

Stage three: #397 Clean Up Items

Small changes to the DITA 2.0 markup that did not warrant separate proposal but that were formally approved by the Technical Committee.

Champion

Robert Anderson performed the work. Eliot Kimber is the proposal champion.

Tracking information: Stage two

No Stage Two proposal for these changes. Each change was discussed and voted on by the TC but the individual changes did not warrant a full proposal. See the aggregated minutes for the records of the individual votes.

Tracking information: Stage three

In the following table, insert cross references to e-mails to the TC list or meeting minutes:

- Be sure to use the public URL as the value of the `@href` attribute
- For link text for the cross references, use “E-mail, date month year”, “GitHub issue”, or “Minutes, date month year”

Event	Date	Links
Stage 3 proposal submitted to reviewers	xref to e-mail sent to reviewers and cc'd to list	xref to e-mail sent to reviewers and cc'd to list>
Stage 3 proposal submitted to TC	xref to e-mail sent to list	
Stage 3 proposal discussed	Date	xref to meeting minutes where discussed
Stage 3 proposal approved	Date	xref to meeting minutes where discussed

Tracking information

Event	Date	Links
Stage 1 proposal accepted	N/A	
Stage 2 proposal submitted	N/A	
Stage 2 proposal discussed	N/A	
Stage 2 proposal approved	N/A	
Stage 3 proposal submitted to reviewers		Include names of reviewers
Stage 3 proposal (this document) submitted to TC		

Approved technical requirements

Many items in DITA 1.x were marked as deprecated but retained for backward compatibility. All deprecated items are removed in DITA 2.0. In addition, some items were determined to be unused or otherwise obsolete and therefore removable. In a few places, elements were missing attributes or subelements they should have based on their specialization bases or peer element types. These changes also reflect corrections to errors in the 1.x declarations that could not be corrected in order to ensure backward compatibility.

Table 1: Summary of Cleanup Changes

Change	Date Discussed	Date Change Committed	Notes
@othertype and @otherjob on <audience>	20 Oct 2020	20 Oct 2020	
<itemgroup> is no longer useful, its function can be entirely filled by the <div> element	20 Oct 2020	20 Oct 2020	<div> replaces <itemgroup> as an option in content models and as the specialization base for elements previously specialized from <itemgroup> (<info>, <stepxmp>, etc.)
Remove @mapkeyref as obsolete	8 Dec 2020	8 Dec 2020	Attribute was intended to be used by processors ala @xtrc and @xtrf and was not intended to be authored.
Restore universal attributes to specializations of <body>	11 May 2021	???	Attributes were added to <body> in DITA 1.1 but never added to specializations of <body>.
Remove <sectiondiv>, which is a subset of functionality now available with <div>	18 May 2021	25 May 2021	DITA 1.3 <div> has same content model as DITA 1.2 <sectiondiv> making <sectiondiv> unnecessary.
Add @keyref to markup and XML mention domain elements	1 June 2021	1 June 2021	Specializations of <keyword> should allow @keyref
Remove <longquoteref> element from <lq>, remove linking attributes from <lq>; add @keyref to <lq>	1 June 2021	1 June 2021	Makes <lq> consistent with <ph> and <keyword>, which act as links only when they specify @keyref and do not take other linking attributes.
Add @keyref to highlight and emphasis domain elements	1 June 2021	1 June 2021	Specializations of <keyword> should allow @keyref
@title-role should be required in grammar files	2 Nov 2021	2 Nov 2021	
Remove @specentry and @spectitle from all elements	11 Jan 2022	11 Jan 2022	All content-containing attributes are removed in DITA 2.0.
Remove <has*> elements and <relatedSubjects> from subject scheme	11 Jan 2022	11 Jan 2022	Simplification of subject scheme maps
Remove <anchor>, <anchorref>, and @anchorref from <map>.	11 Jan 2022	11 Jan 2022	Largely unused elements with poorly-defined semantics and processing behavior.
Remove <subjectRelTable>	11 Jan 2022	11 Jan 2022	Simplification of subject scheme maps
Remove the "exception" definition of <author/@type> that says it is a type of author, so that the definition of <author/@type> matches all other uses of @type on elements with @href	1 Feb 2022	1 Feb 2022	Eliminates another variation of @type

Change	Date Discussed	Date Change Committed	Notes
Remove the following attributes from object, which are deprecated in HTML5 (including the "keyrefs" DITA version of removed attributes): @archive, @archivekeyrefs, @classid, @classidkeyref, @codebase, @codebasekeyref, @declare, @standby	15 March 2022	15 March 2022	<object> is modeled directly on HTML <object> element. Modern HTML practice avoids the use of objects for direct inclusion of code in browsers in preference for using JavaScript-based solutions.
Remove @type and @valuetype from <param>	15 March 2022	15 March 2022	<param> is an exclusive subelement of <object>.
Remove @longdesceref and @longdescre from <object>		4 April 2022	Replaced by <longdesceref> in DITA 1.x. @longdescre is a typo that had to be retained in 1.x for backward compatibility.
Remove the @title attribute from <reliable> element	24 May 2022	13 June 2022	All content-containing attributes are removed in DITA 2.0.
Removing enumeration from @scale on <fig>, <lines>, <pre>, and specializations of <pre> so that any value is allowed for @scale attribute, keeping enumerations only for <table> and <simpletable>	???	14 June 2022	Makes @scale consistent where it should be.

Dependencies or interrelated proposals

No dependencies or interrelated proposals.

Modified grammar files

The following grammar files are changed.

