

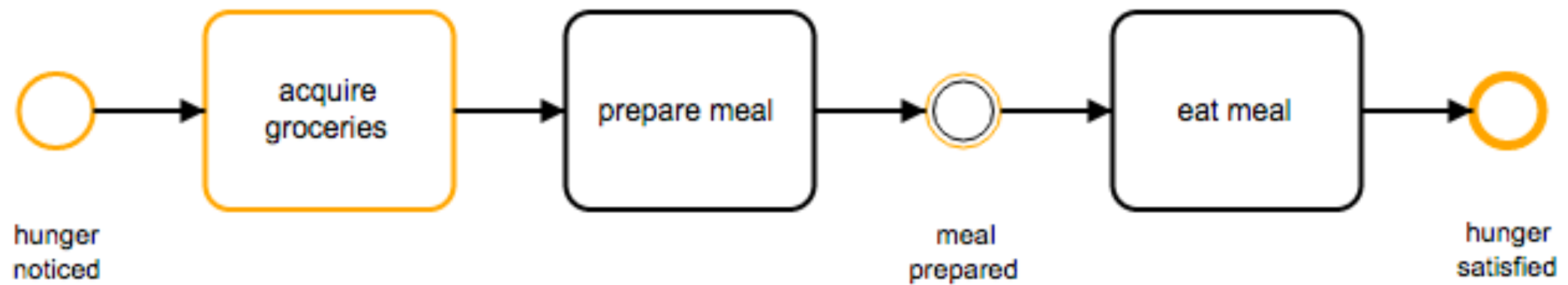
BPMN by Examples

조영일

Intro

- BPM
 - Business Process Management
- BPMN
 - BPM Notation
 - representation in graphical notation
- History
 - WS-BPEL vs BPMN

Simple Flow



History

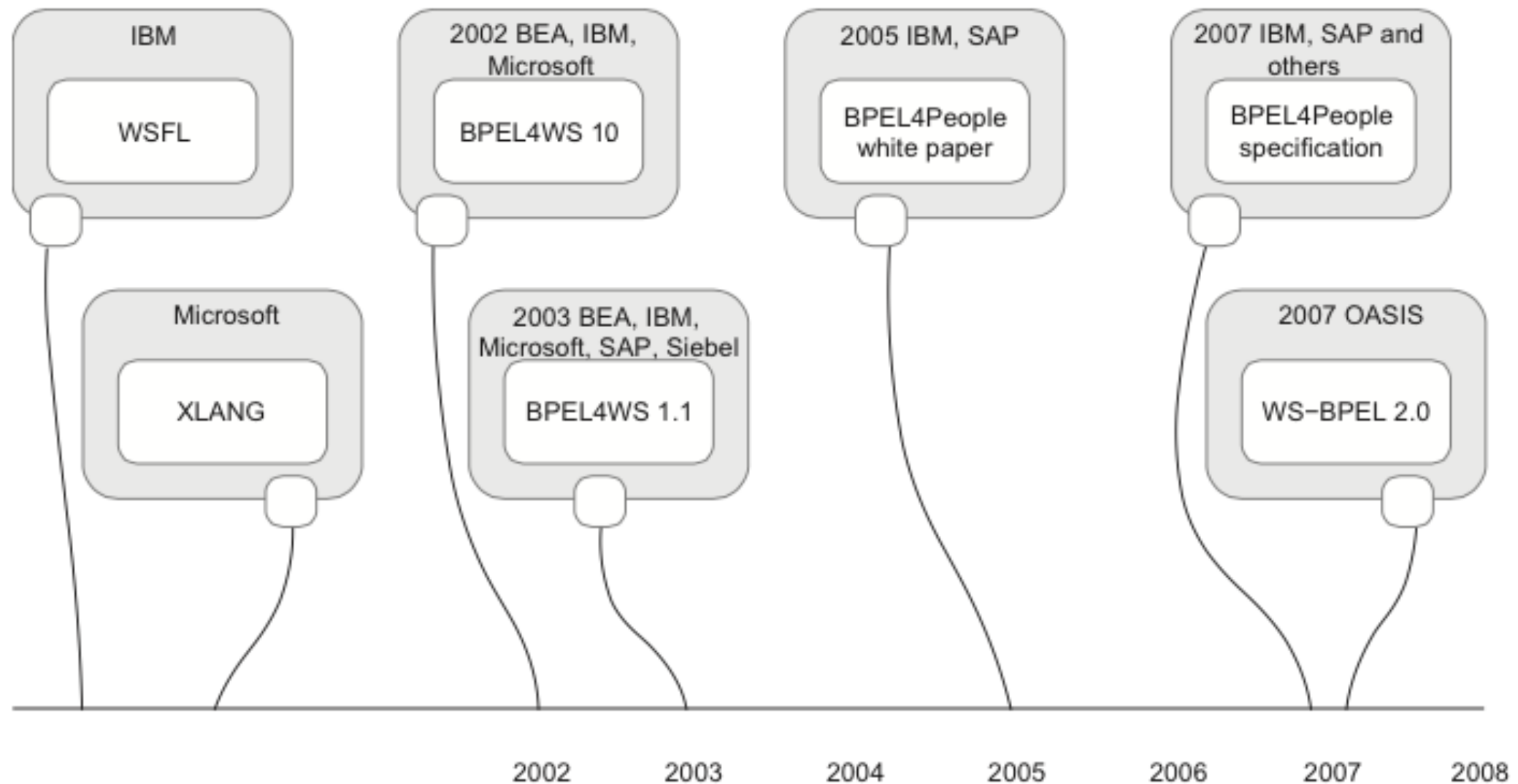


Figure 2.3 The timeline of the WS-BPEL 2.0 standard, the successor to the BPEL4WS, WSFL, and XLANG process languages

