

WebSphere Education



Completing the process model

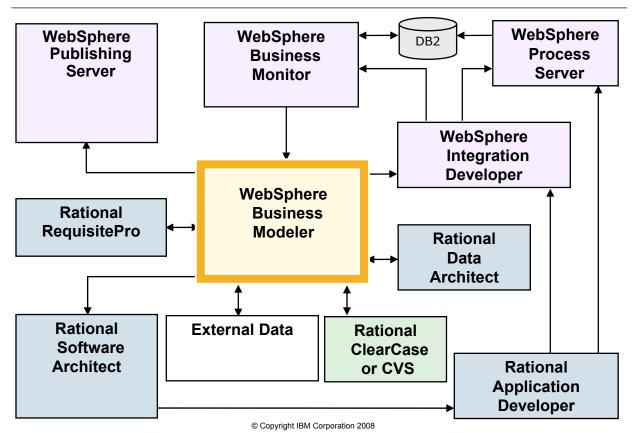
Unit 9

Unit objectives

After completing this unit, you should be able to:

- Use swimlane layout
- Explain the subprocesses
- Explain loops
- Define decision attributes
- Add documentation
- Clean up a diagram

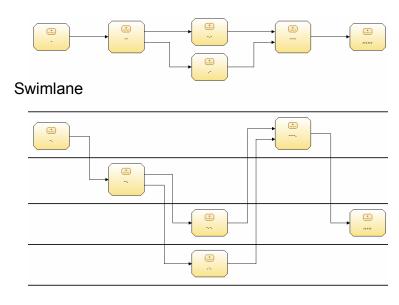
Completing a business process model



Free-form and swimlane

- Free-form
 - Set or change the position of elements within the diagram in any location
- Swimlane
 - Arranges the process flow in a way that allows you to focus on the interaction between:
 - Roles
 - Organization units
 - Locations
 - Classifiers
 - Individual resource definitions
 - Bulk resource definitions

Free-form



Modeling techniques

- Modeling techniques are similar in both layouts.
- Open a new model in either layout.
- Both layouts allow you to:
 - Add elements from the palette or from the project tree
 - Copy, paste, or delete elements on the diagram
 - Select elements in the diagram to display and edit their properties
 - Auto-layout
- Switch the layout as needed from the process editor.
- Printed diagrams are based on the layout that is displayed at the time of printing.
- The process editor opens a diagram using the layout the diagram had when it was last closed.

Swimlane — additional capabilities

- Additional functions
 - Change the size of the swimlane manually or automatically.
 - Manually drag the swimlane boundary.
 - Swimlane will automatically resize to accommodate new elements.
 - Insert, move, and remove swimlanes.
 - Unassigned elements are placed at the bottom in an unassigned row.
 - An unassigned row can be closed if there are no unassigned elements.
- Additional warning
 - An incorrect swimlane indicator small red barred circle
 - Appears when the element's attributes do not match the swimlane

Swimlane layout determined by analytical needs

- The swimlane layout by classifier is unique.
 - You choose which classifier to use for the layout.
 - The swimlanes for the layout are based on its classifier values.
- The layout determines in which row the elements are placed.
 - The purpose of arranging element in rows is to easily identify unnecessary hand-offs between rows.
 - Aids in resolving bottlenecks and redundancies
- Different processes require different analyses.
 - Different processes can have different swimlane layouts.
- Customer row can be moved to the top.
 - Customer touch points are more visible.
- Multiple resources in one lane.
 - Used to show multiple resources working together to complete a task.
 - Each individual resource has its own row and a row for the combined work.
- Assign a system to a role.
 - If you want to show handoffs between human roles and systems:
 - Systems are typically assigned as resources for cost purposes, but you cannot put resources and roles on the same diagram.

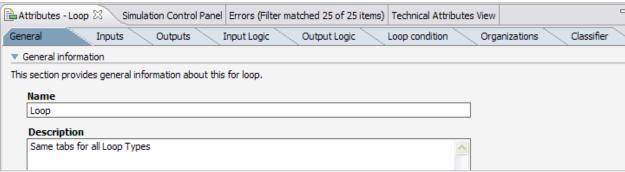
Loop (1 of 2)

- A loop is a repeating sequence of activities contained within a process
- Three types of loops available:
 - For loop
 - Repeats the same sequence of activities a specified number of times
 - While loop
 - Repeats while some condition is satisfied, testing its condition at the **beginning** of every loop
 - The loop may never run
 - Do-while loop
 - Repeats while some condition is satisfied, testing its condition at the end of the loop
 - The loop will run at least once









