UNITED NATIONS
CENTRE FOR TRADE FACILITATION AND ELECTRONIC BUSINESS
(UN/CEFACT)

METHODOLOGY AND TECHNOLOGY PROGRAMME DEVELOPMENT AREA

PROCEDURES FOR REFERENCE DATA MODEL (RDM)
& ASSOCIATED ARTEFACTS PUBLICATION

SOURCE: Procedures for RDM & Associated Artefacts Publication Project Team
DATE: 13 April 2017
STATUS: Draft v1.0.0.9

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1 About this document

1.1 Status of this document

This document has been developed in accordance with the UN/CEFACT/TRADE/22 Open Development Process for Guidelines and approved for publication by the UN/CEFACT Bureau.

1.2 Revision history

<table>
<thead>
<tr>
<th>Version</th>
<th>Release</th>
<th>Date</th>
<th>Comment</th>
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</thead>
<tbody>
<tr>
<td>1.0.0.1</td>
<td>Internal draft</td>
<td>2016-August-01</td>
<td>Initial</td>
</tr>
<tr>
<td>1.0.0.2</td>
<td>Draft</td>
<td>2016-December-15</td>
<td>For revision by Project Team</td>
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<tr>
<td>1.0.0.3</td>
<td>Draft</td>
<td>2016-December-29</td>
<td>Including comments from Project Team call on 2016-December-15</td>
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<tr>
<td>1.0.0.4</td>
<td>Draft</td>
<td>2017-January-09</td>
<td>Internal Review</td>
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<td>1.0.0.5</td>
<td>Draft</td>
<td>2017-January-16</td>
<td>Including comments from Project Team call on 2017-January-12</td>
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<td>1.0.0.6</td>
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<td>2017-January-22</td>
<td>Including comments from Project Team call on 2017-January-19</td>
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<td>1.0.0.7</td>
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<td>2017-January-26</td>
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<td>1.0.0.8</td>
<td>Draft</td>
<td>2017-February-01</td>
<td>Review by Project Team</td>
</tr>
<tr>
<td>1.0.0.9</td>
<td>Final Draft</td>
<td>2017-April-13</td>
<td>Final version after public review</td>
</tr>
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</table>
2 Project Team

2.1 Disclaimer

The views and specification expressed in this document are those of the authors and are not necessarily those of their employers. The authors and their employers specifically disclaim responsibility for any problems arising from correct or incorrect implementation or use of this technical specification.

2.2 Project Team Participants

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Lead editor:

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Lance Thompson
Ian Watt
3 Introduction

The main audience for this document is primarily:
- UN/CEFACT community

3.1 Structure of this document

- Section 4: Publication Requirements
- Section 5: Publication Procedures of Reference Data Models
- Section 6: Definition of Terms

3.2 Related Documents

- Revised Open Development Procedures, 10 February 2016 (ODP)
- UN/CEFACT Reference Data Model Guideline1.
- UN/CEFACT Supply Chain Reference Data Model Requirement Specification Mapping (SCRDM-RSM)2
- UN/CEFACT SCRDM Master Structure and Subset of CCL (Context CCL)1

3.3 Purpose and scope

The business goals of this document are
  • to define how to the functional requirements, publication formats and publication procedures relevant for the publication of Reference Data Model artefacts.

The process for the publication of Reference Data Models takes account of the following aspects:
  • Relationship with the underlying CCL
  • Validation rules for publication formats
  • Production of the publication bundle
  • Maintenance of RDM2

1 All versions published after the adoption date of these procedures.
2 Reference Data Model
4 Publication Requirements

4.1 Functionality

The publication formats support the functionalities:

- R01 Publication of the RDMs subset of the CCL
- R02 Reference to the underlying CCL BIE
- R03 Presenting the content of the underlying CCL BIE
- R04 Presenting the RDM in a hierarchical manner
- R05 Advanced searching capabilities
- R06 Presenting information in a business/technical view
- R07 Presenting restrictions made on different levels
- R08 Machine-processable information

The capability to meet the requirements depends on the chosen publication format (see paragraph 4.4).

R01 Publication of the RDM’s subset of the CCL

The publication contains the fields mentioned in the specification of the publication content (section 4.2). The CCL subset has been defined by the relevant RDM.

R02 Reference to the underlying CCL BIE

The reference is expressed as the “Unique UN Assigned ID” which is inherited from the information of the BIE of the underlying CCL.