History

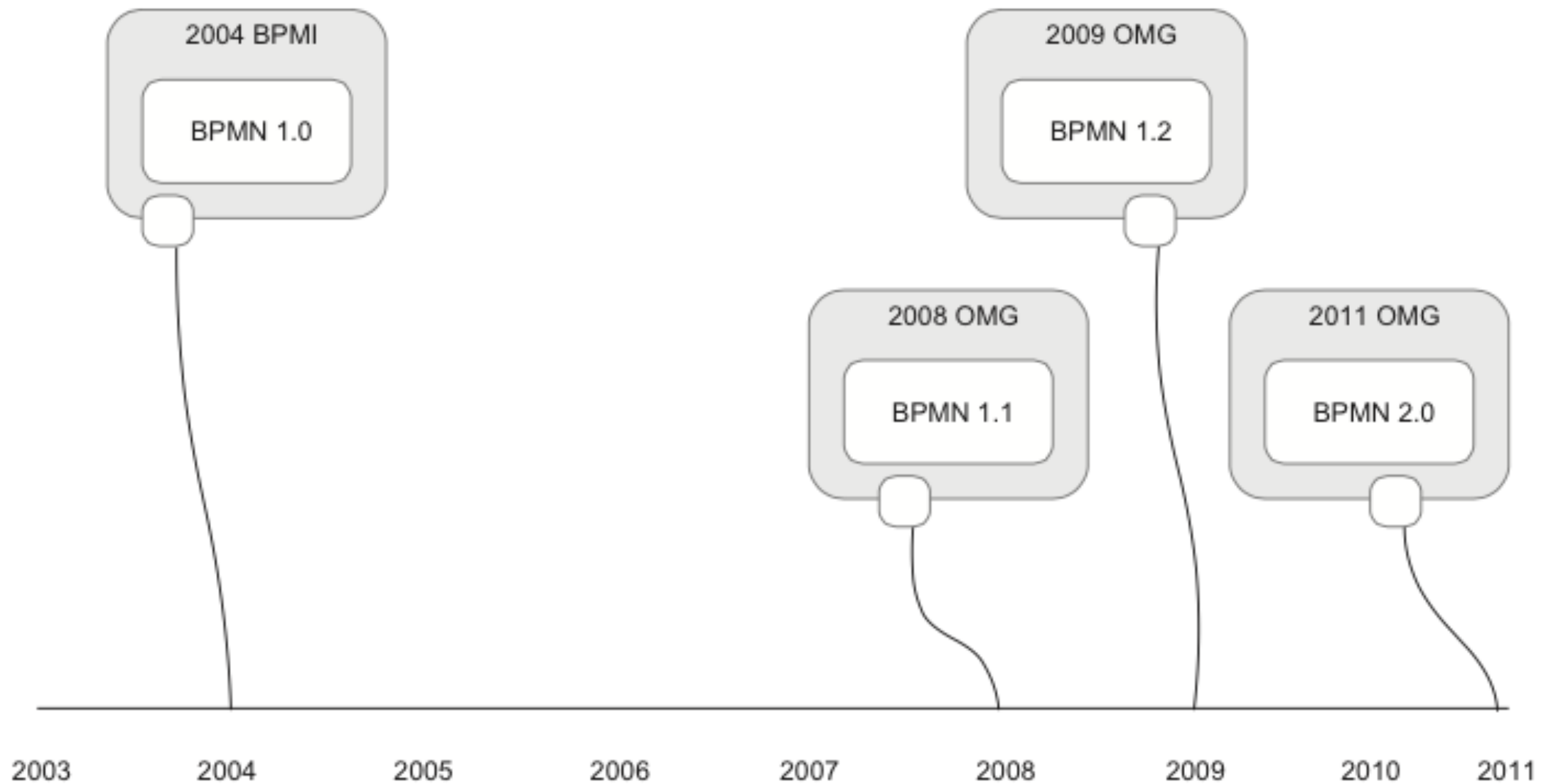
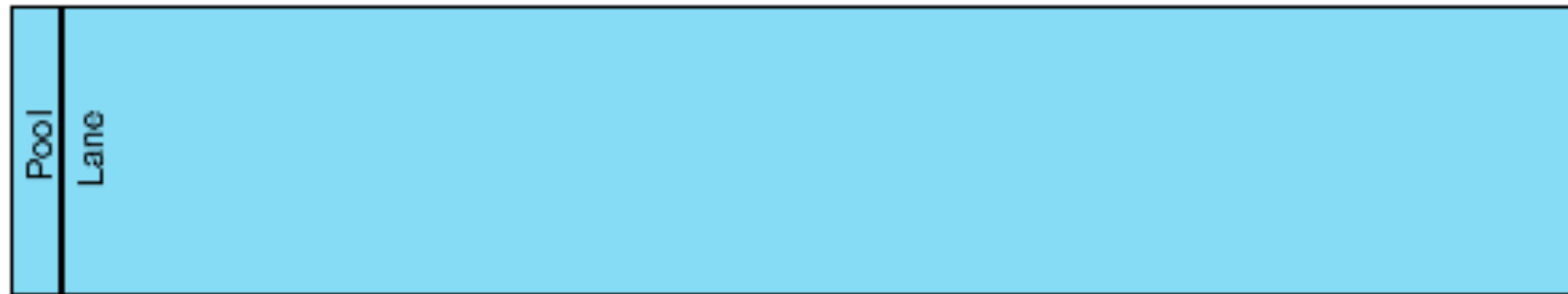


Figure 2.4 The timeline of the BPMN 2.0 standard, which was the successor to the BPMN 1.x modeling notations

