

Workflow

Introduction to Workflow

- Is used to define a set of instructions called a workflow to execute mappings
- Workflow contains a session and any other task you need to execute when a session is run
- Tasks can include a session, email notification, or scheduling information
- Worklet can be created in Workflow Manager
- A worklet is an object that groups a set of tasks. It is similar to a workflow, but without scheduling information

Workflow Manager

Workflow Manager Windows

The Workflow Manager displays the following windows to help you create and organize workflows:

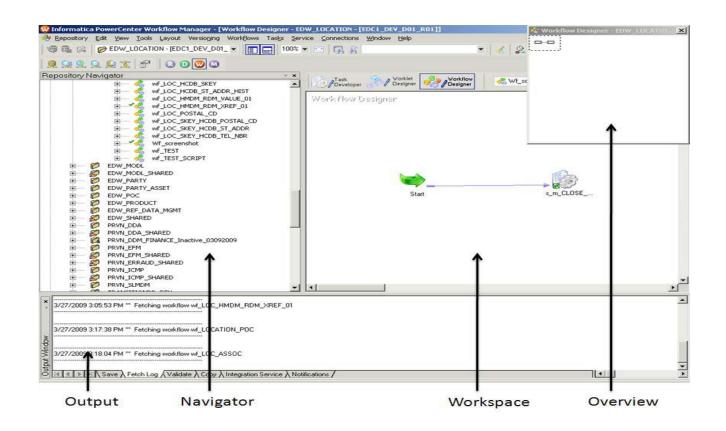
Navigator. You can connect to and work in multiple repositories and folders. In the Navigator, the Workflow Manager displays a red icon over invalid objects. Workspace. You can create, edit, and view tasks, workflows, and worklets. Output. Contains tabs to display different types of output messages. The Output window contains the following tabs:

- » Save. Displays messages when you save a workflow, worklet, or task. The Save tab displays a validation summary when you save a workflow or a worklet.
- » Fetch Log. Displays messages when the Workflow Manager fetches objects from the repository.
- » Validate. Displays messages when you validate a workflow, worklet, or task.
- » Copy. Displays messages when you copy repository objects.
- » Server. Displays messages from the Integration Service.
- » Notifications. Displays messages from the Repository Service.

Workflow Manager (Contd.).

- A process called the workflow is created in the Workflow Manager
- A workflow is a set of instructions on how to execute tasks such as sessions, emails, and shell commands
- Workflow Manager provides other tasks such as Assignment, Decision, and Events. Branches with conditional links can also be created. In addition, Workflows can be batched by creating worklets in the Workflow Manager

Workflow Manager: Screen Shot



Types of Connections: Workflow Manager

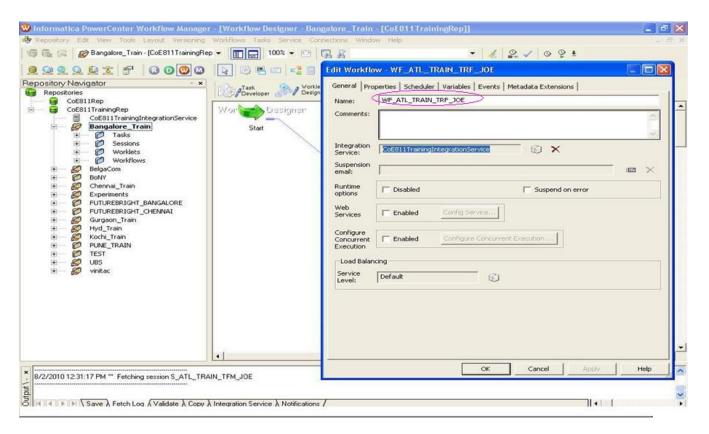
Relational database connections. Connections for each source, target, Lookup transformation, and Stored Procedure transformation database. You must create connections to a database before you can create a session that accesses the database.