R03 Presenting the content of the underlying CCL BIE

The content of the underlying CCL BIE is presented by linking the RDM BIE to the content of the underlying CCL BIE using hyperlinks or a copy of the underlying CCL BIE along with the RDM BIE.

R04 Presenting the RDM in a hierarchical manner

The business information in a RDM is structured by a Master Structure. The Business Information Entities of the RDM can be Basic Business Information Entities (BBIE), Association Business Information Entities (ASBIE), or Aggregate Business Information Entities (ABIE). The Master Structure of the RDM is presented by using a hierarchy from top to bottom. The hierarchy can be shown by unfolding entities.

R05 Advanced searching capabilities

Users of a RDM must be able to find the appropriate Business Information Entity as easy as possible. The main search fields are:

- Short name
- ID
- Dictionary entry name (DEN)
- Definition

3 Business Information Entity
R06 Presenting information in a business/technical view

For business analysts and modelers information should be presented in a way they can easily understand or recognize. The presentation using short names is best suited for these users, as the presentation using dictionary entry names is more suitable for technical users. Both ways are presented in the RDM.

R07 Presenting inheritance of restrictions made on different levels

An important aspect of the RDM are restrictions applied to the BIEs of the underlying CCL. One example for restrictions is the choice of a limited number of artefacts (BBIEs or ASBIEs). Restrictions can be applied on different levels: on the highest level, on the BIE of the CCL or on the BIE of the RDM CCL. Therefore the RDM shall indicate at what level the restrictions are defined.

R08 Machine-processable information

Users may want to re-use provided business information in a RDM without re-typing the information. The RDM is therefore provided as well in a machine-processable format.

4.2 Publication Content

The RDM shall be published as a “Master Structure and Subset of the CCL” indicating the version of the underlying CCL. The following information items should be supported by the publication formats for holding the information for each BIE of the RDM when available:

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Information Item</th>
<th>Definition/Explanation</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Status CCL</td>
<td>Indicates for each BIE of the RDM whether or not there is a difference between the published version of the underlying CCL and the previous version. ADD = Add, CHG = Change, DEP = Deprecated.</td>
<td>Conditional</td>
</tr>
<tr>
<td>2</td>
<td>Status Subset CCL</td>
<td>Indicates for each BIE of the RDM whether or not there is a difference between the published version of the RDM subset of the CCL and the previous version of the RDM. ADD = Add, CHG = Change, DEP = Deprecated.</td>
<td>Conditional</td>
</tr>
<tr>
<td>3</td>
<td>Unique UN Assigned ID</td>
<td>“Unique UN Assigned ID” of the BIE of the underlying CCL.</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>ABIE/ BBIE/ ASBIE</td>
<td>Indication of the type of the BIE.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The subset of the CCL is also known as the “Context Core Component Library (Context CCL)”. 
<table>
<thead>
<tr>
<th>Nr.</th>
<th>Information Item</th>
<th>Definition/Explanation</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Dictionary Entry Name</td>
<td>The unique official name of a Business Information Entity</td>
<td>Yes</td>
</tr>
<tr>
<td>6</td>
<td>Definition</td>
<td>The unique semantic meaning of a Business Information Entity.</td>
<td>Yes</td>
</tr>
<tr>
<td>7</td>
<td>Short Name&lt;sup&gt;5&lt;/sup&gt;</td>
<td>An alternative simplified name for each Business Information Entity for use by modelers.</td>
<td>Yes</td>
</tr>
<tr>
<td>8</td>
<td>Usage Rule(s)</td>
<td>Rules which describe how and/or when to use a Business Information Entity.</td>
<td>No</td>
</tr>
<tr>
<td>9</td>
<td>Example(s)</td>
<td>An illustration of the use of a BIE.</td>
<td>No</td>
</tr>
<tr>
<td>10</td>
<td>Publication comments</td>
<td>Additional explanatory information published in the CCL.</td>
<td>No</td>
</tr>
<tr>
<td>11</td>
<td>TDED</td>
<td>Identifier to link to a specific data element in the United Nations Trade Data Elements Directory (UNTDED).</td>
<td>No</td>
</tr>
<tr>
<td>12</td>
<td>Object Class Term Qualifier(s)</td>
<td>A word or group of words which help define an object class.</td>
<td>No</td>
</tr>
<tr>
<td>13</td>
<td>Object Class Term</td>
<td>The name of a logical data grouping to which a data element or association belongs.</td>
<td>Yes</td>
</tr>
<tr>
<td>14</td>
<td>Property Term Qualifier(s)</td>
<td>A word or group of words which help define an object class property.</td>
<td>No</td>
</tr>
<tr>
<td>15</td>
<td>Property Term</td>
<td>A semantically meaningful name for a characteristic of an object class.</td>
<td>No</td>
</tr>
<tr>
<td>16</td>
<td>Datatype Qualifier(s)</td>
<td>Qualifier for the datatype of a Basic Business Information Entity.</td>
<td>No</td>
</tr>
<tr>
<td>17</td>
<td>Representation Term</td>
<td>The datatype, such as numeric or text, of a Business Information Entity.</td>
<td>Mandatory for BBIE.</td>
</tr>
<tr>
<td>18</td>
<td>Qualified Data Type UID</td>
<td>Unique UN Assigned ID.</td>
<td>No</td>
</tr>
<tr>
<td>19</td>
<td>Associated Object Class Term Qualifier(s)</td>
<td>A word or group of words which help define an associated object class</td>
<td>No</td>
</tr>
<tr>
<td>20</td>
<td>Associated Object Class</td>
<td>The name of an object class associated from the Business Information Entity Object Class as a complex characteristic.</td>
<td>No</td>
</tr>
<tr>
<td>21</td>
<td>Occurrence Min</td>
<td>Minimum occurrence of the Business Information Entity in the RDM.</td>
<td>Mandatory for BBIE and ASBIE.</td>
</tr>
<tr>
<td>22</td>
<td>Occurrence Max</td>
<td>Maximum occurrence of the Business Information Entity characteristic (data element or association) in the RDM.</td>
<td>Mandatory for BBIE and ASBIE.</td>
</tr>
</tbody>
</table>

