**Validation Module**
This module defines a specific set of validation rules that can be applied to target text both globally and locally. Further constraints can be defined that allow rules to be applied to target text based on conditions in the source text or disabled to override a global scope.

**Module Specification**

## Module Namespace

The namespace for the Verification module is: urn:oasis:names:tc:xliff:validation:2.0

## Module Elements

The elements defined in the Validation module are: <validation> and <rule>.

### Tree Structure

Legend:

+ = one or more
? = zero or one

<validation> ?
|
+---<rule> +

### ValidationContainer for a list of rules and constraints to apply to the target text of the enclosing element.

 Contains:

- One or more <rule> elements.

*Attributes:*

- attributes from any namespace, optional

**Processing Requirements**

* If a user agent does not support processing the Validation module, it can ignore the module, but still must preserve it.
* When <validation> occurs at <file> level, rules must be applied to all <target> elements within the scope of <file>, except where overrides are specified at <group> or <unit> level.
* When <validation> occurs at <group> level, rules must be applied to all <target> elements within the scope of <group>, except where overrides are specified at <unit> level.
* When <validation> occurs at <unit> level, rules must be applied to all <target> elements within the scope of <unit>.

### RuleA specific rule and constraint to apply to target text of the enclosing element.

*Contains:*

- This element is always empty.

*Attribute*s:

- strBegins, required
- strEnds, required
- dblSpace, required
- mustLoc, required
- noLoc, required

- disabled, optional
- existsInSource, optional

- attributes from any namespace, optional

Processing Requirements

* User agents may create <rule> and its attributes.
* User agents must not modify <rule> and its attributes defined in this module.
* User agents must not remove <rule> and its attributes defined in this module.
* Only one of the required attributes listed must be present per <rule> element.

Module Attributes

The attributes defined in the Validation module are: strBegins, strEnds, dblSpace, mustLoc, noLoc, disabled, and existsInSource.

**strBegins**

String Begins - Test to verify that a target text begins with a defined value.

Value description: Text

Default value: none

Used in: <rule>

Processing Requirements

* The target text must begin with the value of strBegins.

**strEnds**

String Ends - Test to verify that a target text ends with a defined value.

Value description: Text

Default value: none

Used in: <rule>

Processing Requirements

* The target text must end with the value of strEnds.

**dblSpace**

Double Space - Test to verify that a certain number of double spaces exist in the target text.

Value description: Number

Default value: none

Used in: <rule>

Processing Requirements

* The target text must contain the number of double spaces specified by the value of dblSpace.

**mustLoc**

Must Localize - Test for the presence of a string/substring in source text and verify it does not exist in the target text.

Value description: The value can follow one of two patterns. See processing Requirements below.

Default value: none

Used in: <rule>

Processing Requirements

* When mustLoc contains only a string/substring from source text (for example: mustLoc=”hello world”), then the target text must not contain that string/substring.
* When mustLoc contains a string/substring from source text and a replacement value for target text (for example: mustLoc=”hello world|Hallo Welt”), then the string/substring in the target text must be translated as that replacement value.

**noLoc**

Not Localized - Test for the presence of a string/substring in source text and verify it exists in the target text.

Value description: Text

Default value: none

Used in: <rule>

Processing Requirements

* The target text must contain the string/substring specified by the value of noLoc.

**disabled**

Disabled Rule – Determines whether a rule must not be applied within the scope of its enclosing element. For example, a rule defined at the <file> level may be disabled at the <unit> level.

Value description: true or false

Default value: false

Used in: <rule>

Processing Requirements

* When the disabled attribute is set to true, the rule must not be applied within the scope of its enclosing element.

**existsInSource**

Exists in source – Determines whether a rule must be applied to target text based on the rule’s condition existing in the source text. For example, a test would determine if the target text ends with a non-breaking space only when the source text ends with a non-breaking space.

Value description: true or false

Default value: false

Used in: <rule>

Processing Requirements

* When the existsInSource attribute is set to true, the rule must be applied to the target text only when the same condition exists in the source text.
* When present, the existsInSource attribute must only be used with the strBegins, strEnds, and dblSpace attributes.