Multi-Stakeholder Policy Dialogue: Accelerating action for Sustainable and Circular Value Chains in Garment & Footwear

Gerhard Heemskerk, Data Modeller, UN/CEFACT project expert
28 | 04 | 2020, WebEx-teleconference

UN/CEFACT Standards

UN/CEFACT BRS
Business Requirements Specification
UN/CEFACT Open Development Process

UN/CEFACT Standards
Open Development Process (ODP)

- Inception
- Requirements Gathering
- Draft development
- Public Review
- Project Exit
- Publication
- Maintenance

- BRS: Business Requirements Specification
- CCBDA: Core Component Business Document Assembly (a Business Data Exchange Structure)
- Syntax
- XML Schema
From Requirements Gathering to BRS

**Requirements gathering**

**As Is** model
- Business Analysts
- Domain experts
  - Process descriptions, use cases, data flows through background info, interviews, document captured data, bottle necks and user stories.

**To Be** model
- Project Scope & Purpose
  - Specifying changes & impact to meet purpose. (traceability, sustainability, transparency)

**BRS**
- Business Requirements Specification

**ODP step 2**
- Requirements gathering

**ODP step 3**
- Draft Development
The BRS specifies user requirements in business terms and in a more formalised way as **UML** (Unified Modelling Language) artifacts. **UMM** (**UN/CEFACT** Modelling **Methodology**) is a UML approach used for designing business services in order to collaborate.
Business Requirements View

The business requirements and key business information will be presented in a numbered list (text) and UML diagrams.

### Business Domain View

![Use Case Value Chain](image1)

### Business Partner View

<table>
<thead>
<tr>
<th>Partner</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmer</td>
<td>A farmer (also called an agriculturer) is a person engaged in agriculture, raising living organisms for food or raw materials.</td>
</tr>
<tr>
<td>Ginner</td>
<td>A ginner is a person or company that operates machines that quickly and easily separates cotton fibers from their seeds.</td>
</tr>
</tbody>
</table>

### Business Entity View

![Class Basic Structure](image2)

<table>
<thead>
<tr>
<th>Key Entities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Party</td>
</tr>
<tr>
<td>Location</td>
</tr>
<tr>
<td>Facility</td>
</tr>
<tr>
<td>Process</td>
</tr>
<tr>
<td>Product Type</td>
</tr>
<tr>
<td>Product Batch</td>
</tr>
</tbody>
</table>

- **Party**
- **Location**
- **Facility**
- **Process**
- **Product Type**
- **Product Batch**

### Entity Life Cycle

![Entity Life Cycle Diagram](image3)

- **Created**
- **In Trade**
- **In Transport**
- **In Production**
- **Processed**
- **Stored**
- **Sold**
- **Transported**
- **Final**
Business Information View

**Business information using tabular form**

<table>
<thead>
<tr>
<th>Cardinality</th>
<th>Business term</th>
<th>Type</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 1</td>
<td>Identification</td>
<td>Identifier</td>
<td>An identifier for this crop produce.</td>
</tr>
<tr>
<td>0 1</td>
<td>Type</td>
<td>Code</td>
<td>The code specifying the type of crop produce.</td>
</tr>
<tr>
<td>0 1</td>
<td>Name</td>
<td>Text</td>
<td>The name, expressed as text, for this crop produce.</td>
</tr>
<tr>
<td>0 *</td>
<td>Input Crop Produce Batch</td>
<td>An input, such as seed or fertilizer, for this crop produce.</td>
<td></td>
</tr>
<tr>
<td>1 *</td>
<td>Output Crop Produce Batch</td>
<td>An output, such as cotton, for this crop produce.</td>
<td></td>
</tr>
</tbody>
</table>

**Business information using UML Classes**

**Note:** All business requirements and business information entities will be mapped to existing and/or new technical artefacts of the UN/CEFACT Core Component Library (CCL). Business Data Exchange Structures will be derived from the data model by applying the UN/CEFACT CCBDA Methodology (“Core Component Business Document Assembly”).
Thank you for your attention!

Gerhard Heemskerk
gerhard.heemskerk@kpnmail.nl