

## Activities

- Task**: A Task is a unit of work, the job to be performed. When marked with a symbol it indicates a Sub-Process, an activity that can be refined.
- Transaction**: A Transaction is a set of activities that logically belong together; it might follow a specified transaction protocol.
- Event Sub-Process**: An Event Sub-Process is placed into a Process or Sub-Process. It is activated when its start event gets triggered and can interrupt the higher level process context or run in parallel (non-interrupting) depending on the start event.
- Call Activity**: A Call Activity is a wrapper for a globally defined Task or Process reused in the current Process. A call to a Process is marked with a symbol.

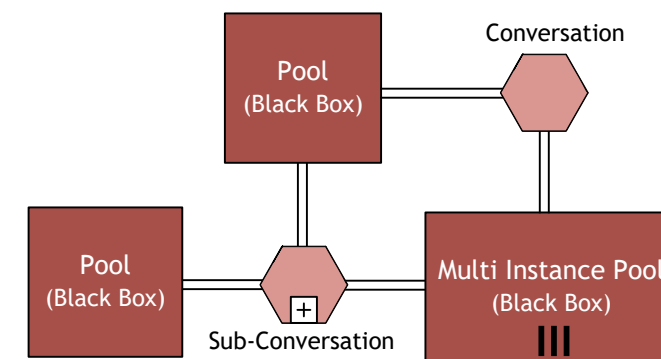
- Activity Markers**  
Markers indicate execution behavior of activities:
- Sub-Process Marker
  - Loop Marker
  - Parallel MI Marker
  - Sequential MI Marker
  - Ad Hoc Marker
  - Compensation Marker
- Task Types**  
Types specify the nature of the action to be performed:
- Send Task
  - Receive Task
  - User Task
  - Manual Task
  - Business Rule Task
  - Service Task
  - Script Task

- Sequence Flow**  
defines the execution order of activities.
- Default Flow**  
is the default branch to be chosen if all other conditions evaluate to false.
- Conditional Flow**  
has a condition assigned that defines whether or not the flow is used.

## Conversations

- A Conversation defines a set of logically related message exchanges. When marked with a symbol it indicates a Sub-Conversation, a compound conversation element.
- A Call Conversation is a wrapper for a globally defined Conversation or Sub-Conversation. A call to a Sub-conversation is marked with a symbol.
- A Conversation Link connects Conversations and Participants.