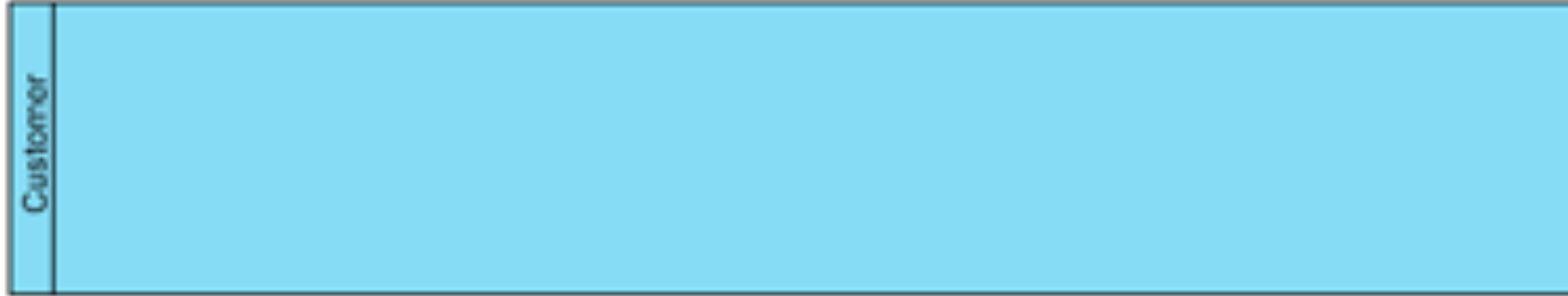
Basic Elements

Basic Elements

- Swimlanes
 - Pool
 - Lane

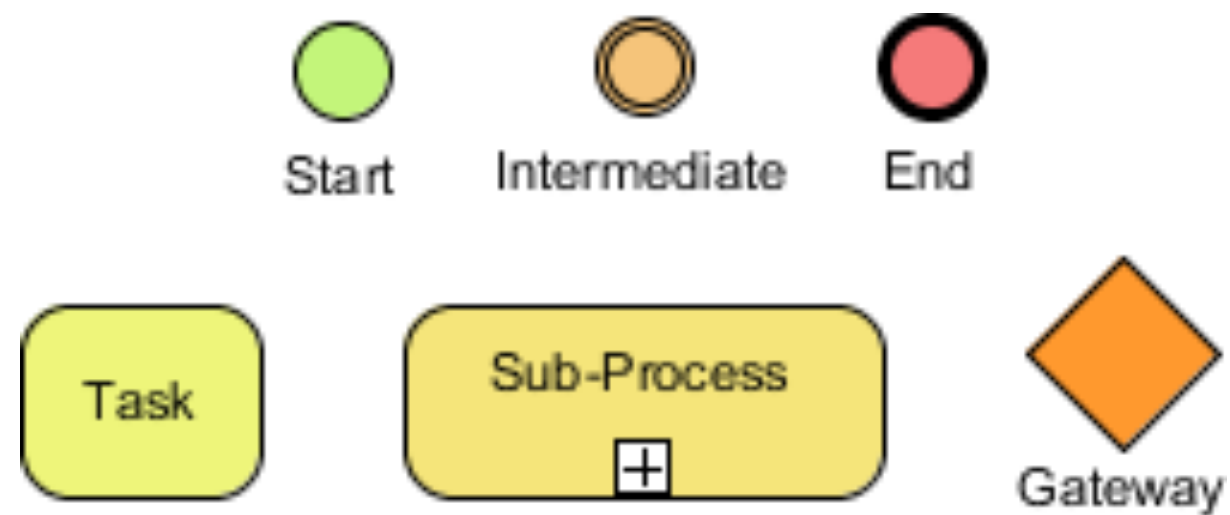


Pool vs Lane



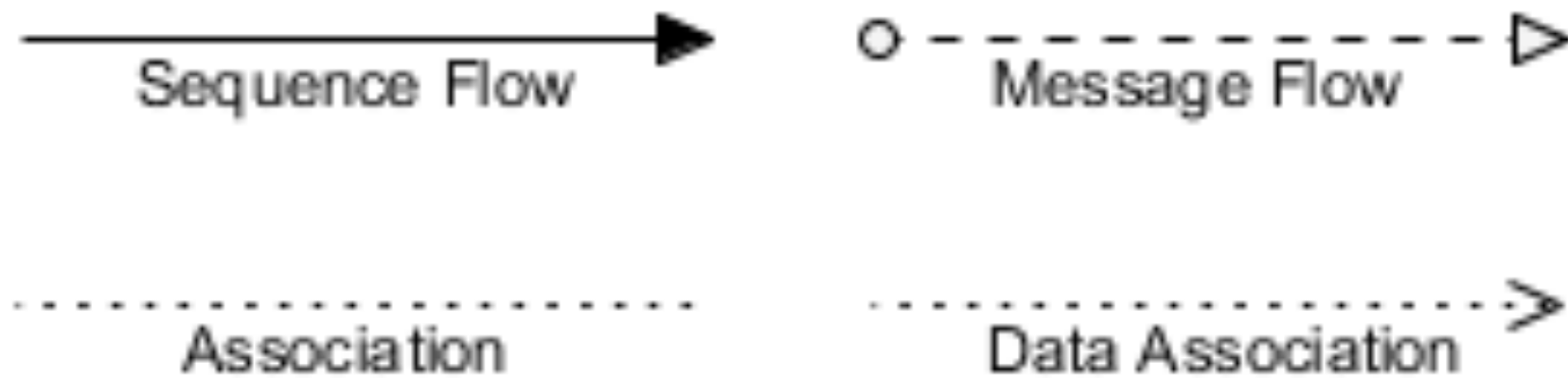
Basic Elements

- Flow Elements
 - events
 - task / sub-process / gateway



Basic Elements

- Connecting Objects



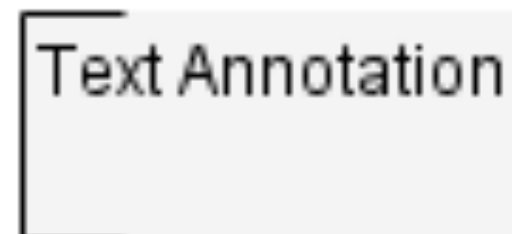
Basic Elements

- Data



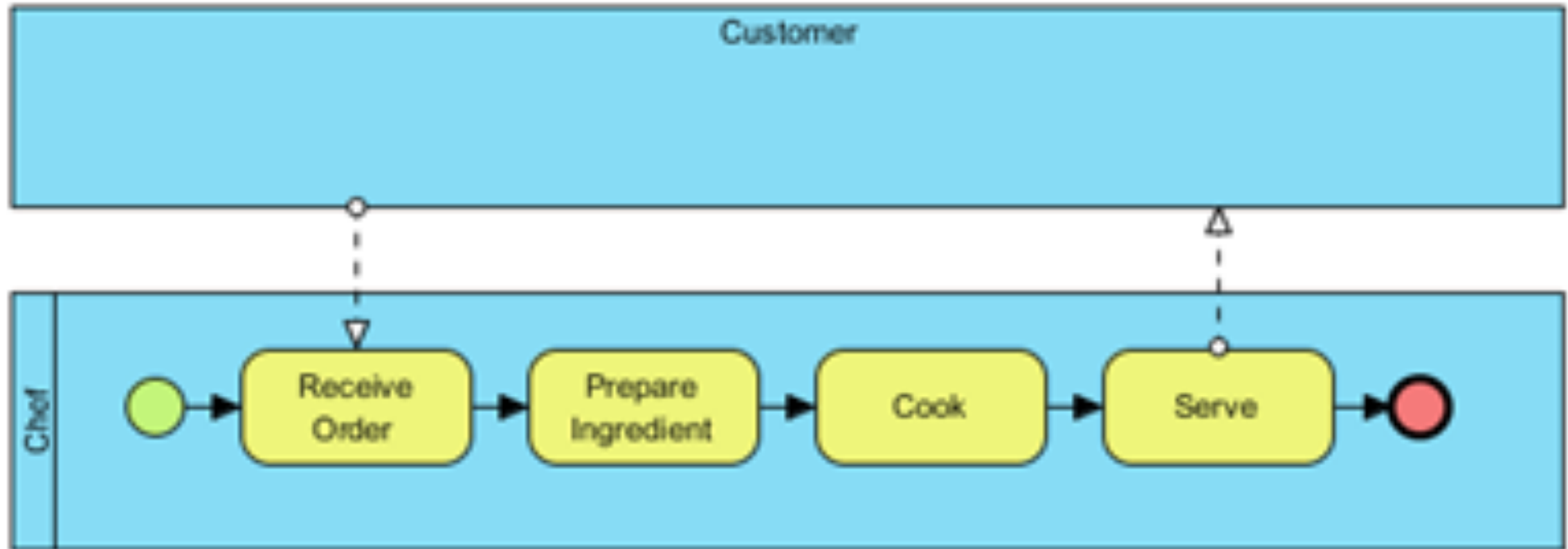
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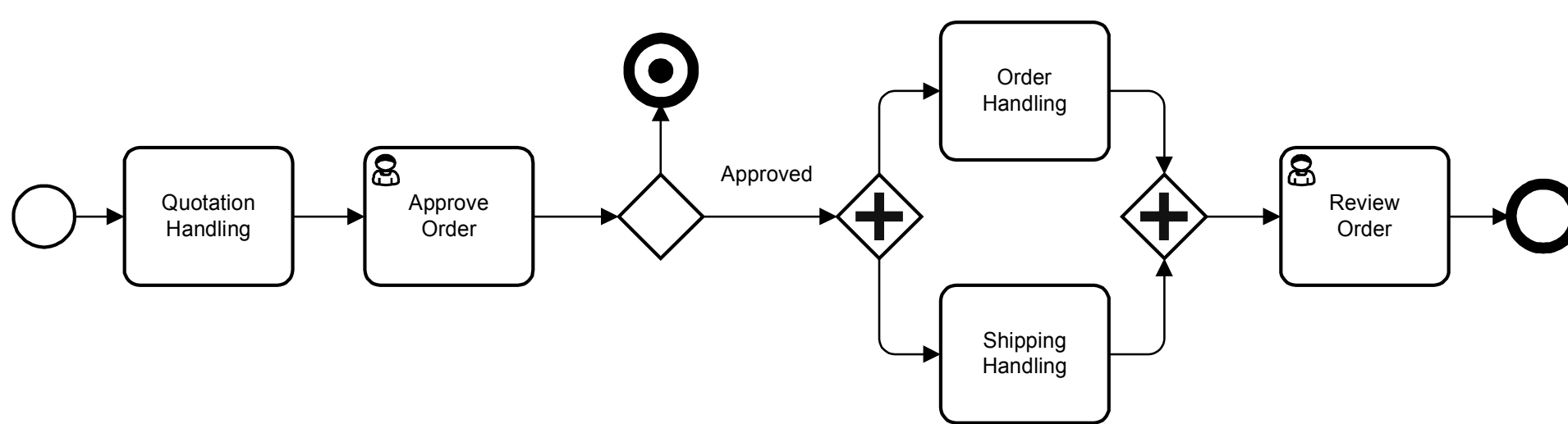
- Artifacts