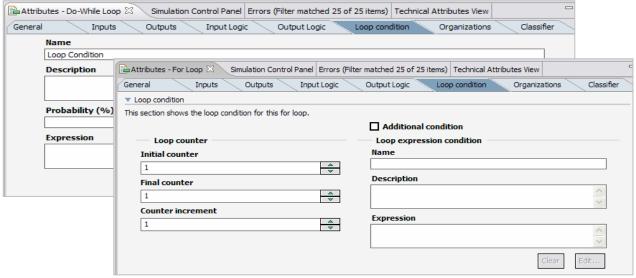
Loop (2 of 2)







- Inputs into loops do not work the same way as inputs into subprocesses.
 - Inputs to loops can be checked by the loop condition, but they cannot be used as inputs by elements within the body of the loop.
 - To pass data into a loop, use a repository.
 - Use a local repository if you intend to use an expression.
 - Expression Builder cannot access global repositories



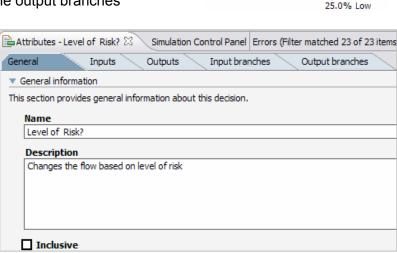
Decisions — detailed attributes (1 of 4)

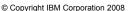


Level of Risk? 50.0% High

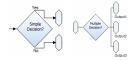
25.0% Medium

- Detailed attributes complete the definition of the decision
 - Simple and multiple attributes are similar
- Will use a multiple-choice decision example to explain attributes
 - Example: changing process flow based on level of risk
 - Probabilities can be displayed on the output branches
 - Names can be assigned to the output branches
- General
 - Inclusive check box
 - One or more outputs
 - The combination of outputs is determined by the expression



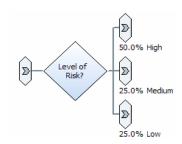


Decisions — detailed attributes (2 of 4)

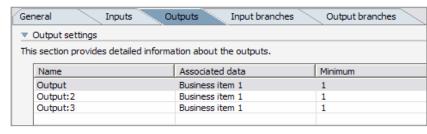


Inputs: one or more business items

General Inpu	ts Outputs Input bra	nches Output branches		
▼ Input settings				
This section provides detailed information about the inputs.				
Name	Associated data	Minimum		
Input:2	Business item 1	1		

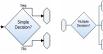


- Outputs
 - The outputs match the inputs; no work is performed by a decision
 - One set of outputs for each branch
- Input branches

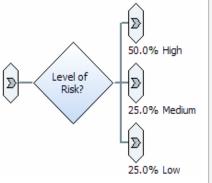


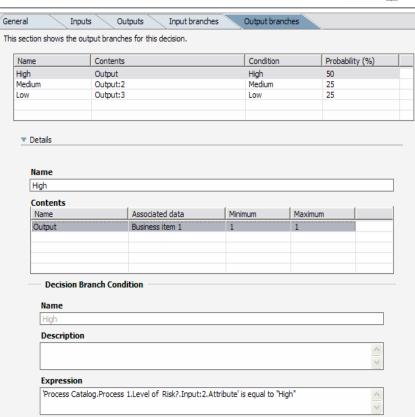
Ger	General Inputs Outputs Input branches Output branches			
▼ 1	▼ Input branches			
This	This section shows the input branches for this decision.			
	Name	Contents		
	Input Branch	Input:2		

Decisions — detailed attributes (3 of 4)

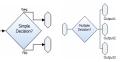


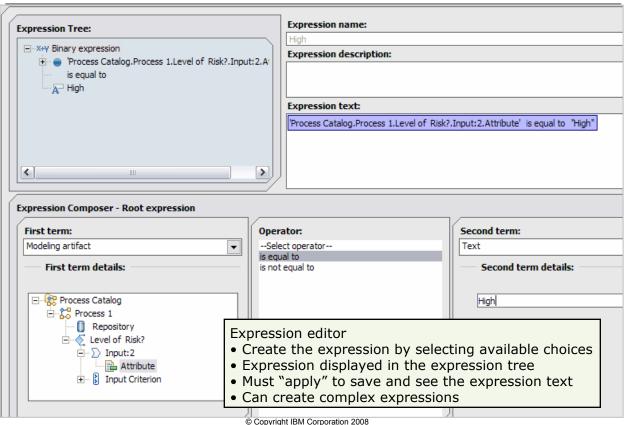
- Output branches
 - Name the branches
 - Specify the probabilities
 - Create the expression to control the flow for each output path
 - Edit opens an expression editor





Decisions — detailed attributes (4 of 4)