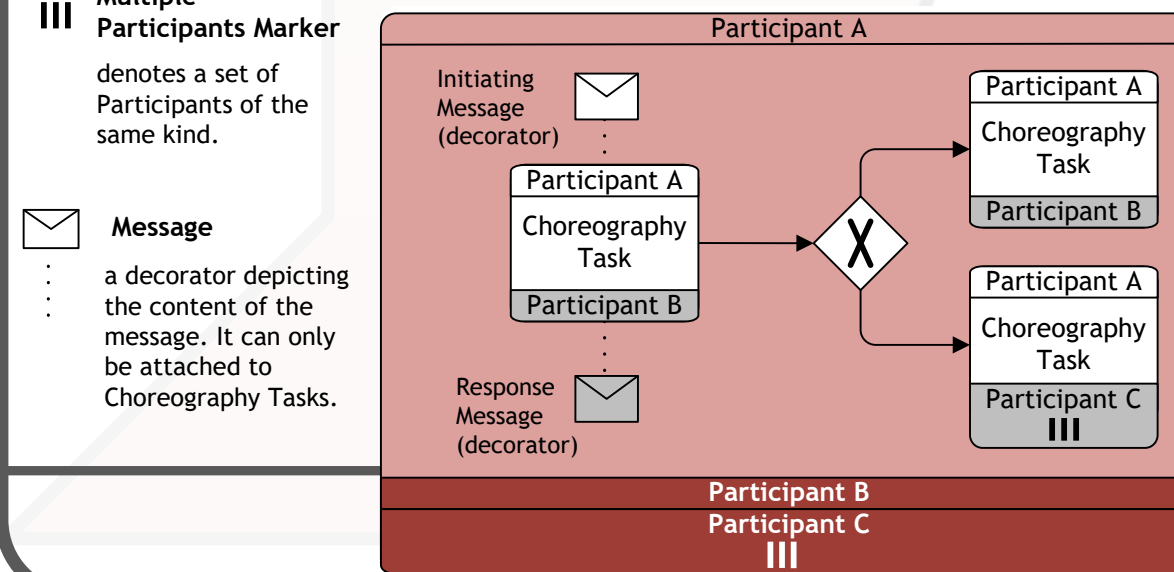
### Conversation Diagram



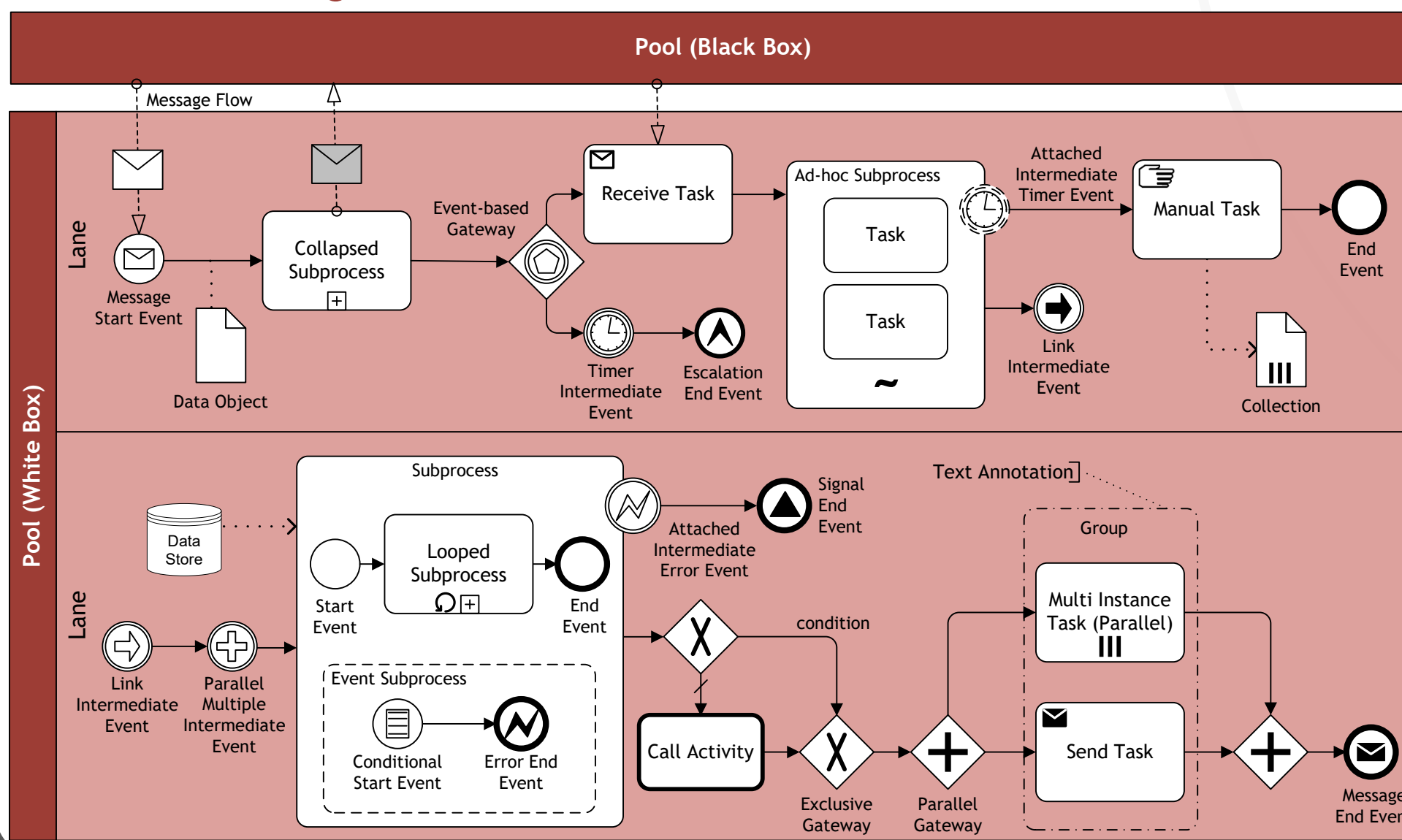
## Choreographies

- Participant A**  
Choreography Task  
Participant B
  - Participant A**  
Sub-Choreography  
Participant B  
Participant C
  - Participant A**  
Call Choreography  
Participant B
- A **Choreography Task** represents an Interaction (Message Exchange) between two Participants.
- A **Sub-Choreography** contains a refined choreography with several Interactions.
- A **Call Choreography** is a wrapper for a globally defined Choreography Task or Sub-Choreography. A call to a Sub-Choreography is marked with a symbol.

### Choreography Diagram



## Collaboration Diagram



## Events

	Start	Intermediate	End
<b>Standard</b>			
<b>Event Sub-Process Interrupting</b>			
<b>Event Sub-Process Non-interrupting</b>			
<b>Catching</b>			
<b>Boundary Interrupting</b>			
<b>Boundary Non-Interrupting</b>			
<b>Throwing</b>			
<b>Standard</b>			
<b>None</b> : Untyped events, indicate start point, state changes or final states.			
<b>Message</b> : Receiving and sending messages.			
<b>Timer</b> : Cyclic timer events, points in time, time spans or timeouts.			
<b>Escalation</b> : Escalating to an higher level of responsibility.			
<b>Conditional</b> : Reacting to changed business conditions or integrating business rules.			
<b>Link</b> : Off-page connectors. Two corresponding link events equal a sequence flow.			
<b>Error</b> : Catching or throwing named errors.			
<b>Cancel</b> : Reacting to cancelled transactions or triggering cancellation.			
<b>Compensation</b> : Handling or triggering compensation.			
<b>Signal</b> : Signalling across different processes. A signal thrown can be caught multiple times.			
<b>Multiple</b> : Catching one out of a set of events. Throwing all events defined.			
<b>Parallel Multiple</b> : Catching all out of a set of parallel events.			
<b>Terminate</b> : Triggering the immediate termination of a process.			

## Data

- A **Data Object** represents information flowing through the process, such as business documents, e-mails, or letters.
- A **Collection Data Object** represents a collection of information, e.g., a list of order items.
- A **Data Input** is an external input for the entire process. A kind of input parameter.
- A **Data Output** is data result of the entire process. A kind of output parameter.
- A **Data Association** is used to associate data elements to Activities, Processes and Global Tasks.
- A **Data Store** is a place where the process can read or write data, e.g., a database or a filing cabinet. It persists beyond the lifetime of the process instance.

## Swimlanes

