

## Stage 3 proposal: Feature #21

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Resolve inconsistent class values for <shortdesc>, <linktext>, and <searchtitle>

### Champion

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### Tracking information

Event	Date	Links
Stage 1 proposal accepted	9 May 2017	<a href="https://lists.oasis-open.org/archives/dita/201705/msg00022.html">https://lists.oasis-open.org/archives/dita/201705/msg00022.html</a>
Stage 2 proposal submitted	4 May 2019	PDF DITA
Stage 2 proposal discussed	7 May 2019	<a href="https://lists.oasis-open.org/archives/dita/201905/msg00038.html">https://lists.oasis-open.org/archives/dita/201905/msg00038.html</a>
Stage 2 proposal approved	14 May 2019	<a href="https://lists.oasis-open.org/archives/dita/201905/msg00043.html">https://lists.oasis-open.org/archives/dita/201905/msg00043.html</a>
Stage 3 proposal submitted to reviewers	10 Oct 2019	Deb Bissantz, Vasont Systems Zoe Lawson, IBM
Stage 3 proposal (this document) submitted to TC	21 Oct 2019	

### Approved technical requirements

The <shortdesc>, <linktext>, and <searchtitle> elements have the same semantics in maps and topics but in DITA 1.x are separately declared (and thus have different base class values) for maps and topics. These elements should have the same base type in both maps and topics.

### Dependencies or interrelated proposals

No related or dependent proposals identified.

### Modified grammar files

- mapMod.rng (remove declarations for <shortdesc>, <linktext>, and <linktitle>):

```

<define name="anchor">
  <ref name="anchor.element"/>
</define>
<define name="linktext">
  <ref name="linktext.element"/>
</define>
<define name="navref">
  <ref name="navref.element"/>
</define>
...
<define name="reltable">
  <ref name="reltable.element"/>
</define>

```

```

<define name="searchtitle">
  <ref name="searchtitle.element"/>
</define>
<define name="shortdesc">
  <ref name="shortdesc.element"/>
</define>
  <define name="topicmeta">
    <ref name="topicmeta.element"/>
  </define>
...

  <div>
    <a:documentation>LONG NAME: Short Description</a:documentation>
    <define name="shortdesc.content">
      <zeroOrMore>
        <choice>
          <ref name="title.ent"/>
          <ref name="xref" dita:since="1.3"/>
        </choice>
      </zeroOrMore>
    </define>
    <define name="shortdesc.attributes">
      <ref name="univ-attns"/>
      <optional>
        <attribute name="outputclass"/>
      </optional>
    </define>
    <define name="shortdesc.element">
      <element name="shortdesc" dita:longName="Short Description">
        <a:documentation>The short description (<shortdesc>)
        element occurs between the topic title and the topic body, as the initial
        paragraph-like content of a topic, or it can be embedded
        in an abstract element. The short description, which
        represents the purpose or theme of the topic, is also intended to be used
        as a link preview and for searching. When used within a
        DITA map, the short description of the <topicref> can
        be used to override the short description in the topic. Category: Topic
        elements</a:documentation>
        <ref name="shortdesc.attlist"/>
        <ref name="shortdesc.content"/>
      </element>
    </define>
    <define name="shortdesc.attlist" combine="interleave">
      <ref name="shortdesc.attributes"/>
    </define>
  </div>
  <div>
    <a:documentation>LONG NAME: Link Text</a:documentation>
    <define name="linktext.content">
      <zeroOrMore>
        <choice>
          <ref name="words.ent"/>
          <ref name="ph"/>
        </choice>
      </zeroOrMore>
    </define>
    <define name="linktext.attributes">
      <optional>
        <attribute name="outputclass"/>
      </optional>
      <ref name="univ-attns"/>
    </define>

