Module Description Formalism

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Introduction

The TBX Module Description Formalism (TBXMD) is an XML format designed for creating a machine-processable description of a TBX data category module. TBXMD is not intended to replace the prose definition of a module as shown in ISO 30042.

Structure

The root element of an TBXMD file is <tbxmd>.

Elements:

<contents>

- Description: If the permitted contents of a data category are picklist values, they will be
 placed here in <cvalue> tags. Any other data category must select from one of the 4
 permitted text datatypes as described in ISO 30042.
- Attribute:
 - o Datatype:
 - Description: The values permitted here are found in ISO 30042.
 - Allowed Values:

- "PCDATA"
- "noteText"
- "basicText"
- "picklist"
- Children:
 - o If @datatype="picklist":
 - <value>+

<datCatSet>

- Description: This element contains the collection of permitted data categories in the module.
- Children:
 - o One or More:
 - <[classification]Spec> and/or <termNoteSpec>

<[classification]Spec>

- [classification] must be replaced with a classification element. The following specs are
 therefore possible (<termNoteSpec> has unique value constraints and is therefore
 described elsewhere):
 - o <adminSpec>
 - o <adminNoteSpec>
 - o <descripSpec>
 - o <descripNoteSpec>
 - o <transacSpec>
 - o <transacNoteSpec>
 - o <refSpec>
 - o <xrefSpec>
- Description: This element is used to provide all necessary information to describe a single data category.
- Attributes:
 - o @name
 - This is the name of the data category being included in the MDF
 - o @datcatId
 - This is the URI pointing to the source of the data category. For standard data categories found on datcatinfo.net, this is the PID.
- Children:
 - o <levels>
 - o <contents>

<description>

- Description: A description of the module being described.
- Text Content

<header>

• Description: Container for header information.

- Children:
 - o <title>
 - o <description>*

<level>

- Description: The values permitted are the three levels of TBX.
- Permitted Values (one per <level>):
 - "conceptEntry"
 - o "langSec"
 - o "termSec"

<levels>

- Description: The levels in which the data category may occur.
- Children:
 - o One or More:
 - <level>

<tbxmd>

- Description: The root element of an TBXMD file.
- Attribute
 - o @module
 - This is the name of the module. (e.g., "fictional", "basic", etc.)
 - @ns
 - This is the namespace URI of the module (used in TBX DCT style).
- Children:
 - o <header>
 - o <datCatSet>

<termNoteSpec>

- Description: This element is used to provide all necessary information to describe a single data category. Because termNotes cannot be at any level other than <termSec>, it is not necessary to declare levels.
- Attributes:
 - o @name
 - This is the name of the data category being included in the MDF
 - @datcatId
 - This is the URI pointing to the source of the data category. For standard data categories found on datcatinfo.net, this is the PID.
- Children:
 - o <contents>

<title>

 Description: This element is used to provide a more descriptive name for a module, in contrast to the simple name given in the @module attribute of <tbxmd> Text Content

<value>

Description: A <a

Sample TBXMD

In this section we will walk through creating a Description for a very simple module with only three data categories: /subjectField/, /partOfSpeech/, and /definition/. We will call this the "Sample" module. We will use the fake namespace identifier: http://www.example.org/ns/sample.

First, we must create the root element (and the XML declaration) with header information:

Finally, we will create entries for each data category using the various <...Spec> elements (descripSpec, adminSpec, etc.). The specific element depends on the classification which is given for each data category. For the data categories we are using in Sample we will use: <descripSpec> (for /subjectField/ and /definition/) and <termNoteSpec> (for /partOfSpeech/).

Each <...Spec> besides <termNoteSpec> expresses the following properties of a data category:

- Data category name (in camelCase)
- Data category ID (this is the PID which points to the data category on datcatinfo.net)
- Levels (conceptEntry, langSec, and/or termSec)
- Contents
 - Can be: PCDATA (plain text), basicText, noteText, or a specific list of permitted values (picklist)

<termNoteSpec> is almost the same, except that levels are not indicated. This is because termNote data categories by definition can only appear at the termSec level.

```
This is the <descripSpec> for /subjectField/:
```

The <termNoteSpec> for /partOfSpeech/ looks similar, except with no <levels> and a specific list of values in <content>:

```
<termNoteSpec name="partOfSpeech" datcatId=<a href="http://www.datcatinfo.net/datcat/DC-1345">http://www.datcatinfo.net/datcat/DC-1345</a> <content datatype="picklist">http://www.datcatinfo.net/datcat/DC-1345</a> <content datatype="picklist">http://www.datcatinfo.net/da
```

The full TBXMD should look as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<tbxmd module="Sample" ns=http://www.example.org/ns/sample>
  <header>
    <title>Sample module</title>
  </header>
  <datCatSet>
    <descripSpec name="subjectField" datcatId="http://www.datcatinfo.net/datcat/DC-489">
       <levels>
         <level>conceptEntry</level>
       </levels>
       <content datatype="PCDATA"/>
    </descripSpec>
    <descripSpec name="definition" datcatId="http://www.datcatinfo.net/datcat/DC-168">
       <levels>
         <level>conceptEntry</level>
         <level>langSec</level>
       <levels>
       <content datatype="noteText"/>
    </descripSpec>
    <termNoteSpec name="partOfSpeech" datcatId="http://www.datcatinfo.net/datcat/DC-1345">
       <content datatype="picklist">
         <value>adjective</value>
         <value>noun</value>
```

```
<value>other</value>
<value>verb</value>
<value>adverb</value>
</content>
</termNoteSpec>
</datCatSet>
</tbxmd>
```