<sup>5</sup> The “short name” is a new information item in the CCL. It must not be confused with the “business term”.

---

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4.3 Publication Formats

The Reference Data Model shall be published in the following formats:

1. PDF
2. Excel
3. HTML
4. Compressed HTML

1. The PDF format is fully based on an internal Word-format that is not published. A template for the structure of the PDF format is described in annex 1.

2. The Excel format is a subset of the columns provided in the full CCL publication, but it has two new column: “Status of Subset CCL” and “Status of the CCL”. This first one indicates whether or not there is a difference between the published version of the RDM subset of the CCL and the previous version. The second one is equal to the present CCL column named (ADD/CHG/DEP/WDR). A template for the structure of the excel format is described in annex 2.

3. The HTML format is described in annex 3.

4. The Compressed HTML format is described in annex 4.

The high level Business Requirement Specification (BRS) and Requirement Specification Mapping (RSM) are part of the publication of the RDM and have to be updated when any changes made in the Reference Data Model impact the high-level business requirements, business artefacts and definitions of the high level BRS and RSM. The high level BRS/RSM are published as PDF documents.

---

6 See annex 1
7 ADD = Added, CHG = Changed, DEP = Deprecated, WDR = Withdrawn
8 See annex 2
9 See annex 3
10 See annex 4
### 4.4 Mapping of Functionality to the different Publication Formats

The full list of functional requirements cannot be fulfilled by every publication format. The following table maps the functional requirements to the different publication formats:

![Diagram](image_url)

<table>
<thead>
<tr>
<th>Functional Requirements</th>
<th>Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>R01 Publication of the RDM's subset of the CCL</td>
<td>PDF</td>
</tr>
<tr>
<td>R02 Reference to the underlying CCL BIE</td>
<td>Excel</td>
</tr>
<tr>
<td>R03 Presenting the content of the underlying CCL BIE</td>
<td>HTML</td>
</tr>
<tr>
<td>R04 Presenting the RDM in a hierarchical manner</td>
<td>Compressed HTML</td>
</tr>
<tr>
<td>R05 Advanced searching capabilities</td>
<td></td>
</tr>
<tr>
<td>R06 Presenting information in a business and/or technical view</td>
<td></td>
</tr>
<tr>
<td>R07 Presenting restriction inheritance made on different levels</td>
<td></td>
</tr>
<tr>
<td>R08 Machine-processable information</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **Green**: Desirable and currently possible
- **Orange**: Desirable but not yet possible
- **Grey**: Not desirable in this format

