

## **How to Use Oracle Account Generator for Project-Related Transactions**

Marian Crkon  
3Gs Consulting

## **Introduction**

Account Generators are workflows that provide selected Oracle Applications the ability and flexibility to automatically generate accounting flexfield combinations using your own business rules. Some Oracle Account Generators come pre-seeded in the applications with pre-built rules. However, all Project Account Generators for project-related transactions must be always customized. Automatic generation of account combinations based on project-related information entered by users improves the accuracy and ease of data entry. When the business requirements change and new needs arise, Project Account Generator processes will have to be modified.

This paper will explain how to use the seeded Project Account Generators that Oracle provides for project-related transactions to start building your own processes. It will explain how Oracle initiates the Account Generators, what rules to follow when customizing them, and how to assign your customized processes to your accounting transactions. It will provide a detail step-by-step example of customizing a selected project-related transaction. The paper assumes that the reader is familiar with Oracle Financials and Projects accounting concepts and terminology and a working knowledge of Oracle Workflow Builder tool.

## **What Is Oracle Workflow Builder?**

Oracle Workflow Builder lets you create, view, or modify a business process with simple drag and drop operations. Using the Workflow Builder, you can create and modify workflow objects, including activities, item types, and messages.

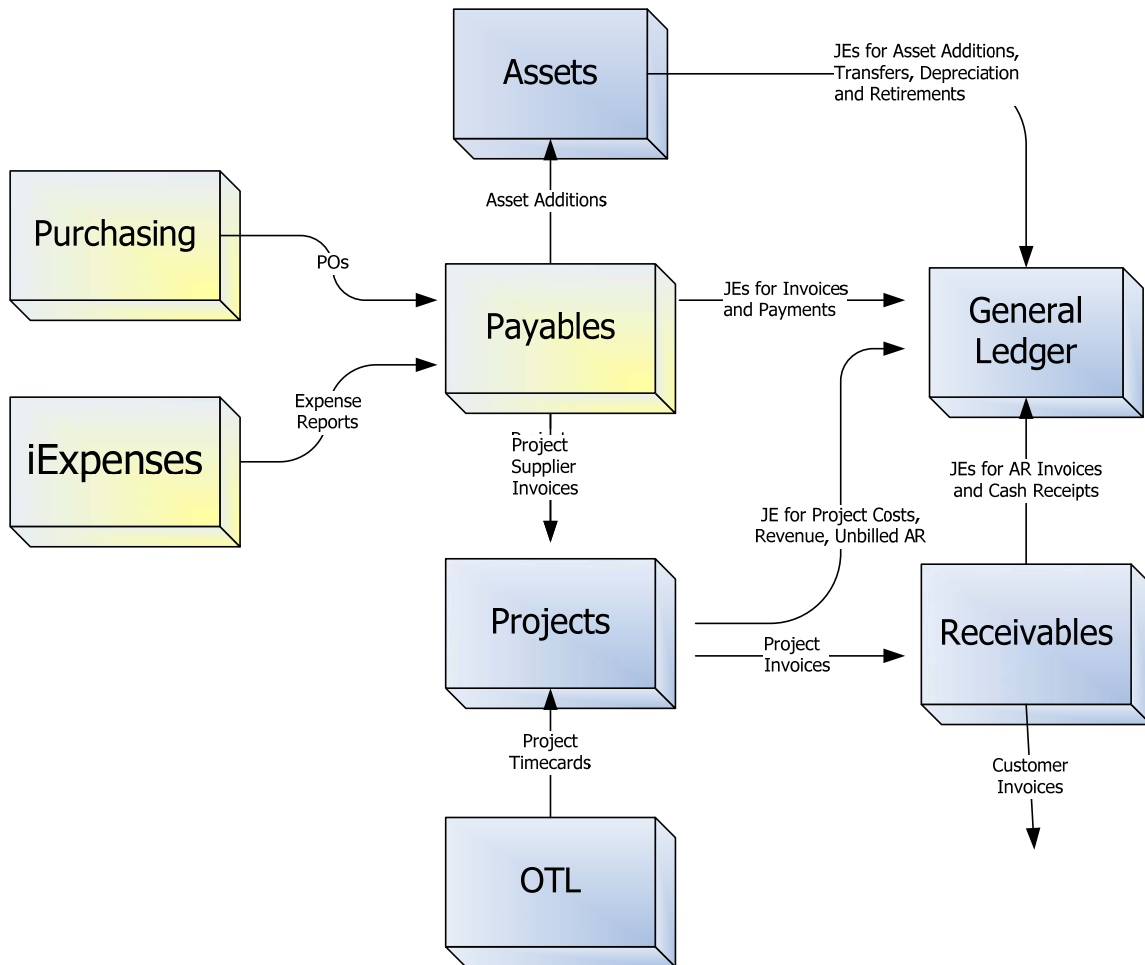
In Release 10, Purchasing and Payables used Flexbuilder to derive account code combinations for project-related account transactions. In Release 11, Account Generator replaced Flexbuilder to provide implementation teams with a greater flexibility and a better user interface.

## **What Are Project Account Generators?**

When you enter project transactions in Purchasing, Payables or iExpenses, Project Account Generator processes create account code combinations for purchasing requisitions, purchase orders, supplier invoices and employee expense reports.

Account Generator builds the general ledger account combinations used to create the general ledger journals. It allows you to designate a specific source for each accounting segment for which Oracle creates a journal entry. The Account Generator gives you the flexibility to create journal entries according to your requirements. You can specify to what detail to create journal entries.

The following picture illustrates the flow of project-related transactions, and the applications that use Project Account Generators to generate accounting combinations.



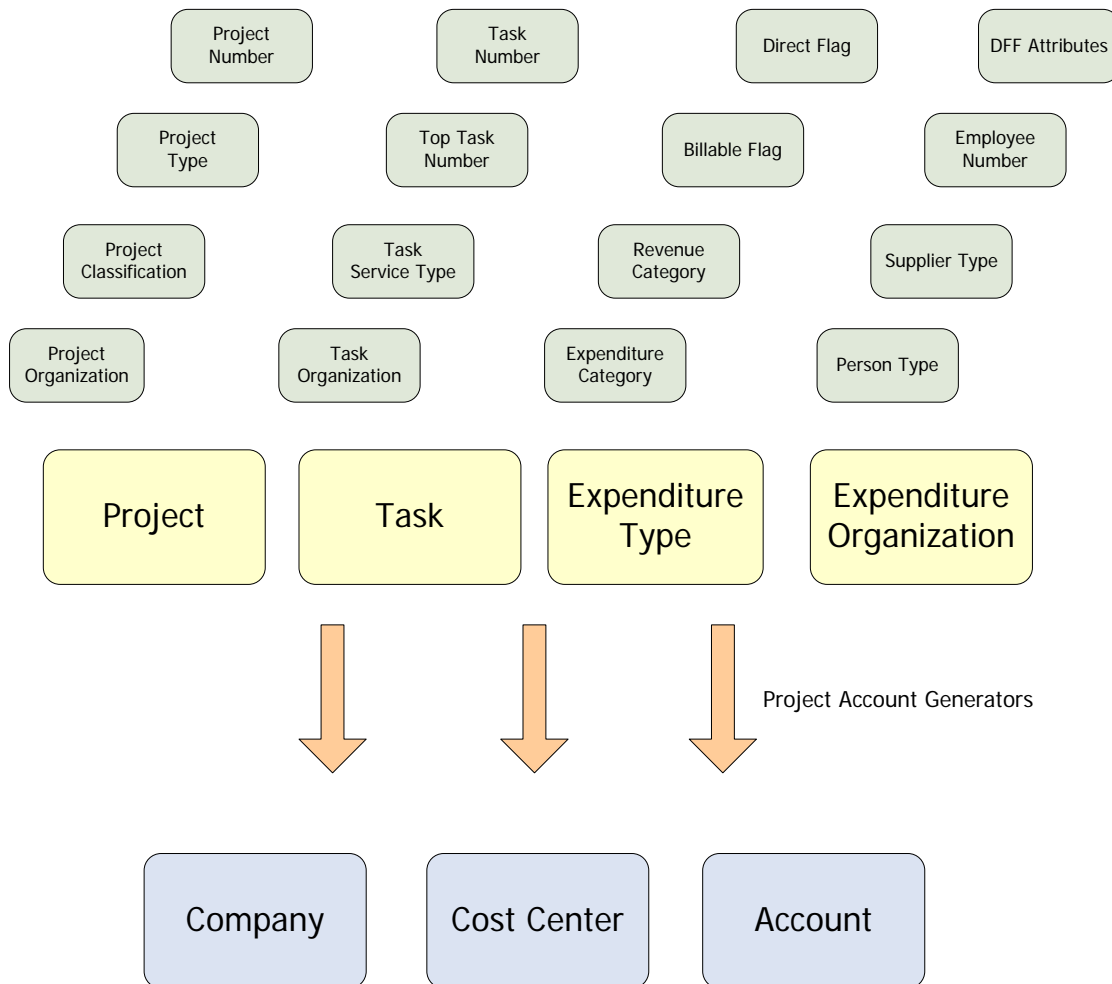
## What Are Project-Related Transactions?

Project-related transactions are transactions with project-related information (below). Project-related transactions create accounting entries in General Ledger and they also become project commitments or project expenditures in Projects.

### Project – Task - Expenditure Type - Expenditure Organization

This paper focuses on project-related requisitions, purchase orders, supplier invoices and employee expense reports, which utilize Project Account Generators. Simply put, you can use Project Account Generators to translate project information familiar to non-accountants to accounting combinations generated for expense and accrual accounting entries.

The following picture illustrates the mapping from project-related information to accounting flexfield. By entering key project-related information you provide several additional attributes to become a source for constructing the accounting combinations.



## Project Account Generator Attributes

The following table summarizes the attributes available for different Project Account Generators.

Attribute	Requisition/PO	Supplier Invoice	Expense Report
Accrual Account ID	Yes	No	No
Billable Flag	Yes	Yes	Yes
Blanket PO Header ID	Yes	No	No
BOM Cost Element ID	Yes	No	No
BOM Resource ID	Yes	No	No
Budget Account ID	Yes	No	No
Calling Module	No	No	Yes
Category ID	Yes	No	No
Charge Account ID	Yes	No	No
Chart of Accounts ID	Yes	No	No
Chart of Accounts ID	Yes	Yes	Yes
Deliver to Location ID	Yes	No	No
Destination Organization ID	Yes	No	No
Destination Subinventory	Yes	No	No
Destination Type Code	Yes	No	No
Direct Flag	Yes	Yes	Yes
Document Type Code	Yes	No	No
Employee Account Identifier	No	No	Yes
Employee Identifier	No	No	Yes
Employee Number	No	No	Yes
Expenditure Category	Yes	Yes	Yes
Expenditure Item Date	Yes	Yes	Yes
Expenditure Organization Identifier	Yes	Yes	Yes
Expenditure Organization Name	Yes	Yes	Yes
Expenditure Type	Yes	Yes	Yes

Attribute	Requisition/PO	Supplier Invoice	Expense Report
Expense Cost Center	No	No	Yes
Expense Line Attribute Category and Attribute 1-15	No	No	Yes
Expense Report Attribute Category and Attribute 1-15	No	No	Yes
Expense Type	No	No	Yes
Function Transaction Code	No	No	Yes
Invoice Attribute Category and Attribute 1-15	No	Yes	No
Invoice Distribution Attribute Category and Distribution Attribute 1-15	No	Yes	No
Item ID	Yes	No	No
Line Type ID	Yes	No	No
Lookup Set Value	No	Yes	Yes
PO Distribution Attributes 1-15	Yes	No	No
PO Encumbrance Flag	Yes	No	No
PO Header Attributes 1-15	Yes	No	No
PO Line Attributes 1-15	Yes	No	No
Preparer ID	Yes	No	No
Project Class Code	Yes	Yes	Yes
Project ID	Yes	Yes	Yes
Project Number	Yes	Yes	Yes
Project Organization Identifier	Yes	Yes	Yes
Project Organization Name	Yes	Yes	Yes
Project Type	Yes	Yes	Yes
Public Sector Flag	Yes	Yes	Yes
Revenue Category	Yes	Yes	Yes
Shipment Attributes 1–15	Yes	No	No
Source Document Header ID	Yes	No	No
Source Document Line ID	Yes	No	No
Source Document Type Code	Yes	No	No
Source Organization ID	Yes	No	No

Attribute	Requisition/PO	Supplier Invoice	Expense Report
Source Subinventory	Yes	No	No
Source Type Code	Yes	No	No
Suggested Vendor ID	Yes	No	No
Supplier Employee Number	Yes	Yes	No
Supplier ID	Yes	Yes	Yes
Supplier Person Identifier	Yes	Yes	No
Supplier Type	Yes	Yes	Yes
Task ID	Yes	Yes	Yes
Task Number	Yes	Yes	Yes
Task Organization Identifier	Yes	Yes	Yes
Task Organization Name	Yes	Yes	Yes
Task Service Type	Yes	Yes	Yes
Temp Account ID	Yes	No	No
To Person ID	Yes	No	No
Top Task Identifier	Yes	Yes	Yes
Top Task Number	Yes	Yes	Yes
Type Lookup Code	Yes	No	No
WIP Entity ID	Yes	No	No
WIP Entity Type	Yes	No	No
WIP Line ID	Yes	No	No
WIP Operation Seq Num	Yes	No	No
WIP Repetitive Schedule ID	Yes	No	No
WIP Resource Seq Num	Yes	No	No

## Setting Up Project Account Generator Processes

This section describes the processes and attributes of the workflows supplied with Oracle Projects. It also provides information about implementing and testing your workflows. All the workflows and processes in this section generate account numbers for use with Payables.

