Working with Actions

To create any action quickly

1. In the Activity diagram toolbar, right-click or expand the Action button. The menu opens.



2. Select the Any Action command. The Select Action Metaclass dialog opens.

Select Action Metaclass	_						
Qvc							
40 matches found							
Call Behavior Action	*						
Call Operation Action							
Clear Association Action	Ξ						
Clear Structural Feature Action							
Clear Variable Action	-						
🗰 Conditional Node							
Create Link Action							
Create Link Object Action							
Create Object Action							
Accept Call Action							
Accept Event Action							
Reclassify Object Action							
Reduce Action	Ŧ						
🖶 Join Horizontal 🔻							

- 3. Select an Action metaclass from the list, or type the first letter of the metaclass in the Quick filter box. Click OK. The Action is created.
- 4. Click the diagram pane. An action symbol is drawn.

Applying duration constraint on the Action

You can create and apply a duration constraint on an Action that states that the output must occur after delay from the input.

To create and apply a duration constraint

- 1. Select an Action and create the input and output Pins to specify the Events.
- 2. Create a duration constraint for the Action using one of the following way:
 - From the diagram palette:
 - a. In the diagram palette, under the Common category, expand the **Constraint** command, and select the Duration Constraint, Time Constraint, or Constraint button, and create it directly on the action shape.

- In the Specification window:
 - a. In the Call Behavior Action Specification window, click the Constraints group.
 - b. Click the Apply button. The Select Constraint dialog opens.
 - c. Select the constraint storage place, and click the **Create** button. In the opened menu, select the **Duration Constraint** command. The **Duration Constraint** Specificati on window opens.
- 3. Specify a duration interval. Type the minimum and maximum duration to hold the Activity in the **Min** and **Max** property specification cells, e.g., 0 sec and 30 sec.
- 4. Assign the Events for the input and output pins:
 - a. In the opened Duration Constraint Specification window, click the Specification

property specification cell, and click the Show Shortcut Menu button **b**. The following shortcut menu opens:

Ξ	Duration Constraint					
	Name					
•	Specification	030		ال للج		
	Min	0			Open Specification	
	Max	30			Select in Containment Tree	00
	Constrained Element	Select the reading ite	em to rei		Go To	+
	Owner	🔁 Remove Reading Iter	n			

- b. Select the **Open Specification** command. The **Duration Interval** Specification window opens.
- c. Click the Min property specification cell, and and click the Show Shortcut Menu button
 In the shortcut menu, select the Open Specification command. The Duration Specification window opens.
- d. In the Event field, click the "..." button. The Select Element dialog opens. Select the activity input pin.
- e. Repeat steps c and d for the Max property select the action output pin as an event.
- 5. Apply the created duration constraint on the action.

The following sample depicts a fragment of the Activity diagram with a duration constraint applied on the Action.



Related pages

- Model Elements
- Behavior
- Action
- Activity diagram