FTP connections. File Transfer Protocol (FTP) connections object to read files from a FTP host.

External loader connections. An external loader connection to load information directly from a file or pipe rather than running the SQL commands to insert the same data into the database.

Queue connections. Database connections for message queues. **Source and target application connections.** Connections to source and target applications.

Workflow Manager — Properties



Workflow Manager Tools

Task Developer



Workflow Designer

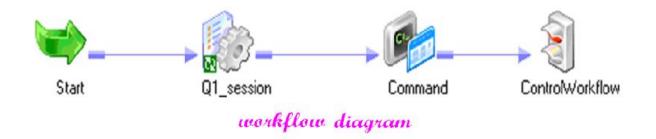




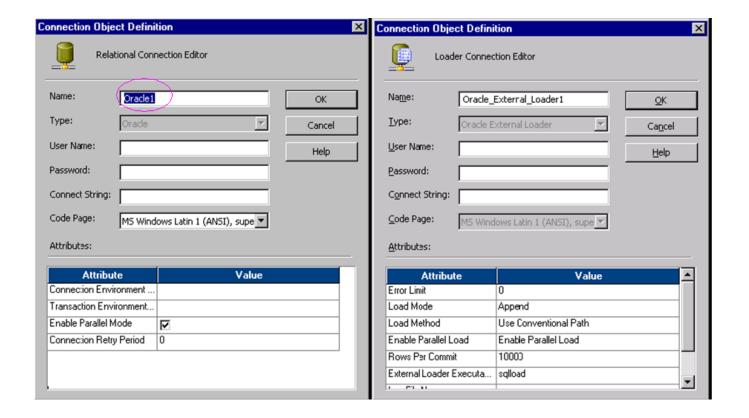
Worklet Designer

Workflows

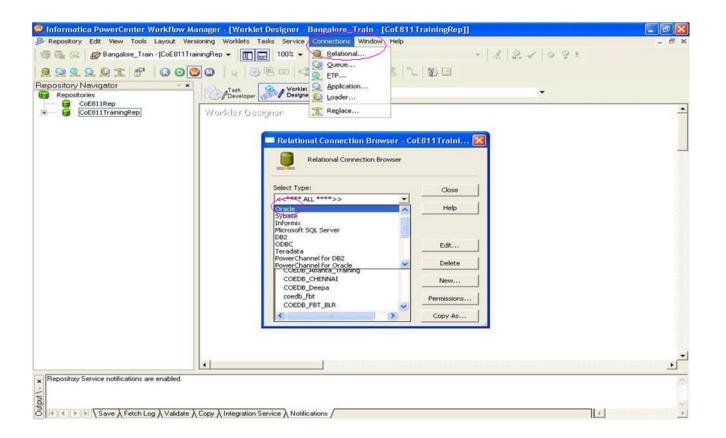
Tells integration service how to run a session After the task is creates, it should be linked Can be scheduled to run manually or automatically



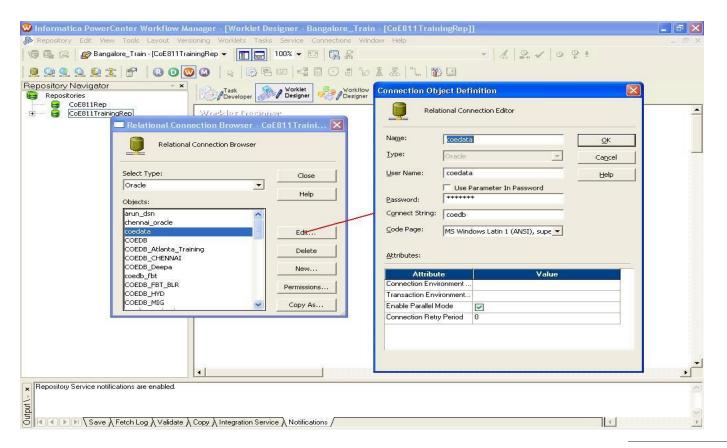
Creating Connections



Workflow Connections



Workflow Connections (Contd.).