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.

```

<!ENTITY % li          "li"          >
<!ENTITY % itemgroup "itemgroup" >
<!ENTITY % dl          "dl"          >

```

Figure 1: commonElements.ent

```

...
<!ENTITY % frame-expanse-atts
    "frame
        (all |
         bottom |
         none |
         sides |
         top |
         topbot |
         -dita-use-conref-target)
        #IMPLIED

```

```

        exp
        (column |
        page |
        spread |
        textline |
        -dita-use-conref-target)
        #IMPLIED"
>
<!ENTITY % display-atts
    "scale
        NMTOKEN
        #IMPLIED
        %frame-expense-atts;"
>
<!ENTITY % table-scale-att
    "scale
        (50 |
        60 |
        70 |
        80 |
        90 |
        100 |
        110 |
        120 |
        140 |
        160 |
        180 |
        200 |
        -dita-use-conref-target)
        #IMPLIED"
-----
frame
-----
(all |
bottom |
none |
sides |
top |
topbot |
-dita-use-conref-target)
-----
#IMPLIED
-----
exp
-----
(column |
page |
spread |
textline |
-dita-use-conref-target)
>
<!ENTITY % simpletable-display-atts
    "%table-scale-att;
    %frame-expense-atts;"
>
...
<!ENTITY % listitem.cnt
    "#PCDATA |
    %basic.block; |
    %basic.ph; |
    %data.elements.incl; |
    %foreign.unknown.incl; |
    %itemgroup; |
    %txt.incl;"
>
<!ENTITY % itemgroup.cnt
    "#PCDATA |
    %basic.block; |

```

```

-----%basic.ph;+
-----%basic.ph;+
-----%data.elements.incl;+
-----%foreign.unknown.incl;+
-----%itemgroup;+
-----%txt.incl;"
>
<!ENTITY % pre.cnt
...
<!ATTLIST li %li.attributes;>

<!-- LONG NAME: Item Group -->
<!ENTITY % itemgroup.content
-----"(%itemgroup.cnt;)*"
>
<!ENTITY % itemgroup.attributes
-----"%univ-atts;"
>
<!ELEMENT itemgroup %itemgroup.content;>
<!ATTLIST itemgroup %itemgroup.attributes;>

...
<!ENTITY % titlealt.attributes
-----"title-role
-----CDATA
-----#IMPLIED#REQUIRED
-----%univ-atts;"
>
...
<!ENTITY % object.attributes
-----"declare
----- (declare)
-----#IMPLIED
-----classid
-----CDATA
-----#IMPLIED
-----classidkeyref
-----CDATA
-----#IMPLIED
-----codebase
-----CDATA
-----#IMPLIED
-----codebasekeyref
-----CDATA
-----#IMPLIED
-----data
-----CDATA
-----#IMPLIED
-----datakeyref
-----CDATA
-----#IMPLIED
-----type
-----CDATA
-----#IMPLIED
-----codetype
-----CDATA
-----#IMPLIED
-----height
-----NMTOKEN
-----#IMPLIED
-----width
-----NMTOKEN

```

```

                                #IMPLIED
        usemap                    CDATA
        name                      CDATA
                                #IMPLIED
        tabindex                  NMTOKEN
                                #IMPLIED
        longdesc             CDATA
                                #IMPLIED
        longdesc             CDATA
                                #IMPLIED
        %univ-atts;
        longdesc             CDATA
                                #IMPLIED"
>
...
<!ENTITY % param.attributes
        "%univ-atts;
        name                      CDATA
                                #REQUIRED
        value                    CDATA
                                #IMPLIED
        valuetype           (data |
                                object |
                                ref |
                                dita use conref target)
                                #IMPLIED
        type                      CDATA
                                #IMPLIED
        keyref                    CDATA
                                #IMPLIED"
>
...
<!ENTITY % simpletable.attributes
        "relcolwidth
                                CDATA
                                #IMPLIED
        keycol                    NMTOKEN
                                #IMPLIED
        %simpletable-display-atts;
        %univ-atts;"
>
...
<!ATTLIST index-see-also class CDATA "- topic/index-see-also ">
<!ATTLIST indexterm      class CDATA "- topic/indexterm " >
<!ATTLIST index-base     class CDATA "- topic/index-base " >
<!ATTLIST itemgroup      class CDATA "- topic/itemgroup " >
<!ATTLIST keyword        class CDATA "- topic/keyword " >
<!ATTLIST li              class CDATA "- topic/li " >
<!ATTLIST lines          class CDATA "- topic/lines " >

```

Figure 2: commonElements.mod

```

...
<define name="frame-expanse-atts">

```

```

<optional>
  <attribute name="frame">
    <choice>
      <value>all</value>
      <value>bottom</value>
      <value>none</value>
      <value>sides</value>
      <value>top</value>
      <value>topbot</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
<optional>
  <attribute name="expanse">
    <choice>
      <value>column</value>
      <value>page</value>
      <value>spread</value>
      <value>textline</value>
      <value>-dita-use-conref-target</value>
    </choice>
  </attribute>
</optional>
</define>
<define name="display-atts">
  <optional>
    <attribute name="scale">
      <data type="NMTOKEN"/>
      <choice>
        <value>50</value>
        <value>60</value>
        <value>70</value>
        <value>80</value>
        <value>90</value>
        <value>100</value>
        <value>110</value>
        <value>120</value>
        <value>140</value>
        <value>160</value>
        <value>180</value>
        <value>200</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <ref name="frame-expanse-atts"/>
</define>
<define name="table-scale-att">
  <optional>
    <attribute name="scale">
      <choice>
        <value>50</value>
        <value>60</value>
        <value>70</value>
        <value>80</value>
        <value>90</value>
        <value>100</value>
        <value>110</value>
        <value>120</value>
        <value>140</value>
        <value>160</value>
      </choice>
    </attribute>
  </optional>
</define>

