Change Track Module

This module is used to store change track information. There are two implementations of this module: One for core <source> and <target> elements and one for <note> elements.

Module Specification

Module Namespace

The namespace for the Change Track module is: urn:oasis:names:tc:xliff:changeTrack:2.0

Module Elements

The elements defined in the changeTrack module are: <changeTrack>, <modified>, <current>, and <previous>.

Tree Structure

Legend:
1 = one
+ = one or more
? = zero or one
* = zero, one or more

```
<changeTrack> ?
|
+---<modified> +
    |
    +---<current> ?
    |
    +---<previous> *
```

changeTrack

Parent container for all change track information

Contains:

- One or more <modified> elements

Parents:

when referencing <source> or <target> elements
or <unit> when referencing <note> elements

Attributes:

- none

Processing Requirements

- User agents can create and modify the Change Track module at the level when the change track information refers to the <source> and <target> elements or a <note> element at the level.
- User agents can create and modify the Change Track module at the <unit> level when the change track information refers to a <note> at the <unit> level.
- If a user agent does not support processing a Change Track module that is already present, it can ignore the module, but still must preserve it.

modified

Provides a logical grouping between the <source> and <target> implementation and the <note> implementation of the module

Contains:
At least one of the following:
- Zero or one <current> element
- Zero, one or more <previous> elements

Parents:
<changeTrack>

Attributes:
When referencing <source> or <target> elements:
- appliesTo, required and set to source or target
When referencing <note> elements:
- appliesTo, required and set to note
- ref, required when the referenced <note> element has an id

Processing Requirements
- When appliesTo="note", the user agent creating the module must use the ref attribute if the referenced <note> element has an id.
- Once created, appliesTo and ref attributes should not be modified or removed.
- At least one <modified> and one <current> or one <previous> child element must be present.

current

Provides change track information for a current <source>, <target>, or <note> found in the XLIFF document.

Contains:
This element is always empty

Parents:
<modified>

Attributes:
- author, optional
- datetime, optional

Processing Requirements
- User agents may create <current> if there is not a <current> element already present
- User agents may remove <current> if it isn't the only child element of <modified>

previous
Provides change track information for a previous <source>, <target>, or <note> from the XLIFF document.

Contains:
- Text

Parents:
<modified>

Attributes:
- author, optional
- datetime, optional

Processing Requirements
- User agents may remove <previous> if it isn't the only child element of <modified>

Module Attributes
The attributes defined in the Change Track module are: appliesTo, ref, author, and datetime

appliesTo
Change Track target - Indicates the element to which the change track information applies.
Value description: source, target, or note.
Default value: undefined.
Used in: <modified>.

ref
Reference – Holds a reference to the associated <note> element
Value description: A value of the XSD type anyURI.
Default value: undefined
Used in: <modified> when referencing a <note> element

author
Author - Indicates the user or agent that created or modified the referenced element.
Value description: undefined
Default value: undefined
Used in: <current> and <previous>

datetime
Date and Time - Indicates the date and time the referenced element was created or modified.
Value description: Date in [ISO 8601] Format.

Default value: undefined.

Used in: <current> and <previous>

Example:

```xml
<unit id="1">
  <segment id="1">
    <source>Hello World</source>
    <target>Hallo Welt</target>
    <notes>
      <note id="n1">A note at segment level</note>
      <note id="n2">An informal greeting</note>
    </notes>
    <!-- change tracking on source, target, and notes on a segment level -->
    <changeTrack>
      <modified appliesTo="source">
        <current author="someUserAgent" datetime="2013-01-18T05:41:35+8:00" />
        <previous author="someUserAgent" datetime="2012-12-18T05:41:35+8:00">
         Good Day World</previous>
        <previous author="someUserAgent" datetime="2012-11-18T05:41:35+8:00>
         Greetings World</previous>
      </modified>
      <modified appliesTo="target">
        <current author="translator" datetime="2013-01-18T10:41:35+8:00" />
        <previous author="translator" datetime="2012-12-18T10:41:35+8:00">
         Guten Tag Welt</previous>
        <previous author="translator" datetime="2012-11-18T10:41:35+8:00">
         Gruesse Welt</previous>
      </modified>
      <modified appliesTo="note" ref="#n1">
        <current author="loc engineer" datetime="2013-01-18T08:41:35+8:00" />
      </modified>
      <modified appliesTo="note" ref="#n2">
        <current author="locEngineer" datetime="2013-01-18T08:41:35+8:00" />
        <previous author="locEngineer" datetime="2012-12-18T08:41:35+8:00">
         A formal greeting</previous>
        <previous author="locEngineer" datetime="2012-11-18T08:41:35+8:00">
         A greeting</previous>
      </modified>
    </changeTrack>
  </segment>
 <!-- change tracking on notes on a unit level -->
  <notes>
    <note id="n1">A note at unit level</note>
  </notes>
  <changeTrack>
    <modified appliesTo="note" ref="#n1">
      <current author="locEngineer" datetime="2013-01-18T08:41:35+8:00" />
      <previous author="locEngineer" datetime="2012-12-18T08:41:35+8:00">
       A previous note at unit level</previous>
    </modified>
```

```xml
        </changeTrack>
    </unit>
```