About the Author

Background:

- Software engineer.
- 10+ years XML technologies experience.
- 5+ years DITA experience.
Overview

Go through every item in the toolkit

Discuss results of DITA Usage Poll:
https://t.co/94pUgfQuYz
• Version control allows you to reuse content tagged at a certain point in time in order to produce older versions of your publications.
What tool are you using for version control and collaboration with your DITA project?

Answered: 44  Skipped: 0

- No particular tool
- Subversion
- Git
- Commercial CMS

Percentage distribution:
Publishing DITA content to different formats

- Reach larger audience.
- Convenience.
- List of available output formats is not fixed (eg: DITA->Word).
Check all output formats that you need to obtain from DITA content:

Answered: 44  Skipped: 0

- PDF: 100%
- Web output - XHTML based: 90%
- Eclipse Help: 20%
- Windows Help - CHM: 30%
- Java Help: 10%
- Other (please specify): 40%
Create larger publications from existing ones

- Merge multiple existing DITA Maps in various new publications.
Even if you have a single root map you can keep related sections in different DITA Maps.

<chapter href="chapter-author-dita.ditamap" collection-type="sequence" format="ditamap"/>
Reuse content for similar products
1. Use multiple root maps.

- Reuse entire topics.
- Define variable product names.
- Remap links and reused content using keys.
2. Use single root map.

- Define variable product names.
- Use profiling attributes to filter content at topic or element level.
Profiling At Topic Level
Choosing an installer

You have a choice of installers.

- The native installer for your platform. On Windows and Linux, the native installer can run also in unattended mode.
  product [author, developer, editor, svnClient]

- The All-platforms installer, which can be used on any supported platform.
  product [author, developer, editor, svnClient]

- The Update Site installation.
  product [authorEclipse, developerEclipse, editorEclipse]

- The Zip archive installation.
  product [authorEclipse, developerEclipse, editorEclipse]
DITA Profiling attributes

http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/archSpec/base/condproc.html#condproc

• Default profiling attributes: @audience, @deliveryTarget, @otherprops, @platform, and @props

• Custom profiling attribute names creating by specialization.
DITA Filtering

http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/containers/ditaval-elements.html

- Exclude elements based on various value combinations.
- Flag/Passthrough elements.
How many topics are in your DITA-based project?

Answered: 44    Skipped: 0

- 0-100
- 100-500
- 1000-2000
- 2000-3000
- 5000-10000
- 10000+
Reuse fragments of content

- Content references
- Content key references
- Content reference ranges
- Content push
- Key references
Content references

http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/archSpec/base/conref.html#conref

Reusable component

<ul id="minimum_cpu_usage">
  <li>Minimum - Intel Pentium III class processor, 1 <term>GHz</term>.</li>
  <li>Recommended - Dual Core class processor.</li>
</ul>

Conref

<ul conref="path/to/reusables.dita#topicID/minimum_cpu_usage"/>

CPU

- Minimum - Intel Pentium III™/AMD Athlon™ class processor, 1 GHz.
- Recommended - Dual Core class processor.
Tips

- Keep all your reused content in special topics located in special folders.
- Keep a description for each reused element.

<table>
<thead>
<tr>
<th>Shortcut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Alt + LeftArrow</code></td>
<td>Promotes the current node.</td>
</tr>
<tr>
<td><code>Alt + RightArrow</code></td>
<td>Demotes the current node.</td>
</tr>
<tr>
<td><code>Alt + Shift + Comma</code></td>
<td>Deletes the start and end tag of the current element (Eclipse).</td>
</tr>
<tr>
<td><code>Alt + Shift + ForwardSlash</code></td>
<td>Inserts the last tag used by the <code>Surround with tag</code> action (Eclipse).</td>
</tr>
<tr>
<td><code>Alt + Shift + E</code></td>
<td>Allows you to choose a tag that encloses a selected portion of content</td>
</tr>
<tr>
<td></td>
<td>(Eclipse).</td>
</tr>
<tr>
<td><code>Alt + Shift + Enter</code></td>
<td>Allows you to edit the attributes of the selected component in Design.</td>
</tr>
</tbody>
</table>
Content key references

<ul id="minimum_cpu_usage">
  <li>Minimum - Intel Pentium III class processor, 1 <term>GHz</term>.</li>
  <li>Recommended - Dual Core class processor.</li>
</ul>

<keydef keys="reusable.install" href="reusables/reusable.installation.dita"/>

<dd conkeyref="reusable.install/minimum_cpu_usage"/>

**CPU**

- Minimum - Intel Pentium III™/AMD Athlon™ class processor, 1 GHz.
- Recommended - Dual Core class processor.
Tips