Before using an account generator process with a production database, you must:

1. Define your Accounting Flexfield structure for each set of books.
2. Define the flexfield segment values and validation rules.
3. Back up the workflow before you start to work with it.
4. For each set of books, customize the default process. You can create all the components for workflow in the Oracle Workflow Builder except for the PL/SQL procedures called by the function activities.
5. Test the customizations.
6. Save the process in the production database.
7. Assign the customized process for a flexfield structure.

## Account Generator Definitions

### **Processes**

A set of activities that need to be performed to accomplish a business goal. A process is represented by a workflow diagram.

### **Process Definition**

A workflow process as defined in Oracle Workflow Builder.

### **Process Activity**

A process modeled as an activity so that it can be referenced by other processes.

### **Items**

A specific process, document, or transaction that is managed by a workflow process.

### **Function**

A PL/SQL stored procedure that can define business rules, perform automated tasks within an application, or retrieve application information.

## **Generating Accounts for Purchasing**

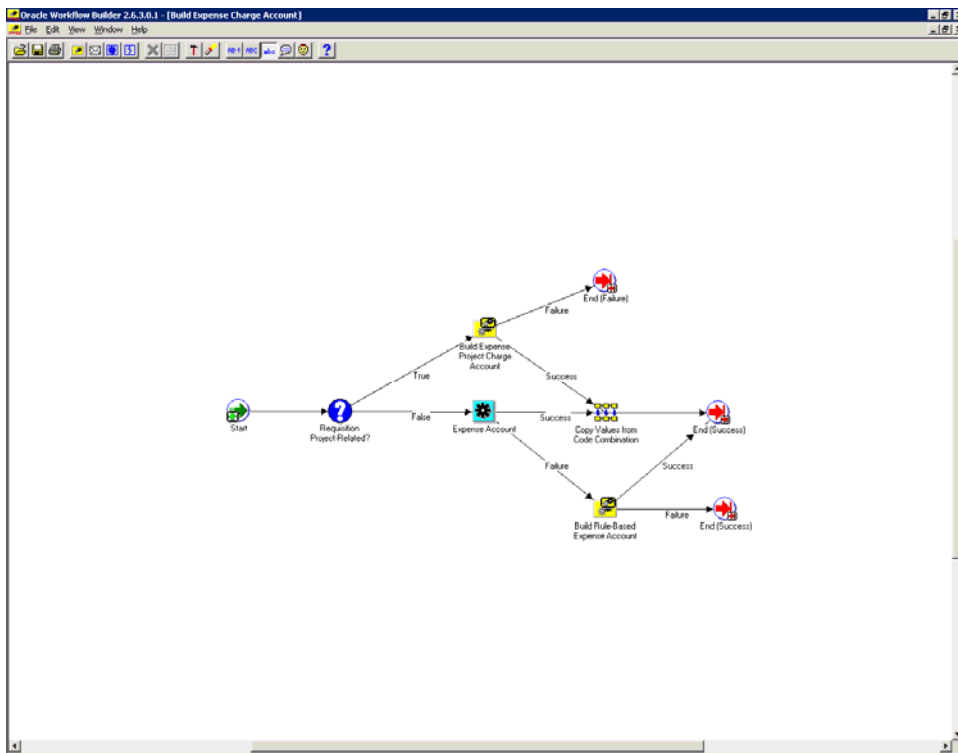
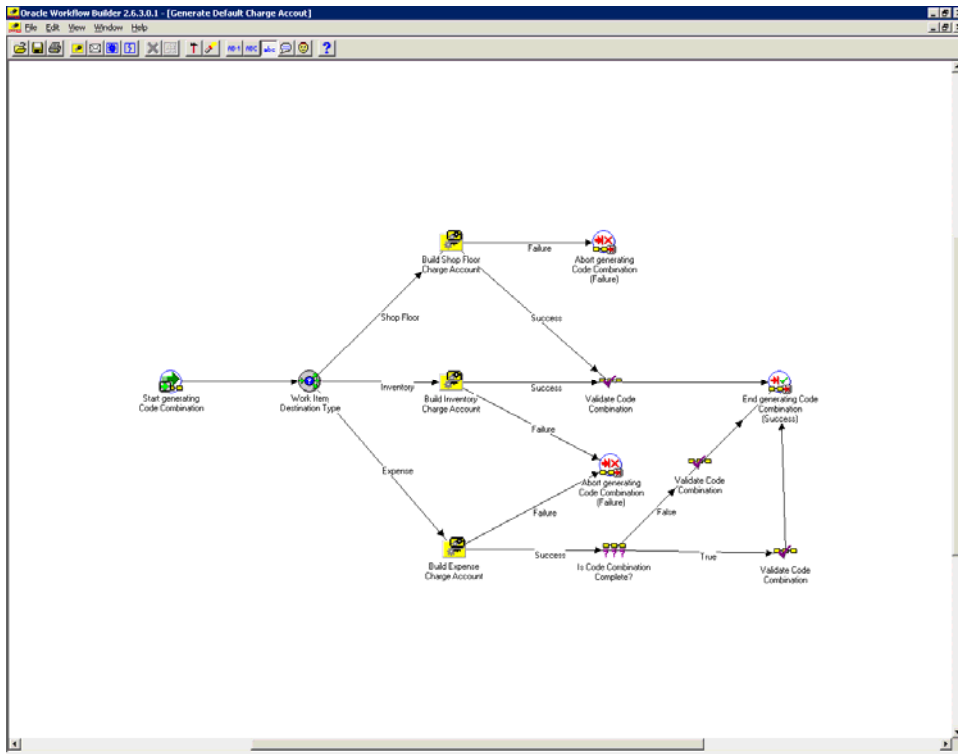
Purchasing uses Account Generators to generate accounting combinations for all requisitions and purchase orders, whether they are project-related or not. Purchasing provides a set of default account generator processes for the accounts it needs to build. Oracle Purchasing automatically builds a charge, budget (if using budgetary control), accrual, and variance account for each document distribution.

The account generator workflows in Purchasing generate the following accounts:

- Requisition Charge Account
- Requisition Budget Account
- Requisition Variance Account
- Requisition Accrual Account
- Purchase Order Charge Account
- Purchase Order Budget Account
- Purchase Order Variance Account
- Purchase Order Accrual Account

Purchasing provides default account generator processes for these accounts. If you want to derive the accounts based on project information, you must change the default processes so that they use the project information.

The default Account Generator processes in Oracle Purchasing build a charge, budget, accrual, and variance account for each purchase order, release, and requisition distribution based on the distribution's Expense, Inventory, or Shop Floor destination type. Oracle Purchasing always builds these accounts using the Account Generator; you cannot disable this feature.



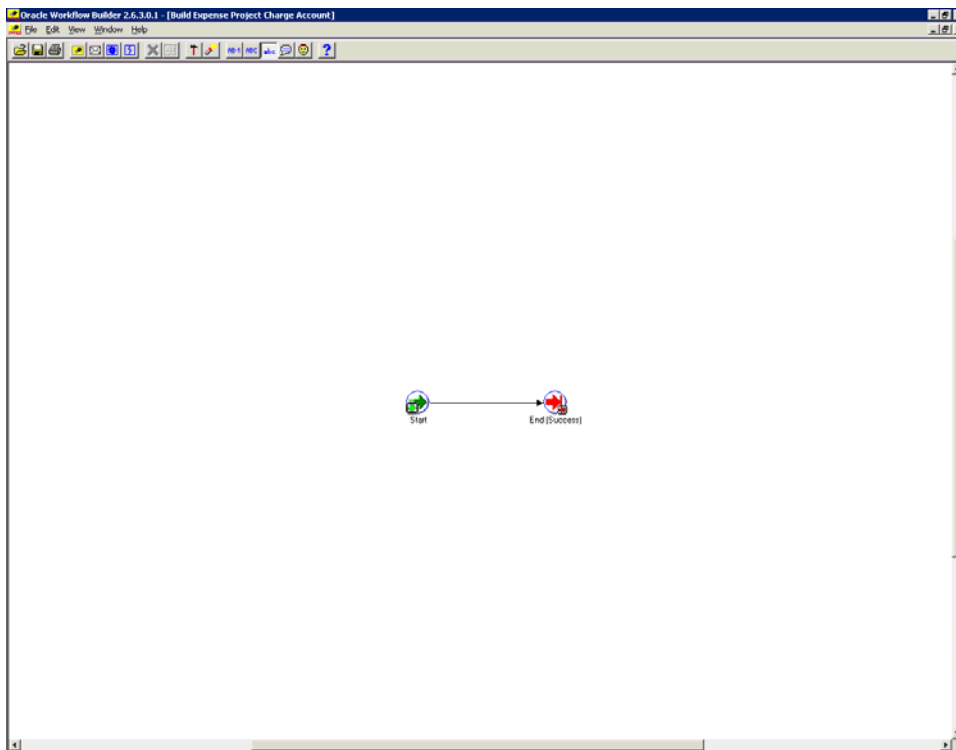
There are four Build Project Account sub-processes, one for each account being built:

- Build Expense Project Accrual Account
- Build Expense Project Budget Account
- Build Expense Project Charge Account
- Build Expense Project Variance Account

The Build Project Account sub-processes are dummy processes, available for you to customize an account-building process for project-related requisitions and purchase orders. To use this process, you provide your own rules to the process, in the form of workflow process definitions, to build the account.

You can use the Standard workflow function activity Compare Number in place of PO Project-Related. You can use Compare Number to compare the Project ID on a document with a value that you define, or to check if a Project ID exists. If there is no Project ID, then Compare Number transitions to the Expense Account activity and builds the default expense account. If there is a Project ID, then Compare Number transitions to the Build Project Related Account process to build the account. If you want to bill items to a project account, you must do the following:

- Replace Requisition Project-Related? (or PO Project-Related?) with your own function activity that branches to Build Project Account sub-process if a document has a Project ID.
- Customize the appropriate Build Project Account sub-process. In most cases, you only need to customize the Build Expense Project Charge Account sub-process. If you wanted to use your project-related account for all accounts—accrual, budget, charge, and variance—you would customize all four of the Build Project Account sub-processes.



## Generating Accounts for Payables

How charge accounts are derived for invoices and expense reports depends on whether you are entering an invoice or expense report that contains project and task information. If project-related information is not entered then Project Account Generators are not used. The following transactions, if project-related, utilize Project Account Generators in Payables:

- Supplier Invoices
- Employee and Contingent Worker Expense Reports

The Project Supplier Invoice Account Generation workflow generates accounts for supplier invoices. The Project Expense Report Account Generator generates accounts for expense reports entered in Internet Expenses, Invoices window, or Expense Reports window in Payables.

The Project Supplier Invoice Account Generation workflow (item type) contains these processes:

- Generate Account using FlexBuilder Rules
- Generate Default Account
- Sample Process for Account Generation

## Generate Account Using FlexBuilder Rules

If you used FlexBuilder in a previous release to generate account combinations, this process replicates your FlexBuilder setup. You do not have to change any of your predefined FlexBuilder rules or customize the process. The process includes a function generated during your upgrade from Release 10.7 to Release 11i.

