(Message Exchange)

Multiple

Participants Marker

denotes a set of

same kind.

Message

Participants of the

a decorator depicting

the content of the

be attached to

message. It can only

Choreography Tasks.

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

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 (noninterrupting) 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

Ad Hoc Marker

Compensation Marker

Sequential MI 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.

is the default branch to be chosen if all other conditions evaluate to false.

Default Flow

has a condition assigned that defines whether or not the

flow is used.

Conditional Flow

Gateways

Exclusive Gateway

one of the outgoing branches. When merging, it awaits one incoming branch to complete before triggering the outgoing flow.

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

Parallel Gateway

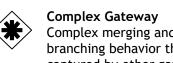


When used to split the sequence flow, all outgoing branches are activated simultaneously. When merging parallel branches it waits for all incoming branches to complete before triggering the outgoing flow.

When splitting, it routes the sequence flow to exactly



Inclusive Gateway When splitting, one or more branches are activated. All active incoming branches must complete before merging.



Complex merging and branching behavior that is not captured by other gateways.

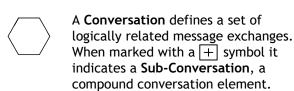
Exclusive Event-based Gateway (instantiate)

Each occurrence of a subsequent event starts a new process instance.

Parallel Event-based Gateway (instantiate)

The occurrence of all subsequent events starts a new process instance.

Conversations

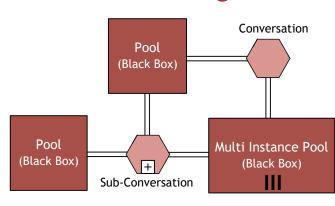




A Call Conversation is a wrapper for a globally defined Conversation or Sub-Conversation. A call to a Sub-conversation is marked with a + symbol.

A Conversation Link connects Conversations and Participants.

Conversation Diagram



Choreographies

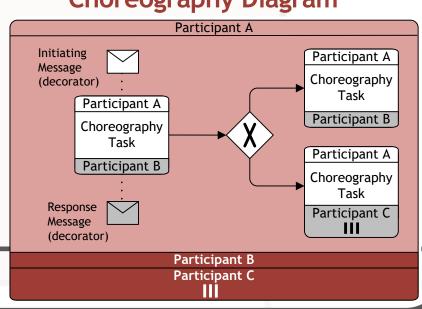
Participant A Participant A Choreography Sub-Choreography Task Participant B Participant B A Choreography Task Participant C represents an Interaction

A Sub-Choreography contains between two Participants. a refined choreography with several Interactions.

Participant A Call Choreography Participant B

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

Intermediate

Intermediate

Task

Task

Pools (Participants) and Lanes

represent responsibilities for

activities in a process. A pool

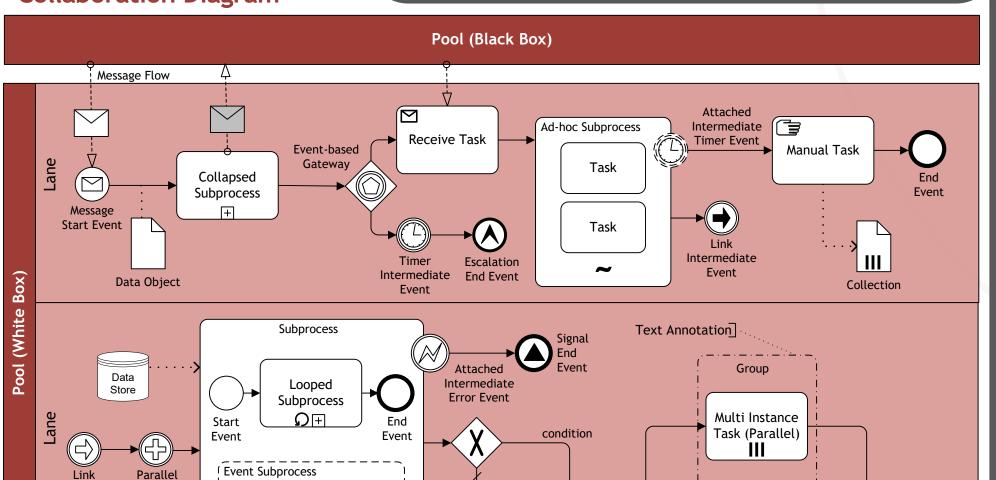
system. Lanes subdivide pools

or other lanes hierarchically.

organization, a role, or a

or a lane can be an

Event



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

Data

CAMUNDA

process.

immediate termination of a



A **Data Object** represents information flowing through the process, such as business documents, e-mails, or letters.

collection of information, e.g., a list of order



A **Data Input** is an external input for the entire process. A kind of input parameter.

A Collection Data Object represents a



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process. A kind of output parameter. A **Data Association** is used to associate data

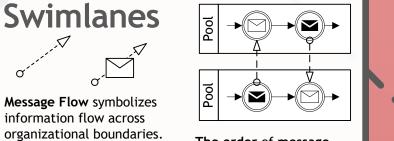
A **Data Output** is data result of the entire



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.



Call Activity

Exclusive

Gateway

Parallel

Gateway

 \bigcap

Error End

Event

to pools, activities, or

an envelope depicting the

content of the message.

Conditional

Start Event

The order of message Message flow can be attached exchanges can be specified by combining message events. The Message message flow and Flow can be decorated with sequence flow.



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Message

End Event