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## Stage three: #36 Remove deprecated [▶] items [◀]

Remove [▶] items (elements, attributes, entities, and grammar files) [◀] that have been designated as deprecated, "reserved for future use," or defined by mistake and retained only to maintain backwards compatibility

### Champion

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### Tracking information

Event	Date	Links
Initial suggestion	6 June 2017	<a href="#">E-mail</a>
Stage 1 proposal accepted	6 June 2017	<a href="#">Minutes</a> <a href="#">GitHub issue</a>
Stage 2 proposal submitted	<ul style="list-style-type: none"><li>• #01: 1 February 2018</li><li>• #02: 19 February 2018</li><li>• #03: 26 February 2018</li></ul>	<ul style="list-style-type: none"><li>• <a href="#">DITA source</a></li><li>• HTML (e-mail to list):<ul style="list-style-type: none"><li>– <a href="#">01</a></li><li>– <a href="#">02</a></li><li>– <a href="#">03</a></li></ul></li></ul>
Stage 2 proposal discussed		Minutes of TC meetings: <ul style="list-style-type: none"><li>• <a href="#">06 February 2018</a></li><li>• <a href="#">13 February 2018</a></li><li>• <a href="#">20 February 2018</a></li></ul>
Stage 2 proposal approved	27 February 2018	Minutes of TC meeting: <a href="#">27 February 2018</a>
[▶] Revised Stage 2 proposal submitted to TC	<a href="#">27 September 2020</a>	[◀]
[▶] Revised stage 2 proposal approved		[◀]
Stage 3 proposal submitted to reviewers	27 February 2018; revised and resubmitted to reviewers on 1 March 2018 (based on feedback from Robert Anderson); revised and resubmitted to reviewers on 2 March 2018 (based on feedback from Stan Doherty).	<ul style="list-style-type: none"><li>• Robert Anderson</li><li>• Stan Doherty</li><li>• Nancy Harrison</li><li>• Keith Schengili-Roberts</li></ul>
Stage 3 proposal (this document) submitted to TC	02 March 2018	<a href="#">E-mail</a>
Stage 3 proposal discussed	06 March 2018	<a href="#">Minutes</a>
Stage 3 proposal approved	13 March 2018	<a href="#">Minutes</a>
[▶] Revised stage 3 proposal submitted to reviewer	<a href="#">27 September 2020</a>	<a href="#">Robert D. Anderson, Oracle</a> [◀]

Event	Date	Links
[▶] Revised stage 3 proposal submitted to TC	27 September 2020	[◀]
[▶] Revised stage 3 proposal approved		[◀]

## Approved technical requirements

Modify the grammar files and documentation to remove [▶] items (elements, attributes, grammar files, and entities) [◀] that have been designated as deprecated, "reserved for future use," or defined by mistake and retained only to maintain backwards compatibility.

[▶] See the stage two proposal for a complete list of items to be removed. [◀]

## Dependencies or interrelated proposals

None

### [▶] Removed grammar files [◀]

[▶] The following files must be removed [◀]

#### DTDs

[▶]

- glossary.dtd
- glossary.ent
- glossary.mod

[◀]

#### RNG

[▶]

- glossary.rng
- glossaryMod.rng

[◀]

## Modified grammar files

The following files must be modified:

#### DTDs

- commonElements.mod
- map.mod
- mapGroup.mod
- topic.mod

#### RNG

- commonElementsMod.rng
- mapMod.rng
- mapGroupMod.rng

- topicMod.rng

In the content below, the following conventions are used:

- Bold is used to indicate code to be added, for example, **addition**.
- Line-through and red text is used to indicate code to be removed, for example, ~~removal~~.
- Ellipses (...) indicate where code is snipped for brevity.

**Figure 1: Removing <boolean>**

commonElements.mod

```

<!ENTITY % basic.ph
    "%boolean; +
    %cite; |
    %keyword; |
    %ph; |
    %q; |
    %term; |
    %text; |
    %tm; |
    %xref; |
    %state;"
>
...
<!ENTITY % basic.ph.noxref.nocite
    "%boolean; +
    %keyword; |
    %ph; |
    %q; |
    %term; |
    %text; |
    %tm; |
    %state;"
>
...
<!ENTITY % basic.ph.notm
    "%boolean; +
    %cite; |
    %keyword; |
    %ph; |
    %q; |
    %term; |
    %text; |
    %xref; |
    %state;"
>
<!-- LONG NAME: Boolean (deprecated) -->
<del>ENTITY % boolean.content
    "EMPTY"
>
<del>ENTITY % boolean.attributes
    "state
    (no +
    yes +
    -dita-use-conref-target)
    #REQUIRED
    %univ-atts;
    outputclass
    CDATA
    #IMPLIED"
>
<del>ELEMENT boolean %boolean.content;>
<del>ATTLIST boolean %boolean.attributes;>

```

```

...
<!ATTLIST boolean %global-atts; class CDATA " topic/boolean " >

```

**Figure 2: Removing <boolean>**

commonElementsMod.rng

```

<div>
  <a:documentation>ELEMENT TYPE NAME PATTERNS</a:documentation>
  ...
  <define name="boolean">
  <ref name="boolean.element"/>
</define>
  ...
  <define name="basic.ph">
    <choice>
      <ref name="boolean"/>
      <ref name="cite"/>
      <ref name="keyword"/>
      <ref name="ph"/>
      <ref name="q"/>
      <ref name="term"/>
      <ref name="text" dita:since="1.3"/>
      <ref name="tm"/>
      <ref name="xref"/>
      <ref name="state"/>
    </choice>
  </define>
  ...
  <define name="basic.ph.noxref.nocite" dita:since="1.3">
    <choice>
      <ref name="boolean"/>
      <ref name="keyword"/>
      <ref name="ph"/>
      <ref name="q"/>
      <ref name="term"/>
      <ref name="text" dita:since="1.3"/>
      <ref name="tm"/>
      <ref name="state"/>
    </choice>
  </define>
  ...
  <define name="basic.ph.notm">
    <choice>
      <ref name="boolean"/>
      <ref name="cite"/>
      <ref name="keyword"/>
      <ref name="ph"/>
      <ref name="q"/>
      <ref name="term"/>
      <ref name="text" dita:since="1.3"/>
      <ref name="xref"/>
      <ref name="state"/>
    </choice>
  </define>
  ...
  <div>
  <a:documentation>LONG_NAME: Boolean (deprecated)</a:documentation>
  <define name="boolean.content">
    <empty/>
</define>
  <define name="boolean.attributes">
    <attribute name="state">
      <choice>
        <value>no</value>
        <value>yes</value>
        <value>dita-use-conref-target</value>
      </choice>
    </attribute>
    <ref name="univ-atts"/>
  <optional>
    <attribute name="outputclass"/>

```

```

----- </optional>
----- </define>
----- <define name="boolean.element">
-----   <element name="boolean" dita:longName="Boolean (deprecated)">
-----     <a:documentation>The <code><del>boolean</del></code> element is used to express one of two opposite
-----     values, such as yes or no, on or off, true or false, high or low, and so forth. The element
-----     itself is
-----     empty; the value of the element is stored in its state attribute, and the
-----     semantic associated with the value is typically in a specialized name derived from this
-----     element. Category:
-----     Specialization elements</a:documentation>
-----     <ref name="boolean.attlist"/>
-----     <ref name="boolean.content"/>
-----   </element>
----- </define>
----- <define name="boolean.attlist" combine="interleave">
-----   <ref name="boolean.attributes"/>
----- </define>

----- </div>
...
----- <define name="boolean.attlist" combine="interleave">
-----   <ref name="global-atts"/>
----- <optional>
-----   <attribute name="class" a:defaultValue="topic/boolean"/>
----- </optional>
----- </define>

```

Figure 3: Removing <indextermref>

commonElements.mod

```

<!ENTITY % txt.incl
      "%draft-comment; |
      %fn; |
----- %indextermref; |
      %indexterm; |
      %required-cleanup;"
>
...
<!-- LONG_NAME: Index term reference -->
<!ENTITY % indextermref.content
      "EMPTY"
>
<!ENTITY % indextermref.attributes
      "keyref
      CDATA
      #REQUIRED
      %univ-atts;"
>
<!ELEMENT indextermref %indextermref.content;>
<!ATTLIST indextermref %indextermref.attributes;>
...
<!ATTLIST indextermref %global-atts; class CDATA "topic/indextermref"

```

Figure 4: Removing <indextermref>

commonElementsMod.rng

```

<div>
  <a:documentation>ELEMENT TYPE NAME PATTERNS</a:documentation>
  ...
  <define name="indextermref">
----- <ref name="indextermref.element"/>
----- </define>
  ...
  <define name="txt.incl">
    <a:documentation>Inclusions: defined sets that can be added into appropriate models</a:documentation>
    <choice>
      <ref name="draft-comment"/>

