

# BPMN 2.0 in ARIS

## Main model types

**BPMN collaboration & process diagrams** represent control flows and message flows involved in collaborative processes.

**Enterprise BPMN collaboration & process diagrams** enrich the standard by typed lanes. Lanes can represent roles, organizational units, application systems and other objects that are already contained in the ARIS library.

## Events

- Start events** demonstrate where a certain process will start.
- Intermediate events** affect the process flow. They do not start or end the process.
- End events** demonstrate where a certain process will end.

Events are further specified as follows:

- Cancel event
- Compensation event
- Condition event
- Error event
- Escalation event
- Link event
- Message event
- Multiple event
- Parallel multiple event
- Signal event
- Timer event

## Flows

- Sequence flows** represent the order of activities that are performed within a process.
- Message flows** show the flow of messages between pools.
- Associations link** information with elements.

## Gateways

- Gateways** are used in processes to control the divergence and convergence of sequence flows.
- Exclusive gateways** are decisions that represent alternative paths in a process.
- Parallel gateways** combine and create parallel flows.
- Inclusive gateways** represent alternative but also parallel paths in a process flow. In contrast to exclusive gateways: all condition expressions are evaluated.
- Complex gateways** demonstrate complex synchronization behavior, conditions and situations.
- Event-based gateways** are used as branching points within the process. Alternative paths are based on occurring events.

## Swimlanes

**Pools** graphically show participants or processes in a collaboration diagram.

**Lanes** illustrate organizational and technical responsibilities, typically within pools.



## Enterprise BPMN lanes

- Pool
- Lane
- Organizational unit lane
- Organizational unit type lane
- Role lane
- Position lane
- Group lane
- Application system type lane

## Control flow elements

- Start event
- Task
- Call activity
- Subprocesses
- Gateways

## Further elements

- Message
- Text annotation
- Data object
- Data store
- Group

## Activities

- Activities** are included as steps in a process.
- Call activities** demonstrate points in the process where global processes or tasks are used.

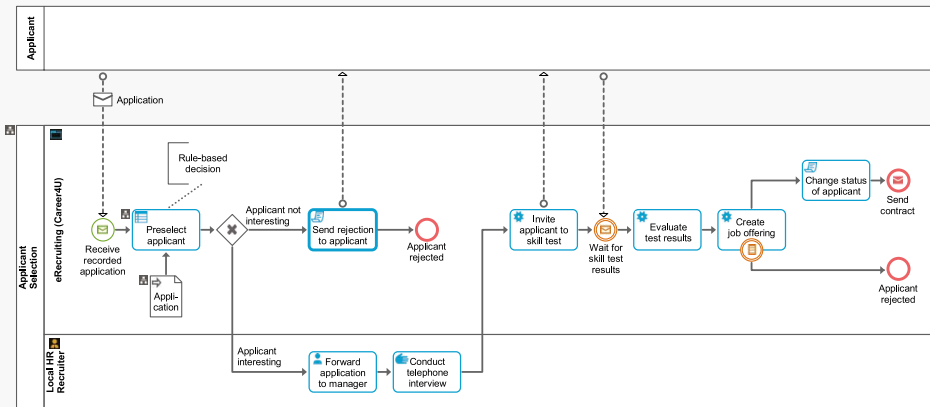
Tasks are further specified as follows:

- Business rule task
- Manual task
- Receive task
- Script task
- Send task
- Service task
- User task

## Data

- Data objects** provide information about what activities require to be performed or what they produce.
- Data stores** contain stored information that will last beyond the process.
- Messages** show communication contents between participants.

## Example-Applicant selection



## Subprocesses

- Subprocesses** represent activities which include activities, gateways, events and sequence flows.
- Ad hoc subprocesses** represent activities with no sequence relationships.
- Event subprocesses** operate event handling within a process and are typically related to exceptions.
- Transaction subprocesses** demonstrate coordinated activities such as a business transaction, a rollback or a compensation.

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