**R03 Orange**: When the CCL is published in the HTML format they could be linked to show underlying CCL.

**R05 Green**: Depending on Compressed HTML viewer tools being used.

**R07 Orange**: When the CCL is published in the HTML format they could be linked to show restrictions made on different levels.
5 Publication Procedures of Reference Data Models

The publication procedures of Reference Data Models are the responsibility of the Library Maintenance Focal Point to produce the publication formats.
6 Definition of Terms

<table>
<thead>
<tr>
<th>Term/Acronyms</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABIE</td>
<td>Aggregate Business Information Entity</td>
</tr>
<tr>
<td>ASBIE</td>
<td>Association Business Information Entities</td>
</tr>
<tr>
<td>BBIE</td>
<td>Basic Business Information Entities</td>
</tr>
<tr>
<td>BIE</td>
<td>Business Information Entity</td>
</tr>
<tr>
<td>BRS</td>
<td>Business Requirement Specification</td>
</tr>
<tr>
<td>BRS-SCRDM</td>
<td>Business Requirement Specification for the Supply Chain Reference Data Model</td>
</tr>
<tr>
<td>CCBDA</td>
<td>Core Components Business Document Assembly</td>
</tr>
<tr>
<td>CCL</td>
<td>Core Component Library</td>
</tr>
<tr>
<td>CCTS</td>
<td>Core Component Technical Specification</td>
</tr>
<tr>
<td>DEN</td>
<td>Directory Entry Name</td>
</tr>
<tr>
<td>ODP</td>
<td>UN/CEFACT Open Development Process</td>
</tr>
<tr>
<td>RDM</td>
<td>Reference Data Model</td>
</tr>
<tr>
<td>RSM</td>
<td>Requirement Specification Mapping</td>
</tr>
<tr>
<td>RSM-SCRDM</td>
<td>Requirement Specification Mapping for the Supply Chain Reference Data Model</td>
</tr>
<tr>
<td>SCRDM</td>
<td>Supply Chain Reference Data Model</td>
</tr>
<tr>
<td>TDED</td>
<td>Trade Data Elements Directory</td>
</tr>
<tr>
<td>UN/CEFACT</td>
<td>United Nations Centre for Trade Facilitation and Electronic Business</td>
</tr>
<tr>
<td>UNECE</td>
<td>United Nations Economic Commission for Europe</td>
</tr>
<tr>
<td>UNTDED</td>
<td>United Nations Trade Data Elements Directory</td>
</tr>
</tbody>
</table>
Annex 1: Publication format PDF

Introduction (title page) template

CEFACT - BP/[RDM] - P[no]/CCYY
Draft
CEFACT/DD/MMM/CCYY

UNITED NATIONS
CENTRE FOR TRADE FACILITATION AND ELECTRONIC BUSINESS
(UN/CEFACT)

[PDA ACRONYM] PROGRAMME DEVELOPMENT AREA
[DOMAIN NAME] DOMAIN ([DOMAIN ACRONYM])

[RDM NAME] ([RDM ACRONYM])
MASTER STRUCTURE AND SUBSET OF CCL [VERSION] (CONTEXT CCL)

SOURCE: [RDM Acronym] Project Team
DATE: DD Month CCYY
STATUS: Draft v[version no]

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## Master Structure\(^{11}\) and Context CCL BIE template\(^{12}\)

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>Element/Attribute</th>
<th>Short Name</th>
<th>TDED</th>
<th>qDT</th>
</tr>
</thead>
<tbody>
<tr>
<td>[4. BIE Type] [5. DEN of ABIE]</td>
<td>[5. Dictionary Entry Name of BBIE/ASBIE] [7.Short Name] [11. TDED] [18.qDT ID]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[20/21] [6. Definition]</td>
<td>Unique Assigned UN ID: [3. UN Assigned ID]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Status subset CCL : [2. Status subset CCL]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Status CCL : [1. Status CCL]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Example(s) : [9. Example(s)]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Usage Rule(s) : [8. Usage Rule(s)]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publication Comments : [10. Publication Comments]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

\(^{11}\) For the Master structure only the root ASBIEs will be specified. The full structure is available in HTML and compressed HTML format.