```

```

    <ref name="fn"/>
    <del ref name="indextermref"/>
    <ref name="indexterm"/>
    <ref name="required-cleanup"/>
  </choice>
</define>
...
<div>
  <del a:documentation>LONG NAME: Index term reference</a:documentation>
  <del define name="indextermref.content">
    <del empty/>
  </del>
  <del define name="indextermref.attributes">
    <del attribute name="keyref"/>
    <del ref name="univ-attns"/>
  </del>
  <del define name="indextermref.element">
    <del element name="indextermref" dita:longName="Index term reference">
      <del a:documentation>This element is not completely defined, and is reserved for
future use. Category: Miscellaneous elements</a:documentation>
      <del ref name="indextermref.attlist"/>
      <del ref name="indextermref.content"/>
    </del>
  </del>
  <del define name="indextermref.attlist" combine="interleave">
    <del ref name="indextermref.attributes"/>
  </del>
</div>
...
  <del define name="indextermref.attlist" combine="interleave">
    <del ref name="global-attns"/>
    <del optional>
      <del attribute name="class" a:defaultValue="- topic/indextermref -"/>
    </del>
  </del>

```

Figure 5: Removing @alt and @longdescref on <image>

commonElements.mod

```

<!ENTITY % image.attributes
  "href
      CDATA #IMPLIED
  scope
      (external |
       local |
       peer |
       -dita-use-conref-target)
      #IMPLIED
  keyref
      CDATA #IMPLIED
  alt
      CDATA #IMPLIED
  longdescref
      CDATA #IMPLIED
  height
      NMTOKEN #IMPLIED
  width
      NMTOKEN #IMPLIED
  align
      CDATA #IMPLIED
  scale
      NMTOKEN #IMPLIED
  scalefit

```

```

        (yes |
         no |
         -dita-use-conref-target)
        #IMPLIED

    placement
        (break |
         inline |
         -dita-use-conref-target)
        'inline'

    %univ-atts;
    outputclass
        CDATA
        #IMPLIED"
>

```

**Figure 6: Removing @alt and @longdescref on <image>**

commonElementsMod.rng

```

<define name="image.attributes">
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="scope">
      <choice>
        <value>external</value>
        <value>local</value>
        <value>peer</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="alt"/>
  </optional>
  <optional>
    <attribute name="longdescref"/>
  </optional>
    <optional>
      <attribute name="height">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <optional>
      <attribute name="width">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <optional>
      <attribute name="align"/>
    </optional>
    <optional>
      <attribute name="scale">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <optional>
      <attribute name="scalefit">
        <choice>
          <value>yes</value>
          <value>no</value>
          <value>-dita-use-conref-target</value>
        </choice>
      </attribute>
    </optional>
    <optional>
      <attribute name="placement" a:defaultValue="inline">
        <choice>

```

```

        <value>break</value>
        <value>inline</value>
        <value>-dita-use-conref-target</value>
    </choice>
</attribute>
</optional>
<optional>
    <attribute name="format" dita:since="1.3 errata 02"/>
</optional>
<ref name="univ-atts"/>
<optional>
    <attribute name="outputclass"/>
</optional>
</define>

```

**Figure 7: Removing @chunk="to-navigation"**

No changes are needed to the grammar files.

**Figure 8: Removing @collection-type="tree" on <linkpool> and <linklist>**

The only changes required are to the DTDs.

topic.mod

```

<!ENTITY % linklist.attributes
    "collection-type
        (choice |
         family |
         sequence |
         unordered |
         -dita-use-conref-target+
         tree)
        #IMPLIED
    duplicates
        (no |
         yes |
         -dita-use-conref-target)
        #IMPLIED
    mapkeyref
        CDATA
        #IMPLIED
    %relational-atts;
    %univ-atts;
    spectitle
        CDATA
        #IMPLIED
    outputclass
        CDATA
        #IMPLIED"
>

```

```

<!ENTITY % linkpool.attributes
    "collection-type
        (choice |
         family |
         sequence |
         unordered |
         -dita-use-conref-target+
         tree)
        #IMPLIED
    duplicates
        (no |
         yes |
         -dita-use-conref-target)
        #IMPLIED
    mapkeyref
        CDATA
        #IMPLIED
    %relational-atts;
    %univ-atts;

```



```

outputclass
    CDATA
    #IMPLIED"
>

```

**Figure 9: Removing @collection-type on <reltable> and <relcolspec>**

map.mod

Adding a new attribute group:

```

<!ENTITY % topicref-atts-for-reltable
    "type
        CDATA
        #IMPLIED
    cascade
        CDATA
        #IMPLIED
    processing-role
        (normal |
         resource-only |
         -dita-use-conref-target)
        #IMPLIED
    scope
        (external |
         local |
         peer |
         -dita-use-conref-target)
        #IMPLIED
    locktitle
        (no |
         yes |
         -dita-use-conref-target)
        #IMPLIED
    format
        CDATA
        #IMPLIED
    linking
        (none |
         normal |
         sourceonly |
         targetonly |
         -dita-use-conref-target)
        #IMPLIED
    toc
        (no |
         yes |
         -dita-use-conref-target)
        'no'
    print
        (no |
         printonly |
         yes |
         -dita-use-conref-target)
        #IMPLIED
    search
        (no |
         yes |
         -dita-use-conref-target)
        #IMPLIED
    chunk
        CDATA
        #IMPLIED"
>

```

Modifying declarations for <reltable> and <relcolspec>:

```

<!ENTITY % reltable.attributes
    "title
        CDATA
        #IMPLIED

```

```

        outputclass
            CDATA
                #IMPLIED
                %topicref-atts-no-toc-no-keyscope;
                %topicref-atts-for-reltable;
                %univ-atts;"
    >
    ...
<!ENTITY % relcolspec.attributes
    "outputclass
        CDATA
            #IMPLIED
            %topicref-atts-no-toc-no-keyscope;
            %topicref-atts-for-reltable;
            %univ-atts;"
    >

```

**Figure 10: Removing @collection-type on <reltable> and <relcolspec>**

mapMod.rng

Adding a new attribute group for use on <reltable> and <relcolspec>:

```

<define name="topicref-atts-for-reltable" dita:since="2.0">
    <optional>
        <attribute name="type"/>
    </optional>
    <optional>
        <attribute name="cascade" dita:since="1.3"/>
    </optional>
    <optional>
        <attribute name="processing-role">
            <choice>
                <value>normal</value>
                <value>resource-only</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="scope">
            <choice>
                <value>external</value>
                <value>local</value>
                <value>peer</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="locktitle">
            <choice>
                <value>no</value>
                <value>yes</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="format"/>
    </optional>
    <optional>
        <attribute name="linking">
            <choice>
                <value>none</value>
                <value>normal</value>
                <value>sourceonly</value>
                <value>targetonly</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
</define>

```

```

<optional>
  <attribute name="toc" a:defaultValue="no">
    <choice>
      <value>no</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="search">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="chunk"/>
</optional>
</define>

```

mapMod.rng

Modifying declarations for <reltable> and <relcolspec>; changes indicated in bold.

```

<define name="reltable.attributes">
  <optional>
    <attribute name="title"/>
  </optional>
  <optional>
    <attribute name="outputclass"/>
  </optional>
  <ref name="topicref-atts-no-toc-no-keyscope"/>
  <b><ref name="topicref-atts-for-reltable"/></b>
  <ref name="univ-atts"/>
</define>
...
<define name="relcolspec.attributes">
  <optional>
    <attribute name="outputclass"/>
  </optional>
  <ref name="topicref-atts-no-toc-no-keyscope"/>
  <b><ref name="topicref-atts-for-reltable"/></b>
  <ref name="univ-atts"/>
</define>

```

Figure 11: Removing @keyref on <navref>

map.mod

```

<!ENTITY % navref.attributes
  "%univ-atts;
  keyref
  CDATA
  #IMPLIED
  mapref
  CDATA
  #IMPLIED
  outputclass
  CDATA

```

```
> #IMPLIED"
```

Figure 12: Removing @keyref on <navref>

mapMod.rng

```
<define name="navref.attributes">
  <ref name="univ-atts"/>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="mapref"/>
  </optional>
  <optional>
    <attribute name="outputclass"/>
  </optional>
</define>
```

Figure 13: Removing @locktitle on <topichead> and <topicgroup>

map.mod

Add a new attribute entity

```
<!ENTITY % topicref-atts-no-locktitle
"collection-type
    (choice |
     family |
     sequence |
     unordered |
     -dita-use-conref-target)
    #IMPLIED
type
    CDATA
    #IMPLIED
cascade
    CDATA
    #IMPLIED
processing-role
    (normal |
     resource-only |
     -dita-use-conref-target)
    #IMPLIED
scope
    (external |
     local |
     peer |
     -dita-use-conref-target)
    #IMPLIED
format
    CDATA
    #IMPLIED
linking
    (none |
     normal |
     sourceonly |
     targetonly |
     -dita-use-conref-target)
    #IMPLIED
toc
    (no |
     yes |
     -dita-use-conref-target)
    #IMPLIED
print
    (no |
     printonly |
     yes |
     -dita-use-conref-target)
```

```

                #IMPLIED
        search
            (no |
             yes |
             -dita-use-conref-target)
            #IMPLIED
        chunk
            CDATA
            #IMPLIED
        keyscope
            CDATA
            #IMPLIED"
>