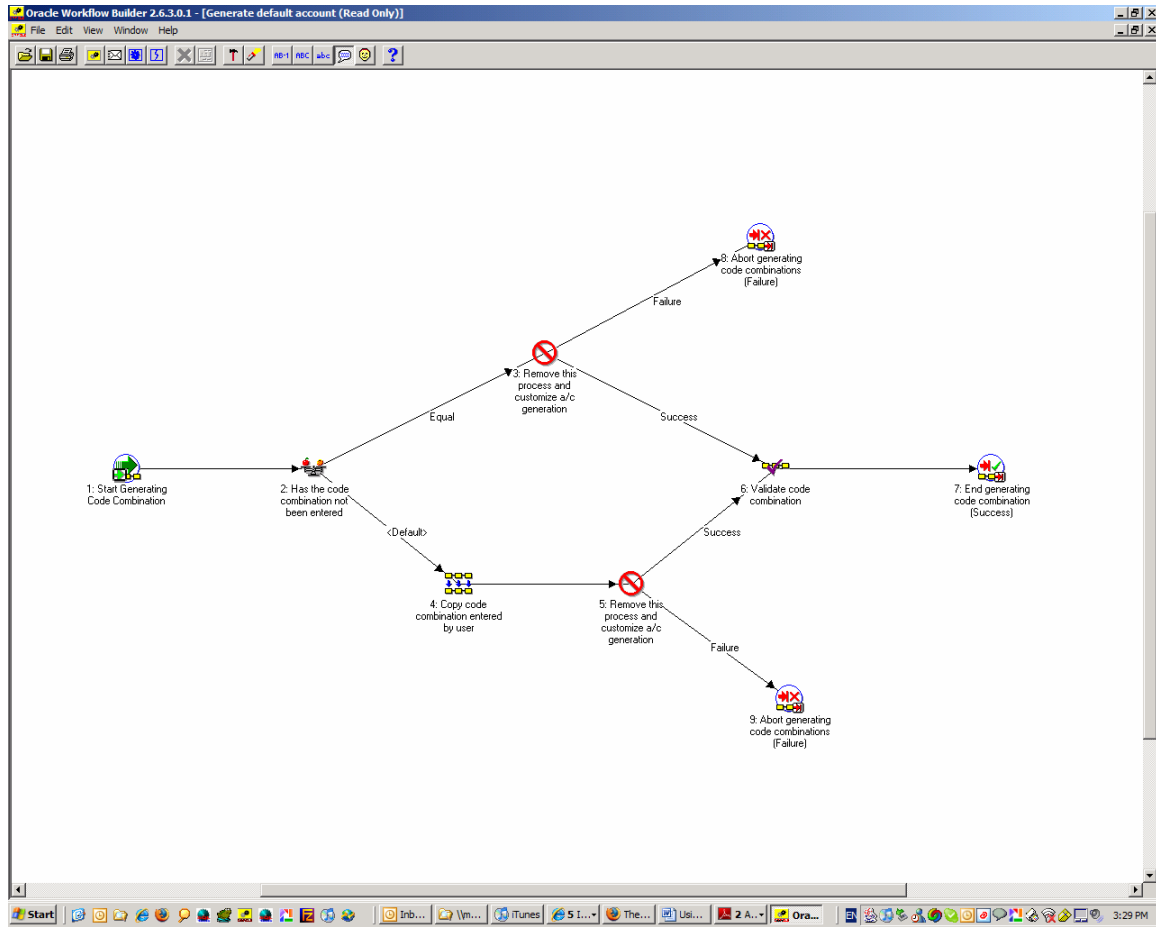
## Generate Default Account

Create a new process from the Generate default Account process. Copy the workflow to a local hard disk or networked server. **You cannot rename the workflow, plan to modify the "original" process.** Do not save a backup workflow to the database. Workflows saved to the database overwrite the workflow of the same name in the database.

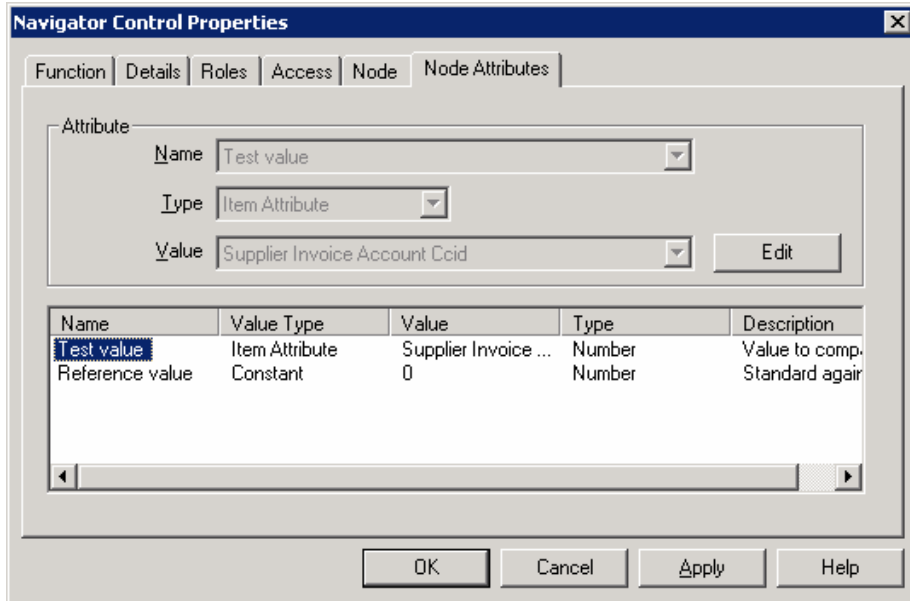
By default, the Payables invoice entry windows call the Generate Default Account process for the invoice charge account. **You must customize this process or create a new one, using the Oracle Workflow Builder.** If you do not, the process returns an error message.

I recommend creating a new process. Copy the existing default process and change its internal name and display name. You can then modify the original default process and assign the process to the accounting flexfield structure.

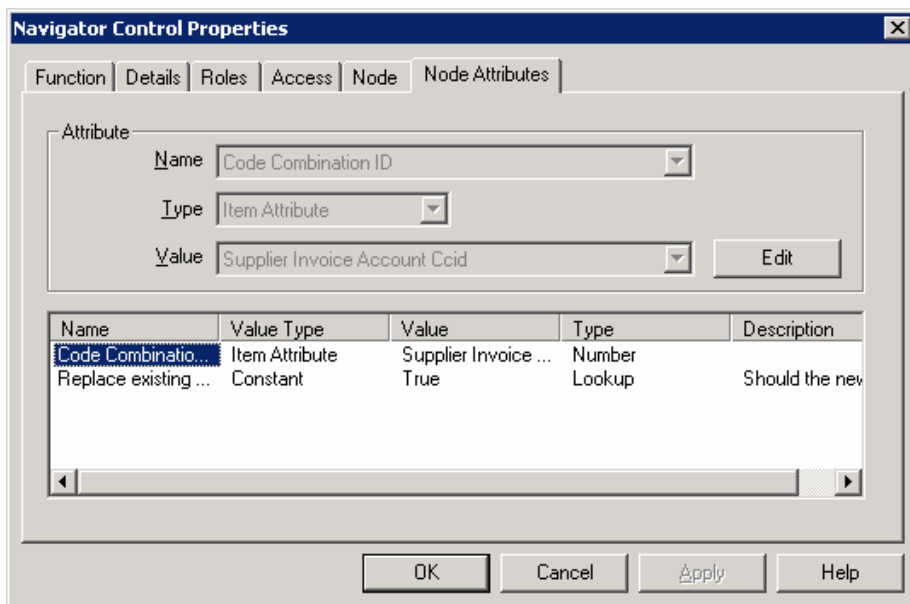
Following is the workflow illustration of the seeded Generate Default Account process. To show the Display Name view in Workflow Builder, open the View menu, choose Show Label, and then choose Display Name in Designer.



1. **Start Generating Code Combination** This standard activity node starts the process.
2. **Has the Combination Not Been Entered?** This is the Compare Text function from the standard workflow. It checks the value in the Supplier Invoice Account CCID. If the value does not exist (CCID = 0), the process continues to Node 3. If the value exists, Account Generator proceeds to Note 4 and assigns the combination entered by user.



3. **Dummy Default Account Generator** In its original (shipped) configuration, this node returns an error message. You must replace this function with your customized procedure if you intend on using the default process. The result is Success (the process branches to the next node or Failure (the process branches to Abort).
4. **Copy Code Combination** entered by user.

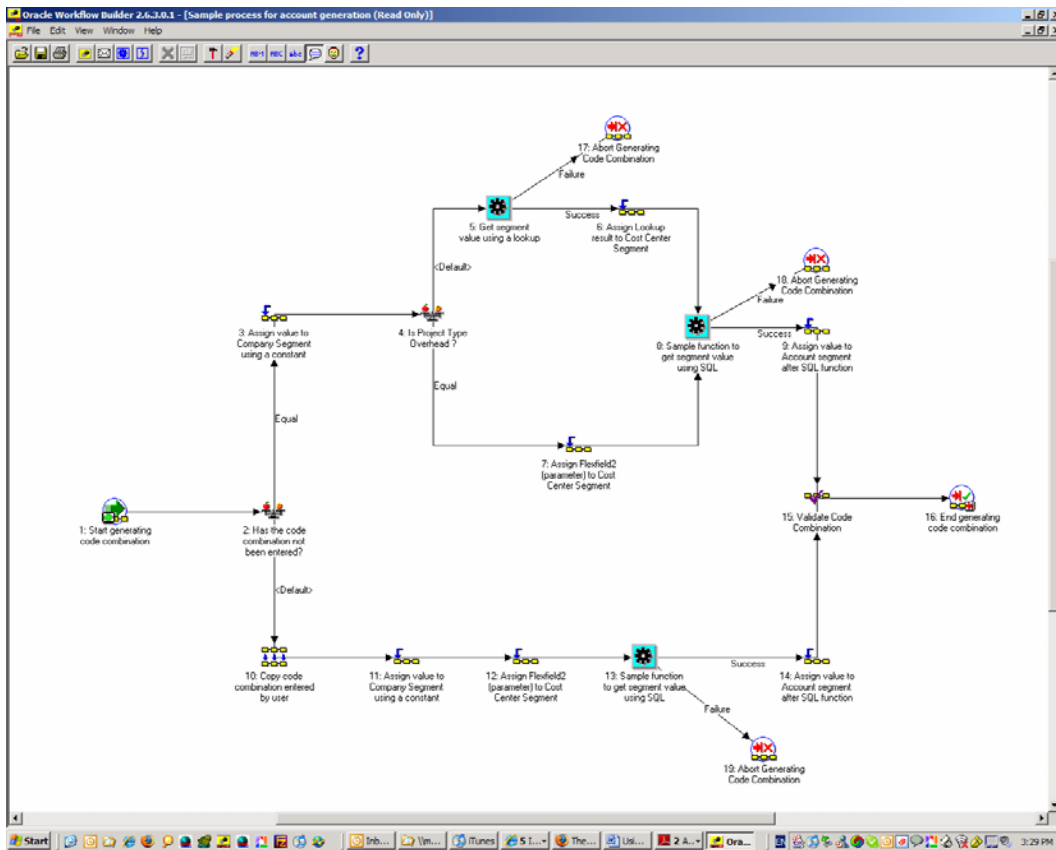


5. **Dummy Default Account Generator** In its original (shipped) configuration, this node returns an error message. You must replace this function with your customized procedure if you intend on using the default process.
6. **Validate Code Combination** This node contains the standard Flexfield function for validating a code combination. For this function to work, the attribute value *New code combinations* must be set to *True*.
7. **End Generating Code Combination** This standard activity node ends the process. (Same in Nodes 8 and 9).

## Sample Process for Supplier Invoice Account Generation

The sample process shows how to use workflow functions and attributes to derive account code combinations. It also demonstrates several standard functions (Start, Compare Text, and Assign Value) that you can use to generate account segments. You cannot use this sample process, even with modification, in your database. You must modify the default process.

The sample process is a very good starting point for creating a customized process with your own business rules as it illustrates the use of SQL procedures, AutoAccounting lookup sets, workflow attributes, and constants and helps you identify the functions you may want to use in your new process.



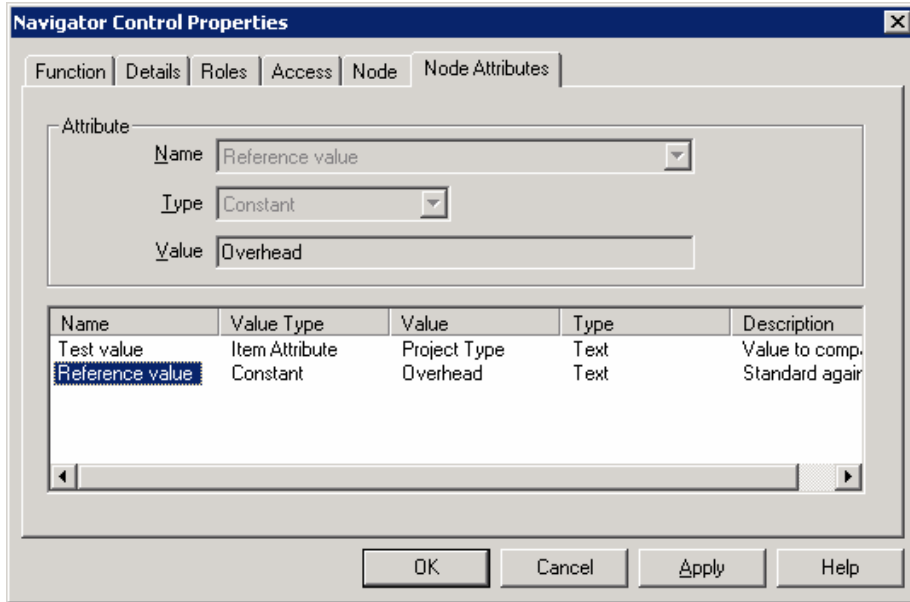
1. **Start Generating Code Combination** This standard activity node starts the process.
2. **Has the Combination Not Been Entered?** This is the Compare Text function from the standard workflow. It checks the value in the Supplier Invoice Account CCID. If the value does not exist (CCID = 0), the process continues to Node 3 and starts to build a combination from project attributes. If the values exists, Account Generator proceeds to Note 10 and starts assigning segment values from the Supplier Invoice Account to respective segments.