Some Examples

Pool

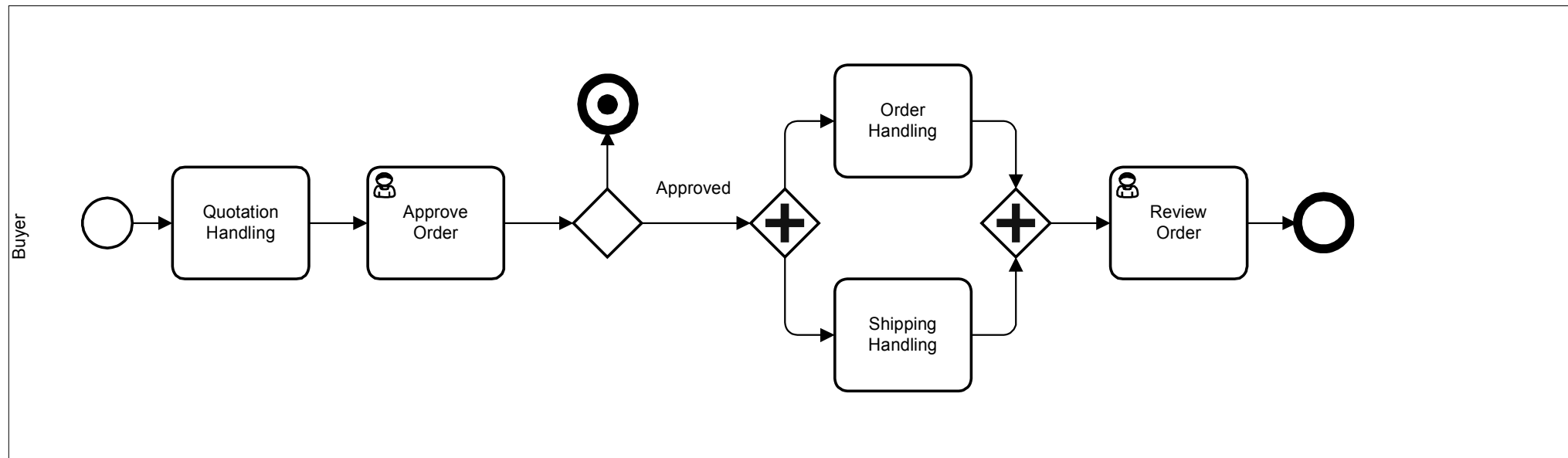




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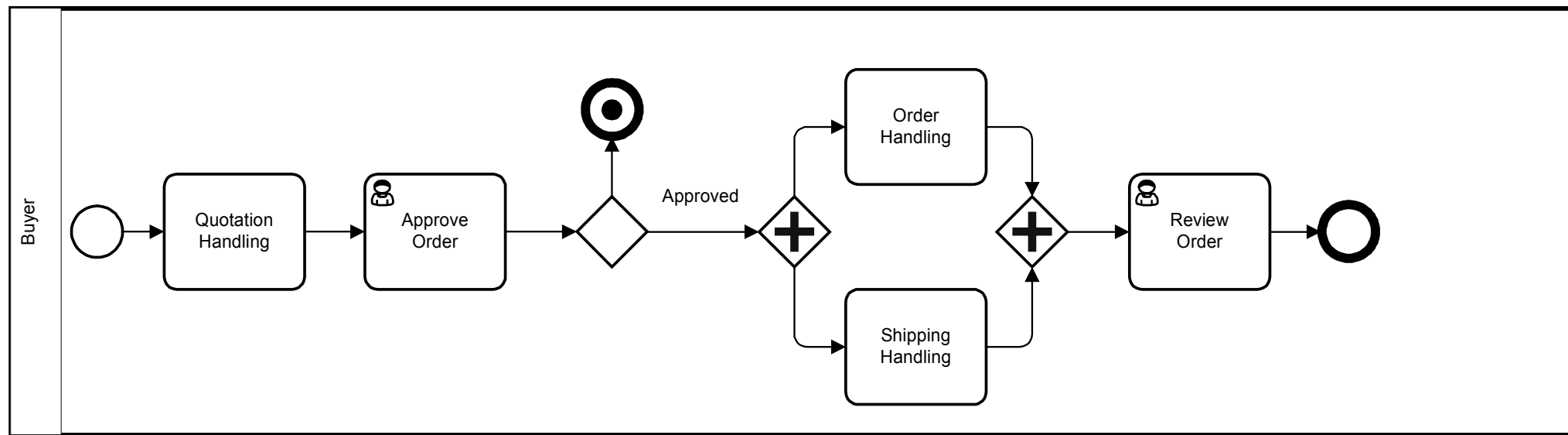
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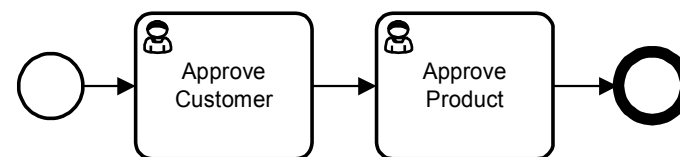
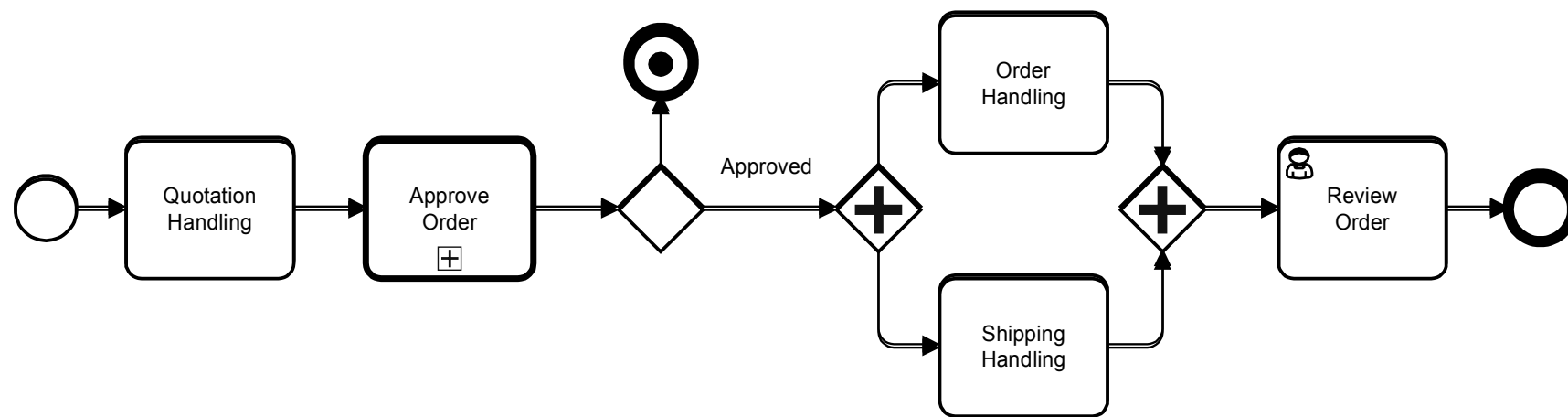
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- Collapsed Sub Process



