Getting Processes Documented – (Integrating BPMN and) DMN

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About me – Juergen Pitschke

I’m a consultant, coach, teacher, speaker, writer, ...

Engineer & Disciplined Agilist
Notations for Enterprise Models

BPDM  BPMM  VDML  ArchiMate  ERD  SysML  UML

BPMN  CMMN  DMN  SBVR  TDM  OCL  PRR  ODM

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Architecture Principles

Why so many notyitions?

„SEPARATION OF CONCERNS“

Separate independent concepts
Separate stable from instable
Separate concepts with independent lifecycles
Separate for independent responsibilities
Processes Scope Diagram: IGOE

Inputs are processed into Outputs according to Guides using Enablers when Events occur.
## Guides

Welche Art Entscheidungen adressiert DMN? Wer trifft diese Entscheidungen?

<table>
<thead>
<tr>
<th>Management Decision</th>
<th>Management Decision (Middle Management)</th>
</tr>
</thead>
<tbody>
<tr>
<td>e.g. should we merge with this company</td>
<td>Policies</td>
</tr>
<tr>
<td></td>
<td>e.g. should we open a subsidiary in this city</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operative Decision DMN</th>
<th>Operative Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>e.g. Which price should we charge for this article?</td>
<td></td>
</tr>
</tbody>
</table>
What is a „Business Decision“?

Business Decision means

an Activity

the result of this Activity
Business Decisions – DMN

How to describe Business Decisions? Decision Model and Notation (DMN)
Business Decisions - DMN

Decision Requirements Level & Decision Logic Level
Most important elements: DMN Elements

Kernelemente: Without Decision Logic

Decision
- has a question and possible answers

Input
- Type and domains

Knowledge Source
Business Decisions – Representation in TDM

Decision (Activity)
Decision (Logic) + Decision Table
Sub-Decision + Decision Table
Typical Use Cases for Decision Management

Analytical
- Conformity / Legal
- Dasboards
- IoT-Application / Data

Predictive
- Risk Management
- Customer Next Best Action

Communication
- What should we communicate to customers? Or partners?

Data Quality
- Can we trust our current data?

Guidance for employees to achieve conformity
Process Documentation

As-Is Situation

- Process Models with minor problems
- 50 similar models for the different programs
- Communication?
Model Content

Make your model useful – Primary and Secondary Content

- Content
- Knowledge Sources
- Design Rationale/Design Decisions
- Culture Believes
- Assumptions
- Conditions
More Attributes

Speed/Time to Outcome: How fast do we have to decide?
Frequency: How often is the Decision done?
Effort to test? Duration to see the result?
What additional information do you require?
Responsibility: OMI-concept
Method & Consistency

DMN vs. TDM What is better for You?

DMN
- Notation Standard
- Exchange Format
- Method (not part of the standard) needed for Decision Requirements Level and for Decision Logic Level

TDM
- Notation
  - proprietary
  - compatible with DMN
- Method/Principles (for Decision Logic Level)
  - also applicable with DMN
- Method needed for Decision Requirements Level
Literature
The Last Slide

Notations are boring. Understanding the concepts and looking for fields of application is important and more interesting.

You need a method – from small things (style guide) to big things (TDM principles).

Be agile! The first model is speculation.
Thank you!

Contact me

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Literature and Links


White Paper and Online Resources on www.enterpriesign.eu, processrenewal.de, model-based-business.engineering (Personal Blog)