```

```

        <value>180</value>
        <value>200</value>
        <value>-dita-use-conref-target</value>
    </choice>
</attribute>
</optional>
</define>
<define name="simpletable-display-atts">
    <ref name="table-scale-att"/>
    <ref name="frame-expanse-atts"/>
</define>
...
    <define name="object.attributes">
        <optional>
            <attribute name="declare">
                <choice>
                    <value>declare</value>
                </choice>
            </attribute>
        </optional>
        <optional>
            <attribute name="classid"/>
        </optional>
        <optional>
            <attribute name="classidkeyref"/>
        </optional>
        <optional>
            <attribute name="codebase"/>
        </optional>
        <optional>
            <attribute name="codebasekeyref"/>
        </optional>
        <optional>
            <attribute name="data"/>
        </optional>
        <optional>
            <attribute name="datakeyref"/>
        </optional>
        <optional>
            <attribute name="type"/>
        </optional>
        <optional>
            <attribute name="codetype"/>
        </optional>
        <optional>
            <attribute name="archive"/>
        </optional>
        <optional>
            <attribute name="archivekeyrefs"/>
        </optional>
        <optional>
            <attribute name="standby"/>
        </optional>
        <optional>
            <attribute name="height">
                <data type="NMTOKEN"/>
            </attribute>
        </optional>
        <optional>
            <attribute name="width">
                <data type="NMTOKEN"/>
            </attribute>
        </optional>
    </define>

```



```

    <optional>
      <attribute name="usemap"/>
    </optional>
    <optional>
      <attribute name="name"/>
    </optional>
    <optional>
      <attribute name="tabindex">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <optional>
      <attribute name="longdescref"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
  ...
  <define name="param.attributes">
    <ref name="univ-atts"/>
    <attribute name="name"/>
    <optional>
      <attribute name="value"/>
    </optional>
    <optional>
      <attribute name="valuetype">
        <choice>
          <value>data</value>
          <value>object</value>
          <value>ref</value>
          <value>dita use conref target</value>
        </choice>
      </attribute>
    </optional>
    <optional>
      <attribute name="type"/>
    </optional>
    <optional>
      <attribute name="keyref"/>
    </optional>
  </define>
  ...
  <define name="simpletable.attributes">
    <optional>
      <attribute name="relcolwidth"/>
    </optional>
    <optional>
      <attribute name="keycol">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <ref name="simpletable-display-atts"/>
    <ref name="univ-atts"/>
  </define>
  ...

```

Figure 3: commonElementsMod.rng

```

...
<!ENTITY % reltable.attributes
      "title
      CDATA
      #IMPLIED
      %topicref-atts-for-reltable;

```

```

        %univ-atts;"
>
...

```

Figure 4: map.mod

```

...
  <define name="reliable.attributes">
    <optional>
      <attribute name="title"/>
    </optional>
    <ref name="topicref-atts-for-reliable"/>
    <ref name="univ-atts"/>
  </define>
...

```

Figure 5: mapMod.rng

```

<!ENTITY % metadata.attributes
          "%univ-atts;
          mapkeyref
          CDATA
          #IMPLIED"
>
...
<!ENTITY % audience.attributes
          "type
          CDATA
          #IMPLIED
          othertype
          CDATA
          #IMPLIED
          job
          CDATA
          #IMPLIED
          otherjob
          CDATA
          #IMPLIED
          experiencelevel
          CDATA
          #IMPLIED
          name
          NMTOKEN
          #IMPLIED
          %univ-atts;"
>

```

Figure 6: metaDecl.mod

```

  <define name="metadata.attributes">
    <ref name="univ-atts"/>
    <optional>
      <attribute name="mapkeyref"/>
    </optional>
  </define>
...

```

```

<define name="index-see-also">
  <ref name="index-see-also.element"/>
</define>
<define name="itemgroup">
  <ref name="itemgroup.element"/>
</define>
<define name="keyword">
  <ref name="keyword.element"/>
</define>
...
<a:documentation> Predefined content model groups, based on the
previous, element-only categories: txt.incl is appropriate for any mixed
content definitions (those that have PCDATA) the context
for blocks is implicitly an InfoMaster "containing_division" </
a:documentation>
  <define name="listitem.cnt">
    <choice>
      <text/>
      <ref name="basic.block"/>
      <ref name="basic.ph"/>
      <ref name="data.elements.incl"/>
      <ref name="foreign.unknown.incl"/>
      <ref name="itemgroup"/>
      <ref name="txt.incl"/>
    </choice>
  </define>
  <define name="itemgroup.ent">
    <choice>
      <text/>
      <ref name="basic.block"/>
      <ref name="basic.ph"/>
      <ref name="data.elements.incl"/>
      <ref name="foreign.unknown.incl"/>
      <ref name="itemgroup"/>
      <ref name="txt.incl"/>
    </choice>
  </define>
...
  <div>
    <a:documentation>LONG NAME: Item Group</a:documentation>
    <define name="itemgroup.content">
      <zeroOrMore>
        <ref name="itemgroup.ent"/>
      </zeroOrMore>
    </define>
    <define name="itemgroup.attributes">
      <ref name="univ-attribs"/>
    </define>
    <define name="itemgroup.element">
      <element name="itemgroup" dita:longName="Item Group">
        <a:documentation>The <itemgroup> element is reserved for use
in specializations of DITA. As a container element, it can be used to sub-
divide or organize elements that occur inside a
list item, definition, or parameter definition. Category:
Specialization elements</a:documentation>
        <ref name="itemgroup.attlist"/>
        <ref name="itemgroup.content"/>
      </element>
    </define>
    <define name="itemgroup.attlist" combine="interleave">
      <ref name="itemgroup.attributes"/>
    </define>
  </div>

