# FoxvalueCompared constraint

## Summary

…

## Element

<foxvaluesCompared>

## Example

<foxvaluesCompared foxpath="fox-sibling('airports-copy')"   
 countTargetResources="1">   
 <foxvalueCompared expr1FOX=".\\airport-\*.xml//country"   
 expr2FOX=".\\airport-\*.xml//country"   
 cmp="inin" ininMsg="Folders should contain same airport countries."/>  
</foxvaluesCompared>

## Summary

Evaluates two expressions, at least one of which is a Foxpath expression, and compares or otherwise evaluates their results.

## Expression evaluation context

### Context item

If expression 1 is a Foxpath, its context node is the target resource URI.

If expression 1 is an XPath, its context node is a link context node. More precisely, it is:

* If the link definition includes a link context expression (@contextXP), a link context node obtained from that expression
* Otherwise, if the link constraint is applied to a focus node, the focus node
* Otherwise, the document node of the target resource

If expression 2 is a Foxpath, its context node is the link target URI.

If expression 2 is an XPath, its context node is a node from the link target. More precisely, it is:

* If the link definition includes a target node expression (@targetXP), a link target node obtained from that expression
* Otherwise, it the link has a link target document, this document
* Otherwise, if the link target resource URI can be parsed into a node tree, that node tree
* Otherwise, an exception is thrown

If expression 2 is a Foxpath, its context node is the link target URI.

## Expression variable bindings

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## Check nodes

Table 1: Check nodes supported by foxvalue constraints.

|  |  |  |  |
| --- | --- | --- | --- |
| Check node path | Semantics | Example | Notes |
| @eq |  |  |  |
| @ne |  |  |  |
| @lt |  |  |  |
| @le |  |  |  |
| @gt |  |  |  |
| @ge |  |  |  |
| @matches |  |  |  |
| @notMatches |  |  |  |
| @like |  |  |  |
| @notLike |  |  |  |
| @length |  |  |  |
| @minLength |  |  |  |
| @maxLength |  |  |  |
| @datatype |  |  |  |
| in |  |  |  |
| notin |  |  |  |
| eqeq |  |  |  |
| contains |  |  |  |
| itemsUnique |  |  |  |
| count |  |  |  |
| minCount |  |  |  |
| maxCount |  |  |  |
| exists |  |  |  |
| empty |  |  |  |

## Options

Table 2. Options supported by foxvalue constraints.

|  |  |  |  |
| --- | --- | --- | --- |
| Node path | Semantics | Examkple | Notes |
| quant | If “some”, conformance requires at least all value items to satisfy the condition; if “all”, all value items must satisfy the condition. | quant="some"  quant="all" |  |
| useDatatype | Values to be compared are cast to this datatype. | useDatatype="integer"  useDatatype="decimal"  useDatatype="date" |  |
| flags |  |  |  |

## Usage examples

Example “folders-with-related-content”

Expectation: The contents of two folders are related in some way which can be checked by mapping both folders to a Foxpath value and comparing the values. For example, given two folders containing XSDs, the list of target namespaces found in the folder contents must be identical.