Event

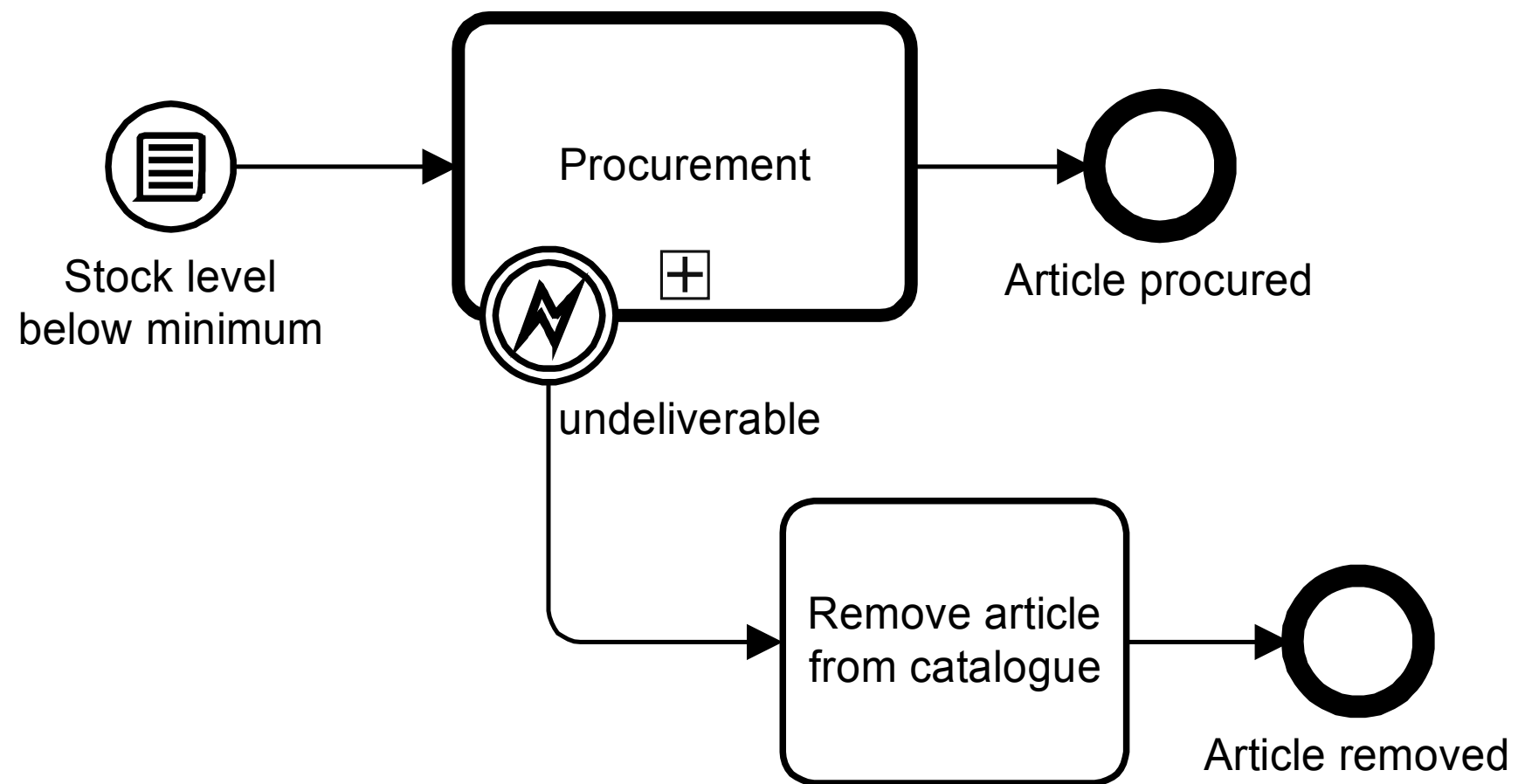


Figure 5.4: Stock maintenance process

Gateway

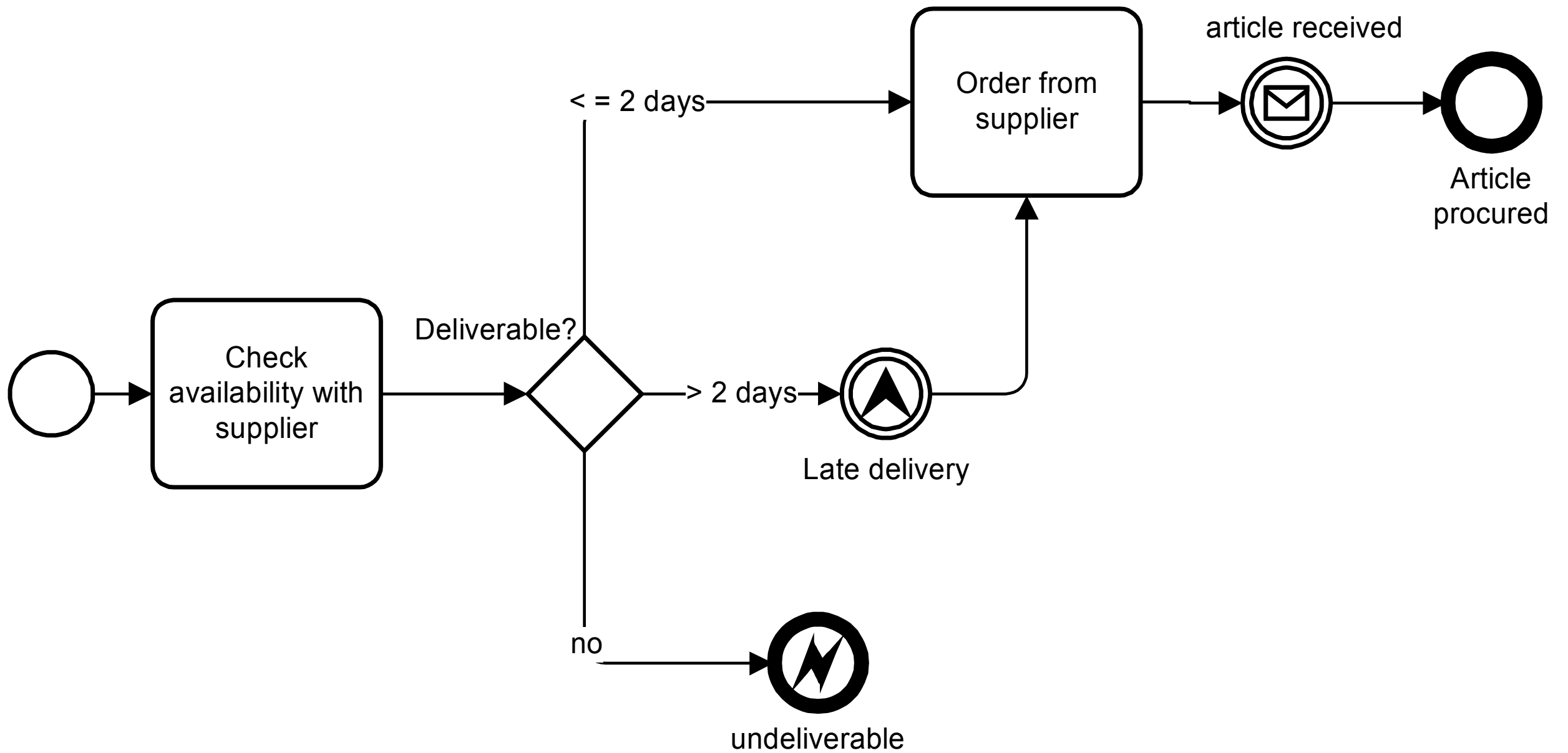


Figure 5.5: Procurement sub-process

Process Types

private vs public



Figure 7.1 - Example of a *private* Business Process

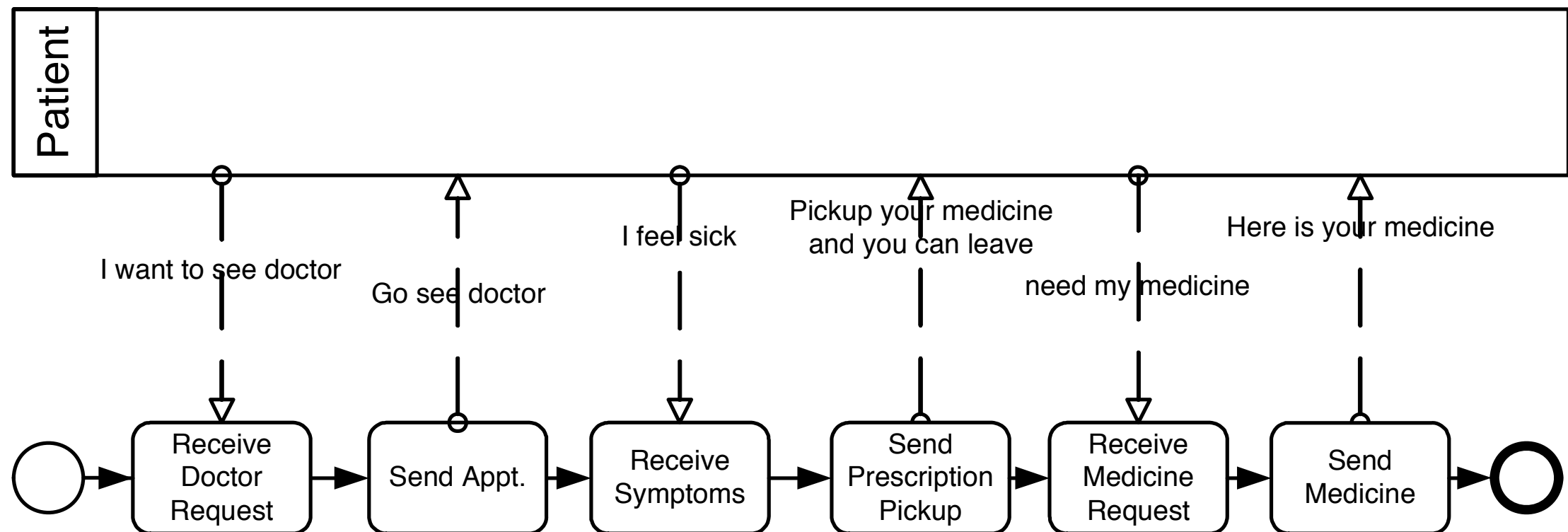


Figure 7.2 - Example of a *public* Process