```

```

...
<div>
  <a:documentation>LONG NAME: Audience</a:documentation>
  <define name="audience.content">
    <empty/>
  </define>
  <define name="audience.attributes">
    <optional>
      <attribute name="type"/>
    </optional>
    <optional>
      <attribute name="othertype"/>
    </optional>
    <optional>
      <attribute name="job"/>
    </optional>
    <optional>
      <attribute name="otherjob"/>
    </optional>
    <optional>
      <attribute name="experiencelevel"/>
    </optional>
    <optional>
      <attribute name="name">
        <data type="NMTOKEN"/>
      </attribute>
    </optional>
    <ref name="univ-atts"/>
  </define>
  ...
</define>
<define name="itemgroup.attlist" combine="interleave">
  <optional>
    <attribute name="class" a:defaultValue="topic/itemgroup"/>
  </optional>
</define>
<define name="keyword.attlist" combine="interleave">

```

Figure 7: metaDeclMod.rng

```

...
<!ENTITY % dita.table.attributes
  "orient
    (port |
     land |
     -dita-use-conref-target)
    #IMPLIED
  rowheader
    (firstcol |
     headers |
     norowheader |
     -dita-use-conref-target)
    #IMPLIED
  scale
    (50 |
     60 |
     70 |
     80 |

```

```

----- 90 +
----- 100 +
----- 110 +
----- 120 +
----- 140 +
----- 160 +
----- 180 +
----- 200 +
----- -dita-use-conref-target)
----- #IMPLIED

    %table-scale-att;
    %univ-atts;"
>
...

```

Figure 8: tblDecl.mod

```

...
<define name="dita.table.attributes">
  <optional>
    <attribute name="orient">
      <choice>
        <value>port</value>
        <value>land</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="rowheader">
      <choice>
        <value>firstcol</value>
        <value>headers</value>
        <value>norowheader</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
    <attribute name="scale">
      <choice>
        <value>50</value>
        <value>60</value>
        <value>70</value>
        <value>80</value>
        <value>90</value>
        <value>100</value>
        <value>110</value>
        <value>120</value>
        <value>140</value>
        <value>160</value>
        <value>180</value>
        <value>200</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <ref name="table-scale-att"/>
  <ref name="univ-atts"/>
</define>

```

...

Figure 9: tblDeclMod.rng

```

...
<!ENTITY % linklist.attributes
    "collection-type
        (choice |
         family |
         sequence |
         unordered |
         -dita-use-conref-target)
         #IMPLIED

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

        mapkeyref
        CDATA
        #IMPLIED

        %relational-atts;
        %univ-atts;
        spectitle
        CDATA
        #IMPLIED"
>
...
<!ENTITY % linkpool.attributes
    "collection-type
        (choice |
         family |
         sequence |
         unordered |
         -dita-use-conref-target)
         #IMPLIED

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

        mapkeyref
        CDATA
        #IMPLIED

        %relational-atts;
        %univ-atts;"
>

```

Figure 10: topic.mod

```

...
<define name="linklist.attributes">
  <optional>
    <attribute name="collection-type">
      <choice>
        <value>choice</value>
        <value>family</value>
        <value>sequence</value>

```

```

        <value>unordered</value>
        <value>-dita-use-conref-target</value>
        <a:documentation>NOTE: The TC is maintaining the value "tree",
which was
        in the 1.2 DTDs but never defined for documented, only in the
DTD version
        of linklist.</a:documentation>
    </choice>
</attribute>
</option>
<optional>
    <attribute name="duplicates">
        <choice>
            <value>no</value>
            <value>yes</value>
            <value>-dita-use-conref-target</value>
        </choice>
    </attribute>
</optional>
<optional>
    <attribute name="mapkeyref"/>
</optional>
    <ref name="relational-atts"/>
    <ref name="univ-atts"/>
<optional>
    <attribute name="spectitle"/>
</optional>
</optional>
...

```

Figure 11: topicMod.rng

```

...
<!ENTITY % step.content
    "( (%note;)*,
      (cmd;),
      (%choices; |
      %choicetable; |
      %info; |
      %itemgroup;+
      %div;
      %stepxmp; |
      %steps; |
      %steps-unordered; |
      %tutorialinfo;)*,
      (%stepresult;)?,
      (%steptroubleshooting;)? )"
>
...
<!ENTITY % info.content
    "(%itemgroup.cnt;)*"
    "(%div.cnt;)*"
>
...
<!ENTITY % tutorialinfo.content
    "(%itemgroup.cnt;)*"
    "(%div.cnt;)*"
>
...
<!ATTLIST tutorialinfo %tutorialinfo.attributes;>

