

## Decision Example

This example will describe how to use the Decision step. First, let's copy Workflow Definition from before as the starting point for this example. Select "Update Variable Example" from the drop down list and enter the value "Decision Example" for the copy name. Click the "Copy Definition" button to copy the Workflow Definition.

The screenshot shows the 'Manage Definitions' interface. At the top, there is a navigation bar with tabs: Users, Data Types, Categories, Steps, Definitions (selected), Instances, Tasks, ESB, BI, and Status. Below the navigation bar, there is a 'Manage Definitions' section with buttons: Create Definition, Master Variables, Show Definitions: 20, Update, Remove, Remove Instances, Render, Get XML, Set XML, Design, Copy (highlighted with a red box), Snapshots, and Report. Below these buttons is a table with columns: Definition Name, Created On, Created By, Updated On, and Used By Instances. The table contains several rows, with 'Update Variable Example' highlighted. A 'Copy Definition' dialog box is open in the foreground, showing 'Definition to Copy: Update Variable Example' and 'Name of Definition copy: Decision Example'. The 'Copy Definition' button in the dialog is also highlighted with a red box.

Definition Name	Created On	Created By	Updated On	Used By Instances
Update Variable Example	1/2/2012 9:48:38 PM			1
CNDef	2/7/2014 12:02:43 PM			0
Leave Request Def	2/15/2012 10:25:57 PM			0
Evaluate Expression Example	1/4/2012 3:21:52 PM			1
GetSetMatrixValue Example	1/5/2012 5:02:51 PM			1
Email Example	1/5/2012 3:34:36 PM			1
SubWorkflow Example	1/5/2012 3:11:46 PM			1
Task Example	1/4/2012 7:17:11 PM	Admin User	1/4/2012 7:22:06 PM	0

Once copied, Workflow Definition will be rendered on the list. Select the Definition and click the “Edit Definition” button to view the Designer.

Manage Definitions

Create Definition Master Variables Show Definitions: 20

Update Remove Remove Instances Render Get XML Set XML Design Copy Snapshots Report

Definition Name	Created On	Created By	Updated On	Used By Instances
Decision Example	1/3/2012 4:49:37 PM	Admin User	2/19/2014 3:13:31 PM	1
Update Variable Example	1/2/2012 9:48:38 PM	Admin User	2/19/2014 2:54:05 PM	1

Designer will render the Definition that was built from the “Update Variable Example”. From the toolbar, drag and drop the “Decision” step next to the “UpdateVariable” step.

