, run via PL/SQL, run from SQLPlus, schedule in EM
- e. Process Flow Installation (**30 min**)
 - i. OWF install, process flow module creation and registration

3. Day Three

- a. Building/Deploying a Process Flow (**90 min**)

- i. Build a process flow, error conditions, notifications, external script
- b. Security (**45 min**)
 - i. Object, schema, and metadata security
- c. Web Based Design/Runtime Browsers (**30 min**)
 - i. Design Browser installation and configuration, Runtime Browser installation
- d. Advanced Features (**30 min**)
 - i. OMBPlus for management, runtime views, Discoverer bridge
- e. OWB Tuning (**180 min**)
 - i. Throughput reporting, generating trace files and explain plans

Text and Materials

Materials are supplied to students at the beginning of each class, but customer is required to provide classroom equipment and have all necessary Oracle licenses.

Class Format

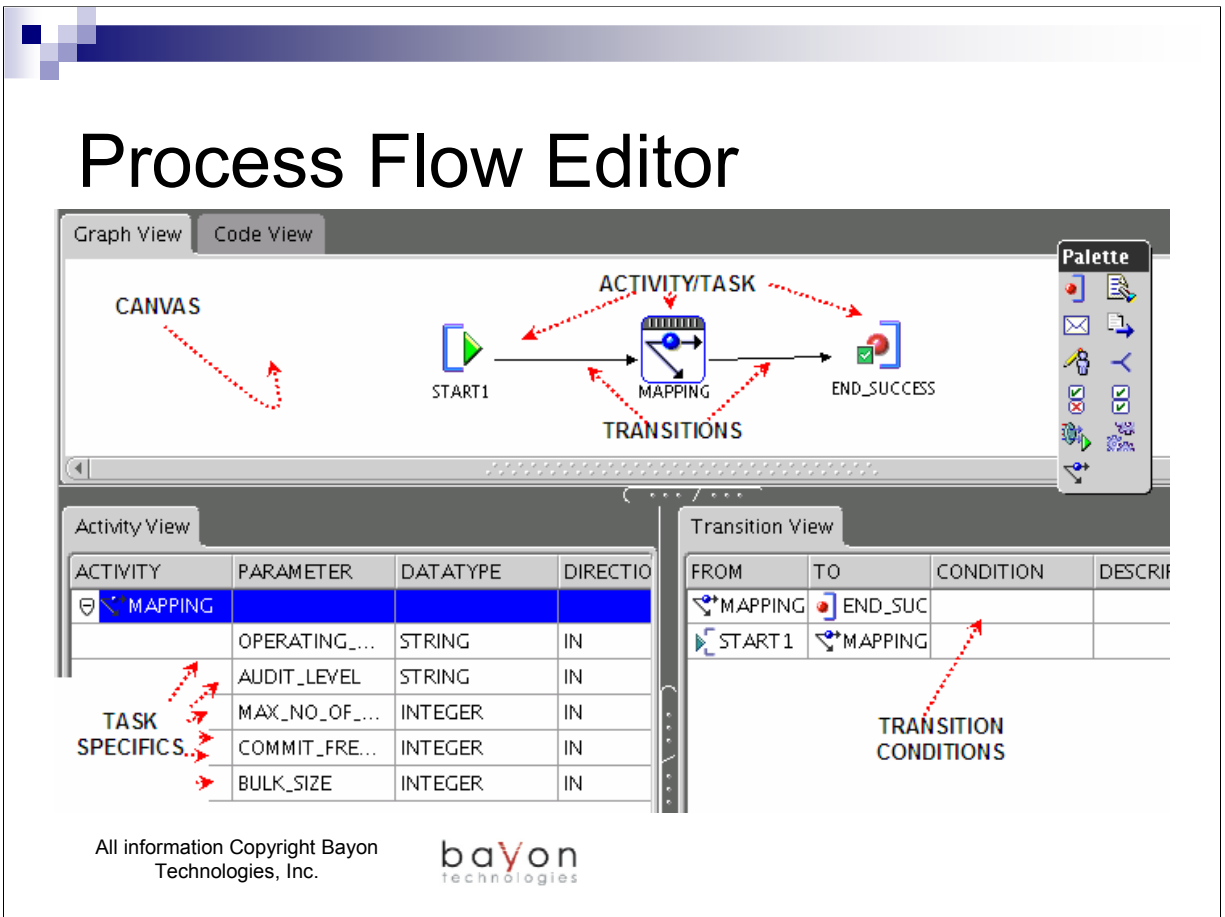
Each day consists of a few hours of presentation supported by slides and white boarding. The balance of time each day is hands-on exercises provided by the instructor.

Prerequisites

To be successful students must be comfortable with basic Oracle administration. The following is a short list of the suggested but not required skills:

- Understand what schemas are, how they relate to users
- Understand basic DDL (create table, alter table, create sequence, create or replace package) and DML (select, insert, update)
- Know how to connect to Oracle using both Localnames (tnsnames.ora) and JDBC (host/port/SID)
- Students will benefit most when they have a basic understanding of dimensional modeling (Cubes/Facts/StarSchemas)
- Oracle concepts such as PL/SQL, tables, constraints, views, SQLPlus, etc.

Process Flow Editor



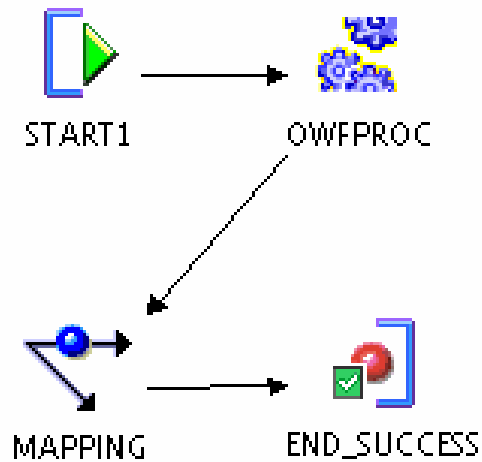
The process flow editor looks similar to other editors. It has some additional panels that are helpful for setting transition conditions and specific activities parameters. Having the activity panel saves from having to open up the “properties” for an object repeatedly to change specifics.

In Mappings the main components are called Operators; here they are called Activities (or Tasks).

Activities are added to the canvas just like mappings, by dragging them from the Palette.

Flows within Flows

- Allows “functional” decomposition
- Flow “reuse”
- MUST BE IN SAME PACKAGE



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You can call flows within flows. This is very useful for component reuse and for functional decomposition. You could write a reusable process flow that retrieves a zipped FTP file, unzips it, ensures it's not zero length, etc. This could be used in several process flows if you happen to have more than one remote data file that is available via ftp and zipped.