Workflow Tasks

- Command
- Control
- Decision
- Email
 Event-Raise
- Event-Wait
- Session
- Assignment
- Timer

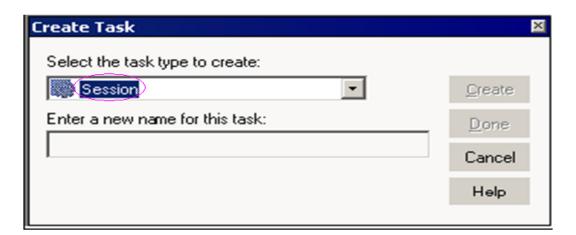
Tasks

Workflow Manager contains many types of tasks to help build workflows

Workflow Manager validates tasks attributes and links

Create tasks in the Task Developer, Workflow Designer or Worklet

Designer



Tasks (Contd.).

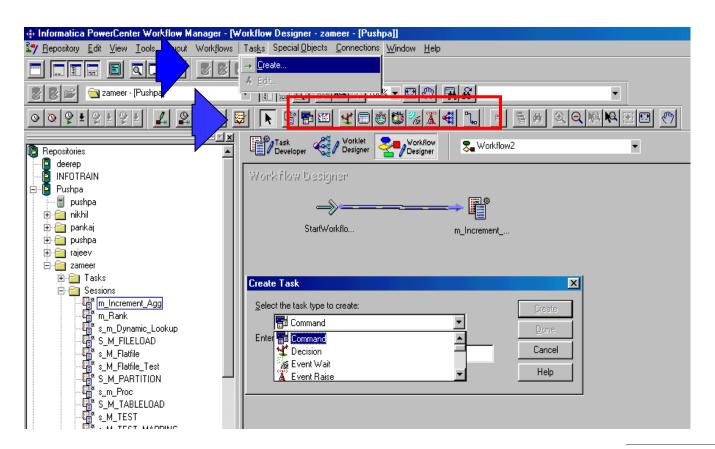
To create a task in Task Developer:

- 1. In the Task Developer, click Tasks > Create. The Create Task dialog box appears.
- 2. Select the task type you want to create, Command, Session, or Email. Other type or tasks can't be created here.
- 3. Enter a name for the task.
- 4. For session tasks, select the mapping you want to associate with the session.
- 5. Click Create. The Task Developer creates the workflow task.
- 6. Click Done to close the Create Task dialog box.

To create tasks in the Workflow Designer or Worklet Designer:

- 1.In the Workflow Designer or Worklet Designer, open a workflow or worklet.
- 2.Click Tasks > Create. Select the type of task you want to create
- 3. Enter a name for the task. Click Create. The Workflow Designer or Worklet Designer creates the task and adds it to the workspace.
- 4. Click Done.