All Steps

Update Variable Example

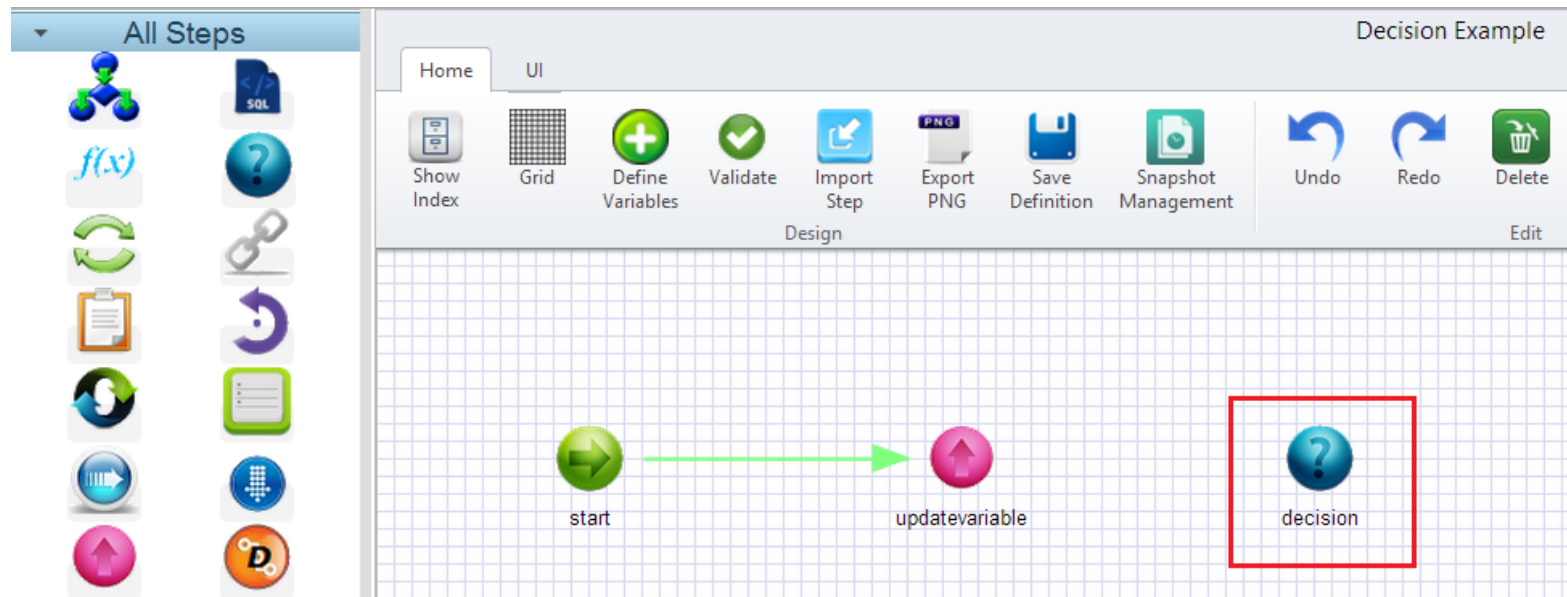
Home UI

Show Index Grid Define Variables Validate Import Step Export PNG Save Definition Snapshot Management Undo Redo Delete Comment Search In Out 100%

Design Edit Zoom

start → updatevariable

Click the “Decision” step to render the step’s properties.



Enter the following values for the Decision step properties. This Decision step will check if the Variable.PONumber is greater than 100. Click the “Save” button to save the configured values.

The screenshot displays a workflow designer interface. On the left, a vertical toolbar contains various icons for different step types. The main workspace is a grid where a process flow is being built. The flow starts with a green circle icon labeled 'start', followed by a green arrow pointing to a pink circle icon labeled 'updatevariable', and finally a blue circle icon with a question mark labeled 'decision'. Above the grid, a toolbar includes icons for 'Show Index', 'Grid', 'Define Variables', 'Validate', 'Import Step', 'Export PNG', 'Save Definition', and 'Snapshot Management'. On the right side, a properties panel for the 'decision' step is visible. It shows 'Incoming Connections: 0' and 'Outgoing Connections: 0'. The 'Name' field is set to 'decision'. The 'Description' field is empty. The 'condition to evaluate' field contains the text 'Variable.PONumber > 100'. The 'Log Message' field is empty. The 'Documentation' field is empty. A 'Save' button is located below the documentation field. At the bottom of the properties panel, there is a green plus icon and the text 'Variables'.

Decision Example

Home UI

Show Index Grid Define Variables Validate Import Step Export PNG Save Definition Snapshot Management

Design

start → updatevariable → decision

decision

Incoming Connections: 0  
Outgoing Connections: 0

Name: decision

Description:

condition to evaluate: \*  
Variable.PONumber > 100

Log Message:

Documentation:

Save

Variables

Draw a connection between the step “UpdateVariable” and the “Decision” step. Once the connection is made, click the connection to configure the connection properties, and select the value “True” from the drop down list. Click the “Save” button to save the changes.

The screenshot displays the Camunda BPMN Designer interface. On the left, the 'All Steps' palette contains various BPMN elements. The central workspace shows a workflow diagram with three steps: 'start' (green circle), 'updatevariable' (pink circle), and 'decision' (blue circle with a question mark). A green arrow connects 'start' to 'updatevariable', and a black arrow connects 'updatevariable' to 'decision'. The black arrow is labeled 'True'. Above the workspace is a toolbar with icons for 'Show Index', 'Grid', 'Define Variables', 'Validate', 'Import Step', 'Export PNG', 'Save Definition', and 'Snapshot Management'. On the right, the 'Link' configuration panel is open, showing a list of link types: 'None', 'True' (selected and highlighted with a red box), 'False', 'error', and 'Evaluate'. Below this is a 'Save' button. Further down, the 'Change Link Type' section shows three options: 'Z - Type' (selected), 'Line', and 'Round', each with a corresponding arrow icon. At the bottom, the 'Line Color' is set to '#1B1B1B'.

Click the “Save Definition” button at the top toolbar to save the Workflow Definition.

The screenshot displays a software interface for designing workflows. At the top, a toolbar is divided into sections: 'Home' and 'UI'. The 'Design' section contains icons for 'Show Index', 'Grid', 'Define Variables', 'Validate', 'Import Step', 'Export PNG', and 'Save Definition' (which is highlighted with a red rectangle). The 'Edit' section includes 'Undo', 'Redo', 'Delete', 'Comment', and 'Search'. The 'Zoom' section has 'In', 'Out', and '100%' icons. Below the toolbar, a workflow diagram is shown on a grid background. It starts with a green circle labeled 'start', followed by a green arrow pointing to a pink circle labeled 'updatevariable'. From there, a black arrow labeled 'True' points to a blue circle with a question mark labeled 'decision'. A dialog box is open on the right side of the screen, containing the text 'The page at cobra says:' and 'Workflow Definition was saved...'. The dialog box has a close button (X) in the top right corner and an 'OK' button at the bottom right.