```

mapGroup.mod

```

<!ENTITY % topichead.attributes
    "navtitle
        CDATA
        #IMPLIED
    outputclass
        CDATA
        #IMPLIED
    keys
        CDATA
        #IMPLIED
    copy-to
        CDATA
        #IMPLIED
    %topicref-atts;
    %topicref-atts-no-locktitle;
    %univ-atts;"
>
...
<!ENTITY % topicgroup.attributes
    "outputclass
        CDATA
        #IMPLIED
    %topicref-atts;
    %topicref-atts-no-locktitle;
    %univ-atts;"
>

```

Figure 14: Removing @locktitle on <topichead> and <topicgroup>

mapMod.rng

Add a new attribute entity

```

<define name="topicref-atts-no-locktitle">
    <optional>
        <attribute name="collection-type">
            <choice>
                <value>choice</value>
                <value>family</value>
                <value>sequence</value>
                <value>unordered</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="type"/>
    </optional>
    <optional>
        <attribute name="cascade" dita:since="1.3"/>
    </optional>
    <optional>
        <attribute name="processing-role">
            <choice>
                <value>normal</value>

```

```

        <value>resource-only</value>
        <value>-dita-use-conref-target</value>
    </choice>
</attribute>
</optional>
<optional>
    <attribute name="scope">
        <choice>
            <value>external</value>
            <value>local</value>
            <value>peer</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="format"/>
</optional>
<optional>
    <attribute name="linking">
        <choice>
            <value>none</value>
            <value>normal</value>
            <value>sourceonly</value>
            <value>targetonly</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="toc">
        <choice>
            <value>no</value>
            <value>yes</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="print">
        <choice>
            <value>no</value>
            <value>printonly</value>
            <value>yes</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="search">
        <choice>
            <value>no</value>
            <value>yes</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="chunk"/>
</optional>
<optional>
    <attribute name="keyscope" dita:since="1.3"/>
</optional>
</define>

```

mapGroupDomain.rng

```

<define name="topichead.attributes">
    <optional>
        <attribute name="navtitle"/>
    </optional>
    <optional>
        <attribute name="outputclass"/>
    </optional>

```

```

</optional>
<optional>
  <attribute name="keys"/>
</optional>
<optional>
  <attribute name="copy-to"/>
</optional>
<ref name="topicref-atts"/>
<ref name="topicref-atts-no-locktitle">
  <ref name="univ-atts"/>
</define>
...
<define name="topicgroup.attributes">
  <optional>
    <attribute name="outputclass"/>
  </optional>
  <ref name="topicref-atts"/>
  <ref name="topicref-atts-no-locktitle">
    <ref name="univ-atts"/>
  </define>

```

Figure 15: Removing @navtitle

map.mod

```

<!ENTITY % topicref.attributes
  "navtitle
  CDATA
  #IMPLIED
  href
  CDATA
  #IMPLIED
  keyref
  CDATA
  #IMPLIED
  keys
  CDATA
  #IMPLIED
  query
  CDATA
  #IMPLIED
  copy-to
  CDATA
  #IMPLIED
  outputclass
  CDATA
  #IMPLIED
  %topicref-atts;
  %univ-atts;"
>

```

Figure 16: Removing @navtitle

mapMod.rng

```

<define name="topicref.attributes">
  <optional>
    <attribute name="navtitle"/>
  </optional>
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="keys"/>
  </optional>
  <optional>
    <attribute name="query"/>
  </optional>

```

```

<optional>
  <attribute name="copy-to"/>
</optional>
<optional>
  <attribute name="outputclass"/>
</optional>
<ref name="topicref-atts"/>
<ref name="univ-atts"/>
</define>

```

**Figure 17: Removing @print**

map.mod

Remove the following code:

```

print
    (no |
    printonly |
    yes |
    -dita-use-conref-target)
    #IMPLIED

```

From the following entities:

- %topicref-atts;
- %topicref-atts-no-toc;
- %topicref-atts-no-toc-no-keyscope;
- %topicref-atts-without-format;

**Figure 18: Removing @print**

mapMod.rng

Remove the following code:

```

optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>

```

From the following entities:

- %topicref-atts;
- %topicref-atts-no-toc;
- %topicref-atts-no-toc-no-keyscope;
- %topicref-atts-without-format;

**Figure 19: Removing @query**

map.mod

```

<!ENTITY % topicref.attributes
  "navtitle
    CDATA
    href
    CDATA
    #IMPLIED

```



```

keyref          #IMPLIED
                CDATA
keys            #IMPLIED
                CDATA
query          #IMPLIED
                CDATA
copy-to        #IMPLIED
                CDATA
outputclass    #IMPLIED
                CDATA
%topicref-atts;
%univ-atts;"
>

```

mapGroup.mod

Remove the following code:

```

query          #IMPLIED
                CDATA

```

From the following entities:

- %anchorref.attributes;
- %mapref.attributes;
- %topicset.attributes;
- %topicsetref.attributes;
- %keydef.attributes;

topic.mod

```

<!ENTITY % link.attributes
"href          CDATA          #IMPLIED
keyref         CDATA          #IMPLIED
query         CDATA          #IMPLIED
%relational-atts;
%univ-atts;
outputclass   CDATA          #IMPLIED"
>

```

**Figure 20: Removing @query**

mapMod.rng

Remove the following code:

```

<optional>
  <attribute name="query"/>
</optional>

```

From the following entities:

- %anchorref.attributes;
- %mapref.attributes;
- %topicset.attributes;
- %topicsetref.attributes;
- %keydef.attributes;

```

<define name="topicref.attributes">
  <optional>
    <attribute name="navtitle"/>
  </optional>
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="keys"/>
  </optional>
  <optional>
<attribute name="query"/>
</optional>
  <optional>
    <attribute name="copy-to"/>
  </optional>
  <optional>
    <attribute name="outputclass"/>
  </optional>
  <ref name="topicref-atts"/>
  <ref name="univ-atts"/>
</define>

```

#### mapGroupDomain.rng

```

<define name="anchorref.attributes">
  <optional>
    <attribute name="navtitle"/>
  </optional>
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="keys"/>
  </optional>
  <optional>
    <attribute name="keyscope" dita:since="1.3"/>
  </optional>
  <optional>
<attribute name="query"/>
</optional>
  <optional>
    <attribute name="copy-to"/>
  </optional>
  <optional>
    <attribute name="outputclass"/>
  </optional>
  <optional>
    <attribute name="collection-type">
      <choice>
        <value>choice</value>
        <value>family</value>
        <value>sequence</value>
        <value>unordered</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>

```

```

</optional>
<optional>
  <attribute name="processing-role">
    <choice>
      <value>normal</value>
      <value>resource-only</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="type" a:defaultValue="anchor"/>
</optional>
<optional>
  <attribute name="cascade" dita:since="1.3"/>
</optional>
<optional>
  <attribute name="scope">
    <choice>
      <value>external</value>
      <value>local</value>
      <value>peer</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="locktitle">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="format" a:defaultValue="ditamap"/>
</optional>
<optional>
  <attribute name="linking">
    <choice>
      <value>none</value>
      <value>normal</value>
      <value>sourceonly</value>
      <value>targetonly</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="toc">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="search">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>

```

```

        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="chunk"/>
</optional>
<ref name="univ-atts"/>
</define>
...
<define name="mapref.attributes">
    <optional>
        <attribute name="navtitle"/>
    </optional>
    <optional>
        <attribute name="href"/>
    </optional>
    <optional>
        <attribute name="keyref"/>
    </optional>
    <optional>
        <attribute name="keys"/>
    </optional>
<optional>
<attribute name="query"/>
</optional>
    <optional>
        <attribute name="copy-to"/>
    </optional>
    <optional>
        <attribute name="outputclass"/>
    </optional>
    <optional>
        <attribute name="format" a:defaultValue="ditamap"/>
    </optional>
    <ref name="topicref-atts-without-format"/>
    <ref name="univ-atts"/>
</define>
...
<define name="topicset.attributes">
    <optional>
        <attribute name="navtitle"/>
    </optional>
    <optional>
        <attribute name="href"/>
    </optional>
    <optional>
        <attribute name="keyref"/>
    </optional>
    <optional>
        <attribute name="keys"/>
    </optional>
    <optional>
        <attribute name="keyscope" dita:since="1.3"/>
    </optional>
<optional>
<attribute name="query"/>
</optional>
    <optional>
        <attribute name="copy-to"/>
    </optional>
    <optional>
        <attribute name="outputclass"/>
    </optional>
    <optional>
        <attribute name="collection-type">
            <choice>
                <value>choice</value>
                <value>family</value>
                <value>sequence</value>
                <value>unordered</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>

```

```

<optional>
  <attribute name="processing-role">
    <choice>
      <value>normal</value>
      <value>resource-only</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="type"/>
</optional>
<optional>
  <attribute name="cascade" dita:since="1.3"/>
</optional>
<optional>
  <attribute name="scope">
    <choice>
      <value>external</value>
      <value>local</value>
      <value>peer</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="locktitle">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="format"/>
</optional>
<optional>
  <attribute name="linking">
    <choice>
      <value>none</value>
      <value>normal</value>
      <value>sourceonly</value>
      <value>targetonly</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="toc">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="search">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>

```

```

        </attribute>
    </optional>
    <optional>
        <attribute name="chunk"/>
    </optional>
    <attribute name="id">
        <data type="NMTOKEN"/>
    </attribute>
    <ref name="conref-atts"/>
    <ref name="select-atts"/>
    <ref name="localization-atts"/>
</define>
...
<define name="topicsetref.attributes">
    <optional>
        <attribute name="navtitle"/>
    </optional>
    <optional>
        <attribute name="href"/>
    </optional>
    <optional>
        <attribute name="keyref"/>
    </optional>
    <optional>
        <attribute name="keys"/>
    </optional>
    <optional>
        <attribute name="keyscope" dita:since="1.3"/>
    </optional>
    <optional>
<attribute name="query"/>
    </optional>
    <optional>
        <attribute name="copy-to"/>
    </optional>
    <optional>
        <attribute name="outputclass"/>
    </optional>
    <optional>
        <attribute name="collection-type">
            <choice>
                <value>choice</value>
                <value>family</value>
                <value>sequence</value>
                <value>unordered</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="processing-role">
            <choice>
                <value>normal</value>
                <value>resource-only</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>
    <optional>
        <attribute name="type" a:defaultValue="topicset"/>
    </optional>
    <optional>
        <attribute name="cascade" dita:since="1.3"/>
    </optional>
    <optional>
        <attribute name="scope">
            <choice>
                <value>external</value>
                <value>local</value>
                <value>peer</value>
                <value>-dita-use-conref-target</value>
            </choice>
        </attribute>
    </optional>

```

```

<optional>
  <attribute name="locktitle">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="format" a:defaultValue="ditamap"/>
</optional>
<optional>
  <attribute name="linking">
    <choice>
      <value>none</value>
      <value>normal</value>
      <value>sourceonly</value>
      <value>targetonly</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="toc">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="search">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="chunk"/>
</optional>
<ref name="univ-atts"/>
</define>
...
<define name="keydef.attributes">
  <optional>
    <attribute name="navtitle"/>
  </optional>
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <attribute name="keys"/>
  <optional>
    <attribute name="keyscope" dita:since="1.3"/>
  </optional>
  <optional>
    <attribute name="query"/>
  </optional>

```

```

<optional>
  <attribute name="copy-to"/>
</optional>
<optional>
  <attribute name="outputclass"/>
</optional>
<optional>
  <attribute name="collection-type">
    <choice>
      <value>choice</value>
      <value>family</value>
      <value>sequence</value>
      <value>unordered</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="processing-role" a:defaultValue="resource-only">
    <choice>
      <value>normal</value>
      <value>resource-only</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="type"/>
</optional>
<optional>
  <attribute name="cascade" dita:since="1.3"/>
</optional>
<optional>
  <attribute name="scope">
    <choice>
      <value>external</value>
      <value>local</value>
      <value>peer</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="locktitle">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="format"/>
</optional>
<optional>
  <attribute name="linking">
    <choice>
      <value>none</value>
      <value>normal</value>
      <value>sourceonly</value>
      <value>targetonly</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="toc">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>

```



```

<optional>
  <attribute name="print">
    <choice>
      <value>no</value>
      <value>printonly</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="search">
    <choice>
      <value>no</value>
      <value>yes</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="chunk"/>
</optional>
<ref name="univ-atts"/>
</define>

```

topicMod.rng

```

<define name="link.attributes">
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
  <optional>
    <attribute name="query"/>
</optional>
    <ref name="relational-atts"/>
    <ref name="univ-atts"/>
  <optional>
    <attribute name="outputclass"/>
  </optional>
</define>

```

Figure 21: Removing @refcols

commonElements.mod

```

<!ENTITY % simpletable.attributes
  "relcolwidth
          CDATA
          #IMPLIED
  keycol
          NMTOKEN
          #IMPLIED
  refcols
          NMTOKENS
          #IMPLIED
  %display-atts;
  spectitle
          CDATA
          #IMPLIED
  %univ-atts;
  outputclass
          CDATA

```

```
> #IMPLIED"
```

Figure 22: Removing @refcols

commonElementsMod.rng

```
<define name="simpletable.attributes">
  <optional>
    <attribute name="relcolwidth"/>
  </optional>
  <optional>
    <attribute name="keycol">
      <data type="NMTOKEN"/>
    </attribute>
  </optional>
  <optional>
    <attribute name="refcols">
      <data type="NMTOKENS"/>
    </attribute>
  </optional>
  <ref name="display-atts"/>
  <optional>
    <attribute name="spectitle"/>
  </optional>
  <ref name="univ-atts"/>
  <optional>
    <attribute name="outputclass"/>
  </optional>
</define>
```

Figure 23: Removing @role="sample" and @role="external"

topic.mod

```
<!ENTITY % relational-atts
  "type
    CDATA #IMPLIED
    cascade CDATA #IMPLIED
    format CDATA #IMPLIED
    scope CDATA #IMPLIED
    role (external |
         local |
         peer |
         -dita-use-conref-target)
         #IMPLIED
    (ancestor |
     child |
     cousin |
     descendant |
    external |
     friend |
     next |
     other |
     parent |
     previous |
    sample |
     sibling |
     -dita-use-conref-target)
         #IMPLIED
    otherrole CDATA #IMPLIED"
```

```

" type
    CDATA
    #IMPLIED
    role
        (ancestor |
         child |
         cousin |
         descendant |
         external |
         friend |
         next |
         other |
         parent |
         previous |
         sample |
         sibling |
         -dita-use-conref-target)
    #IMPLIED
    otherrole
    CDATA
    #IMPLIED"
>

```

Figure 24: Removing @role="sample" and @role="external"

topicMod.rng

```

<define name="relational-atts">
  <optional>
    <attribute name="type"/>
  </optional>
  <optional>
    <attribute name="cascade" dita:since="1.3"/>
  </optional>
  <optional>
    <attribute name="format"/>
  </optional>
  <optional>
    <attribute name="scope">
      <choice>
        <value>external</value>
        <value>local</value>
        <value>peer</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="role">
      <choice>
        <value>ancestor</value>
        <value>child</value>
        <value>cousin</value>
        <value>descendant</value>
        <value>external</value>
        <value>friend</value>
        <value>next</value>
        <value>other</value>
        <value>parent</value>
        <value>previous</value>
        <value>sample</value>
        <value>sibling</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="otherrole"/>
  </optional>
</define>
<define name="rel-atts">
  <a:documentation>rel-atts is deprecated as of DITA 1.2, retained for backward

```

```

compatibility.</a:documentation>
  <optional>
    <attribute name="type"/>
  </optional>
  <optional>
    <attribute name="role">
      <choice>
        <value>ancestor</value>
        <value>child</value>
        <value>cousin</value>
        <value>descendant</value>
        <value>external</value>
        <value>friend</value>
        <value>next</value>
        <value>other</value>
        <value>parent</value>
        <value>previous</value>
        <value>sample</value>
        <value>sibling</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="otherrole"/>
  </optional>
</define>

```

Figure 25: Removing @title on <map>

map.mod

```

<!ENTITY % map.attributes
  "title
  _____ CDATA
  _____ #IMPLIED
  id
  ID
  #IMPLIED
  %conref-atts;
  anchorref
  CDATA
  #IMPLIED
  outputclass
  CDATA
  #IMPLIED
  %localization-atts;
  %topicref-atts;
  %select-atts;"
>

```

Figure 26: Removing @title on <map>

mapMod.rng

```

<define name="map.attributes">
  <optional>
    <attribute name="title"/>
  </optional>
  <optional>
    <attribute name="id">
      <data type="ID"/>
    </attribute>
  </optional>
  <ref name="conref-atts"/>
  <optional>
    <attribute name="anchorref"/>
  </optional>
  <optional>
    <attribute name="outputclass"/>
  </optional>

```

```

<ref name="localization-atts"/>
<ref name="topicref-atts"/>
<ref name="select-atts"/>
</define>

```

**Figure 27: Removing @type="internal" and @type="external" on <Iq>**

No changes are required to `commonElements.mod`.

**Figure 28: Removing @type="internal" and @type="external" on <Iq>**

No changes are required to `commonElementsMod.rng`.