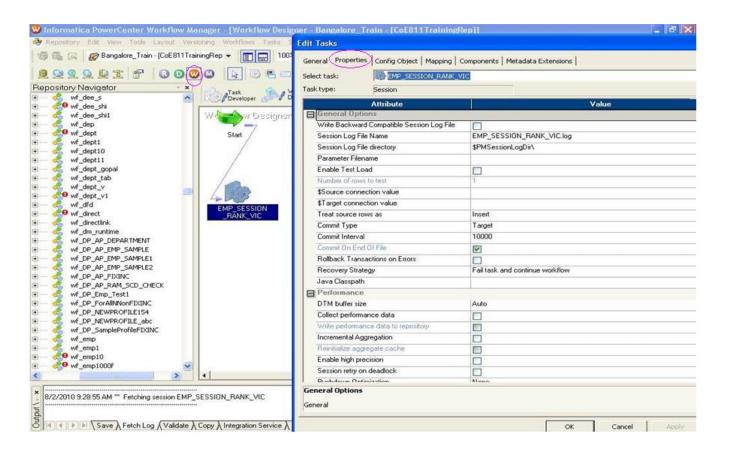
Create Task



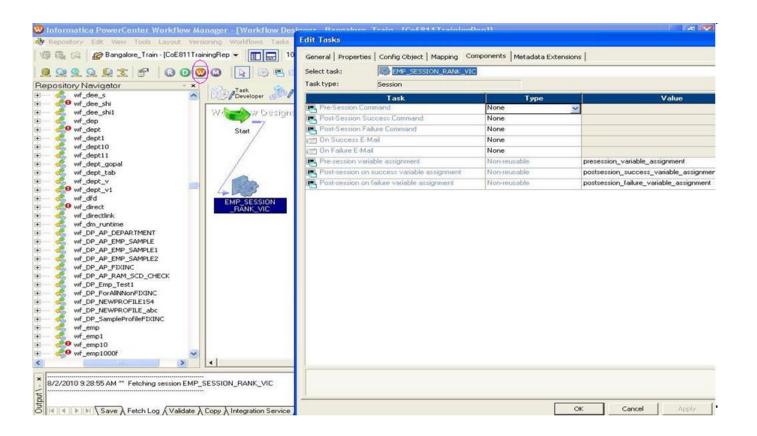
Sessions

A session is a set of instructions that tells the Integration Service how and when to move data from sources to targets A session is a type of task, similar to other tasks available in the Workflow Manager To run a session, first create a workflow to contain the Session task Session tasks can be run sequentially or concurrently

Session Properties



Session Properties (Contd.).



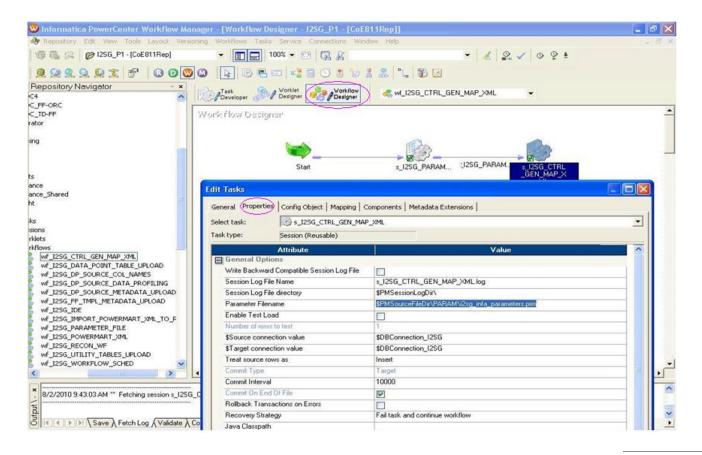
Activity: Fill the blanks

4. Workflow manager _

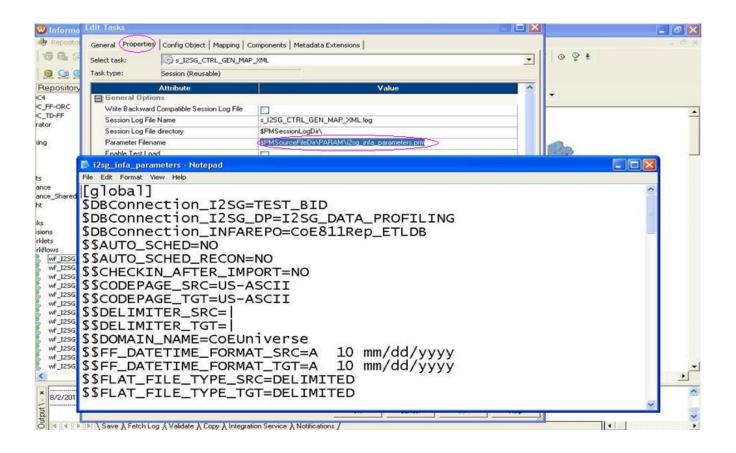
1tells how one of the many tasks the Workflow Manager	at can be executed in the
2.Task can be created in	,and
3. A reusable workflow is called	