collaborative

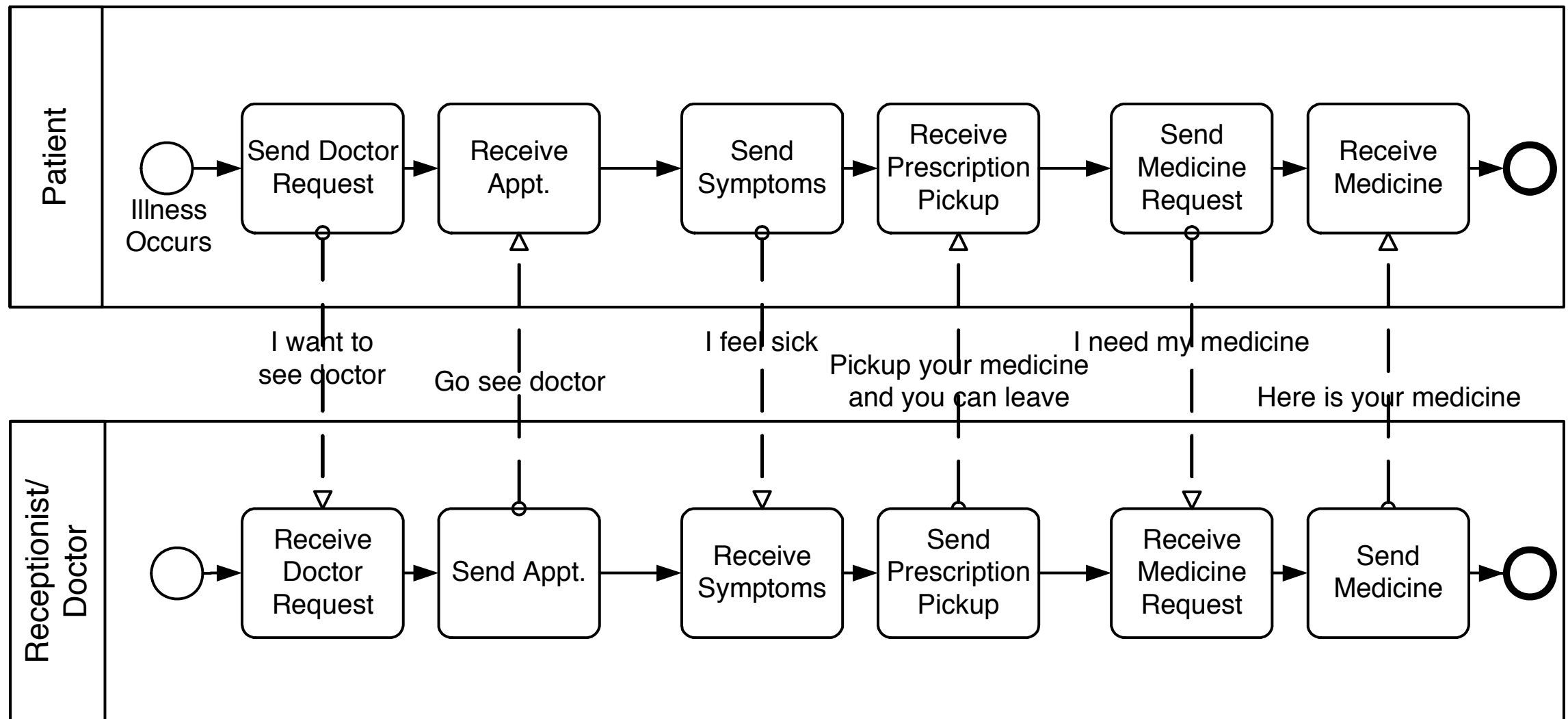


Figure 7.3 - An example of a Collaborative Process

choreography

- “choreography”: 안무, 연출
 - not “orchestration”

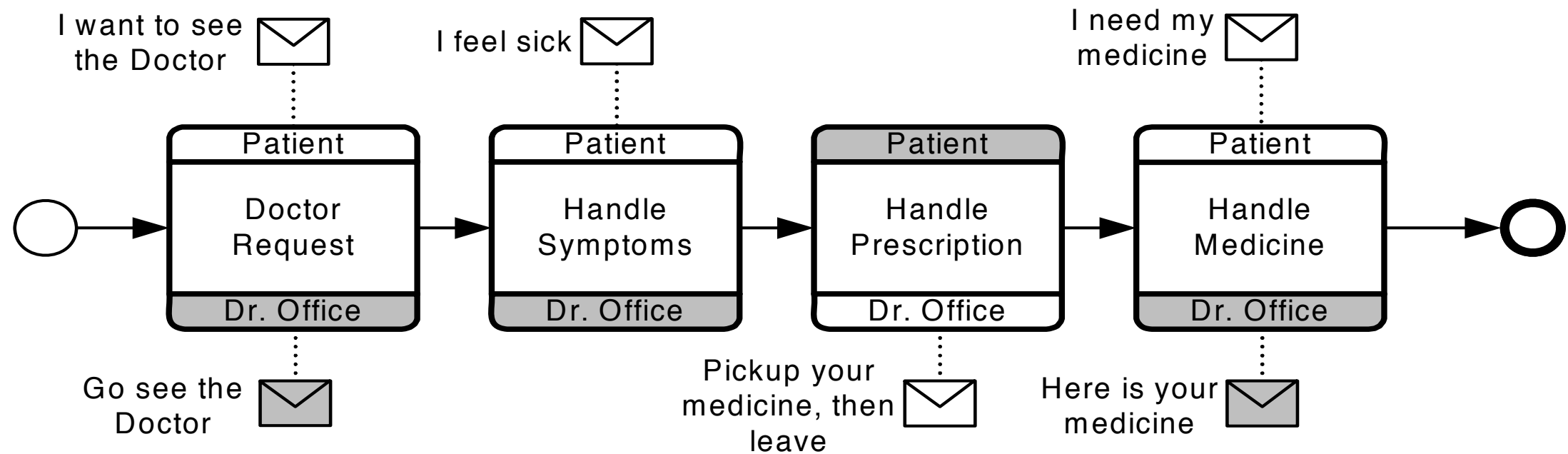


Figure 7.4 - An example of a Choreography

conversation

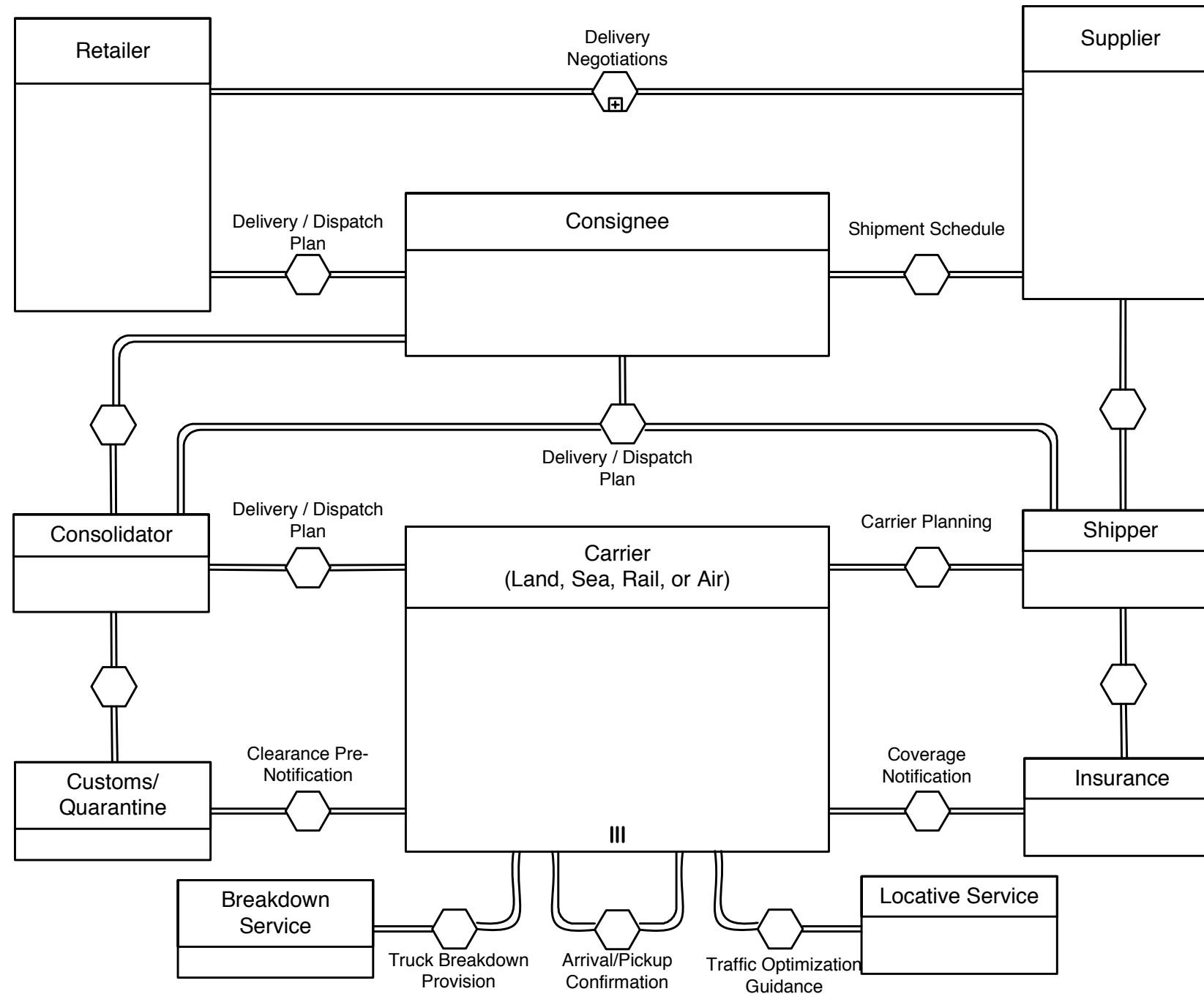
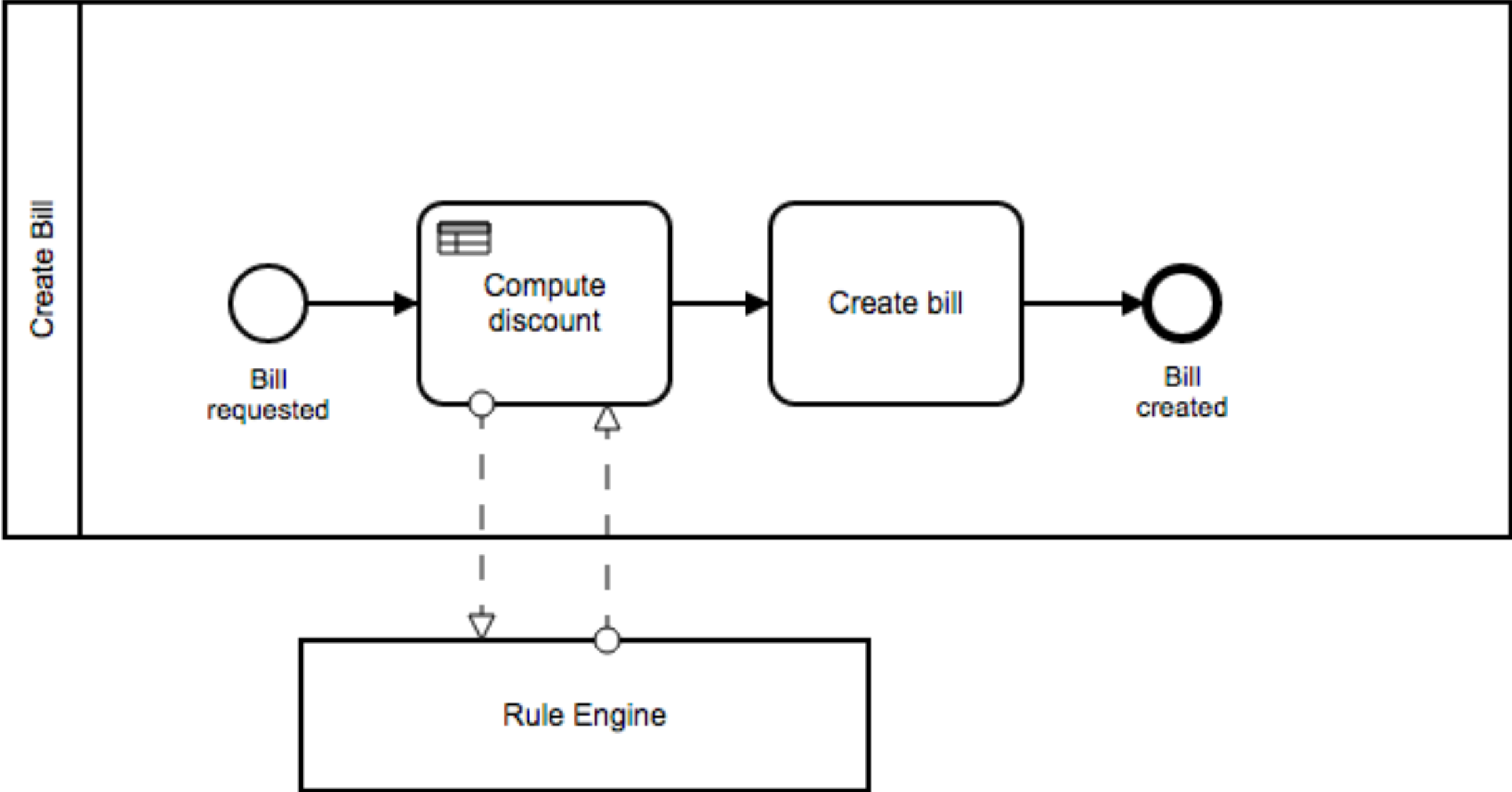