Name	Value Type	Value	Type	Description
Test value	Item Attribute	Supplier Invoice ...	Number	Value to comp.
Reference value	Constant	0	Number	Standard agair

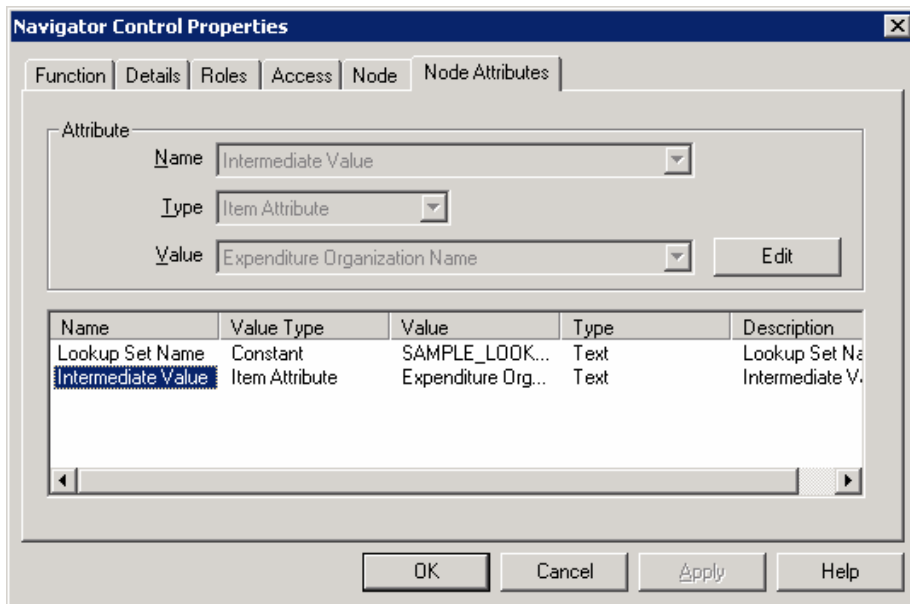
3. **Assign Value to Company Segment** using a constant. This node assigns a constant value '01' to the Company segment.

Name	Value Type	Value	Type	Description
Segment Identifier	Constant	Name	Lookup	
Segment	Constant	Company	Text	Segment
Value	Constant	01	Text	Value
Replace existing ...	Constant	True	Lookup	Should the new

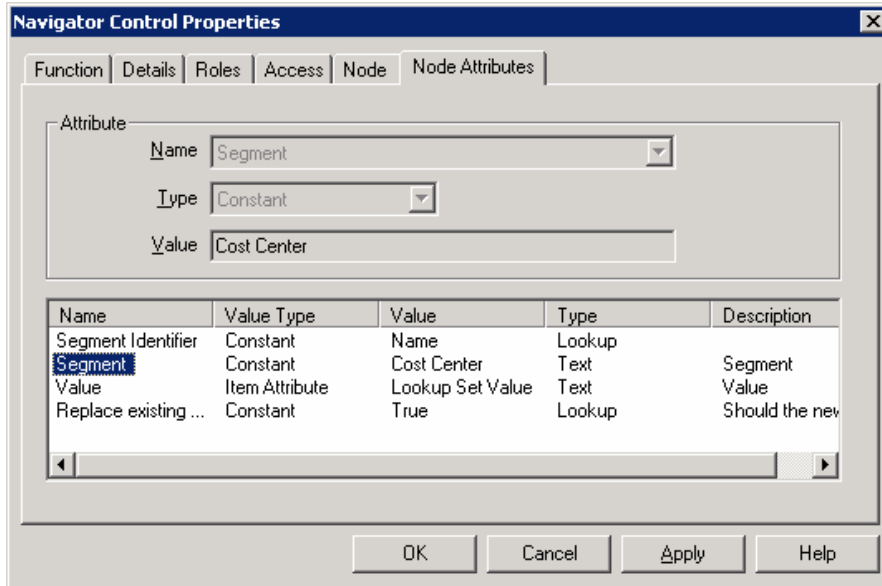
4. **Is Project Type Overhead?** This is the Compare Text function from the standard workflow. This node tests whether the project type is 'Overhead'. The test value is set to the item attribute Project Type. The reference value is the constant Overhead. The result is Equal (the project type is Overhead and the process branches to node 7) or Not Equal (the project type is not Overhead and the process branches to node 5).



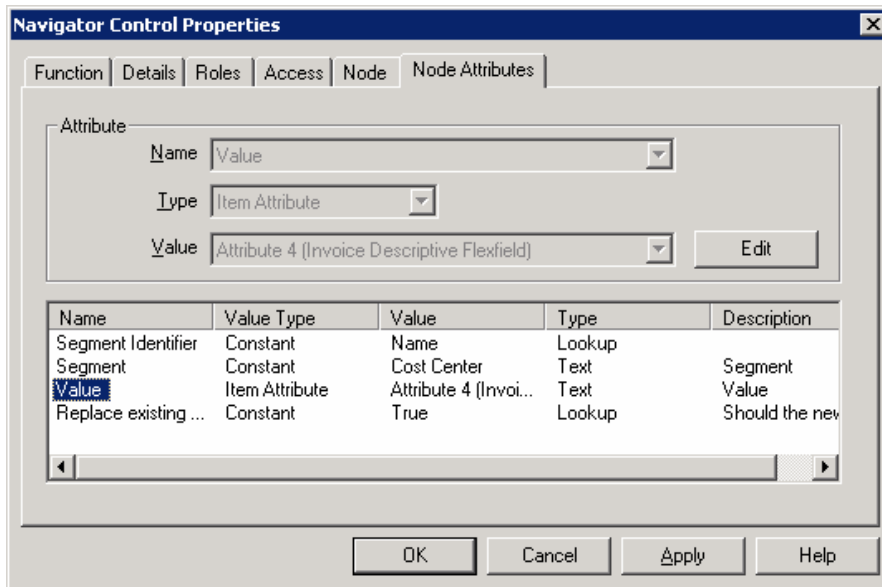
5. **Get Segment Value Using a Lookup** (Executed only if the project type is not Overhead) This node looks up for Cost Center value based on a mapping in an AutoAccounting lookup set, which maps Expenditure Organization Names to GL Cost Center values. The result is Success (the process branches to node 6) or Failure (the process branches to node 17).



6. **Assign Lookup Value to Cost Center Segment** (Executed only if the project type is Overhead and the lookup value was successfully retrieved in node 5) This node assigns the Lookup Value to the Cost Center segment.



7. **Assign Flexfield Value to Cost Center Segment** If the project type is Overhead, this node assigns the valid value from Invoice Descriptive Flexfield Attribute 4 to the Cost Center segment.



8. **Sample Function to Get segment Value Using SQL** This node uses a SQL procedure to derive the value for the Account segment. If the process encounters an error during any of the steps, the function branches to node 18. The sample SQL package and procedure is in the file PAXTMPFB.pls (located in the Oracle Projects admin/sql directory). The SQL procedure name is pa\_wf\_fb\_sample\_pkg.pa\_wf\_sample\_sql\_fn. The procedure contains detailed documentation. The sample function derives and sets the segment value in the Lookup Set Value attribute. If you write your own functions, you should create and set your own attributes.

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Function' tab selected. The fields are as follows:

- Item Type: Project Supplier Invoice Account Generation
- Internal Name: SAMPLE\_SQL\_FUNCTION
- Display Name: Sample SQL function.
- Description: This function calls a sample procedure to determine
- Icon: FUNCTION.ICO
- Function Name: PA\_WF\_FB\_SAMPLE\_PKG.PA\_WF\_SAMPLE\_SQL\_FN
- Function Type: PL/SQL
- Result Type: Flexfield Result
- Cost: 0.00

Buttons include Edit, New, Browse, and OK/Cancel/Apply/Help.

9. **Assign Value to Account Segment after SQL Function** This node assigns a segment value derived in Node 8 to the Account segment.

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Node Attributes' tab selected. The 'Attribute' section is configured as follows:

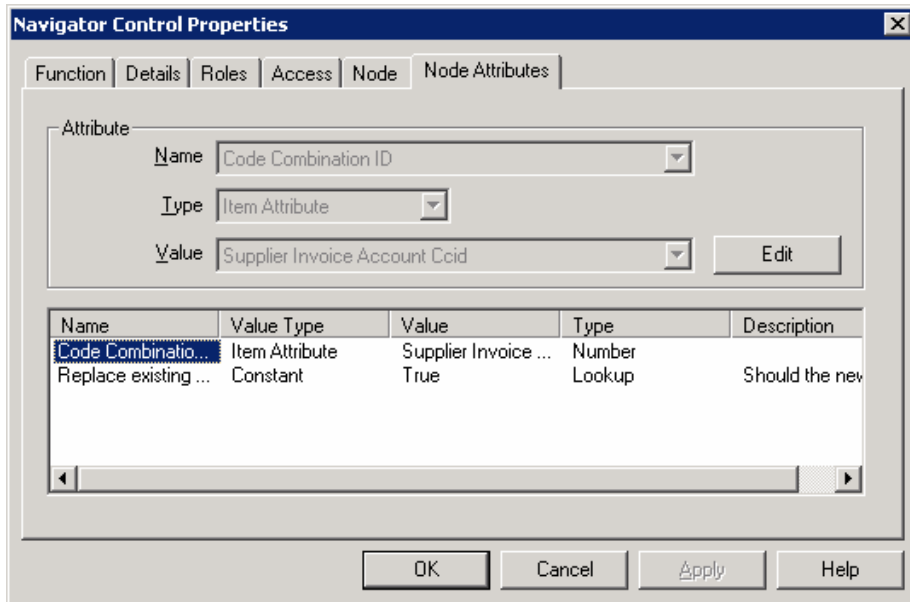
- Name: Value
- Type: Item Attribute
- Value: Lookup Set Value

Below this is a table of attributes:

Name	Value Type	Value	Type	Description
Segment Identifier	Constant	Name	Lookup	
Segment	Constant	Account	Text	Segment
Value	Item Attribute	Lookup Set Value	Text	Value
Replace existing ...	Constant	True	Lookup	Should the new

Buttons include OK, Cancel, Apply, and Help.

10. **Copy Code Combination** entered by user.



11. **Assign Value to Company Segment** using a constant. This node assigns a constant value '01' to the Company segment. (Same as Node 3).
12. **Assign Flexfield Value to Cost Center Segment** If the project type is Overhead, this node assigns the valid value from Invoice Descriptive Flexfield Attribute 4 to the Cost Center segment. (Same as Node 7).
13. **Sample Function to Get segment Value Using SQL** This node uses a SQL procedure to derive the value for the Account segment. (Same as Node 8).
14. **Assign Value to Account Segment after SQL Function** This node assigns a segment value derived in Node 8 to the Account segment. (Same as Node 9).
15. **Validate Code Combination** This node contains the standard flexfield function for validating a code combination. For this function to work correctly, the attribute value *New code combinations* must be set to True.
16. **End Generating Code Combination** This standard activity node ends the process. (Same in Nodes 17, 18, and 19).

## Project Expense Report Account Generator Example

### Business Requirement

Let's assume to have a simple chart of accounts that consists of the following three segments:

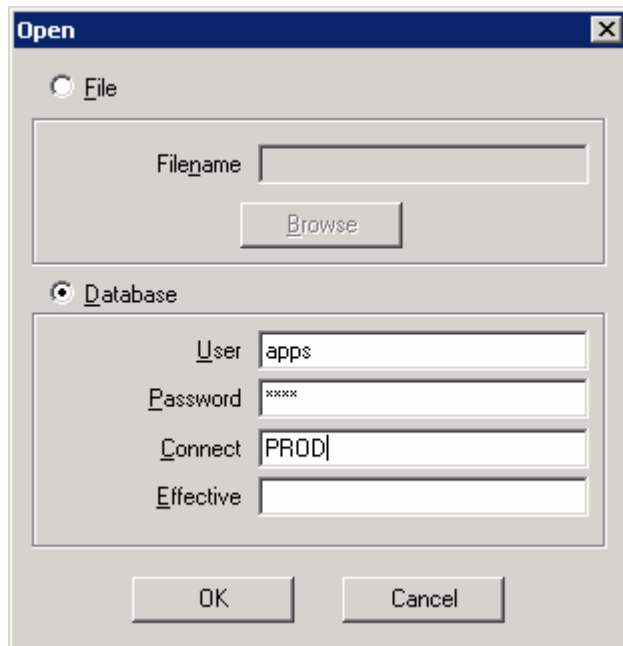
Company – Cost Center – Account

Define a new custom Project Expense Report Account Generator Process, which will construct the accounting combination as follows:

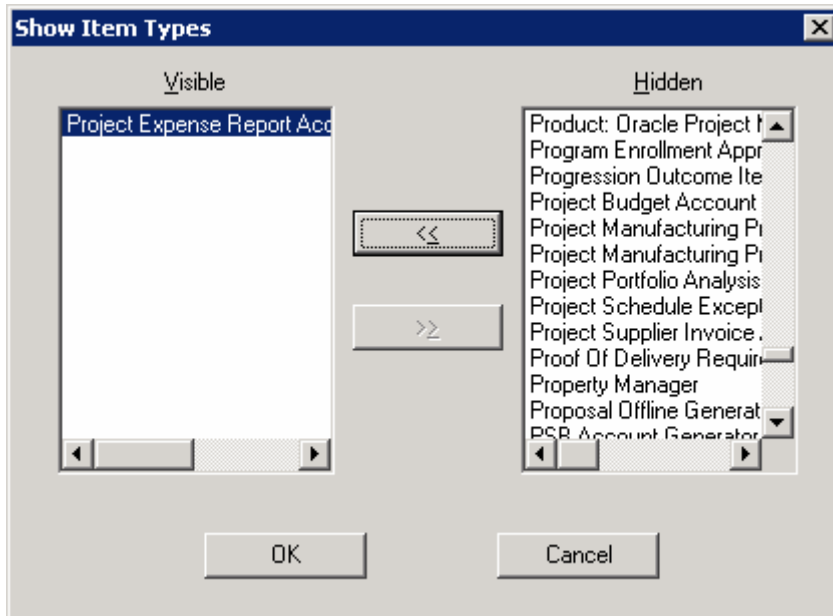
- **Company** from Project Owning Organization using the 'Org to Company' lookup set, which maps HR organization names to GL company values
- **Cost Center** from Expenditure Organization using a lookups set 'Org to Cost Center' lookup set, which maps HR organization names to GL cost center values.
- **Account** should be a constant '12300' if entered expense is billable, or derived from expense type if non-billable. Use the 'Expenditure Type to Account' lookup set to map expenditure types to GL account values.