```

```


<define name="linktext.element">
  <a:documentation>The <linktext> element provides the literal
  label or line of text for a link. In most cases, the text of a link can
  be resolved during processing by cross reference with
  the target resource. Use the <linktext> element only when the
  target cannot be reached, such as when it is a peer or external link, or
  the target is local but not in DITA format. When
  used inside a topic, it will be used as the text for the
  specified link; when used within a map, it will be used as the text for
  generated links that point to the specified topic. Category:
  Related Links elements</a:documentation>
  <element name="linktext" dita:longName="Link Text">
    <ref name="linktext.attlist"/>
    <ref name="linktext.content"/>
  </element>
</define>
<define name="linktext.attlist" combine="interleave">
  <ref name="linktext.attributes"/>
</define>

</div>
<div>
  <a:documentation>LONG NAME: Search Title</a:documentation>
  <define name="searchtitle.content">
    <zeroOrMore>
      <ref name="words.cnt"/>
    </zeroOrMore>
  </define>
  <define name="searchtitle.attributes">
    <optional>
      <attribute name="outputclass"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
  <define name="searchtitle.element">
    <a:documentation>When your DITA topic is transformed to XHTML, the
    <searchtitle> element is used to create a title element at the top of
    the resulting HTML file. This title is normally used
    in search result summaries by some search engines, such as that
    in Eclipse (http://eclipse.org); if not set, the XHTML's title element
    defaults to the source topic's title content (which may
    not be as well optimized for search summaries). Category: Topic
    elements</a:documentation>
    <element name="searchtitle" dita:longName="Search Title">
      <ref name="searchtitle.attlist"/>
      <ref name="searchtitle.content"/>
    </element>
  </define>
  <define name="searchtitle.attlist" combine="interleave">
    <ref name="searchtitle.attributes"/>
  </define>
</div>

...

  <define name="linktext.attlist" combine="interleave">
    <ref name="global-atts"/>
    <optional>
      <attribute name="class" a:defaultValue="- map/linktext "/>
    </optional>
  </define>
  <define name="searchtitle.attlist" combine="interleave">
    <ref name="global-atts"/>
    <optional>


```

```


<attribute name="class" a:defaultValue="- map/searchtitle"/>
</optional>
</define>
<define name="shortdesc.attlist" combine="interleave">
<ref name="global-atts"/>
<optional>
<attribute name="class" a:defaultValue="- map/shortdesc"/>
</optional>
</define>


```

- Move declarations for <shortdesc>, <linktext>, and <linktitle> from topicMod.rng to commonElementsMod.rng. Add @outputclass used in map version of <linktext> to <linktext> attributes (was missing from topic version in DITA 1.3).

topicMod.rng

```

<define name="linkpool">
  <ref name="linkpool.element"/>
</define>
<define name="linktext">

<ref name="linktext.element"/>
</define>

<define name="prolog">
  <ref name="prolog.element"/>
</define>
<define name="related-links">
  <ref name="related-links.element"/>
</define>
<define name="searchtitle">

<ref name="searchtitle.element"/>
</define>

<define name="section">
  <ref name="section.element"/>
</define>
<define name="sectiondiv">
  <ref name="sectiondiv.element"/>
</define>
<define name="shortdesc">

<ref name="shortdesc.element"/>
</define>

<define name="titlealts">
  <ref name="titlealts.element"/>
</define>

...
<div>

<a:documentation>LONG NAME: Search Title</a:documentation>

<define name="searchtitle.content">
  <zeroOrMore>
    <choice>

      <ref name="words.cnt"/>
      <ref name="ph"/>
    </choice>

</zeroOrMore>
</define>
<define name="searchtitle.attributes">
  <optional dita:since="DITA 1.3">
    <attribute name="outputclass"/>
  </optional>
  <ref name="univ-atts"/>
</define>
<define name="searchtitle.element">
  <element name="searchtitle" dita:longName="Search Title">

```

```


<a:documentation>When your DITA topic is transformed to XHTML,
the <searchtitle> element is used to create a title element at the top
of the resulting HTML file. This title is normally
used in search result summaries by some search engines, such
as that in Eclipse (http://eclipse.org); if not set, the XHTML's title
element defaults to the source topic's title content
(which may not be as well optimized for search summaries)
Category: Topic elements</a:documentation>
<ref name="searchtitle.attlist"/>
<ref name="searchtitle.content"/>
</element>
</define>
<define name="searchtitle.attlist" combine="interleave">
<ref name="searchtitle.attributes"/>
</define>

</div>
<div>
<a:documentation>LONG NAME: Short Description</a:documentation>
<define name="shortdesc.content">
<zeroOrMore>
<choice>
<ref name="title.cnt"/>
<ref name="xref" dita:since="1.3"/>
</choice>
</zeroOrMore>
</define>
<define name="shortdesc.attributes">
<ref name="univ-atts"/>
<optional>
<attribute name="outputclass"/>
</optional>
</define>
<define name="shortdesc.element">
<element name="shortdesc" dita:longName="Short Description">
<a:documentation>The short description (<shortdesc>)
element occurs between the topic title and the topic body, as the initial
paragraph-like content of a topic, or it can be embedded
in an abstract element. The short description, which
represents the purpose or theme of the topic, is also intended to be used
as a link preview and for searching. When used within a
DITA map, the short description of the <topicref> can
be used to override the short description in the topic. Category: Topic
elements</a:documentation>
<ref name="shortdesc.attlist"/>
<ref name="shortdesc.content"/>
</element>
</define>
<define name="shortdesc.attlist" combine="interleave">
<ref name="shortdesc.attributes"/>
</define>

</div>

...

<div>
<a:documentation>LONG NAME: Link Text</a:documentation>

<define name="linktext.content">
<zeroOrMore>
<choice>
<ref name="words.cnt"/>
<ref name="ph"/>