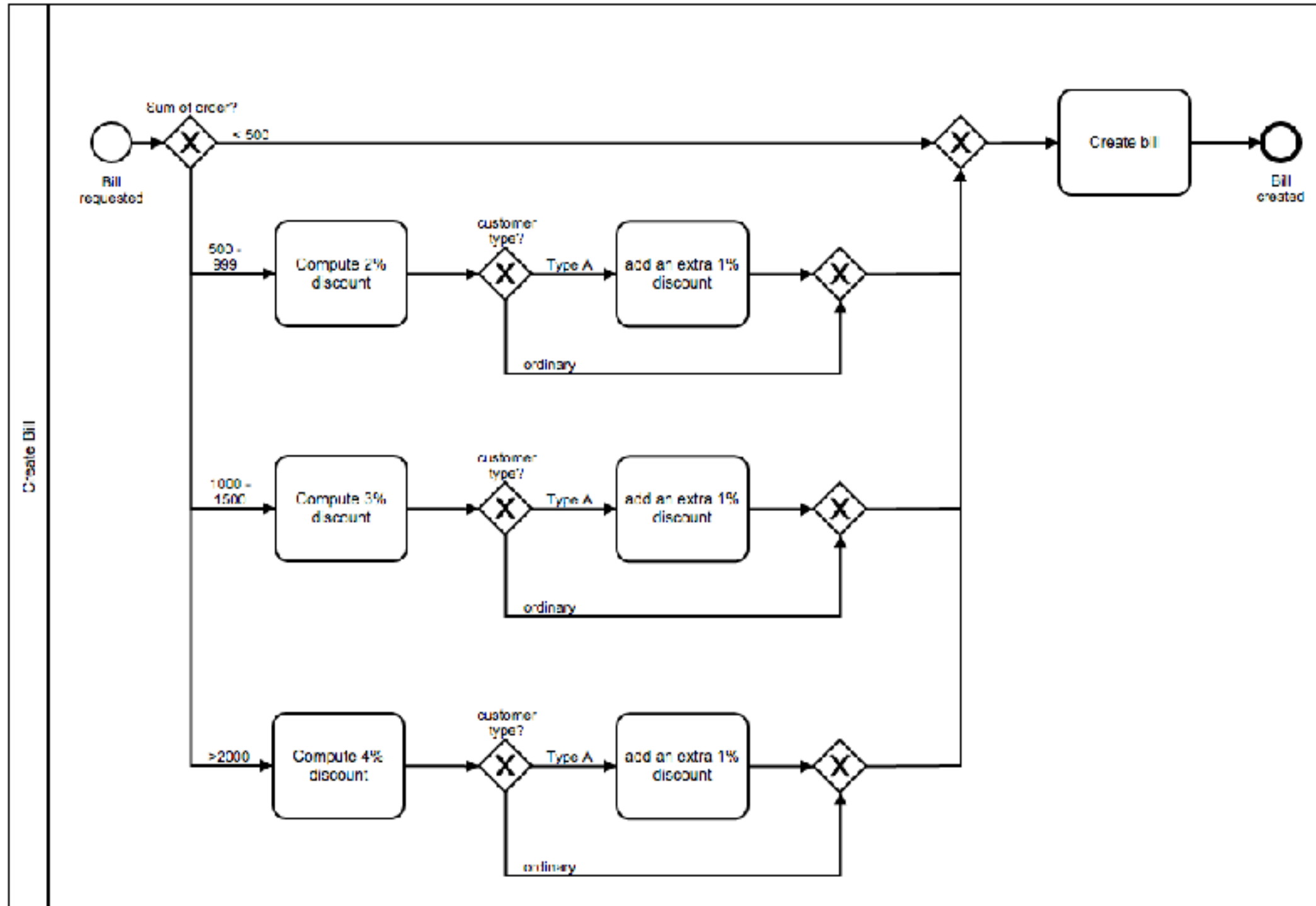
Figure 7.5 - An example of a Conversation diagram