Decision Example

Home UI

Show Index Grid Define Variables Validate Import Step Export PNG **Save Definition** Snapshot Management

Design

Undo Redo Delete Comment Search

Edit

In Out 100%

Zoom

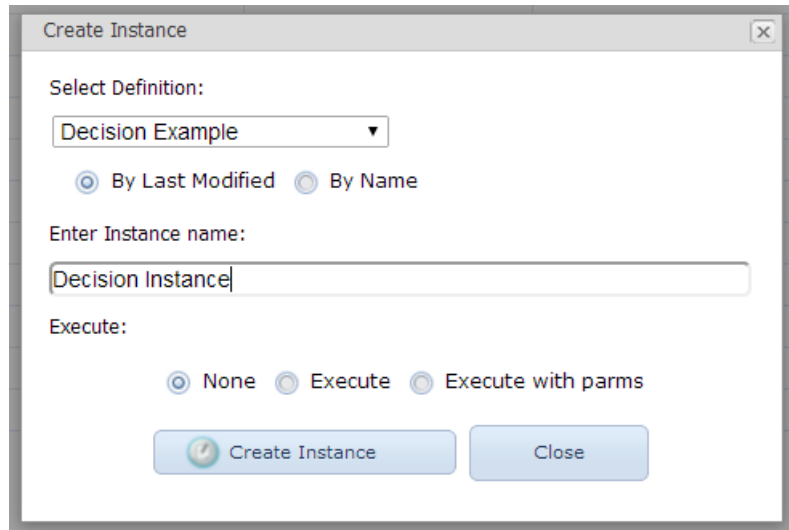
start → updatevariable → True → decision

The page at cobra says:

Workflow Definition was saved...

OK

Let's execute the Workflow Definition. Select the Workflow Definition "Decision Example" from the drop down list. Enter the value "Decision Instance" for the name of the instance. Click the "Create Instance" button to create the instance.



The image shows a "Create Instance" dialog box with a title bar containing a close button. The dialog contains the following elements:

- Select Definition:** A dropdown menu with "Decision Example" selected.
- Sorting:** Two radio buttons, "By Last Modified" (selected) and "By Name".
- Enter Instance name:** A text input field containing "Decision Instance".
- Execute:** Three radio buttons: "None" (selected), "Execute", and "Execute with parms".
- Buttons:** A "Create Instance" button with a clock icon and a "Close" button.

Once created, the instance will be rendered in the table below. Select the instance from the table and click the “Execute Button” to execute the instance.

Users

Data Types

Categories

Steps

Definitions

Instances

Tasks

ESB

BI

Status

### Manage Instances

Create Instance

Run Engine

Refresh Page

View SubWorkflows

Show Instances: 20

Instance was removed

Reset

Reset To Step

Remove

Render

Execution View

Execute

Execute - Params

Get XML

Report

Instance Name	Created On	Started On	Ended On	Status	Wait Steps	Definition Name
Decision Instance	2/19/2014 3:22:15 PM			NotStarted		Decision Example
UpdateVariable Instance	2/19/2014 2:55:40 PM	2/19/2014 2:58:55 PM	2/19/2014 2:58:55 PM	finish		Update Variable Example
Loop Instance	1/4/2012 3:51:56 PM	7/2/2013 9:32:45 AM	7/2/2013 9:32:46 AM	reset		Loop Example
TestCustomInstance	2/25/2012 8:23:48 AM		2/25/2012 8:41:34 AM	finish		