**Figure 29: [▶] Removing &nbsp; ; [◀]**

[▶] `topic.mod` [◀]

```

[▶] ...
<!-- =====>
<!-- COMMON ENTITY DECLARATIONS
<----->
<!-- Use of this entity is deprecated, the nbsp entity will be
removed in DITA 2.0.
<!-- ENTITY nbsp "&#xA0;"
... [◀]

```

## Modified terminology

None

## Modified specification documentation

The following architectural spec topics need to be modified as indicated:

- 2.2.2.4 DITA map attributes
  - In @collection-type, remove "Where the @collection-type attribute is available on elements that cannot directly contain elements (such as <reltable> or <topicref>), the behavior of the attribute is reserved for future use."
  - Remove @navtitle entry
  - In @locktitle, remove note about @navtitle
- 2.2.2.5.4 Example: How the @cascade attribute functions: Remove @navtitle from example
- 2.2.3.6 Scaling a list of controlled values to define a taxonomy: Remove @navtitle from example
- 2.2.3.8.1 Example: How hierarchies defined in a subject scheme map affect filtering: Remove @navtitle from example
- 2.2.3.8.2 Example: Extending a subject scheme: Remove @navtitle from example
- 2.2.3.8.3 Example: Extending a subject scheme upwards: Remove @navtitle from example
- 2.2.4.2.1 Conditional processing attributes: In @deliveryTarget, remove "This attribute is a replacement for the now deprecated @print attribute."
- 2.2.4.4 Cascading of metadata attributes in a DITA map: Remove mention of @print
- 2.2.4.5 Reconciling topic and map metadata elements: Remove @navtitle from example

- 2.2.4.6.1 Cascading of attributes from map to map: Remove mention of @print from text and example
- 2.3.4.9 Processing key references to generate text or link text: Remove "(such as @alt on the <image>element)"
- 2.4.1.1 Table of contents: Remove list item about @print
- 2.4.3.4 Conditional processing to generate multiple deliverable types
  - Remove "The map or topic references can still use the deprecated @print attribute to indicate whether they are applicable to print deliverables."
  - In @deliveryTarget, This attribute is a replacement for the now deprecated print attribute. "
  - Remove entry for @print
- 2.4.5.2 Chunking examples: Remove value of "to-navigation"
- 2.6.3.3 DTD: Coding requirements for element type declarations: Modify declaration of topichead.attributes to include new attribute group entity defined to exclude collection-type
- 2.6.4.3 RELAX NG: Coding requirements for element type declarations: Modify declaration of topichead.attributes to include new attribute group entity defined to exclude collection-type

The following element-reference topics need to be removed:

- 3.7.1 <boolean>
- 3.4.2.2 <indextermref>

The following element-reference topics need to be modified as indicated:

- 3.1 Base DITA elements, A to Z: Remove links to <boolean> and <indextermref>
- 3.2.1.5 <navtitle>: Remove mentions of @navtitle
- 3.2.2.1 <alt>: Remove mention of @alt from the short description
- 3.2.2.17 <image>: Remove @alt and @longdescref
- 3.2.2.23 <lq>: Remove "internal" and "external" as specified values for the @type attribute
- 3.2.2.25 <object>: Remove @longdescref
- 3.2.4.1 <link>: Remove @query
- 3.2.4.2 <linklist>: Remove paragraph about "tree" as a value for @collection-type
- 3.2.4.3 <linkpool>: Remove paragraph about "tree" as a value for @collection-type
- 3.3.1.5 <navref>: Remove @keyref
- 3.3.1.1 <map>: Remove @title
- 3.3.1.6 <reltable>: Modify attributes section to indicate that <reltable> does not have @collection-type
- 3.3.1.10 <relcolspec>: Modify attributes section to indicate that <relcolspec> does not have @collection-type
- 3.3.2.4 <topicgroup>: Modify attributes section to indicate that <topicgroup> does not have @locktitle
- 3.3.2.5 <topichead>: Modify attributes section to indicate that <topichead> does not have @locktitle
- 3.4.1.22 <resourceid>: Remove paragraph about deprecated usage of @id
- 3.5.1.3 <hazardsymbol>: Remove @longdescref
- 3.6.1.2 <schemeref>: Remove mention of @navtitle
- 3.6.1.15 <relatedSubjects>: Remove mention of @navtitle from text AND the example
- 3.6.2.2 <topicapply>: Remove mention of @navtitle

- 3.10.1.2 Metadata attribute group: In description of @deliveryTarget, remove mention of @print
- 3.10.3 Attributes common to many map elements:
  - Remove the following paragraph: "Usage of the @collection-type attribute on <relatable> and <relcolspec> is currently undefined and reserved for future use."
  - Remove @print
- 3.10.10 Simpletable attribute group: Remove @refcols
- 3.10.12 Topicref element attributes group: Remove @navtitle and @query
- 3.10.13.5.1 Using the -dita-use-conref-target value: Remove note about @navtitle and usage of @navtitle in the examples
- 3.10.13.12 The @role and @otherrole attributes: Remove values of "sample" and "external"
- B.6 Element-by-element recommendations for translators
  - In "Topic elements," remove rows for <boolean> and <indextermref>
  - In "Topic elements," remove @alt on <image>
  - In "Map elements," remove paragraph about @navtitle
  - In "Map elements," remove @title on <map> and footnote 8
  - In "Subject scheme elements," remove mentions of @navtitle
  - Remove footnote 5 about @alt on <image>

The following element-reference topics contain examples that must be modified to remove instances of @navtitle. The @navtitle attribute can be removed (and the file name made more descriptive) or replaced by either an XML comment or a <navtitle> element.

- 3.3.1.4 <anchor>
- 3.3.2.3 <mapref>
- 3.4.1.14 <metadata>
- 3.6.1.1 <subjectScheme>
- 3.6.1.3 <hasInstance>
- 3.6.1.4 <hasKind>
- 3.6.1.5 <hasNarrower>
- 3.6.1.6 <hasPart>
- 3.6.1.7 <hasRelated>
- 3.6.1.8 <enumerationdef>
- 3.6.1.10 <attributedef>
- 3.6.1.14 <subjectdef>
- 3.6.2.1 <subjectref>
- 3.6.2.3 <topicsubject>
- 3.6.2.4 <topicSubjectTable>

The following table contains precise suggestions for the changes to be made.

Topic	DITA 1.3 content	DITA 2.0 content
3.3.1.4 <anchor>	<pre>&lt;map&gt;   &lt;title&gt;MyComponent tasks&lt;/title&gt;   &lt;topicref navtitle="Start here" href="start.dita" toc="yes"&gt;</pre>	<pre>&lt;map&gt;   &lt;title&gt;MyComponent tasks&lt;/title&gt;   &lt;topicref href="start.dita" toc="yes"&gt;     &lt;navref</pre>

Topic	DITA 1.3 content	DITA 2.0 content
	<pre data-bbox="626 289 990 447">&lt;navref mapref="othermap2.ditamap"/&gt; &lt;navref mapref="othermap3.ditamap"/&gt; &lt;anchor id="a1"/&gt; &lt;/topicref&gt; &lt;/map&gt;</pre>	<pre data-bbox="1039 289 1403 426">mapref="othermap2.ditamap"/&gt; &lt;navref mapref="othermap3.ditamap"/&gt; &lt;anchor id="a1"/&gt; &lt;/topicref&gt; &lt;/map&gt;</pre>
3.3.2.3 <mapref>	<p data-bbox="610 491 951 554"><b>Figure 30: Map that reuses lib.ditamap</b></p> <pre data-bbox="626 596 951 800">&lt;map id="standardlib"&gt; &lt;topichead navtitle="Developing with standard libraries"&gt; &lt;mapref href="lib.ditamap"/&gt; &lt;/topichead&gt; &lt;!-- ... --&gt; &lt;/map&gt;</pre>	<p data-bbox="1023 491 1364 554"><b>Figure 31: Map that reuses lib.ditamap</b></p> <pre data-bbox="1039 596 1390 863">&lt;map id="standardlib"&gt; &lt;topichead&gt; &lt;topicmeta&gt; &lt;navtitle&gt;Developing with standard libraries&lt;/ navtitle&gt; &lt;/topicmeta&gt; &lt;mapref href="lib.ditamap"/&gt; &lt;/topichead&gt; &lt;!-- ... --&gt; &lt;/map&gt;</pre>
3.4.1.14 <metadata>	<p data-bbox="610 911 860 942">Metadata within a map:</p> <pre data-bbox="626 974 990 1241">&lt;topicref href="metadata.dita" navtitle="metadata element"&gt; &lt;topicmeta&gt; &lt;metadata&gt; &lt;keywords&gt; &lt;indexterm&gt;metadata element&lt;/indexterm&gt; &lt;/keywords&gt; &lt;/metadata&gt; &lt;/topicmeta&gt; &lt;/topicref&gt;</pre>	<p data-bbox="1023 911 1273 942">Metadata within a map:</p> <pre data-bbox="1039 974 1390 1220">&lt;topicref href="metadata.dita"&gt; &lt;topicmeta&gt; &lt;metadata&gt; &lt;keywords&gt; &lt;indexterm&gt;metadata element&lt;/indexterm&gt; &lt;/keywords&gt; &lt;/metadata&gt; &lt;/topicmeta&gt; &lt;/topicref&gt;</pre>
3.6.1.1 <subjectScheme>	Same as <enumerationdef>	Same as <enumerationdef>
3.6.1.3 <hasInstance>	<pre data-bbox="626 1352 974 1703">&lt;subjectScheme&gt; &lt;hasInstance&gt; &lt;subjectdef keys="city" navtitle="City"&gt; &lt;subjectdef keys="nyc" navtitle="New York City"/&gt; &lt;subjectdef keys="reykjavik" navtitle="Reykjavik"/&gt; &lt;subjectdef keys="moscow" navtitle="Moscow"/&gt; &lt;/subjectdef&gt; &lt;/hasInstance&gt; &lt;/subjectScheme&gt;</pre>	<pre data-bbox="1039 1352 1403 1619">&lt;subjectScheme&gt; &lt;hasInstance&gt; &lt;subjectdef keys="city"&gt; &lt;subjectdef keys="nyc"/&gt; &lt;subjectdef keys="reykjavik"/&gt; &lt;subjectdef keys="moscow"/&gt; &lt;/subjectdef&gt; &lt;/hasInstance&gt; &lt;/subjectScheme&gt;</pre>
3.6.1.4 <hasKind>	This example specifies that cities, towns, and villages are each a kind of settlement. Additionally, bigcity,	This example specifies that cities, towns, and villages are each a kind of settlement. Additionally, big-city,