the tasks when you save it

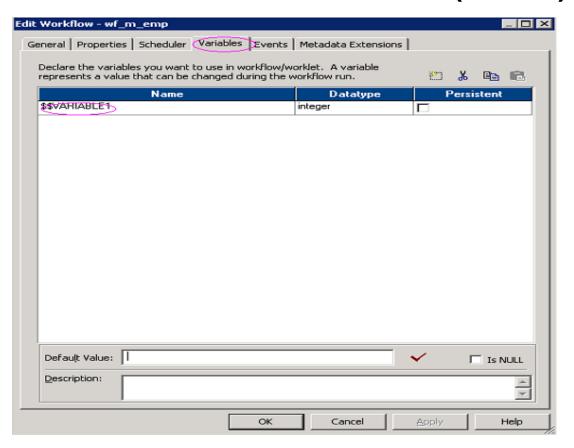
Workflow Parameters & Variables



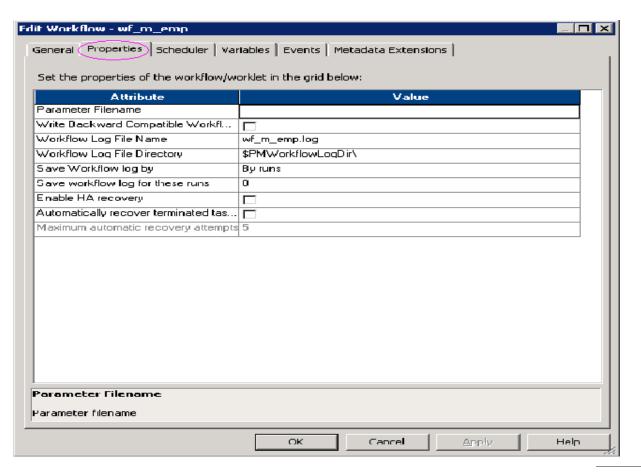
Workflow Parameters & Variables (Contd.).



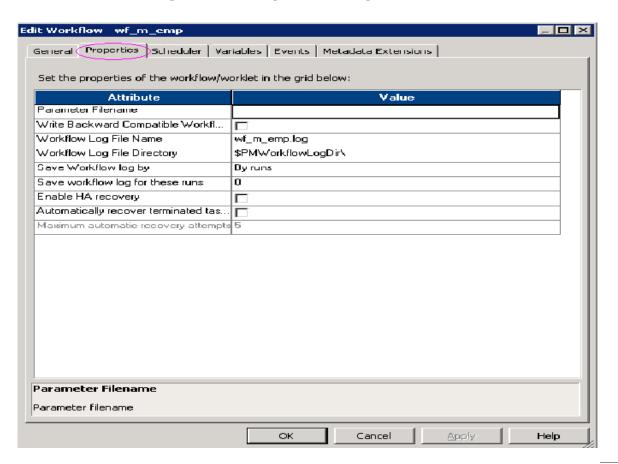
Workflow Parameters & Variables (Contd.).



Workflow Properties



Workflow Properties (Contd.).



Quick Recap

- The tools in Workflow Manager are Task Developer, Workflow Designer, Worklet Designer
- A session is a set of instructions that tells the PowerCenter Server how and when to move data from sources to targets
- A workflow is a set of instructions that describes how and when to run tasks related to extracting, transforming, and loading data

Summary

In this session, we learnt to:

- Illustrate Workflow Manager
- Classify Source and Target Connection
- Design Tasks
- Design Sessions
- Construct Workflows

Review: Q&A

What is the job of workflow Manager? What is meant by session? What is a task? What is a workflow?

Glossary

- Workflow
- Task
- Session
- Connections



Thank You