

## Implementing TBX-Min

Adding support for TBX-Min was intended to be a straightforward process, just as TBX-Min is a straightforward and simple Glossary format. TBX-Min is an XML format, so it is easy to process the data contained within it. The structure of TBX-Min looks like the following (some elements are optional):

<TBX dialect = "TBX-Min">

<header>

<id> Dictionary/Glossary ID </id>

<description> Description of Glossary </description>

<dateCreated> Timestamp formatted as ISO 8601, e.g. 2014-03-02 </dateCreated>

<languages source="source language" target="target language" />

<creator> Creator of dictionary </creator>

<license> License </license>

</header>

<body>

<entry id="Entry ID">

<subjectField> Subject of Dictionary </subjectField>

<langGroup xml:lang="source/target">

repeat as necessary for each language group

<termGroup>

repeat as necessary for each language group

<term> Term </term>

<termStatus> should only use the following:  
admitted/preferred/notRecommended/obsolete  
</termStatus>

<partOfSpeech> should only use the following:

noun/properNoun/verb/adjective/adverb/other

```

        </partOfSpeech>

        <customer>    Customer for term    </customer>

        <note> Comments and Notes on terms </note>

    </termGroup>

</langGroup>

</entry>

</body>

</TBX>

```

Understanding this structure makes writing import/export extensions straightforward as well. This can be done by following the pseudo-code maps below. If the extension is written using **Perl**, we have developed a module called **TBX::Min** which is available on **CPAN** which can be used to both import and export with ease. More details for **TBX::Min** can be found at <http://search.cpan.org/~byutrg/Convert-TBX-Min-0.05/lib/Convert/TBX/Min.pm>. The process will be similar even without the module for any who prefer not to write the extension using Perl.

## Importing TBX-Min

The following is a pseudo-code that maps out the process of importing TBX-Min:

```

READ  input file (a TBX-Min file)

CHECK  root element for "TBX-Min" (to ensure validity)

READ  "Header" element

GET   the following information from the header:

        dictionary ID

        source language

        target language

        timestamp

        creator

```

license

directionality

subject

description

**READ** "Entry" elements (These contain Concept Entries)

**FOR** Concept Entries

**GET** Entry ID

**GET** Subject Field (e.g. culinary, academic, technical, etc.)

**READ** Language Groups

**FOR** Language Groups

**READ** Term Groups

**FOR** Term Groups

**GET** the following term related values:

term

term status

part of speech

customer

note

**END FOR**

**END FOR**

**END FOR**

**FORMAT** values according to desired usage (e.g. conversion to alternate format, glossary viewer, etc.)

**END**

[Exporting to TBX-Min](#)

The following is a pseudo-code that maps out the process of exporting TBX-Min:

```
CREATE    xml file

MAKE    xml root element '<TBX dialect = "TBX-Min">'

    MAKE    '<header>' element

        SET    '<id>' element with Dictionary ID

        SET    '<description>' element with Description

        SET    '<dateCreated>' element with Timestamp (ISO 8601, e.g. 2014-03-02)

        SET    '<languages source="source language" target="target language"/>'
                where source language and target language are in ISO 639 format
                (e.g. German = 'de', English = 'en', etc.)

        SET    '<creator>' element with Creator

        SET    '<license>' element with License

    END    header element

    MAKE    '<body>' element

        FOR    concept entries

            MAKE/SET    '<entry id="Entry_ID">' element where "Entry_ID" is the ID value

                SET    '<subjectField>' element with Subject Field

                FOR    language groups

                    MAKE    '<langGroup xml:lang="source/target">' element,
                            where source/target are in ISO 639 format and depend
                            on which language group you are on.

                    FOR    term groups

                        MAKE    '<termGroup>' element

                            SET    the following elements:

                                <term>

                                <termStatus>
```

<partOfSpeech>

<customer>

<note>

**END FOR** (term groups)

**END FOR** (language groups)

**END FOR** (concept entries)

**END** TBX-MIN xml file ( "</TBX>" )