- Use a special DITA Map for defining reusable keys
- Use conkeyrefs instead of conrefs.
Conrefs vs conkeyrefs?
### Content reference ranges

```
<steps>
  <step id="washing">
    <cmd>Wash the vegetables thoroughly.</cmd>
  </step>

  ....

  <step id="peeling">
    <cmd>Pass the peeler gently over the vegetable.</cmd>
  </step>
</steps>
```

```
<keydef keys="reusable_steps" href="reusable_steps.dita"/>
```

```
<steps>
  <step conkeyref="reusable_steps/washing" conrefend="default.dita#default/peeling">
    <cmd/>
  </step>
</steps>
```

1. Wash the vegetables thoroughly.
2. Put on some thick mittens.
3. Pass the peeler gently over the vegetable.
Key references (Variables)

Reuse simple variables like product name, executable, etc.

<!-- product name -->
<keydef keys="product" product="editor"/>

<title>Installation Options for Oxygen XML Editor</title>
Why push content?

Original Task

Cooking Book Publication

Push Extra Step For Experts

Resource-only task

Cooking Book for Pros Publication
Content push

Original steps

```xml
<steps>
  ..........  
  <step id="peeler_handling">
    <cmd>Pass the peeler gently over the vegetable.</cmd>
  </step>
</steps>
```

```xml
<keydef href="stepsPusher.dita" keys="peeling"/>
```

Conkeyref push

```xml
<steps>
  <step conaction="mark" conkeyref="peeling/peeler_handling">
    <cmd/>
  </step>
  <step conaction="pushafter">
    <cmd>Read the instructions.</cmd>
  </step>
</steps>
```

Preview

1. Wash the vegetables thoroughly.
2. Put on some thick mittens.
3. Pass the peeler gently over the vegetable.
4. Read the instructions.
Pushing content capabilities

http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/attributes/theconactionattribute.html

- Replace element.
- Push before.
- Push after element.
Please check all features that you are currently using:

Answered: 25   Skipped: 0

- Content Reference
- Content Key Reference
- Content Reference Push
- Key References
DITA 1.3 contributions to Reuse.

- Reuse topic with variable content depending on context (keysopes).
  
  http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/attributes/the-key-scope-attribute.html

- Reuse the same content profiled in various ways in the same publication (branch filtering).
  
  http://docs.oasis-open.org/dita/dita/v1.3/csprd01/part2-tech-content/langRef/base/ditavalref.html
Reuse with Key Scopes

<topicref href="phoneOverview.dita" keyscope="X1000Scope">
  <keydef keys="model">
    <topicmeta><keywords><keyword>X1000</keyword></keywords></topicmeta>
  </keydef>
</topicref>

<topicref href="phoneOverview.dita" keyscope="X2000Scope">
  <keydef keys="model">
    <topicmeta><keywords><keyword>X2000</keyword></keywords></topicmeta>
  </keydef>
</topicref>

Various key values in various scopes

X1000 Phone Overview
- Brief Specifications
- Available Colors and Accessories

X2000 Phone Overview
- Brief Specifications
- Available Colors and Accessories

Product key reference
Reuse with Branch Filtering

Merge two product documentation maps

..................
<topicref href="phoneDetails.ditamap" format="ditamap">
  <ditavalref href="ditaval/X1000Branch.ditaval">
    <ditavalmeta><dvrResourceSuffix>1</dvrResourceSuffix></ditavalmeta>
  </ditavalref>
</topicref>

..................
<topicref href="phoneDetails.ditamap" format="ditamap">
  <ditavalref href="ditaval/X2000Branch.ditaval">
    <ditavalmeta><dvrResourceSuffix>2</dvrResourceSuffix></ditavalmeta>
  </ditavalref>
</topicref>

..................
Please check all DITA 1.3 features that you plan to use:

Answered: 38   Skipped: 6

- Key Scopes
- Branch Filtering
- Trouble Shooting Topic
- MathML Support
- SVG Support
- Other (please specify)
Reuse non-DITA resources in multiple publications.

- Reuse images (href or keyref).
- Reuse videos.
- Reuse other resources (PDFs).

**Hints and Tips**

- Choose your image format wisely (suggestion: PNG).
- Try to scale images before referring to them.
Advantages of Content Reuse

• Reuse content in multiple similar publications.
• Consistent content (product names, notes, etc).
• Lower translation costs (with DITA-aware agencies).
Your opinion is important.
Thank You!

Questions?

Radu Coravu
radu_coravu@oxygenxml.com
@radu_coravu