Best Practices

Good Practice



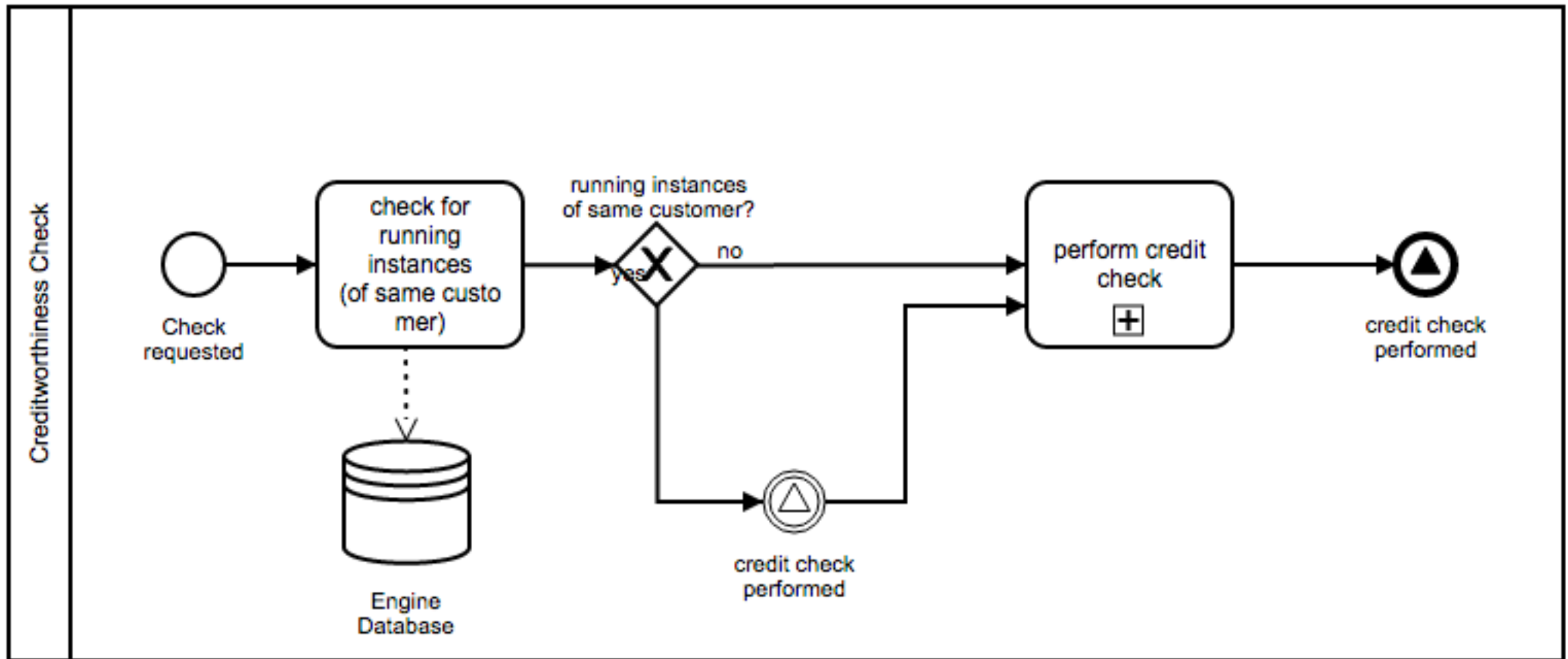
Bad Practice



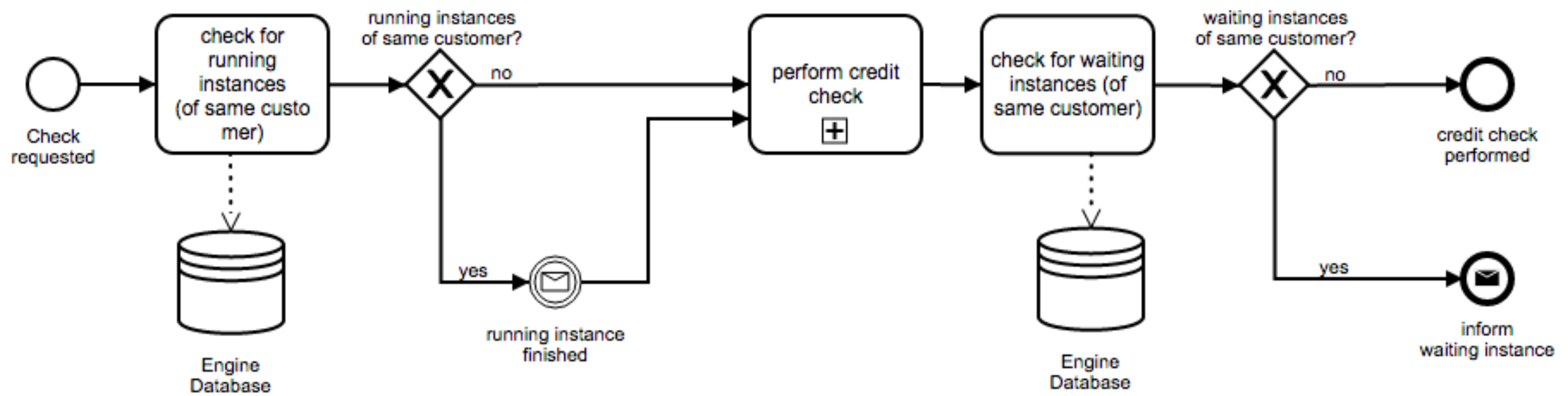
Dependent Instances

- with Signal Event
- with Message Event
- with Timer & Loop

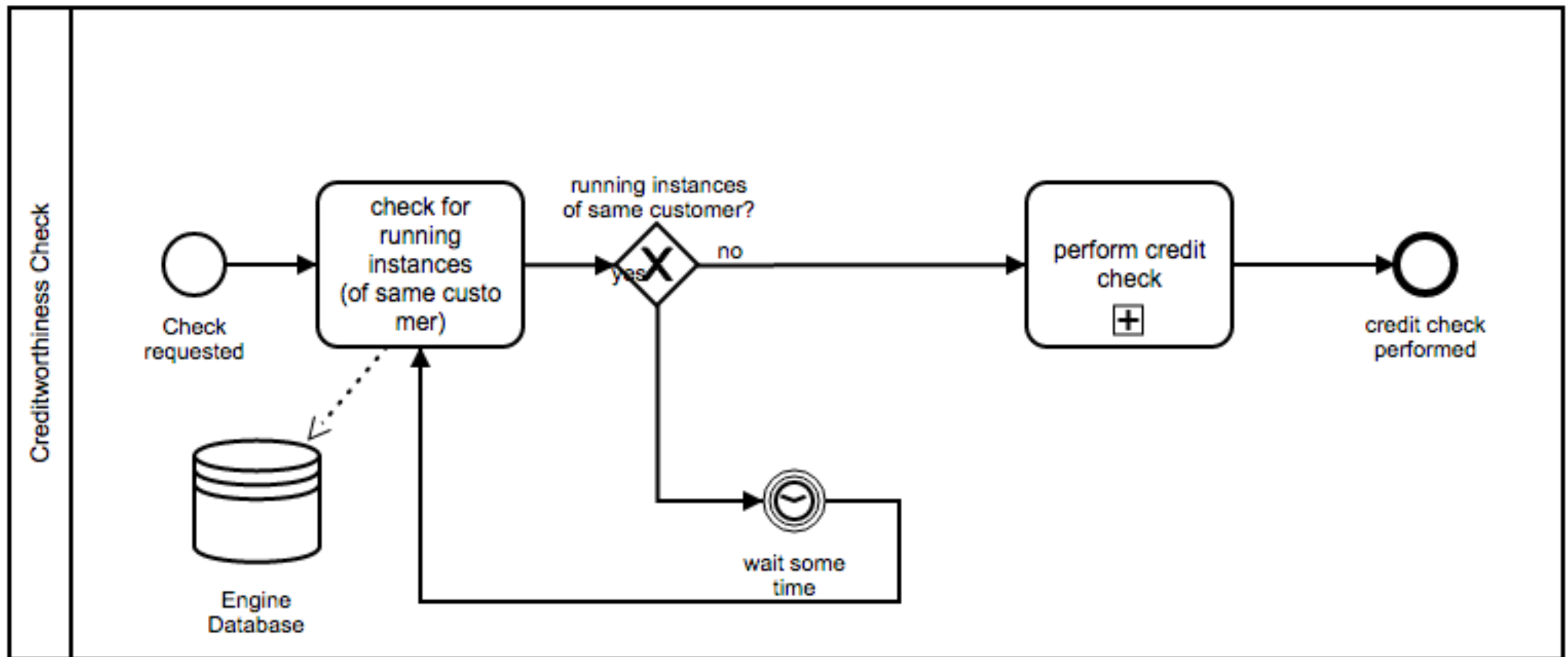
with Signal Event



with Message Event



with Timer & Loop



References

- <http://www.omg.org/spec/BPMN/2.0/>
- <http://www.omg.org/cgi-bin/doc?dtd/10-06-02>
- <http://camunda.org/bpmn/examples/>
- <http://www.bpmn-tool.com/en/tutorial/>
- <https://www.visual-paradigm.com/tutorials/bpmn1.jsp>

Thank you
for
listening!



Handwritten signature in red ink.