```

```

----- </choice>
----- </zeroOrMore>
----- </define>
----- <define name="linktext.attributes">
-----   <ref name="univ_atts"/>
----- </define>
----- <define name="linktext.element">
-----   <element name="linktext" dita:longName="linktext">
-----     <a:documentation>The <del><lt;linktext></del> element provides the
----- literal label or line of text for a link. In most cases, the text of a
----- link can be resolved during processing by cross reference
----- with the target resource. Use the <del><lt;linktext></del> element only
----- when the target cannot be reached, such as when it is a peer or external
----- link, or the target is local but not in DITA format.
----- When used inside a topic, it will be used as the text for
----- the specified link; when used within a map, it will be used as the text
----- for generated links that point to the specified topic.
----- Category: Related Links elements</a:documentation>
-----   <ref name="linktext.attlist"/>
-----   <ref name="linktext.content"/>
----- </element>
----- </define>
----- <define name="linktext.attlist" combine="interleave">
-----   <ref name="linktext.attributes"/>
----- </define>

----- </div>

...

----- <define name="linktext.attlist" combine="interleave">
-----   <ref name="global_atts"/>
-----   <optional>
-----     <attribute name="class" a:defaultValue=" topic/linktext "/>
-----   </optional>
----- </define>

...

----- <define name="searchtitle.attlist" combine="interleave">
-----   <ref name="global_atts"/>
-----   <optional>
-----     <attribute name="class" a:defaultValue=" topic/searchtitle "/>
-----   </optional>
----- </define>

...

----- <define name="shortdesc.attlist" combine="interleave">
-----   <ref name="global_atts"/>
-----   <optional>
-----     <attribute name="class" a:defaultValue=" topic/shortdesc "/>
-----   </optional>
----- </define>

```

commonElementsMod.rng (insertions highlighted in **bold**):

```

...
  <define name="lines">
    <ref name="lines.element"/>
  </define>

```

```

<define name="linktext">
  <ref name="linktext.element"/>
</define>
<define name="longdescref">
  <ref name="longdescref.element"/>
</define>
...

<define name="required-cleanup">
  <ref name="required-cleanup.element"/>
</define>
<define name="searchtitle">
  <ref name="searchtitle.element"/>
</define>
<define name="sl">
  <ref name="sl.element"/>
</define>
<define name="sli">
  <ref name="sli.element"/>
</define>
<define name="simpletable">
  <ref name="simpletable.element"/>
</define>
<define name="shortdesc">
  <ref name="shortdesc.element"/>
</define>
<define name="state">
  <ref name="state.element"/>
</define>
...

<div>
  <a:documentation>LONG NAME: Link Text</a:documentation>

  <define name="linktext.content">
    <zeroOrMore>
      <choice>
        <ref name="words.cnt"/>
        <ref name="ph"/>
      </choice>
    </zeroOrMore>
  </define>
  <define name="linktext.attributes">
    <optional>
      <attribute name="outputclass"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
  <define name="linktext.element">
    <element name="linktext" dita:longName="linktext">
      <a:documentation>The <linktext> element provides the
literal label or line of text for a link. In most cases, the text of a
link can be resolved during processing by cross reference
      with the target resource. Use the <linktext> element only
when the target cannot be reached, such as when it is a peer or external
link, or the target is local but not in DITA format.
      When used inside a topic, it will be used as the text for
the specified link; when used within a map, it will be used as the text
for generated links that point to the specified topic.
      Category: Related Links elements</a:documentation>
    </element>
  </define>
  <ref name="linktext.attlist"/>

