

# Binary Module

This module is used to store binary data that must be localized.

## Module Specification

### Module Namespace

The namespace for the Binary module is: urn:oasis:names:tc:xliff:binary:2.0

### Module Elements

The elements defined in the Binary module are: <binary>, <source>, and <target>.

### Tree Structure

Legend:

1 = one + = one or more ? = zero or one \* = zero, one or more

```
<binary> *  
|  
+---<source> 1  
|  
+---<target> ?
```

### binary

Extracted localizable binary data.

#### Contains:

- One <source> element followed by
- Zero or one <target> element

#### Parents:

<file>, <group>, <unit>

#### Attributes:

- id, optional
- translate, optional
- state, required
- mime-type, required
- attributes from any namespace, optional

#### Processing Requirements

- The value of the optional id attribute must be unique among all <binary> children of the enclosing <unit>, <group>, or <file> element.
- User agents must process this module, but it is up to the user agent to interpret the mime-type to be able to read and write the binary data. If a user agent does not understand the mime-type, <binary> can be ignored, but still must be preserved.
- For each instance of <binary> containing only <source>:

- User agents may leave <binary> unchanged, e.g. they are not required to create <target>.
- User agents may create <target> as a sibling of <source> and modify its content and attributes.

**source**

Binary data to be localized.

**Contains:**

- This element is empty if binary data is referenced externally
- This element contains Text if binary data is embedded in the XLIFF

**Parents:**

<binary>

**Attributes:**

- href, required if binary data is referenced externally
- format, required if binary data is embedded in the XLIFF
- attributes from any namespace, optional

**Processing Requirements**

- When a <source> element references external binary data, the element is empty and the href attribute is required, and the format attribute must not be present.
- When a <source> element references embedded binary data, the element contains Text and the format attribute is required, and the href attribute must not be present.

**target**

The localization of the sibling <source> element containing localizable binary data.

**Contains:**

- This element is empty if binary data is referenced externally
- This element contains Text if binary data is embedded in the XLIFF

**Parents:**

<binary>

**Attributes:**

- href, required if binary data is referenced externally
- attributes from any namespace, optional

**Processing Requirements**

- If the <source> element references external binary data, the <target> element must also reference external binary data.
- If the <source> element contains embedded binary data, the <target> element must also contain embedded binary data.
- When a <target> element references external binary data, the element is empty and the href attribute is required.

- When a <target> element references embedded binary data, the element contains Text and the href attribute must not be present.
- When <target> already exists:
  - User agents may leave the existing <target> unchanged.
  - User agents may modify the content and attributes of the existing <target>.
  - User agents may delete the existing <target> and start over as if working without an existing target. However <target> cannot be deleted without being replaced.

## Module Attributes

The attributes defined in the Binary module are: id, translate, state, mime-type, href, and format

### id

Identifier - A character string used to identify a <binary> element.

Value description: NMTOKEN.

Default value: undefined

The value must be unique within the enclosing <unit>, <group>, or <file> element.

Used in: <binary>.

### translate

Translate - Indicates whether or not the <source> binary data in the <binary> element should be localized.

Value description: yes or no.

Default value: yes

Used in: <binary>

### state

State - Indicates the state of the <target> binary data in the <binary> element.

Value description: initial, translated, reviewed, or final

Default value: initial

Used in: <binary>

### mime-type

Mime Type - Indicates the type of a binary object. This generally corresponds to the content-type of [RFC 1341], the MIME specification; e.g. mime-type="image/jpeg" indicates the binary object is an image file of JPEG format. However, custom mime-types are also allowed.

Value description: Text. A list of standard values is available from the [RFC 1341] document, the MIME specification.

Default value: undefined.

Used in: <binary>

### href

hypertext reference - The location of the file or URI referencing an external binary.

Value description: Text.

Default value: Undefined.

Used in: <source> and <target>

### format

Format - Describes the type of encoding used when binary data is embedded in the <source> and <target> elements.

Value description: The value can be either text (for plain text data) or base64 (for data encoded in base64 format)

Default value: Text.

