Introduction to BPMN - III

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Activities

- **Task**
  - atomic activity within a process flow
  - Cannot be further broken down

- **Subprocess**
  - An activity which is expanded further
  - The figure shows an expanded subprocess

Collect receipt
Activities

- Parallel boxes in Subprocess
Activities

- **Call Activity**
  - A global process or a global task is used
  - Execution is transferred to the global task/process
  - Shown with a thick boundary
Activities

- Transactions
  - A subprocess
  - Double line boundary is used
  - Should be completed fully or cancelled
Markers

- Looping
- Multi Instance parallel
- Multi-instance sequential
- Compensation:
Markers

- Send task
- Receive task
- Receive Task that instantiates a process
Markers

- User task
  - User performs it through software

- Manual task
  - Performed entirely manually
Markers

- Collapsed subprocess
- Business rule task
- Script task
Markers

- Ad-hoc subprocess: activities in it do not have sequence relationship

- Collapsed Ad hoc subprocess
Gateways

- **Exclusive**
  - only one of the diversions is taken

- **Inclusive**
  - All conditions are evaluated and all true evaluations are followed (it could be zero to all paths)
Gateways

- Parallel
  - Converge parallel flows
  - Diverge parallel flows
Gateways

- Complex
  - A complex synchronization
  - K out of m tokens are produced
Event based Gateways

- Event based
  - e.g. When a message arrives follow the gateway
  - The decision gets made by another participant from where a message arrives
  - Gateway does not get followed due to the process itself
  - Outgoing flow does not carry a conditional expression
  - The figure shows use of receive tasks and timer event
Event based Gateways

- Event based
  - e.g. When a message arrives follow the gateway
  - The decision gets made by another participant from where a message arrives
  - other events may be used
  - Gateway does not get followed due to the process itself
  - Outgoing flow does not carry a conditional expression
  - the figure shows use of intermediate message events, timer event

Message 1

Message 2

3 days