```

```

        <ref name="linktext.content"/>
      </element>
    </define>
    <define name="linktext.attlist" combine="interleave">
      <ref name="linktext.attributes"/>
    </define>
  </div>
...
<div>
  <a:dokumentation>LONG NAME: Search Title</a:dokumentation>

  <define name="searchtitle.content">
    <zeroOrMore>
      <choice>
        <ref name="words.cnt"/>
        <ref name="ph"/>
      </choice>
    </zeroOrMore>
  </define>
  <define name="searchtitle.attributes">
    <optional dita:since="DITA 1.3">
      <attribute name="outputclass"/>
    </optional>
    <ref name="univ-atts"/>
  </define>
  <define name="searchtitle.element">
    <element name="searchtitle" dita:longName="Search Title">
      <a:dokumentation>When your DITA topic is transformed to XHTML,
the &lt;searchtitle> element is used to create a title element at the top
of the resulting HTML file. This title is normally
      used in search result summaries by some search engines, such
as that in Eclipse (http://eclipse.org); if not set, the XHTML's title
element defaults to the source topic's title content
      (which may not be as well optimized for search summaries)
Category: Topic elements</a:dokumentation>
      <ref name="searchtitle.attlist"/>
      <ref name="searchtitle.content"/>
    </element>
  </define>
  <define name="searchtitle.attlist" combine="interleave">
    <ref name="searchtitle.attributes"/>
  </define>
</div>
<div>
  <a:dokumentation>LONG NAME: Short Description</a:dokumentation>
  <define name="shortdesc.content">
    <zeroOrMore>
      <choice>
        <ref name="title.cnt"/>
        <ref name="xref" dita:since="1.3"/>
      </choice>
    </zeroOrMore>
  </define>
  <define name="shortdesc.attributes">
    <ref name="univ-atts"/>
    <optional>
      <attribute name="outputclass"/>
    </optional>
  </define>

```

```

    <define name="shortdesc.element">
      <element name="shortdesc" dita:longName="Short Description">
        <a:documentation>The short description (&lt;shortdesc>)
element occurs between the topic title and the topic body, as the initial
paragraph-like content of a topic, or it can be embedded
        in an abstract element. The short description, which
represents the purpose or theme of the topic, is also intended to be used
as a link preview and for searching. When used within a
        DITA map, the short description of the &lt;topicref> can
be used to override the short description in the topic. Category: Topic
elements</a:documentation>
        <ref name="shortdesc.attlist"/>
        <ref name="shortdesc.content"/>
      </element>
    </define>
    <define name="shortdesc.attlist" combine="interleave">
      <ref name="shortdesc.attributes"/>
    </define>
  </div>

...

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

...

<define name="required-cleanup.attlist" combine="interleave">
  <ref name="global-atts"/>
  <optional>
    <attribute name="class" a:defaultValue="- topic/required-cleanup
"/>
  </optional>
</define>
<define name="searchtitle.attlist" combine="interleave">
  <ref name="global-atts"/>
  <optional>
    <attribute name="class" a:defaultValue="- topic/searchtitle "/>
  </optional>
</define>
<define name="shortdesc.attlist" combine="interleave">
  <ref name="global-atts"/>
  <optional>
    <attribute name="class" a:defaultValue="- topic/shortdesc "/>
  </optional>

```

```

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

```

### Modified terminology

No change to terminology.

### Modified specification documentation

No change to specification documentation other than generated references to the map versions of the `<shortdesc>`, `<linktext>`, and `<linktitle>` elements.

### Migration plans for backwards incompatibilities

Documents that do not include literal `@class` values for the map versions of `<shortdesc>`, `<linktext>`, and `<linktitle>` will not be affected.

Documents that include literal `@class` values for the map version of `<shortdesc>`, `<linktext>`, and `<linktitle>` will need to change " map/" to " topic/" in `@class` values for those elements.

Processors that expect the map versions of the `@class` values for `<shortdesc>`, `<linktext>`, and `<linktitle>` and do not already also expect the topic versions must be updated to expect the topic versions.

Specializations of the map versions of `<shortdesc>`, `<linktext>`, and `<linktitle>` must be updated to change " map/" to " topic/" in the `@class` values for those specializations.