```

```

<!-- Match itemgroup.entdiv.cnt from base, but exclude example element --
>
<!ENTITY % stepxmp.cnt
        "#PCDATA |
         %basic.block.noexample; |

...

<!--                                LONG NAME: Step Result                                -->
<!ENTITY % stepresult.content
        "(%itemgroup.ent;) *"
        "(%div.cnt;) *"
>

...

<!--                                LONG NAME: Step Troubleshooting                                -->
<!ENTITY % steptroubleshooting.content
        "(%itemgroup.ent;) *"
        "(%div.cnt;) *"
>

...

<!ENTITY % choicetable.attributes
        "relcolwidth
            CDATA
            #IMPLIED
        keycol
            NMTOKEN
            '1'
        spectitle
            CDATA
            #IMPLIED
        %simpletable-display-atts;
        %univ-atts;"
>

...

<!ENTITY % choptionhd.attributes
        "specentry
            CDATA
            #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)
            #IMPLIED
        headers
            NMTOKENS
            #IMPLIED
        %univ-atts;"
>

...

<!ENTITY % chdeschd.attributes
        "specentry
            CDATA

```



```

scope
    (row |
     col |
     rowgroup |
     colgroup |
     -dita-use-conref-target)
    #IMPLIED

headers
    NMTOKENS
    #IMPLIED

%univ-atts;"
>
...
<!ENTITY % choption.attributes
    "specentry
    _____CDATA
    _____#IMPLIED

scope
    (row |
     col |
     rowgroup |
     colgroup |
     -dita-use-conref-target)
    #IMPLIED

headers
    NMTOKENS
    #IMPLIED

%univ-atts;"
>
...
<!ENTITY % chdesc.attributes
    "specentry
    _____CDATA
    _____#IMPLIED

scope
    (row |
     col |
     rowgroup |
     colgroup |
     -dita-use-conref-target)
    #IMPLIED

headers
    NMTOKENS
    #IMPLIED

%univ-atts;"
>
...
<!ATTLIST stepsection class CDATA "- topic/li task/stepsection ">
<!ATTLIST step class CDATA "- topic/li task/step ">
<!ATTLIST cmd class CDATA "- topic/ph task/cmd ">
<!ATTLIST tutorialinfo class CDATA "- topic/itemgroup

task/tutorialinfo
">
<!ATTLIST info class CDATA "- topic/itemgroup

task/info ">
<!ATTLIST stepxmp class CDATA "- topic/itemgroup

task/stepxmp ">
<!ATTLIST stepresult class CDATA "- topic/itemgroup

task/stepresult ">


```

```

<!ATTLIST  steptroubleshooting class CDATA "- topic/itemgroup

Figure 12: task.mod



```

...
<div>
 <a:documentation>COMMON CONTENT MODEL PATTERNS</a:documentation>
 <!-- Match itemgroup.cnt

```


```

```

    <ref name="div.cnt"/>
    </zeroOrMore>
  </define>
  <define name="steptroubleshooting.attributes">
    ...

  </define>
  <define name="tutorialinfo.attlist" combine="interleave">
    <optional>
      <attribute name="class" a:defaultValue="- topic/itemgroupdiv task/
tutorialinfo "/>
    </optional>
  </define>
  <define name="info.attlist" combine="interleave">
    <optional>
      <attribute name="class" a:defaultValue="- topic/itemgroupdiv task/
info "/>
    </optional>
  </define>
  <define name="stepxmp.attlist" combine="interleave">
    <optional>
      <attribute name="class" a:defaultValue="- topic/itemgroupdiv task/
stepxmp "/>
    </optional>
  </define>
  <define name="stepresult.attlist" combine="interleave">
    <optional>
      <attribute name="class" a:defaultValue="- topic/itemgroupdiv task/
stepresult "/>
    </optional>
  </define>
  <define name="steptroubleshooting.attlist" combine="interleave">
    <optional>
      <attribute name="class" a:defaultValue="- topic/itemgroupdiv task/
steptroubleshooting "/>
    </optional>
  </define>

  ...

```

Figure 13: taskMod.rng

```

...

<!ENTITY % cause.attributes
      "%univ-atts;
      _____spectitle
      _____CDATA
      _____#IMPLIED"
>

...

<!ENTITY % condition.attributes
      "%univ-atts;
      _____spectitle
      _____CDATA
      _____#IMPLIED"
>

...

```

```

<!ENTITY % diagnostics-general.attributes
      "%univ-atts;
      spectitle
      CDATA
      #IMPLIED"
>

...

<!ENTITY % diagnostics-steps.attributes
      "%univ-atts;
      spectitle
      CDATA
      #IMPLIED"
>

...

<!ENTITY % remedy.attributes
      "%univ-atts;
      spectitle
      CDATA
      #IMPLIED"
>

...

<!ENTITY % troubleshooting-info-types
      "%info-types;"
>
<!ENTITY % section.blocks.only.cnt
      "(%title;)?,
      (%basic.block; |
      %data.elements.incl; |
      %foreign.unknown.incl; |
      %sectiondiv; |
      %txt.incl;)*"
>
...

```

Figure 14: troubleshooting.mod

```

...
<div>
  <a:documentation>COMMON ELEMENT SETS</a:documentation>
  <define name="section.blocks.only.cnt">
    <optional>
      <ref name="title"/>
    </optional>
    <zeroOrMore>
      <choice>
        <ref name="basic.block"/>
        <ref name="data.elements.incl"/>
        <ref name="foreign.unknown.incl"/>
        <ref name="sectiondiv"/>
        <ref name="txt.incl"/>
      </choice>
    </zeroOrMore>
  </define>
</div>

```

```
...
```

Figure 15: troubleshootingMod.rng

```
...
<!ENTITY % markupname.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
```

Figure 16: markupDomain.mod

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

Figure 17: markupDomain.rng

```
...
<!ENTITY % numcharref.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
<!ENTITY % parameterentity.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
<!ENTITY % textentity.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
```

```

<!ENTITY % xmlatt.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
<!ENTITY % xmlelement.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
<!ENTITY % xmlnsname.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...
<!ENTITY % xmlpi.attributes
    "%univ-atts;"
    "keyref
        CDATA
        #IMPLIED
    %univ-atts;"
>
...