Topic	DITA 1.3 content	DITA 2.0 content
	<p>mediumcity, and smallcity are each a kind of city.</p> <pre data-bbox="626 373 990 961">&lt;subjectScheme&gt;   &lt;hasKind&gt;     &lt;subjectdef       keys="settlement"       navtitle="Human settlement"&gt;       &lt;subjectdef         keys="city" navtitle="City"&gt;         &lt;subjectdef           keys="bigcity"           navtitle="Big city"/&gt;         &lt;subjectdef           keys="mediumcity"           navtitle="Medium city"/&gt;         &lt;subjectdef           keys="smallcity"           navtitle="Small city"/&gt;         &lt;/subjectdef&gt;       &lt;subjectdef         keys="town"         navtitle="Town"/&gt;       &lt;subjectdef         keys="village"         navtitle="Village"/&gt;       &lt;/subjectdef&gt;     &lt;/hasKind&gt;   &lt;/subjectScheme&gt;</pre>	<p>medium-city, and small-city are each a kind of city.</p> <pre data-bbox="1039 373 1403 848">&lt;subjectScheme&gt;   &lt;hasKind&gt;     &lt;subjectdef       keys="settlement"&gt;       &lt;subjectdef         keys="city"&gt;         &lt;subjectdef           keys="big-city"/&gt;         &lt;subjectdef           keys="medium-city"/&gt;         &lt;subjectdef           keys="small-city"/&gt;         &lt;/subjectdef&gt;       &lt;subjectdef         keys="town"/&gt;       &lt;subjectdef         keys="village"         navtitle="Village"/&gt;       &lt;/subjectdef&gt;     &lt;/hasKind&gt;   &lt;/subjectScheme&gt;</pre>
3.6.1.5 <hasNarrower>	<pre data-bbox="626 1024 990 1266">&lt;subjectScheme&gt;   &lt;hasNarrower&gt;     &lt;subjectdef       keys="horticulture"       navtitle="Horticulture"&gt;       &lt;subjectdef         keys="plantrose"         navtitle="Planting Roses"/&gt;       &lt;/subjectdef&gt;     &lt;/hasNarrower&gt;   &lt;/subjectScheme&gt;</pre>	<pre data-bbox="1039 1024 1403 1224">&lt;subjectScheme&gt;   &lt;hasNarrower&gt;     &lt;subjectdef       keys="horticulture"&gt;       &lt;subjectdef         keys="planting-roses"/&gt;       &lt;/subjectdef&gt;     &lt;/hasNarrower&gt;   &lt;/subjectScheme&gt;</pre>
3.6.1.6 <hasPart>	<pre data-bbox="626 1329 990 1619">&lt;subjectScheme&gt;   &lt;hasPart&gt;     &lt;subjectdef keys="car"       navtitle="Car"&gt;       &lt;subjectdef         keys="tire"         navtitle="Tire"/&gt;       &lt;subjectdef         keys="horn"         navtitle="Horn"/&gt;       &lt;/subjectdef&gt;     &lt;/hasPart&gt;   &lt;/subjectScheme&gt;</pre>	<pre data-bbox="1039 1329 1403 1549">&lt;subjectScheme&gt;   &lt;hasPart&gt;     &lt;subjectdef keys="car"&gt;       &lt;subjectdef         keys="tire"/&gt;       &lt;subjectdef         keys="horn"/&gt;       &lt;/subjectdef&gt;     &lt;/hasPart&gt;   &lt;/subjectScheme&gt;</pre>
3.6.1.7 <hasRelated>	<pre data-bbox="626 1682 990 1881">&lt;subjectScheme&gt;   &lt;subjectdef     keys="myProgram"     navtitle="My Program"&gt;     &lt;hasRelated       keys="runsOn"       navtitle="runs on"&gt;       &lt;subjectdef         keys="linux"</pre>	<pre data-bbox="1039 1682 1403 1881">&lt;subjectScheme&gt;   &lt;subjectdef     keys="myProgram"&gt;     &lt;hasRelated       keys="platforms"&gt;       &lt;subjectdef         keys="linux"&gt;       &lt;subjectdef         keys="windows"/&gt;</pre>

Topic	DITA 1.3 content	DITA 2.0 content
	<pre> navtitle="Linux"/&gt;   &lt;subjectdef     keys="mswin"     navtitle="Microsoft     Windows"/&gt;   &lt;/hasRelated&gt; &lt;/subjectdef&gt; &lt;/subjectScheme&gt; </pre>	<pre> &lt;/hasRelated&gt; &lt;/subjectdef&gt; &lt;/subjectScheme&gt; </pre>
3.6.1.8 <enumerationdef>	<pre> &lt;subjectScheme&gt;   &lt;!-- Pull in a scheme   that defines unix OS values   --&gt;   &lt;schemeref     href="unixOS.ditamap"/&gt;   &lt;!-- Define new OS values   that are merged with those   in the unixOS scheme --&gt;   &lt;subjectdef keys="os"&gt;     &lt;subjectdef       keys="linux"/&gt;     &lt;subjectdef       keys="mswin"/&gt;     &lt;subjectdef keys="zos"/&gt;   &lt;/subjectdef&gt;   &lt;!-- Define application   values --&gt;   &lt;subjectdef keys="app"     navtitle="Applications"&gt;     &lt;subjectdef       keys="apacheserv"       href="subject/apache.dita"/&gt;     &lt;subjectdef       keys="mysql"       href="subject/sql.dita"/&gt;   &lt;/subjectdef&gt;    &lt;!-- Define an   enumeration of the platform   attribute, equal to   each value in the OS   subject. This makes the   following values   valid for the   platform attribute: linux,   mswin, zos --&gt;   &lt;enumerationdef&gt;     &lt;attributedef       name="platform"/&gt;     &lt;subjectdef       keyref="os"/&gt;   &lt;/enumerationdef&gt;   &lt;!-- Define an   enumeration of the   otherprops attribute, equal   to   each value in the   application subjects.   This makes the   following values valid for   the otherprops attribute:   apacheserv, mysql --&gt;   &lt;enumerationdef&gt;     &lt;attributedef       name="otherprops"/&gt;     &lt;subjectdef       keyref="app"/&gt;   &lt;/enumerationdef&gt; </pre>	<pre> &lt;subjectScheme&gt;   &lt;!-- Pull in a scheme   that defines unix OS values   --&gt;   &lt;schemeref     href="unixOS.ditamap"/&gt;   &lt;!-- Define new OS values   that are merged with those   in the unixOS scheme --&gt;   &lt;subjectdef     keys="operating-systems"&gt;     &lt;subjectdef       keys="linux"/&gt;     &lt;subjectdef       keys="windows"/&gt;     &lt;subjectdef keys="zos"/&gt;   &lt;/subjectdef&gt;   &lt;!-- Define application   values --&gt;   &lt;subjectdef     keys="applications"&gt;     &lt;subjectdef       keys="apache-server"       href="subject/apache.dita"/&gt;     &lt;subjectdef keys="my-     sql" href="subject/     sql.dita"/&gt;   &lt;/subjectdef&gt;    &lt;!-- Define an   enumeration of the platform   attribute, equal to   each value in the OS   subject. This makes the   following values   valid for the   platform attribute: linux,   windows, zOS --&gt;   &lt;enumerationdef&gt;     &lt;attributedef       name="platform"/&gt;     &lt;subjectdef       keyref="os"/&gt;   &lt;/enumerationdef&gt;   &lt;!-- Define an   enumeration of the   otherprops attribute, equal   to   each value in the   application subjects.   This makes the   following values valid for   the otherprops attribute:   apache-server, my-   sql --&gt;   &lt;enumerationdef&gt;     &lt;attributedef       name="otherprops"/&gt;     &lt;subjectdef       keyref="applications"/&gt;   &lt;/enumerationdef&gt; </pre>

