oBPM
Opportunistic business process modeling
Traditional workflow management systems are suited to automate well-structured processes based on a strict sequence of user tasks and a top-down approach to model creation. Such a conventional approach does not comply with the bottom-up philosophy of social software and therefore makes it difficult to incorporate its strengths. oBPM aims to overcome these limitations by introducing a new paradigm for modeling and executing business processes that is adequate for:

- Opportunistic task scheduling
- Bottom-up model creation
- Agile process modification
- Process mining
One model – Two perspectives

Tasks → Engine → Process mining → Top-down

Engine

Tasks

Engine

Bottom-up

oBPM Model
Top-down: Use case diagram with artefacts
Top-down: Dependencies between artefacts

Diagram:
- Case connected to Bill with 1 relationship.
- Bill connected to Objection with 0..1 relationship.
- Bill connected to Message with 0..2 relationship.
Top-down: State chart of an artefact

FSM – Document Bill

new

alive

[Role=AD] Judge bill
start examination

[Role=AD] Judge bill

[Role=AD] Judge bill

[Role=LA] Handle objection

[Role=LA] Handle objection

[Role=AD] File objection

rejected

[Role=AD] File bill

payed

approved

accepted

[Role=FI] Pay bill

AD: Administration
LA: Lawyer
SY: System
FI: Finance Dep.

canceled

archived

[Role=SY] 90 days

case of death [Role=SA]
Top-down: Sub-state of an artefact

start examination

bill OK → bill OK

person OK → person OK

bill or person not OK → person not OK

bill OK → bill OK

accepted

rejected
Bottom-up: Sub-state of an artefact

<table>
<thead>
<tr>
<th>My Tasks</th>
<th>Trigger</th>
<th>Document</th>
<th>Start States</th>
<th>End States</th>
</tr>
</thead>
<tbody>
<tr>
<td>File bill</td>
<td>I do</td>
<td>Bill</td>
<td>-</td>
<td>new</td>
</tr>
<tr>
<td>Judge bill</td>
<td>System</td>
<td>Bill</td>
<td>new, bill OK, person OK</td>
<td>bill OK, person OK</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bill OK</td>
<td>accepted, rejected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>person OK</td>
<td>accepted, rejected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Message</td>
<td>-</td>
<td>new</td>
</tr>
<tr>
<td>File objection</td>
<td>I do</td>
<td>Bill</td>
<td>rejected</td>
<td>objection</td>
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<tr>
<td></td>
<td></td>
<td>Message</td>
<td>-</td>
<td>new</td>
</tr>
<tr>
<td>Case of death</td>
<td>I do</td>
<td>Bill</td>
<td>any</td>
<td>canceled</td>
</tr>
</tbody>
</table>

Add and delete tasks
Link documents with tasks
Define state transitions
oBPM: Model execution

![Diagram of oBPM: Model execution](image-url)