```

Figure 18: xmlDomain.mod

```

...
<define name="numcharref.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>
...
<define name="parameterentity.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>
...
<define name="textentity.attributes">

```

```

    <optional>
      <attribute name="keyref"/>
    </optional>
    <ref name="univ-atts"/>
  </define>

...

<define name="xmlatt.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>

...

<define name="xmlelement.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>

...

<define name="xmlnsname.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>

...

<define name="xmlpi.attributes">
  <optional>
    <attribute name="keyref"/>
  </optional>
  <ref name="univ-atts"/>
</define>
<define name="xmlpi.element">
...

```

Figure 19: xmlDomain.rng

```

...
<!ENTITY % bookmark.attributes
      "id
          ID
          #IMPLIED
          %conref-atts;
          anchorref
          CDATA
          #IMPLIED
          outputclass
          CDATA
          #IMPLIED
          %localization-atts;
          %topicref-atts;

```

```

        %select-atts;"
>
...

```

Figure 20: bookmap.mod

```

...
<!ENTITY % equation-figure.attributes
        "%display-atts;
        spectitle
        CDATA
        #IMPLIED
        %univ-atts;"
>
...

```

Figure 21: equationDomain.mod

```

...
<!ENTITY % codeblock.attributes
        "%display-atts;
        spectitle
        CDATA
        #IMPLIED
        xml:space
                (preserve)
                #FIXED
                'preserve'
        %univ-atts;"
>
...
<!ENTITY % parml.attributes
        "compact
                (yes |
                no |
                -dita-use-conref-target)
                #IMPLIED
        spectitle
        CDATA
        #IMPLIED
        %univ-atts;"
>
...

```

Figure 22: programmingDomain.mod

```

...
<!ENTITY % refsyn.attributes
        "spectitle
        CDATA
        #IMPLIED
        "%univ-atts;"
>
...
<!ENTITY % properties.attributes
        "relcolwidth
        CDATA
        #IMPLIED

```



```

        keycol
            NMTOKEN
            #IMPLIED
        "spectitle
        CDATA
        #IMPLIED
        %simpletable-display-atts;
        %univ-atts;"
    >
    ...
<!ENTITY % proptypehd.attributes
    "
        "spectitle
        CDATA
        #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)
            #IMPLIED
        headers
            NMTOKENS
            #IMPLIED
        %univ-atts;"
    >
    ...
<!ENTITY % propvaluehd.attributes
    "
        "spectitle
        CDATA
        #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)
            #IMPLIED
        headers
            NMTOKENS
            #IMPLIED
        %univ-atts;"
    >
    ...
<!ENTITY % propdeschd.attributes
    "
        "spectitle
        CDATA
        #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)

```

```

                headers
                    NMTOKENS
                #IMPLIED
            %univ-atts;"
>
...
<!ENTITY % proptype.attributes
    "spectitle
    _____CDATA
    _____#IMPLIED
        rowspan
            NMTOKEN
            #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)
            #IMPLIED
        headers
            NMTOKENS
            #IMPLIED
        %univ-atts;"
>
...
<!ENTITY % propvalue.attributes
    "spectitle
    _____CDATA
    _____#IMPLIED
        rowspan
            NMTOKEN
            #IMPLIED
        scope
            (row |
             col |
             rowgroup |
             colgroup |
             -dita-use-conref-target)
            #IMPLIED
        headers
            NMTOKENS
            #IMPLIED
        %univ-atts;"
>
...
<!ENTITY % propdesc.attributes
    "spectitle
    _____CDATA
    _____#IMPLIED
        rowspan
            NMTOKEN
            #IMPLIED
        scope
            (row |
             col |

```

```

                                rowgroup |
                                colgroup |
                                -dita-use-conref-target)
                                #IMPLIED
headers
                                NMTOKENS
                                #IMPLIED
%univ-atts;"
>

```

Figure 23: reference.mod

```

...
<!ENTITY % msgblock.attributes
    "%display-atts;
    spectitle
    CDATA
    #IMPLIED
    %univ-atts;
    xml:space
    (preserve)
    #FIXED
    'preserve'"
>
...

```

Figure 24: softwareDomain.mod

```

...
<!ENTITY % screen.attributes
    "%display-atts;
    spectitle
    CDATA
    #IMPLIED
    xml:space
    (preserve)
    #FIXED
    'preserve'
    %univ-atts;"
>
...

```

Figure 25: uiDomain.mod

```

...
<define name="any">
  <zeroOrMore>
    <choice>
      <ref name="idElements"/>
      <element>
        <anyName>
          <except>
            <name>map</name>
            <name>bookmap</name>
            <name>anchor</name>
          </except>
        </anyName>
      </zeroOrMore>
    </choice>
  </zeroOrMore>
</define>

```

```

        <attribute>
          <anyName/>
        </attribute>
      </zeroOrMore>
    <ref name="any"/>
  </element>
  <text/>
</choice>
</zeroOrMore>
</define>
...