Topic	DITA 1.3 content	DITA 2.0 content
	<pre data-bbox="630 289 873 331">&lt;/enumerationdef&gt; &lt;/subjectScheme&gt;</pre>	<pre data-bbox="1042 289 1286 331">&lt;/enumerationdef&gt; &lt;/subjectScheme&gt;</pre>
3.6.1.10 <attributedef>	Same as <enumerationdef>	Same as <enumerationdef>
3.6.1.14 <subjectdef>	Same as <enumerationdef>	Same as <enumerationdef>
3.6.2.1 <subjectref>	<p data-bbox="613 478 1003 821">In the following example, the map is classified as covering the Linux subject, and the "Developing web applications" topic is classified as covering the web and development subjects. These subjects (and their keys) are defined externally in a subject scheme map; in order to reference the subject directly without the subject scheme map, the @href attribute would be used in place of @keyref.</p> <pre data-bbox="630 856 938 1304"> &lt;map&gt;   &lt;title&gt;Working with   Linux&lt;/title&gt;   &lt;topicsubject   keyref="linux"/&gt;   &lt;!-- ... --&gt;   &lt;topicref   href="webapp.dita"   navtitle="Developing web   applications"&gt;     &lt;topicsubject&gt;       &lt;subjectref       keyref="web"/&gt;       &lt;subjectref       keyref="development"/&gt;     &lt;/topicsubject&gt;   &lt;!-- ... --&gt; &lt;/topicref&gt; &lt;!-- ... --&gt; &lt;/map&gt;</pre>	<p data-bbox="1026 478 1416 821">In the following example, the map is classified as covering the Linux subject, and developing-web-applications.dita is classified as covering the web and development subjects. These subjects (and their keys) are defined externally in a subject scheme map; in order to reference the subject directly without the subject scheme map, the @href attribute would be used in place of @keyref.</p> <pre data-bbox="1042 856 1351 1283"> &lt;map&gt;   &lt;title&gt;Working with   Linux&lt;/title&gt;   &lt;topicsubject   keyref="linux"/&gt;   &lt;!-- ... --&gt;   &lt;topicref   href="developing-web-   applications.dita"&gt;     &lt;topicsubject&gt;       &lt;subjectref       keyref="web"/&gt;       &lt;subjectref       keyref="development"/&gt;     &lt;/topicsubject&gt;   &lt;!-- ... --&gt; &lt;/topicref&gt; &lt;!-- ... --&gt; &lt;/map&gt;</pre>
3.6.2.3 <topicsubject>	Same as <subjectref>; should be reused	Same as <subjectref>; should be reused
3.6.2.4 <topicSubjectTable>	<p data-bbox="613 1430 1003 1822">The following &lt;topicSubjectTable&gt; classifies several topics according to subjects defined in the previous map. As with any &lt;topicSubjectTable&gt;, the first column is used to specify topics. In this specific example, the second column is used to specify a goal, based on the "goal" subject in the header. The third column is used to specify an operating system. Based on those definitions, the following classifications are made by this table:</p>	<p data-bbox="1026 1430 1416 1822">The following &lt;topicSubjectTable&gt; classifies several topics according to subjects defined in the previous map. As with any &lt;topicSubjectTable&gt;, the first column is used to specify topics. In this specific example, the second column is used to specify a goal, based on the "goal" subject in the header. The third column is used to specify an operating system. Based on those definitions, the following classifications are made by this table:</p>

Topic	DITA 1.3 content	DITA 2.0 content
	<ul style="list-style-type: none"> <li>The topics "Configuring cron for efficient startup" and "Allocating raw storage" are each classified by the goal of "performance"; they also are classified by the operating systems "linux" and "unix".</li> <li>The topics "Analyzing web logs for service issues" and "Detecting denial-of-service attacks" are each classified by the goal of "reliability"; they also are classified by the operating systems "linux", "unix", and "windows".</li> <li>No relationship is defined between subjects in the table, meaning that this table does not define any relationship between the goal of "performance" and the operating systems "linux" or "unix".</li> </ul> <pre data-bbox="630 1045 992 1881"> &lt;map&gt; &lt;!-- ... --&gt; &lt;topicSubjectTable&gt;   &lt;topicSubjectHeader&gt;     &lt;topicCell type="task"/&gt;     &lt;subjectCell&gt;       &lt;topicsubject keyref="goal"/&gt;     &lt;/subjectCell&gt;     &lt;subjectCell&gt;       &lt;topicapply keyref="os"/&gt;     &lt;/subjectCell&gt;   &lt;/topicSubjectHeader&gt;   &lt;topicSubjectRow&gt;     &lt;topicCell&gt;       &lt;topicref href="webServerStart.dita" navtitle="Configuring cron for efficient startup"/&gt;       &lt;topicref href="dbDisk.dita" navtitle="Allocating raw storage"/&gt;     &lt;/topicCell&gt;     &lt;subjectCell&gt;       &lt;topicsubject keyref="performance"/&gt;     &lt;/subjectCell&gt;     &lt;subjectCell&gt;       &lt;topicapply keyref="linux"/&gt;       &lt;topicapply keyref="unix"/&gt;     &lt;/subjectCell&gt;   &lt;/topicSubjectRow&gt; &lt;/topicSubjectRow&gt; </pre>	<ul style="list-style-type: none"> <li>The topics <code>configure-cron-for-efficiency.dita</code> and <code>allocating-raw-storage.dita</code> are each classified by the goal of "performance"; they also are classified by the operating systems "linux" and "unix".</li> <li>The topics <code>analyze-web-logs.dita</code> and <code>detect-denial-of-service-attacks.dita</code> are each classified by the goal of "reliability"; they also are classified by the operating systems "linux", "unix", and "windows".</li> <li>No relationship is defined between subjects in the table, meaning that this table does not define any relationship between the goal of "performance" and the operating systems "linux" or "unix".</li> </ul> <pre data-bbox="1044 1087 1406 1881"> &lt;map&gt; &lt;!-- ... --&gt; &lt;topicSubjectTable&gt;   &lt;topicSubjectHeader&gt;     &lt;topicCell type="task"/&gt;     &lt;subjectCell&gt;       &lt;topicsubject keyref="goal"/&gt;     &lt;/subjectCell&gt;     &lt;subjectCell&gt;       &lt;topicapply keyref="os"/&gt;     &lt;/subjectCell&gt;   &lt;/topicSubjectHeader&gt;   &lt;topicSubjectRow&gt;     &lt;topicCell&gt;       &lt;topicref href="configure-cron-for- efficiency.dita"/&gt;       &lt;topicref href="allocating-raw- storage.dita"/&gt;     &lt;/topicCell&gt;     &lt;subjectCell&gt;       &lt;topicsubject keyref="performance"/&gt;     &lt;/subjectCell&gt;     &lt;subjectCell&gt;       &lt;topicapply keyref="linux"/&gt;       &lt;topicapply keyref="unix"/&gt;     &lt;/subjectCell&gt;   &lt;/topicSubjectRow&gt; &lt;/topicSubjectRow&gt; </pre>

Topic	DITA 1.3 content	DITA 2.0 content
	<pre> &lt;topicCell&gt;   &lt;topicref href="webLogAnalyze.dita" navtitle="Analyzing web logs for service issues"/&gt;   &lt;topicref href="webDenialService.dita" navtitle="Detecting denial- of-service attacks"/&gt; &lt;/topicCell&gt; &lt;subjectCell&gt;   &lt;topicsubject keyref="reliability"/&gt; &lt;/subjectCell&gt; &lt;subjectCell&gt;   &lt;topicapply keyref="linux"/&gt; &lt;topicapply keyref="unix"/&gt; &lt;topicapply keyref="unix"/&gt; &lt;topicapply keyref="windows"/&gt; &lt;/subjectCell&gt; &lt;/topicSubjectRow&gt; &lt;!-- ... --&gt; &lt;/topicSubjectTable&gt; &lt;/map&gt; </pre>	<pre> &lt;topicCell&gt;   &lt;topicref href="analyze-web- logs.dita"/&gt;   &lt;topicref href="detect-denial-of- service-attacks.dita"/&gt; &lt;/topicCell&gt; &lt;subjectCell&gt;   &lt;topicsubject keyref="reliability"/&gt; &lt;/subjectCell&gt; &lt;subjectCell&gt;   &lt;topicapply keyref="linux"/&gt; &lt;topicapply keyref="unix"/&gt; &lt;topicapply keyref="windows"/&gt; &lt;/subjectCell&gt; &lt;/topicSubjectRow&gt; &lt;!-- ... --&gt; &lt;/topicSubjectTable&gt; &lt;/map&gt; </pre>

## Migration plans for backwards incompatibilities

Information architects and content strategists will need to search their content for [▶] elements, attributes, attribute values, and entities [◀] that were removed from DITA 2.0:

- **<boolean>**
- <indextermref>
- **@alt**
- @chunk="to-navigation
- @collection-type="tree" on <linkpool> and <linklist>
- @collection-type on <reltable> and <relcolspec>
- @keyref on <navref>
- @locktitle on <topichead> and <topicgroup>
- <image>@longdescref
- **@navtitle**
- **@print**
- @query
- @refcols
- @role="sample" and @role="external"
- **@title**<map>
- @type="internal" and @type="external" on <lq>
- [▶] &nbsp; ; [◀]

The deprecated elements, attributes, attribute values [▶] , and entities [◀] will need to be removed.