Decision Instance 2/19/2014 3:22:15 PM NotStarted Decision Example

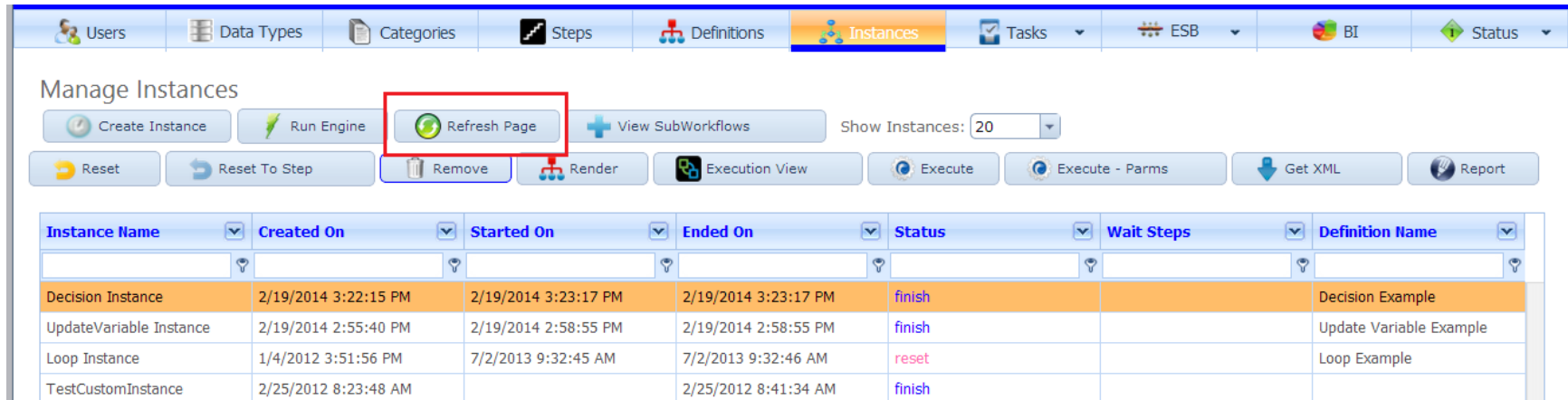
UpdateVariable Instance 2/19/2014 2:55:40 PM 2/19/2014 2:58:55 PM 2/19/2014 2:58:55 PM finish Update Variable Example

Loop Instance 1/4/2012 3:51:56 PM 7/2/2013 9:32:45 AM 7/2/2013 9:32:46 AM reset Loop Example

TestCustomInstance 2/25/2012 8:23:48 AM 2/25/2012 8:41:34 AM finish



Background workflow service will process the request. Click the “Refresh Page” button to refresh the page to view the status of the instance. Instance should now show a status of “finish”.



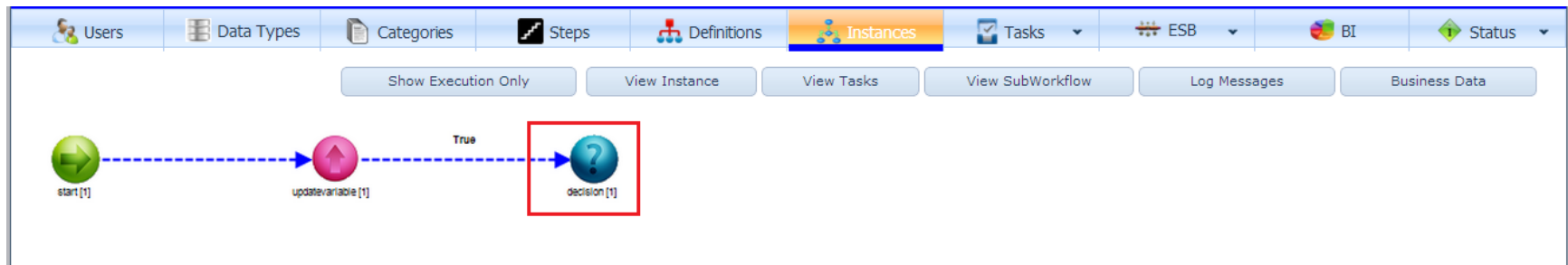
Manage Instances

Create Instance Run Engine Refresh Page View SubWorkflows Show Instances: 20

Reset Reset To Step Remove Render Execution View Execute Execute - Params Get XML Report

Instance Name	Created On	Started On	Ended On	Status	Wait Steps	Definition Name
Decision Instance	2/19/2014 3:22:15 PM	2/19/2014 3:23:17 PM	2/19/2014 3:23:17 PM	finish		Decision Example
UpdateVariable Instance	2/19/2014 2:55:40 PM	2/19/2014 2:58:55 PM	2/19/2014 2:58:55 PM	finish		Update Variable Example
Loop Instance	1/4/2012 3:51:56 PM	7/2/2013 9:32:45 AM	7/2/2013 9:32:46 AM	reset		Loop Example
TestCustomInstance	2/25/2012 8:23:48 AM		2/25/2012 8:41:34 AM	finish		

Select the instance from the table and click the “Execution View” button to view the execution of the instance.



Click the “Decision” step to view details execution of the step. From the properties displayed, the Decision step returned a value of “True” after evaluating the condition “Variable.PONumber > 100”.


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Step Name: decision  
Step Type: decision  
Execution Iteration: 1 ▼  
Step Status: complete  
Step Return Value: True  
Step Started At: 2/19/2014 3:23:17 PM  
Step Ended At: 2/19/2014 3:23:17 PM

Variables:

initiatorID	46ecb4da-d7f1-4c72-bb37-2626f3f43f63
instanceID	f476ab33-dc9f-4f00-9063-9b999c980f6c
PONumber	477

Properties:

condition		Variable.PONumber > 100
documentation		
itemDescription		
itemName		decision
logMessage		

Errors: