# **BPMN - Business Process Modeling Notation**

# Gateways

### **Data-based Exclusive Gateway**

When splitting, it routes the sequence flow to exactly one of the outgoing branches based on conditions. When merging, it awaits one incoming branch to complete before triggering the outgoing flow.

#### **Event-based Exclusive Gateway**

Is always followed by catching events or receive tasks. Sequence flow is routed to the subsequent event/task which happens first.

#### Parallel Gateway

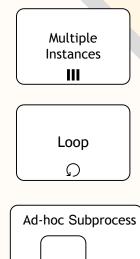
When used to split the sequence flow, all outgoing branches are activated simultaneously. When merging parallel branches it waits for all incoming branches to complete before triggering the outgoing flow.

#### Inclusive Gateway

When splitting, one or more branches are activated based on branching conditions. When merging, it awaits all active incoming branches to complete.

#### Complex Gateway

It triggers one or more branches based on complex conditions or verbal descriptions. Use it sparingly as the semantics might not be clear.





flow is used.

false.

## **Events** Intermediate Start End Catching Throwing L)) $(\aleph)$

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Untyped events, typically showing where the process starts or ends. Receiving and sending messages. Cyclic timer events, points in time, time spans or timeouts. Catching or throwing named errors. Reacting to cancelled transactions or triggering cancellation. Compensation handling or triggering compensation. Reacting to changed business conditions or integrating business rules. Signalling across different

processes. One signal thrown can be caught multiple times.

Catching or throwing one out of a set of events.

Off-page connectors. Two corresponding link events equal a sequence flow.

Triggering the immediate termination of a process.

#### Throwing



Plain

Error

Cancel

Compen-

Conditional

sation

Link

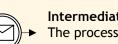
Terminate

Start Event: Catching an event starts a new process instance.

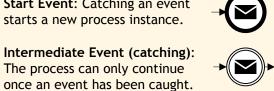
activity

Catching

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Intermediate Event (catching): The process can only continue



when the end of the process is reached. Intermediate Event (throwing):

End Event: An event is thrown

• An event is thrown and the process continues.

Attached Intermediate Event: The activity is aborted once an event is caught.