The DITA TC should offer migration advice only for deprecated elements and attributes (highlighted in the list above); we cannot guess at how users have used attribute and attribute values that were never formally defined. In addition, we cannot provide migration advice to vendors who have directly modified the OASIS-provided grammar files.

The following table outlines the basic information for **migrating existing content**.

Deprecated item	Strategy	DITA 1.3 markup	DITA 2.0 markup
@alt	<ol style="list-style-type: none"> <li>1. Remove the @alt attribute.</li> <li>2. Create an &lt;alt&gt; element as child of &lt;image&gt;.</li> <li>3. Insert the value of the @alt into the &lt;alt&gt; element.</li> </ol>	<pre>&lt;image href="bike.gif" alt="Two-wheeled bicycle"/&gt;</pre>	<pre>&lt;image href="bike.gif" &lt;alt&gt;Two-wheeled bicycle&lt;/alt&gt; &lt;/image&gt;</pre>
<boolean>	<p>Replace the &lt;boolean&gt; with a &lt;state&gt; or &lt;data&gt; element.</p>	<p>She said "&lt;boolean state="yes"/&gt;" when I asked her to marry me!</p> <p><b>Note</b> This is the example from the specification. It is very stupid and embarrassing. The element only had value as a specialization base.</p>	<p>"She said &lt;state name="answer" value="yes"/&gt; when I asked her to marry me!"</p> <p><b>Note</b> Again, this is also a very stupid example.</p>
@print	<ol style="list-style-type: none"> <li>1. Identify maps that use the @print attribute.</li> <li>2. Develop a subjectScheme map with appropriate values for the @deliveryTarget attribute.</li> <li>3. Replace the @printattribute with a @deliveryTarget attribute and a appropriate value.</li> </ol>	<pre>&lt;topicref href="foo.dita" print="no"&gt;</pre>	<pre>&lt;topicref href="foo.dita" deliveryTarget="Web- only"&gt;</pre>
@navtitle	<ol style="list-style-type: none"> <li>1. Identify maps that use the @navtitle attribute.</li> <li>2. Remove the @navtitle attribute and replace it with an</li> </ol>	<pre>&lt;subjectScheme&gt; &lt;subjectdef keys="os" navtitle="Operating system"&gt; &lt;subjectdef keys="linux" navtitle="Linux"&gt; &lt;subjectdef keys="redhat"</pre>	<pre>&lt;subjectScheme&gt; &lt;subjectdef keys="os"&gt; &lt;topicmeta&gt; &lt;navtitle&gt;Operating systems&lt;/navtitle&gt; &lt;/topicmeta&gt; &lt;subjectdef keys="linux"&gt;</pre>

Deprecated item	Strategy	DITA 1.3 markup	DITA 2.0 markup
	<p>XML comment or a @navtitle element, whichever is appropriate</p> <p><b>Note</b> The DIT suggest simply removing @navtitle if the @lockt attribute not set. @lockt attribute set to "yes", add a &lt;navtitle&gt; element.</p>	<pre> navtitle="RedHat Linux"/&gt;   &lt;subjectdef     keys="suse"     navtitle="SuSE Linux"/&gt;   &lt;/subjectdef&gt;   &lt;subjectdef     keys="windows"     navtitle="Windows"/&gt;   &lt;subjectdef     keys="zos"     navtitle="z/OS"/&gt;   &lt;/subjectdef&gt;   &lt;enumerationdef     name="platform"/&gt;   &lt;subjectdef     keyref="os"/&gt;   &lt;/enumerationdef&gt; &lt;/subjectScheme&gt; </pre>	<pre> &lt;topicmeta&gt;  &lt;navtitle&gt;Linux&lt;/ navtitle&gt;   &lt;/   &lt;/topicmeta&gt;  &lt;subjectdef   keys="redhat"&gt;  &lt;topicmeta&gt;  &lt;navtitle&gt;RedHat Linux&lt;/navtitle&gt;   &lt;/   &lt;/topicmeta&gt;   &lt;/   &lt;subjectdef&gt;   &lt;subjectdef     keys="suse"&gt;  &lt;topicmeta&gt;  &lt;navtitle&gt;SUSE Linux&lt;/navtitle&gt;   &lt;/   &lt;/topicmeta&gt;   &lt;/   &lt;subjectdef&gt;   &lt;/   &lt;subjectdef     &lt;subjectdef       keys="windows"&gt;  &lt;topicmeta&gt;  &lt;navtitle&gt;Windows&lt;/ navtitle&gt;   &lt;/   &lt;/topicmeta&gt;   &lt;/   &lt;subjectdef&gt;   &lt;subjectdef     keys="zos"&gt;  &lt;topicmeta&gt;  &lt;navtitle&gt;z/OS&lt;/ navtitle&gt;   &lt;/   &lt;/topicmeta&gt;   &lt;/   &lt;subjectdef&gt;   &lt;/subjectdef&gt;   &lt;enumerationdef&gt;  &lt;attributedef   name="platform"/&gt;   &lt;subjectdef     keyref="os"/&gt;   &lt;/   &lt;/enumerationdef&gt; &lt;/subjectScheme&gt; </pre>
<p>@longdescref ON &lt; image&gt;</p>	<p><b>1.</b> Remove the @longdescref attribute.</p>	<pre> &lt;image   href="puffin.jpg"   longdescref="http:// </pre>	<pre> &lt;image   href="puffin.jpg"&gt;   &lt;alt&gt;Puffin </pre>

Deprecated item	Strategy	DITA 1.3 markup	DITA 2.0 markup
	<ol style="list-style-type: none"> <li>2. Insert a <code>&lt;longdescref&gt;</code> element.</li> </ol>	<pre>www.example.org/ birds/puffin.html"&gt;   &lt;alt&gt;Puffin picture&lt;/alt&gt; &lt;/image&gt;</pre>	<pre>picture&lt;/alt&gt;   &lt;longdescref href="http:// www.example.org/ birds/puffin.html"  scope="external"  format="html"/&gt; &lt;/image&gt;</pre>
@title on <map>	<ol style="list-style-type: none"> <li>1. Remove the @title attribute.</li> <li>2. Insert a &lt;title&gt; element.</li> </ol>	<pre>&lt;map id="mybats" title="Bats"&gt;   &lt;topicref href="bats.dita" type="topic"&gt;     &lt;topicref href="batcaring.dita" type="task"/&gt;     &lt;topicref href="batfeeding.dit a" type="task"/&gt;     &lt;topicref href="batsonar.dita" type="concept"/&gt;     &lt;topicref href="batguano.dita" type="reference"/&gt;     &lt;topicref href="bathistory.dit a" type="reference"/&gt;   &lt;/topicref&gt; &lt;/map&gt;</pre>	<pre>&lt;map id="mybats"&gt;   &lt;title&gt;Bats&lt;/ title&gt;   &lt;topicref href="bats.dita" type="topic"&gt;     &lt;topicref href="batcaring.dita" type="task"/&gt;     &lt;topicref href="batfeeding.dit a" type="task"/&gt;     &lt;topicref href="batsonar.dita" type="concept"/&gt;     &lt;topicref href="batguano.dita" type="reference"/&gt;     &lt;topicref href="bathistory.dit a" type="reference"/&gt;   &lt;/topicref&gt; &lt;/map&gt;</pre>
[▶] &nbsp;	<ol style="list-style-type: none"> <li>1. Remove the &amp;nbsp;.</li> <li>2. Replace it with &amp;#160;.</li> </ol>	<pre>&lt;p&gt;When using Feline&amp;nbsp;Greenies pill pockets, you might need to keep them secured in order to prevent your cat from absconding with the delicious morsels. A mason jar with a tight lid will work well.&lt;/p&gt;</pre>	<pre>&lt;p&gt;When using Feline&amp;#160;Greenies pill pockets, you might need to keep them secured in order to prevent your cat from absconding with the delicious morsels. A mason jar with a tight lid will work well.&lt;/p&gt;</pre> <p>[◀]</p>

DITA practitioners who have developed [▶] document-type shells or [◀] specialization and constraint modules that enumerate any of the deprecated [▶] elements, attributes, attribute values, and entities [◀] will need to remove them from the modules.