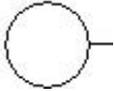


Modeling Business Events

During business process modeling, you model the events that happen in the business, and show how they affect process flows. An event either kicks off a process flow, or happens during a process flow, or ends a process flow. BPMN provides a distinct notation for each of these types of events, shown in the table below.

Table 1: Basic event types in BPMN and their notations.

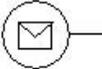
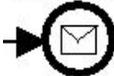
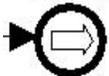
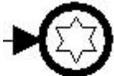
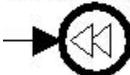
Start Event		Intermediate Event		End Event	
Start Event	Starts a process flow.	Event	Happens during the course of a process flow.	End Event	Ends a process flow.
					

More Complex Events -- Specifying Trigger Types

When you model more complex process flows, such as B2B web services, you need to model more complex business events, such as messages, timers, business rules, and error conditions. BPMN enables you to specify the trigger type of the event, and denote it with a representative icon, as specified in Table 2.

Specifying a trigger type to an event puts certain constraints on the process flow that you are modeling, which are explained in the table. For example, a timer cannot end a process flow. You can only draw message flows from and to message events. These types of modeling rules, which are actually kinds of business rules, should be enforced automatically by the modeling tool providing support for BPMN.

Table 2: Event Trigger Types.

Start Events	Intermediate Events	End Events	Description
<p>Start Message</p> 	<p>Message</p> 	<p>End Message</p> 	<p>A start message arrives from a participant and triggers the start of the process, or continues the process in the case of an intermediate event. An end message denotes a message generated at the end of a process.</p>
<p>Start Timer</p> 	<p>Timer</p> 	<p>A Timer cannot be an End Event.</p>	<p>A specific time or cycle (for example every Monday at 9am) can be set to trigger the start of the process, or continue the process in the case of an intermediate event.</p>
<p>Start Rule</p> 	<p>Rule</p> 	<p>A Rule cannot be an End Event.</p>	<p>Triggers when the conditions for a rule become true, such as "Stock price changes by more than 10% since opening."</p>
<p>Start Link</p> 	<p>Link</p> 	<p>End Link</p> 	<p>A link is a mechanism for connecting the end event of one process flow to the start event of another process flow.</p>
<p>Start Multiple</p> 	<p>Multiple</p> 	<p>End Multiple</p> 	<p>For a start multiple event, there are multiple ways of triggering the process, or continuing the process in the case of the intermediate event. Only one of them is required. The attributes of the event define which of the other types of triggers apply. For end multiple, there are multiple consequences of ending the process, all of which will occur (for example, multiple messages sent).</p>
<p>An Exception cannot be a Start event.</p>	<p>Exception</p> 	<p>End Exception</p> 	<p>An end exception event informs the process engine that a named error should be generated. This error will be caught by an intermediate exception event.</p>
<p>A Compensation event cannot be a Start event.</p>	<p>Compensation</p> 	<p>End Compensation</p> 	<p>An end compensation event informs the process engine that a compensation is necessary. This compensation identifier is used by an intermediate event when the process is rolling back.</p>
<p>An End event cannot be a Start event.</p>	<p>An End event cannot be an Intermediate event.</p>	<p>End Cancel</p> 	<p>An end event means that the user has decided to cancel the process. The process is ended with normal event handling.</p>
<p>An End Kill event cannot be a Start event.</p>	<p>An End Kill event cannot be an Intermediate event.</p>	<p>End Kill</p> 	<p>An end kill event means that there is a fatal error and that all activities in the process should be immediately ended. The process is ended without compensation or event handling.</p>