\(^{12}\) The [red numbers] are [field numbers] which will not be in the output of this publication format. They correspond with the fields listed in section 4.2 Publication Content. Field numbers 12 till 17 and 19 till 20 are part of the DEN (Dictionary Entry Name) and are not specified as separate fields. Field numbers 1 till 3 and 8 till 10 will only be present if data is available.
Annex 2: Publication format Excel

Introduction template sheet

```
[Version] [RDM name] [RDM Acronym]
Master Structure
The UN/CEFACT [Version] Master Structure for [RDM Acronym] contains only the BIEs on the highest level of the Reference Data Model. The full hierarchical structure can be presented in the HTML format.

Context Core Component Library
The UN/CEFACT [Version] Context Core Component Library (CCL) [RDM Acronym] contains:

UN/CEFACT Context CCL BIE
All reference BIEs of the Context CCL as harmonised by the Methodology & Technology Library Maintenance Focal Point, presented in an alphabetic order.
```

Master Structure template sheet

<table>
<thead>
<tr>
<th>Version</th>
<th>RDM name</th>
<th>RDM Acronym</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| ASZZCC | GOED CCL | Effected CGP CCL | Based on Unique ID | ASZZ | ASZZC | Electro | Entry Name | Definition | Sheet Name | Sheet Index | Example | Publication Comments | Code Object Class | Class Object Qualifier | Object Class Term Qualifier | Property Term Qualifier | Property Term Qualifier | Representation Term Qualifier | Qualifier Data Type | Associated Object Class Term Qualifier | Associated Object Class |
|---------|----------|------------------|-------------------|------|-------|---------|------------|------------|------------|-------------|---------|----------------------|----------------------|----------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|
|         |          |                  |                   |      |       |         |             |            |            |            |         |                      |                      |                      |                          |                          |                          |                        |                        |

<table>
<thead>
<tr>
<th>Name</th>
<th>BIE</th>
<th>Description</th>
<th>Example</th>
<th>Comments</th>
<th>Code</th>
<th>Object Class</th>
<th>Class Object Qualifier</th>
<th>Object Class Term Qualifier</th>
<th>Property Term Qualifier</th>
<th>Representation Term Qualifier</th>
<th>Qualifier Data Type</th>
<th>Associated Object Class Term Qualifier</th>
<th>Associated Object Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Context CCL BIE template sheet

| ASZZCC | GOED CCL | Effected CGP CCL | Based on Unique ID | ASZZ | ASZZC | Electro | Entry Name | Definition | Sheet Name | Sheet Index | Example | Publication Comments | Code Object Class | Class Object Qualifier | Object Class Term Qualifier | Property Term Qualifier | Property Term Qualifier | Representation Term Qualifier | Qualifier Data Type | Associated Object Class Term Qualifier | Associated Object Class |
|---------|----------|------------------|-------------------|------|-------|---------|------------|------------|------------|-------------|---------|----------------------|----------------------|----------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|
|         |          |                  |                   |      |       |         |             |            |            |            |         |                      |                      |                      |                          |                          |                          |                        |                        |

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13 First row: The [red numbers] are [field numbers] which will not be in the output of this publication format. They correspond with the fields listed in section 4.2 Publication Content.

14 See foot note 13
Annex 3: Publication format HTML

Introduction template

[RDM]: Master and subset of CCL [version] (Context CCL)

Start Structure Components

[RDM] Master. Details

Issue date: [DD-MM-CCYY]

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Master Structure template

![Diagram of Master Structure template]

The [red numbers] are [field numbers] which will not be in the publication format. They correspond with the fields listed in section 4.2 Publication Content.

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15 The [red numbers] are [field numbers] which will not be in the publication format. They correspond with the fields listed in section 4.2 Publication Content.
The menu option ‘Components’ is named ‘Supporting objects’ within the navigation bar (left side). The components are listed in an alphabetic order. The [red numbers] are [field numbers] which will not be in the output of this publication format. They correspond with the fields listed in section 4.2 Publication Content.
Annex 4: Publication format Compressed HTML

Introduction template : see HTML format previous annex
Master Structure template : see HTML format previous annex
Context CCL BIE template\(^{17}\) : see HTML format previous annex

Advanced Search Capabilities depend on the Compressed HTML format file (CHM) reader\(^{18}\).

Possible search options are:

- and/or/near/not
- “search previous results”
- “match similar words”
- “search titles only”

Additional features may be: storing pages as favorites.

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\(^{17}\) The menu option ‘Components’ is named ‘Supporting objects’ within the navigation bar (left side).

\(^{18}\) For example: Microsoft HTML Help reader