### Step-By-Step Instructions

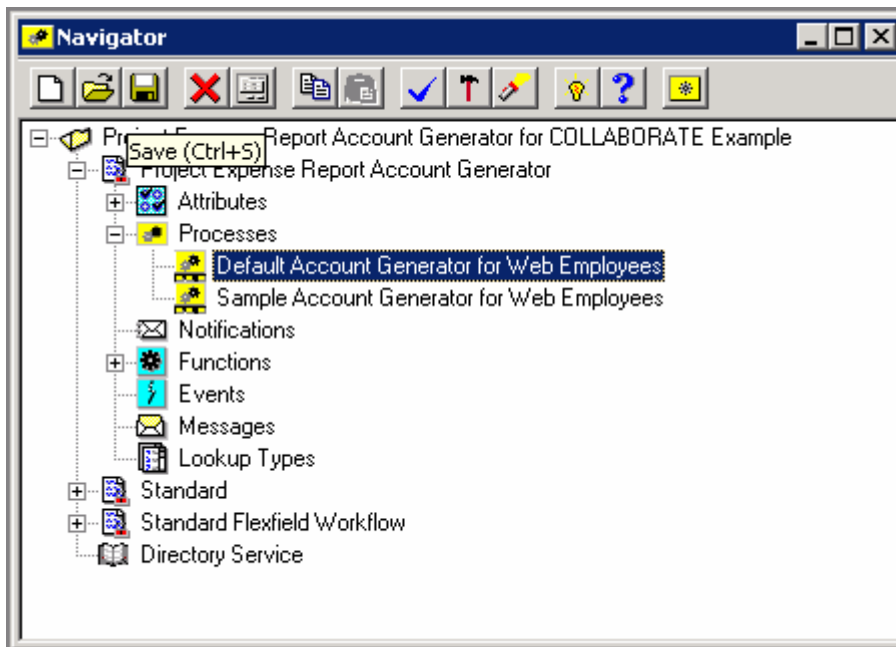
1. Open Oracle Workflow Builder connect to the database



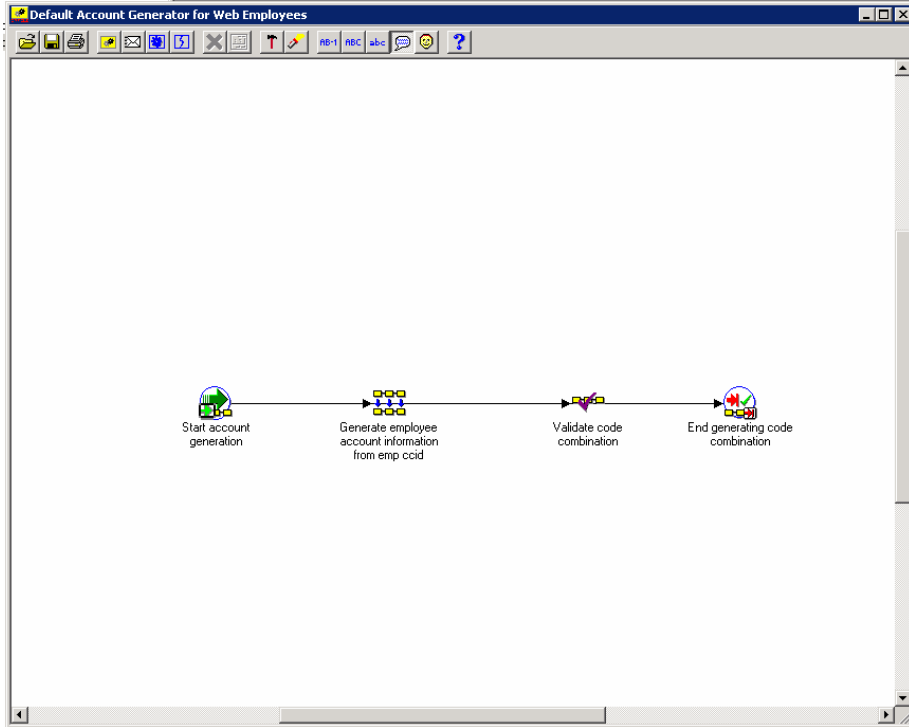
2. Download the Project Expenses Report Account Generator item from the database and save it to your local drive.



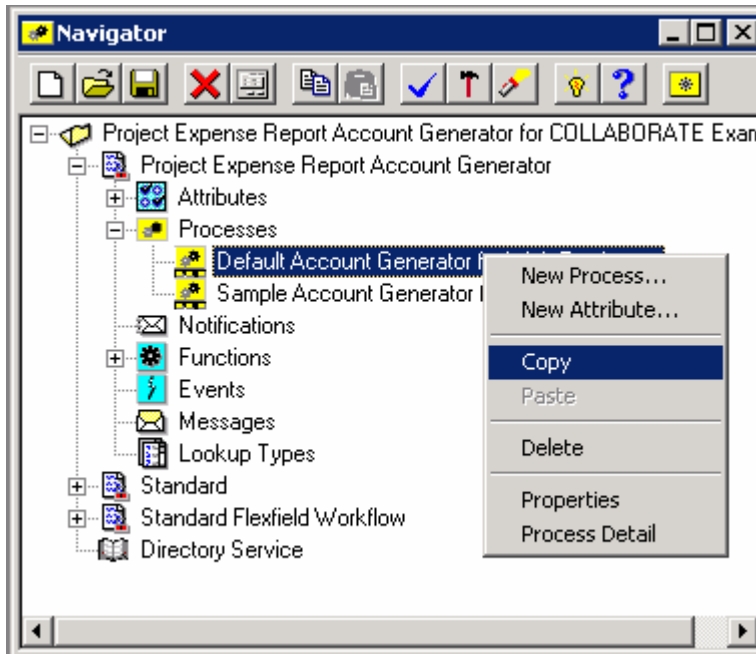
3. From the Navigator window, navigate to Project Expenses Report Account Generator and expand the Processes menu.



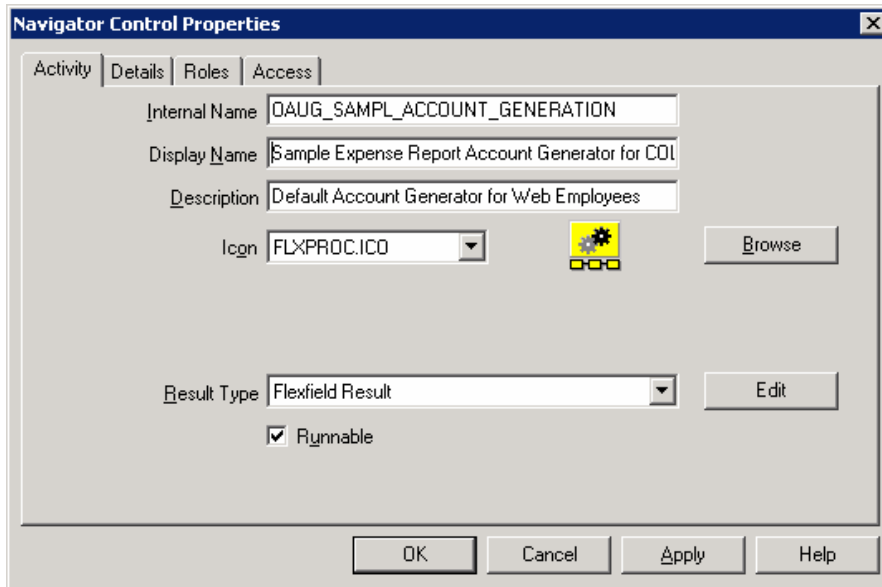
- Review the seeded Default Account Generator for Web Employees. (Double-click on the process). The process copies the accounting combination from the default employee account defined in employee's HR assignment.



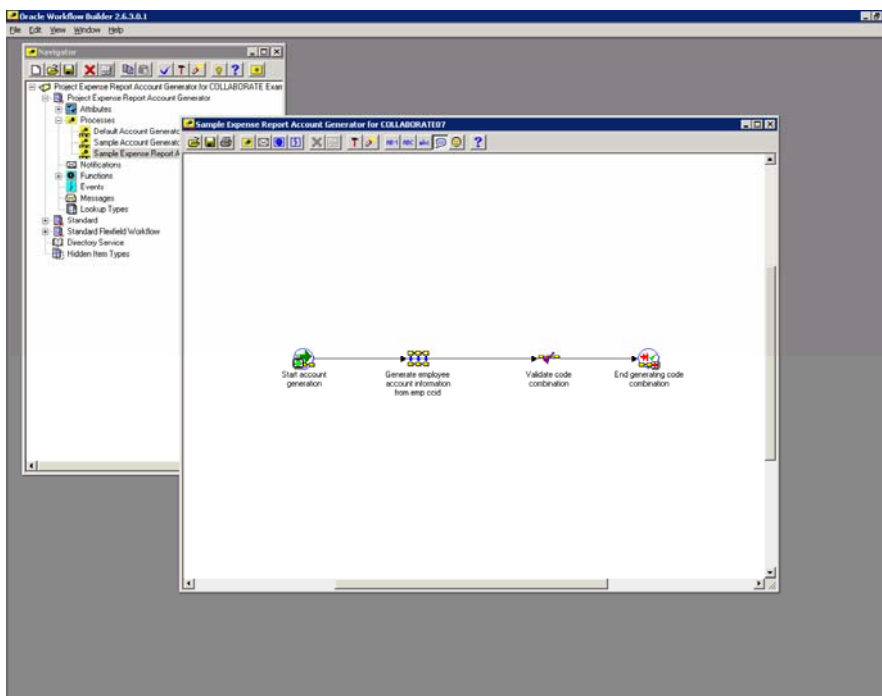
- Create a new process by copying the Default Account Generator for Web Employees process. Right-click on the process.



- Paste the process to Processes. Define a new unique name.

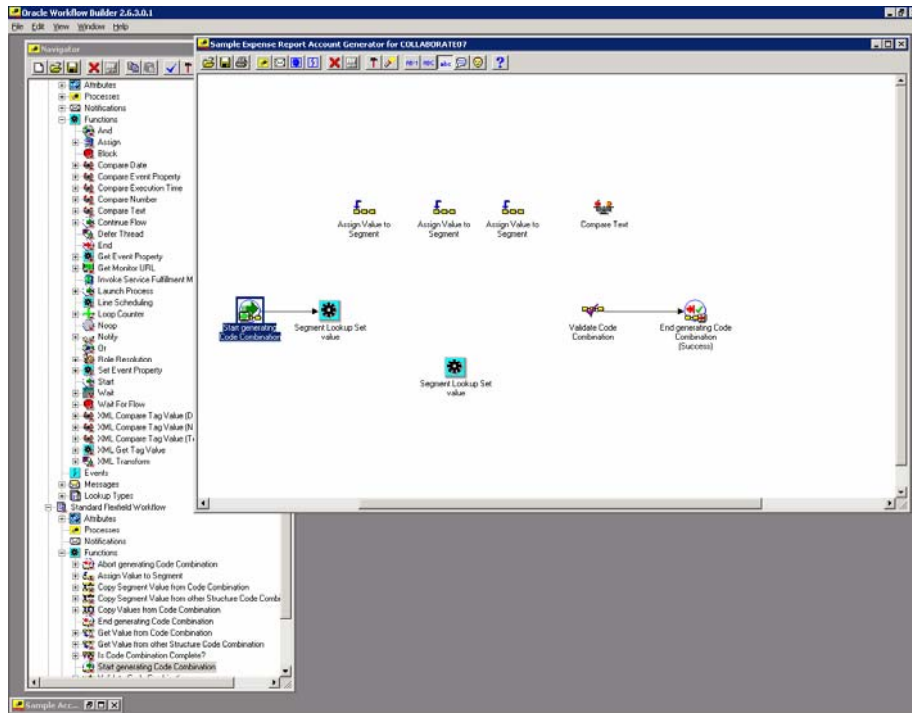


- Open the new process and start building your business rules in the new process.

