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On the Direction of
ISO/IEC 11179-2 Ed 3

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Delegate from Korea
19 May 2015
Preface

• According to the convenor’s report of Toronto meeting, a WD should be presented at this meeting.

• However, it wasn’t because I believe that the direction as well as the contents are needed to be confirmed by WG2 experts.

• So, my presentation is mainly about the direction of 11179-2 ed3.

• Any comment or advice is very welcomed.
Contents

• History
  – Resolution of Beijing Meeting
  – Convenor’s Report of Toronto Meeting

• Related Content
  – Summary of 11179-2:2005
  – Related Part in 11179-3:2013

• Direction of 11179-2 Ed 3
  – Discussion
  – Suggestion

• Contents of WD
  – Main Text
  – Annex
History : Resolution of Beijing Meeting

• **Project Subdivision Rationale:**
  – **11179-2:2005 Classifications is no longer consistent with the 11179-3:2013**, which includes a clause 9.2 Classifications Metamodel Region and Clause 9.1 Concepts Region.
  – **Part 2 Ed 3 should address use of Classifications**, which is not within the scope of 11179-3:2013.
  – **Two options** were discussed for part 2: Withdraw or Split.
    • Withdrawing Part 2 could cause existing customers confusion or problems with compliance. The WG feels that a split to produce Part 2 Ed3 WD to harmonize with Ed 3 is needed, adding more explanation for creating and using Classifications, and adding references to existing work on classifications.
    • This part should refer to content already covered in 11179-3:2013, not repeat it.
  – The WG reserves the option **to change this part to a TR** after the WD is developed.
    • The rationale for leaving this part in 11179 versus adding to TR 19583 is that existing users of 11179 expect to find information related to Classifications in 11179, not somewhere else.
History: Convenor's Report of Toronto Meeting

- **Project split was approved** to produce 11179-Part 2 Ed3 WD to harmonize with 11179-3:2013

- **Should include:**
  - **Adding more explanation** for identifying and/or registering Classifications Schemes if not covered in Part 3
  - **Should be based on specific use cases for Classifications** – the use cases should be presented in Glasgow along with WD
    - Explanation and examples for using Classifications for items **within a registry**,
    - And Classifications **outside of things within a 11179 registry**
  - **Adding references** in the Bibliography to existing work on classifications.
  - Refer to content already covered in 11179-3:2013, not repeat it.

- **The WG reserves the option to change this part to a TR after the WD is developed.**
  - The rationale for leaving this part in 11179 versus adding to TR 19583 is that existing users of 11179 expect to find information related to Classifications in 11179, not somewhere else.
• Restating and elaborating on the procedures and techniques of ISO/IEC 11179-3:2003 for registering classification schemes and classifying administered items in an MDR.

1. Classification schemes shall be registered in an MDR by recording their attributes.

2. All types of administered items can be classified, including object classes, properties, representations, value domains, and data element concepts, as well as data elements themselves.
Concept_Systems may be used as classification schemes to classify Classifiable_Items within a registry.

Figure 9 — Classification metamodel region
# Related Content: ISO/IEC 11179-3:2013

- **Annex E: Concept System Examples**

## Table 92 — Correspondences of ISO/IEC 11179-3 concept system metamodel to selected notations

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<thead>
<tr>
<th>Notation</th>
<th>Concept</th>
<th>Relation</th>
<th>Relation_Role</th>
<th>Link</th>
<th>Assertion</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKOS</td>
<td>Concept</td>
<td>N/a</td>
<td>semantic relations</td>
<td>N/a</td>
<td>Statement</td>
</tr>
<tr>
<td>OWL</td>
<td>Class or Thing</td>
<td>N/a</td>
<td>ObjectProperty</td>
<td>N/a</td>
<td>Statement</td>
</tr>
<tr>
<td>UML</td>
<td>Class or Object</td>
<td>Association</td>
<td>AssociationEnd</td>
<td>Link</td>
<td>N/a</td>
</tr>
<tr>
<td>ORM</td>
<td>non-lexical object or non-lexical object type</td>
<td>idea type</td>
<td>role</td>
<td>idea</td>
<td>N/a</td>
</tr>
<tr>
<td>XTM</td>
<td>Topic</td>
<td>Association Type</td>
<td>Association Role</td>
<td>Association</td>
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</tr>
<tr>
<td>SBVR</td>
<td>concept characteristic or (non-unary) fact type</td>
<td>fact type role</td>
<td>N/a</td>
<td>fact</td>
<td></td>
</tr>
<tr>
<td>CLIF</td>
<td>N/a</td>
<td>=</td>
<td>N/a</td>
<td>N/a</td>
<td>Statement</td>
</tr>
</tbody>
</table>

5/20/15
Related Content : 11179-3:2013

• Annex F: Representation Class as a Concept System
  – A Concept_System is registered with the designation ‘Representation class’. Within the Concept_System individual Concepts are registered with designations that correspond to each of the desired class terms.
  – The Classifiable_Item class is used to classify the Data_Elements by associating them with the appropriate Concept in the Concept_System.
Direction of 11179-2 Ed 3 : Discussion

• Discussion on 11179-2: 2005(ed2)
  – This part prescribes the principles and scope of items to be classified in an MDR, which are to be considered as an essential part of 11179 standard.
  – However, this part doesn’t include general explanation on and use cases of classification.

• Discussion on 11179-3:2013(ed3)
  – 11179-3:2013 prescribes that the concept system may be used as classification schemes in an MDR.
  – This part also includes use cases of the concept system except general explanation on classification and use cases of classification.
Direction of 11179-2 Ed 3: Suggestion

- 11179-2 Ed 3 should remain in 11179 family as before by harmonizing the content to 11179-3:2013.
  - Rationale: a part is required for prescribing, at least, principles and scope of items to be classified in an MDR.
  - Frank Farance could prepare the main text of a WD of 11179-2 Ed 3.

- Explanation and use cases of Classification could be attached as an Annex.
  - Rationale: Both of 11179-2 & 3 don’t include general explanation of classification and use cases of classification.
  - I will contribute to preparing an Annex of 11179-2.
  - I need experts helping in preparing use cases outside 11179 MDR
Contents of WD

• Main Text
  – Principles
  – Scope of items to be classified in an MDR
Contents of WD

• Annex
  – Title
    • Classification and Its Use Cases (tentative)
  – Contents
    • Classification Generals
      – Definition of Classification
      – Purpose/Role of Classification
      – Type of Classification
      – Requirement of a Good Classification
      – Examples of Classification Scheme
    • Use Cases of Classification as a Concept System
      – In 11179
      – Outside 11179: SKOS, OWL, CLIF, …
Discussion

• The direction
  – Remain in TR 11179-2 or Move to TR 19583?

• The content
  – Accept as it is or change something?

• Collaboration in preparing WD
  – Main text : Frank
  – Annex : Tae-sul with some experts on SKOS, OWL, CLIF, …