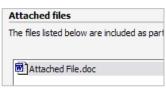


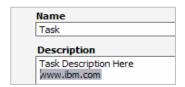


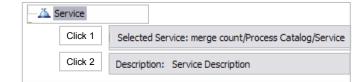
Additional process documentation

- Add annotations to diagrams
 - Add anywhere in a process, structure, or structure definition diagram
 - Attach annotations to any element
- Attach files to elements
 - Files can be attached to process elements that are displayed in the Project Tree.
 - The files become part of the element to which they are attached.
 - After attaching, a file can be opened by clicking the name.
- Add web address in description
 - Links can be added to a description field in an editor or in the Attributes view.
 - To open link, highlight the link, right-click, and select Browse
- Viewing descriptions of elements in the Project Tree
 - Click twice to see description in status bar at bottom
 - The first time to display the path in the tree
 - A second time to display the description
 - Double-click to open the element in the editor
 - View and edit the description







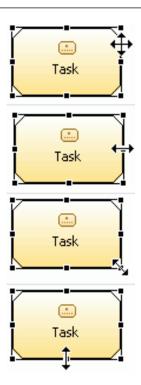


Organizing the diagram (1 of 3)

- Using gridlines to create the diagram
 - The gridlines can be toggled on and off as needed.
 - New elements will be laid on the diagram where you put them.
 - Dragging elements will snap to the grid.
- Auto-layout allows the system to arrange the diagram
 - Select Auto-layout Left to Right
 - Arranges the layout of the diagram so that the direction of flow goes from left to right, and cleans up any overlapping nodes or connections.
 - In swimlane layout, this also moves all elements to their correct swimlanes, creating new swimlanes if necessary.
 - Auto-layout will undo any user layout.
- Aligning multiple elements in a diagram
 - To align two or more elements so that your diagram is easier to read and looks more presentable
 - Select elements to align and select from the alignment options
 - Last element selected is the anchor point

Organizing the diagram (2 of 3)

- Moving or resizing elements using the keyboard
 - Arrow keys on the keyboard can be used to move or resize
 - Select the element you want to move.
 - Press the Period key (.) until the cursor changes to the desired pointer.
 - Use the arrows keys to move or resize the element.
 - Press the Enter key to accept the change.
 - Toggle grid on editor must be off



Organizing the diagram (3 of 3)

- Fix overlapping and crossing connections
 - Uncross connectors by moving the input or output nodes up or down
 - Move task inputs and outputs
 - Right-click, select Input and Output, select Modify Input or Output Order
 - Retains any criteria assigned to it and its connections to other process elements
 - Move decision or fork branches
 - Select, right-click, and select Modify Output Branches Order
 - Retains any values assigned to it and its connections to other process elements
 - Move merge or join input branches
 - Select, right-click, and select Modify Input Branches Order
 - Retains any values assigned to it and its connections to other process elements

Making the diagram more meaningful

Displaying labels

- Labels can be displayed on the diagram to show information associated with process elements.
- Labels are a convenient way to view important attributes.
 - Labels contain the attribute information.
 - Two labels can be specified (top and bottom) for any element.

Adding colors

- Colors can be added to resource definitions, roles, organization units, locations, and classifier values.
 - When you then associate these items with elements in the process diagram (such as tasks), you can color-code the diagram to see at a glance which elements are associated with specific values.

Color-coding by classifiers

 After creating classifiers and assigning classifier values to process elements, you can color-code the diagram based on the classifiers.

Checkpoint: Completing the process model

Your instructor will review these questions with you as a group. If time permits, the instructor may provide you time to answer the questions on your own before the group discussion.

- 1. What is the advantage of displaying a process diagram in swimlane layout?
- 2. What is the relationship between a local process and a subprocess?
- 3. In which loop does it repeat while some condition is satisfied and it tests its condition at the end of the loop?
- 4. Where in in Modeler do you specify a multiple-choice decision that has one or more outcomes?
- 5. What types of attachment can be added to the process model?

Checkpoint solutions: Completing the process model

- 1. Arranges the process flow in a way to focus on the interaction between:
 - Roles
 - Organization units
 - Locations
 - Classifiers
 - Individual resource definitions
 - Bulk resource definitions
- 2. A subprocess is a local process within another process.
- 3. Do-while loop
- 4. Under the general tab of Decision attributes view, check the "Inclusive" box.
- 5. In additional to web address, files such as html, documents, spreadsheet, or PDF can be attached.

Unit summary

Having completed this unit, you should be able to:

- Use swimlane layout
- Explain the subprocesses
- Explain loops
- Define decision attributes
- Add documentation
- Clean up a diagram

Exercise overview

In this exercise, you will:

- Define decision expressions
- Switch to swimlane layout
- Add web addresses to description
- Attach a file to the process
- Use search and used by functions