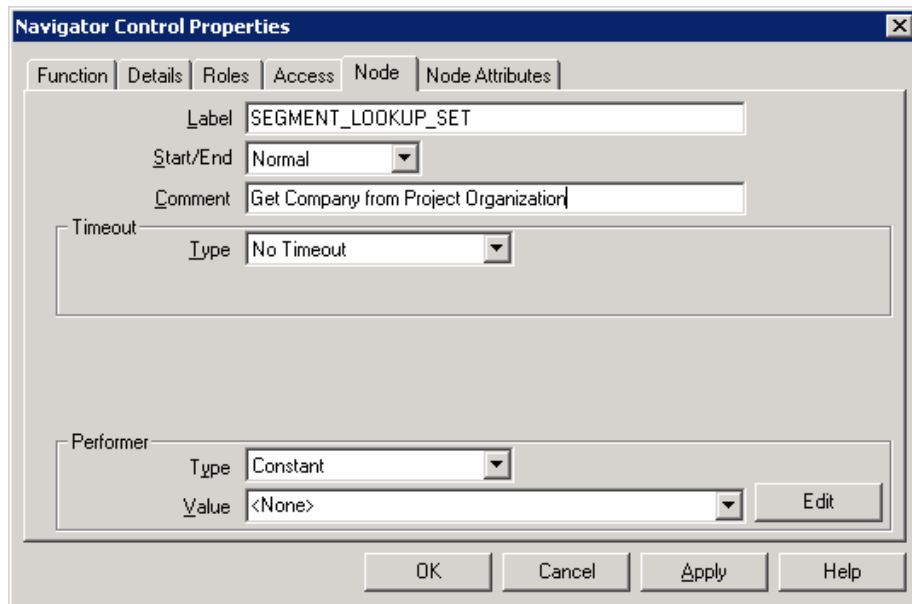




9. Create a rule to get Company value from Project Organization using the 'Org to Company' lookup set. Drag one Segment Lookup Set Value function next to the Start Generator Code Combination function and connect them by right-clicking on the Start function and dragging a line to Lookup Set function.



10. Double-click on 'Segment Lookup Set Value' function to open its Navigator Control Properties. Click on Node tab. In the Comment field, describe what this function will do.



- Click on Node Attributes. Click on Lookup Set Name. Enter the lookup set name in the Value field.

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Node Attributes' tab selected. The 'Attribute' section has the following settings:

- Name: Lookup Set Name
- Type: Constant
- Value: Org to Company

Below the attribute settings is a table listing the attributes:

Name	Value Type	Value	Type	Description
Lookup Set Name	Constant		Text	Lookup Set
Intermediate Value	Constant		Text	Intermediate

Buttons at the bottom include OK, Cancel, Apply, and Help.

- Click on Intermediate Value. Change Attribute Type to Item Attribute. Select Project Organization Name value. This rule will retrieve the company value as defined in the Org to Company lookup set based on the Project Organization Name.

The screenshot shows the 'Navigator Control Properties' dialog box with the 'Node Attributes' tab selected. The 'Attribute' section has the following settings:

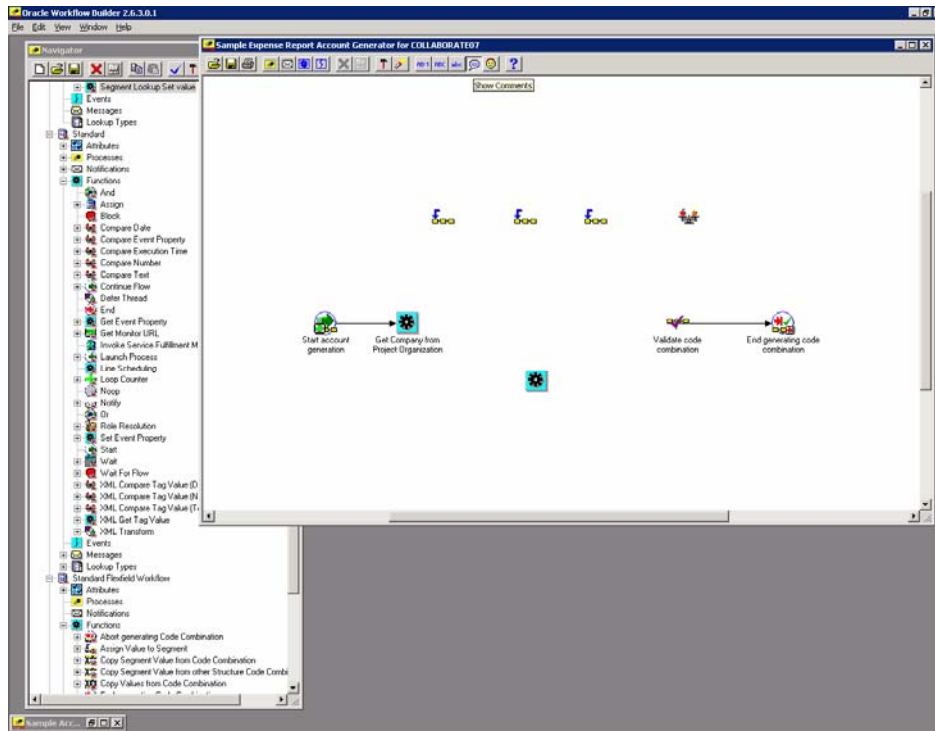
- Name: Intermediate Value
- Type: Item Attribute
- Value: Project Organization Name

Below the attribute settings is a table listing the attributes:

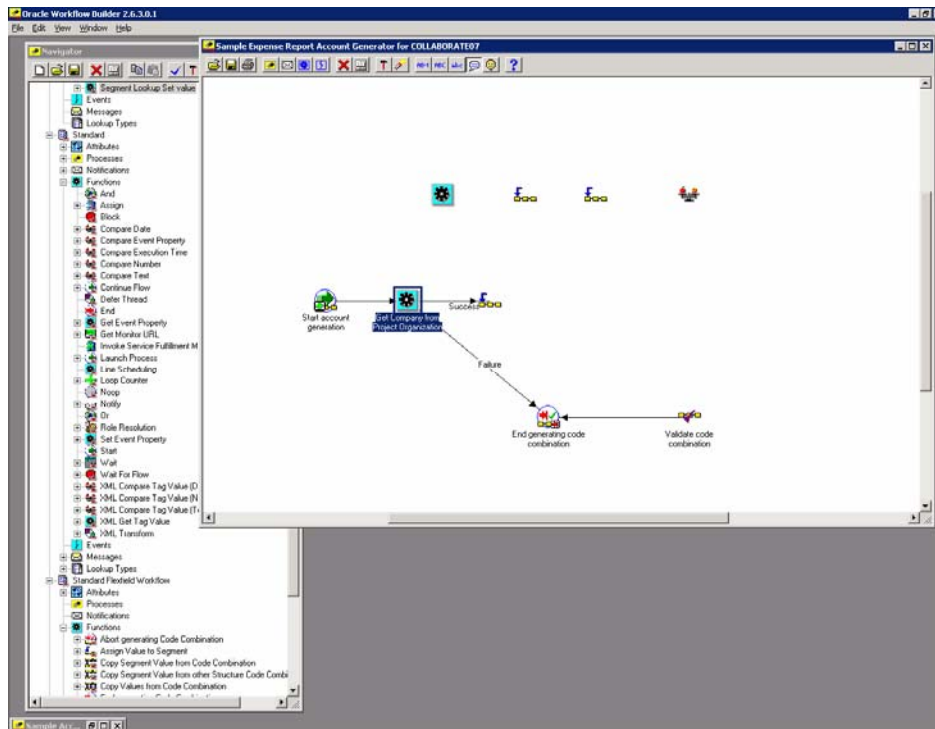
Name	Value Type	Value	Type	Description
Lookup Set Name	Constant	Org to Company	Text	Lookup Set
Intermediate Value	Item Attribute	Project Organiza...	Text	Intermediate

Buttons at the bottom include OK, Cancel, Apply, and Help.

13. Change the view mode to View Comments



14. Insert Assign Value Segment function next to the Get Company from Project Organization function. Connect the two by right-clicking on the Get Company function. Select 'Success' result. Create another link from the Get Company function with result Failure, and connect it to the Abort function.



- Double click on Assign Value function and open the Properties window. Click on Node, enter a comment to describe this step. Define the rule to assign the value to Company Segment. Enter 'Company' in the segment value. Change attribute type to and Item Attribute. Select Lookup Set Value from the list of values. Click OK.

**Navigator Control Properties**

Function | Details | Roles | Access | **Node** | Node Attributes

Label: FND\_FLEX\_ASSIGN\_TO\_SEGMENT

Start/End: Normal

Comment: Assign Company

Timeout Type: No Timeout

Performer Type: Constant

Performer Value: <None> [Edit]

OK Cancel Apply Help

**Navigator Control Properties**

Function | Details | Roles | Access | **Node** | Node Attributes

Attribute Name: Value

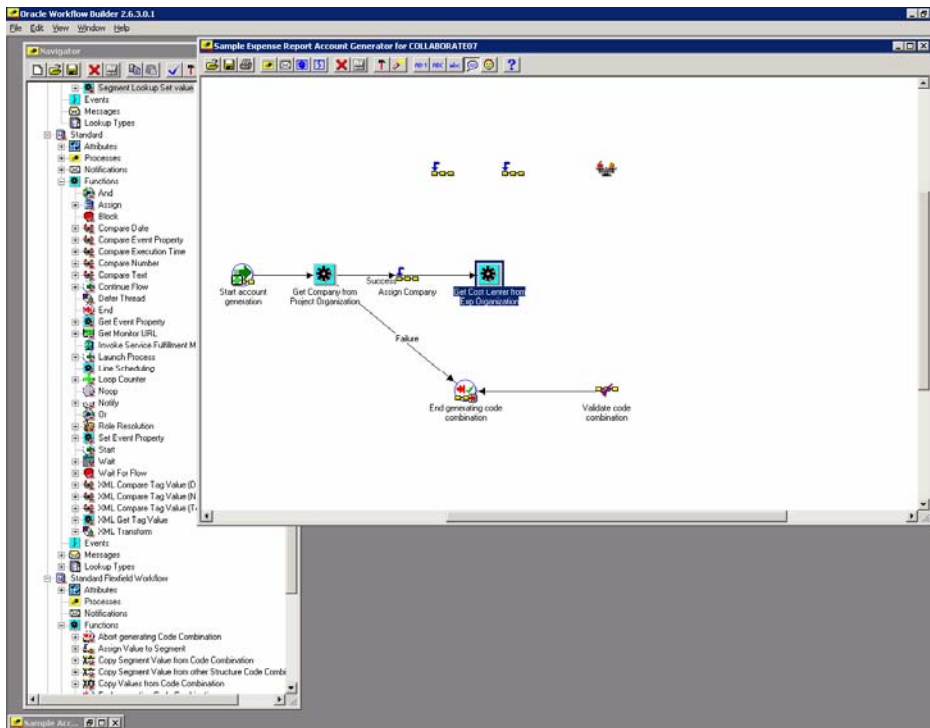
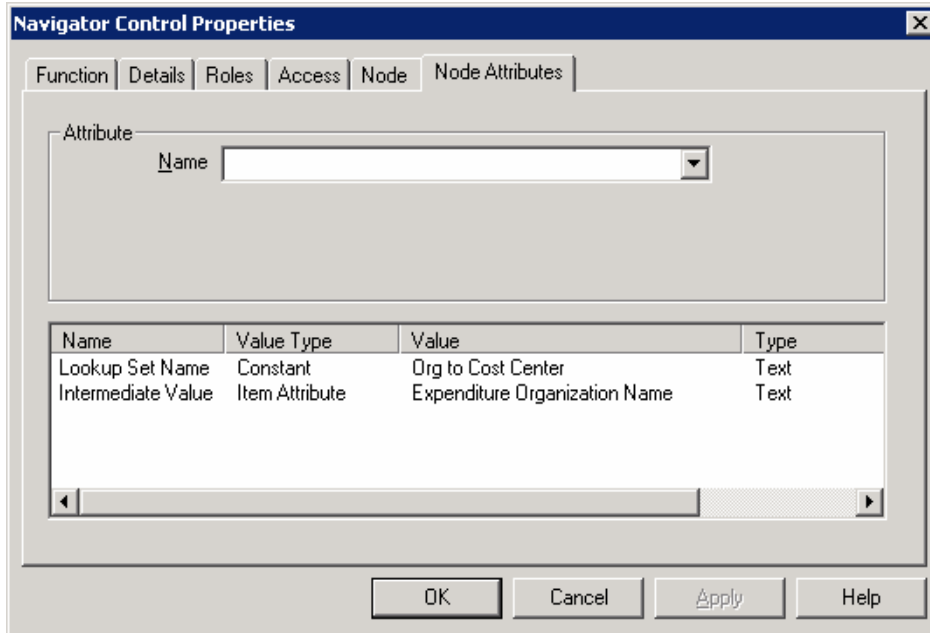
Attribute Type: Item Attribute

Attribute Value: Lookup Set Value [Edit]