```

Figure 26: bookmap.rng

```

...
<define name="bookmap.attributes">
  <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: bookmapMod.rng

```

...
<define name="any">
  <zeroOrMore>
    <choice>
      <ref name="idElements"/>
      <element>
        <anyName>
          <except>
            <name>map</name>
            <name>anchor</name>
          </except>
        </anyName>
      </zeroOrMore>
      <attribute>
        <anyName/>
      </attribute>
    </zeroOrMore>
    <ref name="any"/>
  </element>
  <text/>
</choice>
</zeroOrMore>
</define>

```

```
...
```

Figure 28: classifyMap.rng

```
...
  <define name="equation-figure.attributes">
    <ref name="display-atts"/>
  <optional>
    <attribute name="spectitle"/>
  </optional>
  <ref name="univ-atts"/>
</define>
...
```

Figure 29: equationDomain.rng

```
...
      <anyName>
        <except>
          <name>map</name>
          <name>anchor</name>
        </except>
      </anyName>
...
```

Figure 30: map.rng

```
...
  <define name="codeblock.attributes">
    <ref name="display-atts"/>
  <optional>
    <attribute name="spectitle"/>
  </optional>
  <optional>
    <attribute name="xml:space" a:defaultValue="preserve">
      <value>preserve</value>
    </attribute>
  </optional>
  <ref name="univ-atts"/>
</define>
...
  <define name="parml.attributes">
    <optional>
      <attribute name="compact">
        <choice>
          <value>yes</value>
          <value>no</value>
          <value>-dita-use-conref-target</value>
        </choice>
      </attribute>
    </optional>
  <optional>
    <attribute name="spectitle"/>
  </optional>
  <ref name="univ-atts"/>
</define>
```

...

Figure 31: programmingDomain.rng

```

...
    <define name="refsyn.attributes">
    <optional>
    <attribute name="spectitle"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...
    <define name="properties.attributes">
    <optional>
    <attribute name="relcolwidth"/>
    </optional>
    <optional>
    <attribute name="keycol">
    <data type="NMTOKEN"/>
    </attribute>
    </optional>
    <optional>
    <attribute name="spectitle"/>
    </optional>
    <ref name="simpletable-display-atts"/>
    <ref name="univ-atts"/>
    </define>
...
    <define name="proptypehd.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...
    <define name="propvaluehd.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...
    <define name="propdeschd.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...
    <define name="proptype.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...
    <define name="propvalue.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
...

```

```

    <define name="propdesc.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
    ...

```

Figure 32: referenceMod.rng

```

    ...
    <define name="msgblock.attributes">
    <ref name="display-atts"/>
    <optional>
    <attribute name="spectitle"/>
    </optional>
    <ref name="univ-atts"/>
    <optional>
    <attribute name="xml:space" a:defaultValue="preserve">
    <value>preserve</value>
    </attribute>
    </optional>
    </define>
    ...

```

Figure 33: softwareDomain.rng

```

    ...
    <define name="choicetable.attributes">
    <optional>
    <attribute name="relcolwidth"/>
    </optional>
    <optional>
    <attribute name="keycol" a:defaultValue="1">
    <data type="NMTOKEN"/>
    </attribute>
    </optional>
    <optional>
    <attribute name="spectitle"/>
    </optional>
    <ref name="simpletable-display-atts"/>
    <ref name="univ-atts"/>
    </define>
    ...
    <define name="choptionhd.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
    ...
    <define name="chdeschd.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>
    <ref name="univ-atts"/>
    </define>
    ...
    <define name="chdesc.attributes">
    <optional>
    <attribute name="specentry"/>
    </optional>

```

```

    <ref name="univ-atts"/>
  </define>
  ...

```

Figure 34: taskMod.rng

```

...
  <define name="cause.attributes">
    <ref name="univ-atts"/>
    <optional>
      <attribute name="spectitle"/>
    </optional>
  </define>
...
  <define name="condition.attributes">
    <ref name="univ-atts"/>
    <optional>
      <attribute name="spectitle"/>
    </optional>
  </define>
...
  <define name="diagnostics-general.attributes">
    <ref name="univ-atts"/>
    <optional>
      <attribute name="spectitle"/>
    </optional>
  </define>
...
  <define name="diagnostics-steps.attributes">
    <optional>
      <attribute name="spectitle"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
...
  <define name="remedy.attributes">
    <optional>
      <attribute name="spectitle"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
...

```

Figure 35: troubleshootingMod.rng

