Refactoring XML documents with XQuery Update and XSLT

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Choose operation

Select a refactoring operation

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes (3)</td>
<td></td>
</tr>
<tr>
<td>Find and replace in attribute value</td>
<td>Searches for the given text fragment inside the attribute value and ...</td>
</tr>
<tr>
<td>Set attribute</td>
<td>Changes the value of an attribute or inserts a new one.</td>
</tr>
<tr>
<td>Remove attribute</td>
<td>Removes an attribute.</td>
</tr>
<tr>
<td>Elements (3)</td>
<td></td>
</tr>
<tr>
<td>Insert element</td>
<td>Inserts a new element at a specific location.</td>
</tr>
<tr>
<td>Rename element</td>
<td>Renames an element.</td>
</tr>
<tr>
<td>Unwrap element</td>
<td>Unwrap an element.</td>
</tr>
<tr>
<td>XML Fragment (1)</td>
<td></td>
</tr>
<tr>
<td>Insert XML fragment</td>
<td>Inserts an XML fragment at a specific location.</td>
</tr>
</tbody>
</table>
Configure operation parameters

Specify the parameters for the 'Remove attribute' operation

**Parent element**
- Name: <ANY>
- Namespace: <ANY>

**Attribute**
- Name: os
- Namespace: 
Select scope

XML Refactoring

Select the scope for the XML Refactoring operation

Scope
- Current File
- Project
- Selected project resources
- All opened files
- Current DITA Map hierarchy
- Opened archive

Working sets: Docbook profiling attributes

Filters
- Include files:

- Include only known XML file types
- Include archives

< Back  Preview  Finish  Cancel
Use cases

The XML Refactoring tool can address two types of use-cases:

- **simple changes** in XML document by using predefined operations
- **complex changes** that implies the creation of a custom operation
Change Attribute Value

Use the XML Refactoring tool to modify an entry from a multi-value attribute

```xml
<para os="linux;windows;mac">
    Before installing the photo…</para>
```

```xml
<para os="linux;win;mac">
    Before installing the photo…</para>
```
Rename an element

P: Convert the first bolded paragraph from a section to the section title.
S: Use the XML Refactoring to change the structure of an XML document by renaming and unwrapping an element.

```xml
<section>
  <p><b>Lock your phone</b></p>
  <p>To lock your phone, press the <term>Lock</term> key with this icon <image href="../image/Lock.jpg" id="image_pmp_g14_2g" height="1em"/></p>
</section>

<section>
  <title>L<font color="red">ock your phone</font></title>
  <p>To lock your phone, press the <term>Lock</term> key with this icon <image href="../image/Lock.jpg" id="image_pmp_g14_2g" height="1em"/></p>
</section>
```
Predefined operations

Attribute operations

- Set attribute
- Remove attribute
- Find and replace in attribute value

Element operations

- Insert element
- Rename element
- Wrap element
- Wrap element content
- Unwrap element
- Delete element
- Delete element content

XML fragment operations

- Insert XML fragment
- Replace element with XML fragment
- Replace element content with XML fragment
XML Refactoring process

XML Refactoring Operation

- XQuery update
- Descriptor

Load

XML Refactoring Tool

XML

XQuery Update Transformation
Convert an attribute to an element

P: Convert the `alt` attribute from an `image` to an element with the same name
S: Define a custom operation and use the XML Refactoring tool to execute it.

```
<image>
  href="..\image\insertBattery.jpg"
  alt="Insert the battery into the battery compartment."
  placement="break"/>
```

```
<image>
  href="..\image\insertBattery.jpg"
  placement="break">
  <alt>Insert the battery into the battery compartment.</alt>
</image>
```
Future plans

• Define **custom operations** by specifying **XSLT scripts**
• Allow users to **share** their **custom operations**
• Add **Favorites support**
• Allow querying the default attributes
Thank you!

Questions?

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