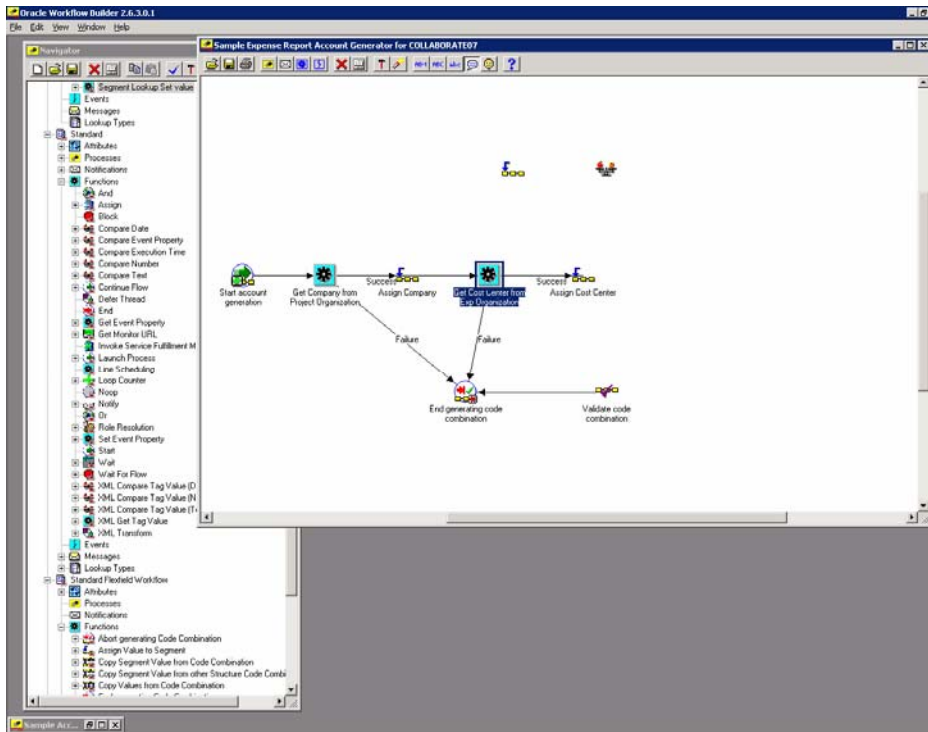
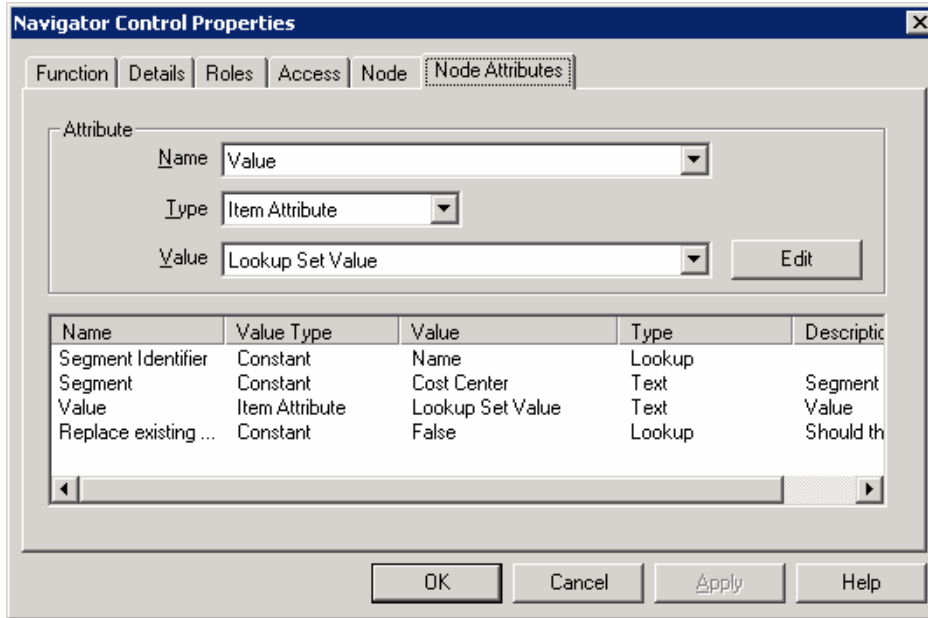
Name	Value Type	Value	Type	Description
Segment Identifier	Constant	Name	Lookup	
Segment	Constant	Company	Text	Segment
Value	Item Attribute	Lookup Set Value	Text	Value
Replace existing ...	Constant	False	Lookup	Should the new

OK Cancel Apply Help

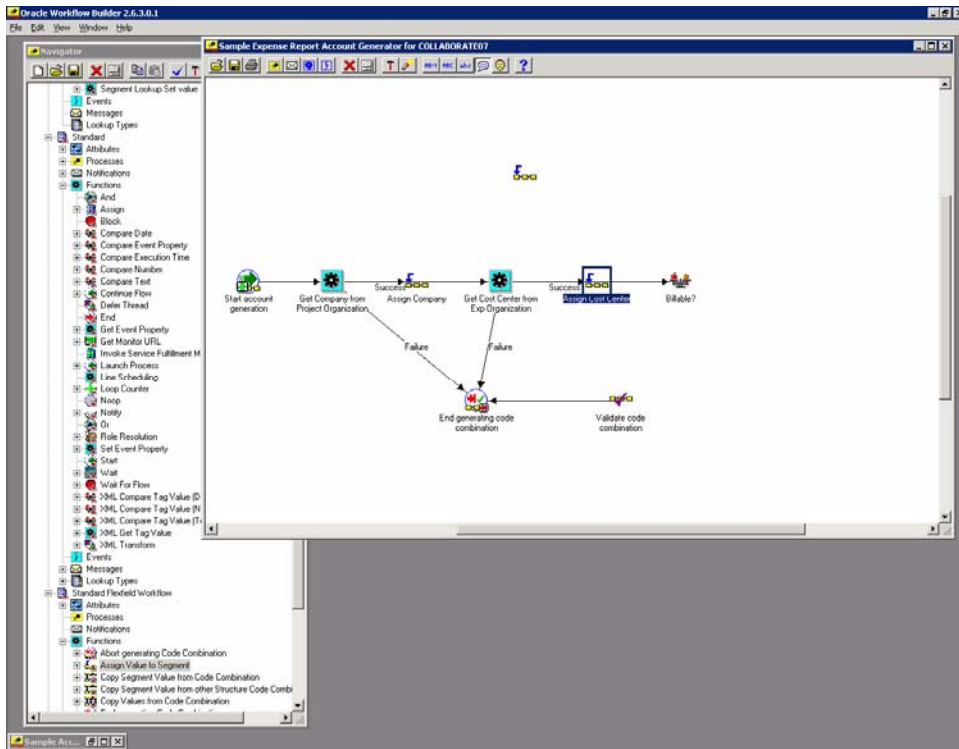
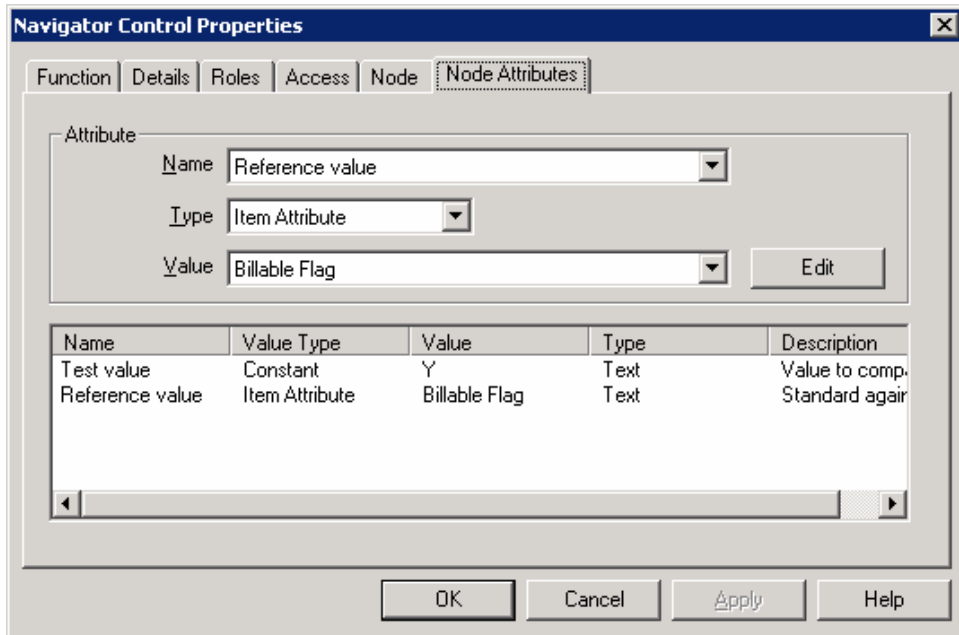
- Next, insert another Segment Lookup Set Value function into the workflow. Connect it with the prior function. Open Properties, and define the rule to select value from the Org to Cost Center lookup set based on Expenditure Organization Name.



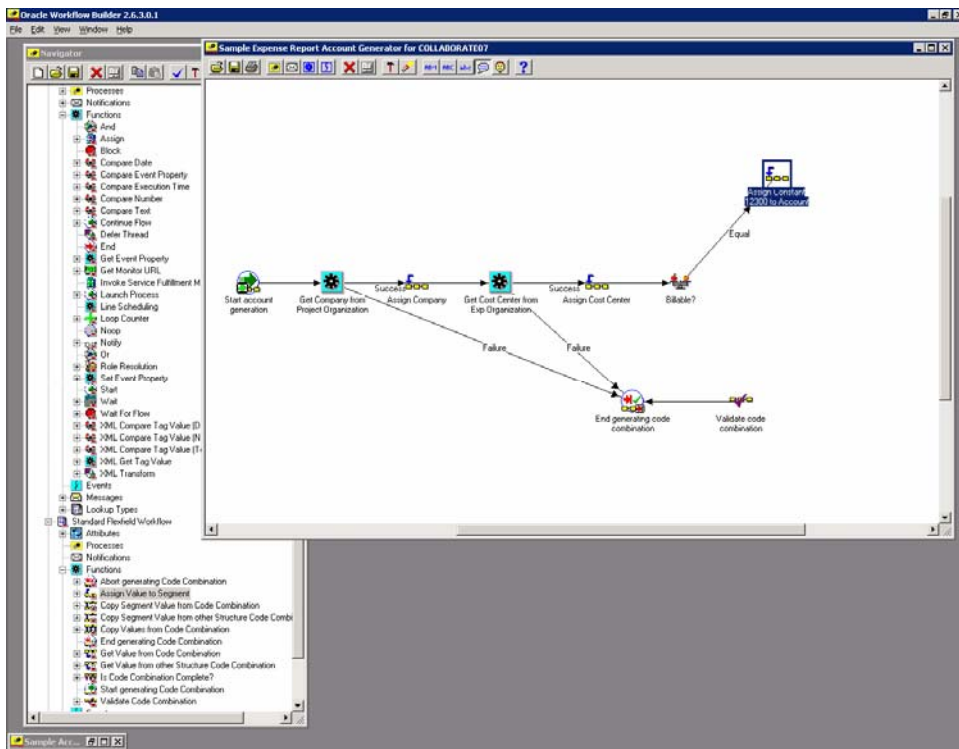
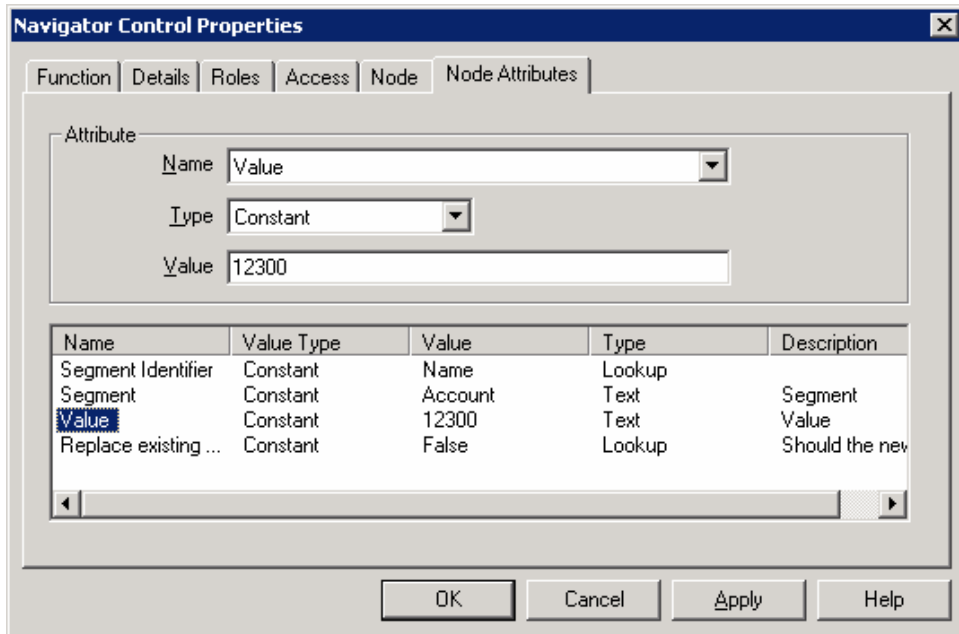
17. If getting the cost center value resulted in Success, assign the value to Cost Center segment. If the result was Failure, abort the process.