```

...
  <define name="screen.attributes">
    <ref name="display-atts"/>
    <optional>
      <attribute name="spectitle"/>
    </optional>
    <optional>
      <attribute name="xml:space" a:defaultValue="preserve">
        <value>preserve</value>
      </attribute>
    </optional>
    <ref name="univ-atts"/>
  </define>

```


...

Figure 36: uiDomain.rng

...

Figure 37:

...

Figure 38:

...

Figure 39:

...

Figure 40:

...

Figure 41:

Modified terminology

No change to terminology.

Modified specification documentation

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.

Table 2: Modified Specification Documents

Source Document	Modifications
langRef/base/audience.dita	<pre> ... <section id="usage-information"> <title>Usage information</title> <p>A topic can indicate multiple audiences by including multiple <xmlelement>audience</ xmlelement> elements. For each audience specified, the high-level task they are trying to accomplish can be identified with the <xmlatt>job</xmlatt> attribute, and the level of experience expected can be specified with the <xmlatt>experiencelevel</ xmlatt> attribute. The <xmlelement>audience</xmlelement> element can be used to provide a more detailed definition of values used throughout the map or topic on the <xmlatt>audience</xmlatt> attribute.</p> <p>Many of the attributes on the <xmlelement>audience</xmlelement> element have enumerated values, which can be restricted by using constraints or extended by using associated attributes. For instance, the <xmlatt>othertype</xmlatt> attribute can be used to extend the audience type enumeration.</p> </section> <section id="attributes"> <title>Attributes</title> <p>The following attributes are available on this element: <xref keyref="attributes-universal"/ > and the attributes defined below.</p> <dl id="dl_hhn_xdk_p5b"> <dlentry> <dt><xmlatt>type</xmlatt></dt> <dd>Specifies the type of audience for whom the content of the topic is intended. <ph conkeyref="reuse-attributes/ nonstandard-type"/> <ph otherprops="examples">For example, possible values enumerated in earlier versions of DITA included <keyword>user</keyword>, <keyword>purchaser</ keyword>, <keyword>administrator</ keyword>, <keyword>programmer</ keyword>, <keyword>executive</ keyword>, and <keyword>services</ keyword>.</ph></dd> </dlentry> </dl> </pre>

Source Document	Modifications
sectiondiv.dita	Topic deleted.

Source Document	Modifications
<p>longquoteref.dita</p> <p>processing-keyref-for-links.dita</p>	<p>Topic deleted.</p> <pre> ... <p>The <xmlelement>object</xmlelement> element has additional key-referencing attributes ——— (<xmlatt>archivekeyrefs</xmlatt>, <xmlatt>classidkeyref</xmlatt>, <xmlatt>codebasekeyref</xmlatt>, and <xmlatt>datakeyref</xmlatt>). Key names in these attributes are resolved using the same processing that is described for the normal <xmlatt>keyref</xmlatt> attribute.</p> <p>The <xmlelement>object</xmlelement> element has an additional key-referencing attribute named <xmlatt>datakeyref</xmlatt>. Key names in this attribute are resolved using the same processing that is described for the normal <xmlatt>keyref</xmlatt> attribute.</p> ... </pre>
<p>object.dita</p>	<pre> <dl> ——— <dlentry ——— id="archive"> ——— <dt id="attr-archive"><xmlatt>archive</xmlatt></dt> ——— <dd>Specifies a space-separated list of URIs indicating resources needed by the object. These resources might include those URIs specified by the <xmlatt>classid</xmlatt> and <xmlatt>data</xmlatt> attributes. Preloading these resources usually results in faster load times for objects. The URIs in the list should be relative to the <xmlatt>codebase</xmlatt> attribute.</dd> ——— </dlentry> ——— <dlentry ——— id="archivekeyrefs"> ——— <dt id="attr-archivekeyrefs"><xmlatt>archivekeyrefs</xmlatt></dt> ——— <dd>Specifies key references to one or more archives, as for <xmlatt>archive</xmlatt>. The value </pre>

Source Document	Modifications

Migration plans for backwards incompatibilities

Table 3: Migration Plan for Issue 397

Change	Migration Response	Notes
Removal of @spectitle, @specentry	Associate title text generation rules with specializations or @outputclass values.	This affects all processors and style sheets that simply reflect the value of @spectitle as the default or only generated text definition for elements that take @spectitle (i.e., <section>)
Removal of @othertype and @otherjob on <audience>	Use @outputclass or specialization to capture type or job.	These seem to be rarely-used attributes.
Removal of <itemgroup>	Convert <itemgroup> to <div>. Update specializations of <itemgroup> to specialize <div>	
Removal of @mapkeyref	No action required. Should not occur in authored content.	Unlikely any processor other than Open Toolkit ever used this attribute.
Restore universal attributes to specializations of <body>	No action required	
Remove <sectiondiv>	Convert <sectiondiv> to <div>. Update specializations of <sectiondiv> to specialize <div>	
Add @keyref to highlight, emphasis, markup and XML mention domain elements.	Add @keyref to specializations of these elements, if desired.	
Remove <longquoteref> element from <lq>, remove linking attributes from <lq>; add @keyref to <lq>	Remove attributes from content. Replace @longquoteref on <lq> with equivalent key reference.	
@title-role should be required in grammar files	No action--new with 2.0	
Remove <has*> elements and <relatedSubjects> from subject scheme	Remove elements or add elements as private specialization.	Rarely used feature. Anyone using these elements probably has a better solution for ontology management.
Remove <anchor>, <anchorref>, and @anchorref from <map>.	Remove the elements or add as private specializations.	
Remove <subjectRelTable>	Replace with <reltable> or rearchitected subject scheme usage.	

Change	Migration Response	Notes
Remove the "exception" definition of <code><author/@type></code> that says it is a type of author, so that the definition of <code><author/@type></code> matches all other uses of <code>@type</code> on elements with <code>@href</code>	No action required.	
Remove the following attributes from object, which are deprecated in HTML5 (including the "keyrefs" DITA version of removed attributes): <code>@archive</code> , <code>@archivekeyrefs</code> , <code>@classid</code> , <code>@classidkeyref</code> , <code>@codebase</code> , <code>@codebasekeyref</code> , <code>@declare</code> , <code>@standby</code> , <code>@longdesc</code> and <code>@longdescre</code>	Remove attributes.	Unlikely that modern browsers support use of these attributes in any case.
Remove <code>@type</code> and <code>@valuetype</code> from <code><param></code>	Remove attributes	
Remove the <code>@title</code> attribute from <code><reltable></code> element	Replace with <code><title></code>	
Removing enumeration from <code>@scale</code> on <code><fig></code> , <code><lines></code> , <code><pre></code> , and specializations of <code><pre></code> so that any value is allowed for <code>@scale</code> attribute, keeping enumerations only for <code><table></code> and <code><simpletable></code>	No action required for content. May need to update specializations that specify enumerations for <code>@scale</code> .	