Used in: <source>

## Example:

```
<?xml version="1.0" encoding="UTF-8"?>
<xliff version="2.0" srcLang="en-US" tgtLang="de-DE"
xmlns:bin="urn:oasis:names:tc:xliff:binary:2.0">
  <file id="158" original="example.exe">
    <!-- external binary reference -->
    <bin:binary id="0" mime-type="image/jpeg">
      <bin:source href="captures\en\loadregistryconfig.jpg" />
      <bin:target href="captures\de\loadregistryconfig.jpg" />
    </bin:binary>
    <group id="158">
      <unit id="158" name="5" state="initial">
        <segment id="158">
          <source>Load Registry Config</source>
          <target>Load Registry Config</target>
        </segment>
        <!-- target text was not translated, but dialog size was increased -->
        <bin:binary id="158" state="translated" mime-type="windows-resource-dialog">
          <bin:source format="base64">
<![CDATA[AQABAP//AAAAAAAAADAAMiAAAAAAAAA0gBEAAgAAAAAAAAICAAAAAACAgAAAAAHAAAAE0AUwAgAFMA
YQBuAHMAIABTAGUAcgBpAGYAAAAAAAAA]]></bin:source>
          <bin:target>
<![CDATA[AQABAP//AAAAAAAAADAAMiAAAAAAAAA0gBEAAgAAAAAAAAICAAAAAACAgAAAAAHAAAAE0AUwAgAFMA
YQBuAHMAIABTAGUAcgBpAGYAAAAAAAAA]]></bin:target>
          </bin:binary>
        </unit>
      <group id="1">
        <unit id="1" name="128;WIN_DLG_CTRL_" state="initial">
          <segment id="1">
            <source>OK</source>
            <target>OK</target>
          </segment>
          <!-- Neither target text nor control size were localized -->
          <bin:binary id="1" state="initial" mime-type="windows-resource-control-button">
            <bin:source format="base64">
<![CDATA[AQAAAAAAAAAAAAEAAVBIAC8AMgA0AAIAAAAAAABgAAAAA==]]></bin:source>
            <bin:target>
<![CDATA[AQAAAAAAAAAAAAEAAVBIAC8AMgA0AAIAAAAAAABgAAAAA==]]></bin:target>
            </bin:binary>
          </unit>
        </group>
      <group id="2">
        <unit id="2" name="128;WIN_DLG_CTRL_" state="translated">
          <segment id="2">
            <source>Cancel</source>
            <target>!!!Cancel!!!></target>
          </segment>
          <!-- target text was translated, but control size was not increased -->

```

```
        <bin:binary id="2" state="initial" mime-type="windows-resource-control-button">
          <bin:source format="base64">
<![CDATA[AQAAAAAAAAAAAAAAAAVBCAC8AMgAOAAAAAAAAABgAAAAA==]]></bin:source>
          <bin:target>
<![CDATA[AQAAAAAAAAAAAAAAAAVBCAC8AMgAOAAAAAAAAABgAAAAA==]]></bin:target>
        </bin:binary>
      </unit>
    </group>
  <group id="1060">
    <unit id="1060" name="130;WIN_DLG_CTRL_" state="translated">
      <segment id="1060">
        <source>Please select a configuration to load from the Registry</source>
        <target>!!!!!!Please select a configuration to load from the
Registry:!!!!!!</target>
      </segment>
      <!-- both target text and control size were localized -->
      <bin:binary id="1060" state="translated" mime-type="windows-resource-control-
static-text">
        <bin:source format="base64">
<![CDATA[AQAAAAAAAAAAAAAAAAIAHAACArAAIAAAAAAAAAABggAAAAA==]]></bin:source>
        <bin:target>
<![CDATA[AQAAAAAAAAAAAAAAAAIAOAAcAxAAIAAAAAAAAAABggAAAAA==]]></bin:target>
      </bin:binary>
    </unit>
  </group>
  <group id="1021">
    <unit id="1021" name="133;WIN_DLG_CTRL_" state="initial">
      <segment id="1021">
        <source format="base64"><![CDATA[]]></source>
        <target format="base64"><![CDATA[]]></target>
      </segment>
      <!-- target text was not translated, but control size was increased -->
      <bin:binary id="1021" state="translated" mime-type="windows-resource-control-
combo-box">
        <bin:source format="base64">
<![CDATA[AQAAAAAAAAAAAAAMBIVAJABkAqgCfAAEAAAAAAAAABhQAAAAA==]]></bin:source>
        <bin:target>
<![CDATA[AQAAAAAAAAAAAAAMBIVAJABkAxACfAAEAAAAAAAAABhQAAAAA==]]></bin:target>
      </bin:binary>
    </unit>
  </group>
</group>
</file>
</xliff>
```