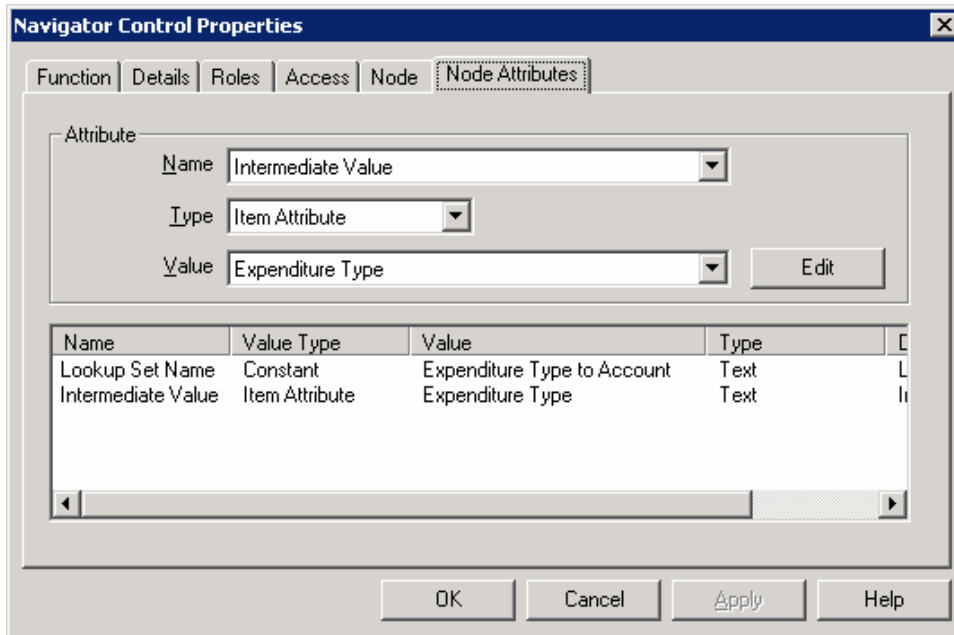
18. Next, define a new for Account segment. Assign constant '12300' if expense is billable, or get value from Expenditure Type to Account lookup set based on Expenditure Type attribute.
19. Insert Compare text function in the workflow. Compare value 'Y' in the Billable Flag attribute.



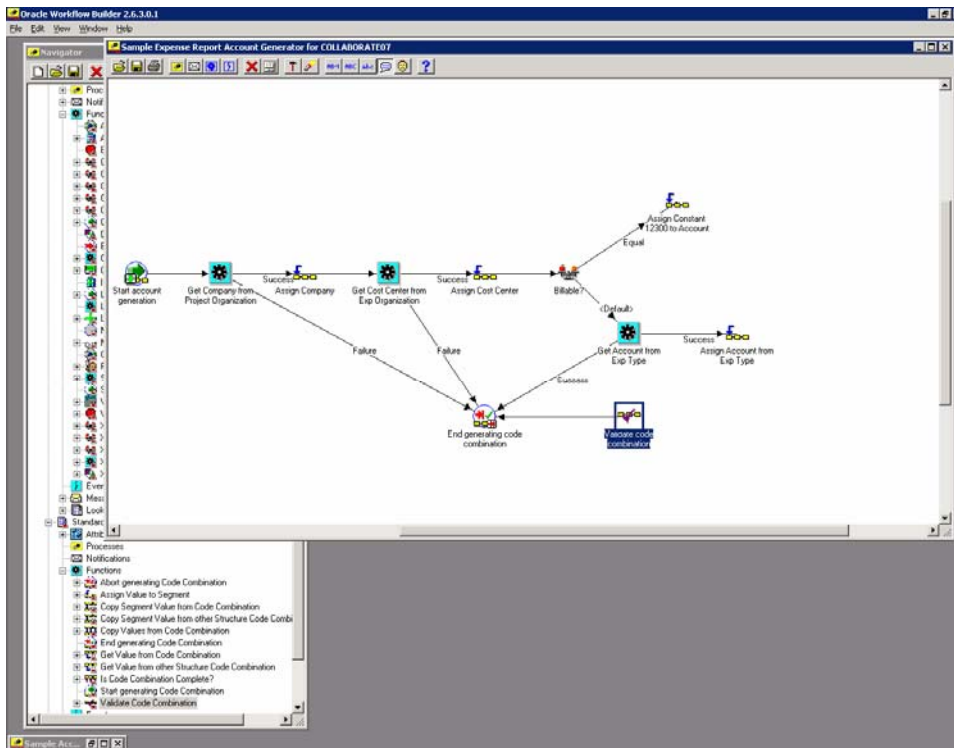
20. Assign constant '12300' to Account segment, if expense is billable.



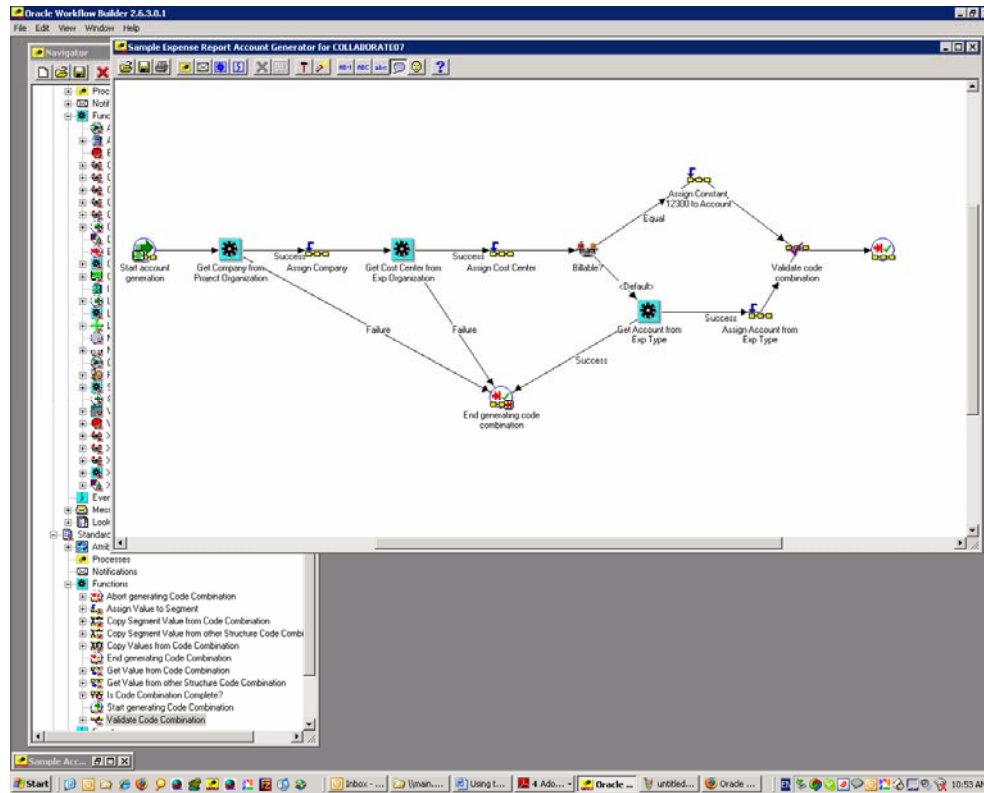
- Define a rule for non-billable expenses. You will need to drag another Segment Lookup Set Value function and Assign Value to Segment function. Get value from Expenditure Type to Account lookup set based on Expenditure Type attribute. (Not the Expense Type attribute!)



- If getting the account value resulted in Success, assign the value to Account segment. If the result was Failure, abort the process.



23. Finish the process by connecting Assign Account functions to the Validate Code Combination function. Complete the process by inserting another Abort function at the end.



24. You are almost done! Save the process to your local drive and to the database. Test the new process in the test database first by creating an expense report in iExpenses, or in Payables (this would be quicker as you do not need to go through the approvals).

25. Assign the new Account Generator process for Project Expense Reports. Login to Oracle General Ledger > Setup > Financials > Flexfields > Key > Accounts. Query up the Project Expense Account Generator item type. Select your new process name. Save.

Item Type	Process Name
AR: Substitute Balancing Segment	Replace Balancing Segment
FA Account Generator	Generate Default Account
IGC Budget Account Generator	Generate Default Account
IGC Charge Account Generator	Generate Default Account
IAC account generator	Generate Default Account Generator
ITR Account Generator	Generate Default Account
OM : Generate Cost of Goods Sold Account	Generate Default Account
Project Supplier Invoice Account Generation	Generate default account
<b>Project Expense Report Account Generator</b>	<b>Sample Expense Report Account Generator for COLLABORATE</b>
Project Budget Account Generation	Generate Default Account

26. When the new process works as expected in the test database, repeat steps 24 and 25 to copy it to the production database and assign it to your chart of accounts.

## Few Tips and Comments at the End

- Do not save a backup workflow to the database. Workflows saved to the database overwrite the workflow of the same name in the database!
- Even if your account generators for project requisitions, POs, supplier invoices and expense reports contain the same business rules, the processes need to be build from scratch for each account generator (they separate PLSQL packages).
- Not all attributes are available for all Account Generators. For example, Expense Cost Center for expense reports entered in Payables, etc.
- If you want to use a lookup set for Oracle Purchasing rules, you must drag and drop the Lookup activity from Oracle Payables to the Oracle Purchasing Account Generator item type.
- You can set Payables Options so that the system copies descriptive flexfield attributes from Purchasing to Payables when a purchase order is matches to an invoice.
- You can set Payables Options so that the system copies descriptive flexfield attributes from iExpenses to Payables when an expense report is imported into Payables.

## Troubleshooting

Account Generators do not log records in the workflow runtime tables, so you cannot view the results through the Workflow Monitor. However, if you set the value for the profile option 'Account Generator: Run in Debug Mode' to Yes, then history will be generated and you can trace what happens as you would for any workflow. However, even with the profile option set to 'Yes', you will not see the "hidden" attributes. This is the best way for the account generators that consist only of the standard flexfield activities.

Refer to the [Metalink Note 224308.1](#) for Frequently Asked Questions about Account Generators for Oracle Projects.

## Accounting for Project Cost Adjustments in Oracle Projects

As discussed above, project-related supplier invoices and expense reports become project expenditures in Oracle Projects. When you transfer, re-classify or otherwise adjust these expenditures in Projects, they need to be costed and accounted for again.

For project adjustments, Oracle Projects is not using Project Account Generators, but it is using AutoAccounting Rules. You have to define the following AutoAccounting rules in order to process project adjustments:

- Supplier Invoice Cost Account
- Expense Report Cost Account
- Expense Report Liability Acct

## What is New in Release 12?

In Oracle eBusiness Suite Release 12, AutoAccounting, Account Generator, and Oracle Subledger Accounting each provide functionality to create accounting for project-related supplier costs and expense reports. When you implement Oracle Purchasing and Oracle Payables integration with Oracle Projects, you must carefully consider how to set up the account derivation logic in each location. The following table describes the accounting setup for project-related transactions for integrating Oracle Projects with Oracle Purchasing and Oracle Payables.

Accounting Setup	Description
Oracle Purchasing Account Generator	Required. Oracle Purchasing uses the Account Generator to derive default debit accounts for project-related purchasing documents.
Project Supplier Invoice Account Generator	<p>Required. Oracle Payables uses the Account Generator to derive debit accounts for project-related supplier invoices that are not matched to a purchase order.</p> <p>In addition, Oracle Projects uses the Account Generator to derive a default debit account for supplier cost and expense report adjustments that you perform in Oracle Projects. Oracle Projects uses this information to determine whether to allow the adjustment when you enable Automatic Offsets in Oracle Payables.</p> <p>Oracle Projects also uses this information to determine whether an adjustment can potentially affect tax recoverability.</p>
Project Expense Report Account Generator	Required Oracle Internet Expenses and Oracle Payables (Invoices window) use the Account Generator to derive default debit accounts for project-related expense reports. You set up the Account Generator when you implement Oracle Payables.
Supplier Invoice Cost Account AutoAccounting Function	Required Oracle Projects uses this AutoAccounting function to derive default debit accounts for supplier cost adjustments that you perform in Oracle Projects.
Expense Report Cost AutoAccounting Function	Required Oracle Projects uses this AutoAccounting function to derive default debit accounts for expense report adjustments that you perform in Oracle Projects.
Default Supplier Cost Credit Account Oracle Projects Implementation Option <i>NEW!</i>	Optional. The process PRC: Generate Cost Accounting Events uses the specified account as the default credit account for supplier cost and expense report adjustments that you perform in Oracle Projects.
User-defined Setup in Oracle Subledger Accounting for Supplier Cost Adjustments <i>NEW!</i>	Optional . Oracle Projects predefines setup in Oracle Subledger Accounting so that the Create Accounting process accepts the accounting for supplier cost and expense report adjustments from Oracle Projects without change. You can optionally define your own detailed accounting rules in Oracle Subledger Accounting.

	<p>If you allow adjustments to supplier costs in Oracle Projects and you do not define a default supplier cost credit account in Oracle Projects implementation options, then you must set up Oracle Subledger Accounting to derive the credit account for supplier cost adjustments.</p>
--	---

## Conclusion

Oracle provides Project Account Generators to automatically generate accounting flexfield combinations for project-related transactions using your own business rules. Project Account Generators must be always customized. Automatic generation of account combinations based on project-related information entered by users improves the accuracy and ease of data entry. When the business requirements change and new needs arise, Project Account Generator processes will have to be modified.

## About the Author

Marian Crkon is a managing principal at 3Gs Consulting and an author and editor of [The Feature](#), a blog about using Oracle Applications. Marian has over 14+ year experience implementing Oracle Applications and his skills include business analysis, process re-engineering, system design and programming, user training and testing, conversion and system integration, deployment and sustainment, and IT management. Marian has successfully completed several new implementations, upgrades, and merger and acquisition integrations.

Marian has been focused on Oracle Projects and Oracle Financials and their integration with each other and related Oracle and 3<sup>rd</sup> party tools and technologies. Marian's industry knowledge includes Professional Services, Construction, Oil, Retail, Public Sector, Telecom, Transportation and Digital Marketing. Marian can be reached at [marian.crkon@3gsconsulting.com](mailto:marian.crkon@3gsconsulting.com).