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## Stage 3 proposal: #277 Change specialization base for <imagemap>

Change the specialization base for <imagemap> to enable image maps to be treated as images.

### Champion

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### Tracking information

Event	Date	Links
Stage 1 proposal accepted	16 July 2019	<a href="#">Minutes, 16 July 2019</a>
Stage 2 proposal submitted	17 July 2019	<a href="#">DITA PDF</a>
Stage 2 proposal discussed	06 August 2019	<a href="#">Minutes, 06 August 2019</a>
Stage 2 proposal approved	13 August 2019	The minutes are not yet available.
Stage 3 proposal submitted to reviewers	13 August 2019	Scott Hudson Eliot Kimber Zoe Lawson
Stage 3 proposal (this document) submitted to TC	18 August 2019	

### Approved technical requirements

Change the specialization base of <imagemap> and <area> to <div>

### Dependencies or interrelated proposals

None

### Modified grammar files

The following files must be modified:

#### DTDs

- basemap.dtd
- basetopic.dtd
- utilitiesDomain.ent
- utilitiesDomain.mod

#### RNG

utilitiesDomain.rng

In the content below, the following conventions are used:

- Bold is used to indicate code to be added, for example, **addition**.

- Line-through is used to indicate code to be removed, for example, **removal**.
- Ellipses (...) indicate where code is snipped for brevity.

**Figure 1: Changes to basemap.dtd**

```

...
<!-- ===== -->
<!-- DOMAIN EXTENSIONS -->
<!-- ===== -->
<!-- One for each extended base element, with
the name of the domain(s) in which the
extension was declared -->

<!ENTITY % topicref "topicref |
%mapgroup-d-topicref; |
%ditavalref-d-topicref;
">
<!ENTITY % keywords "keywords |
%delay-d-keywords;
">
<!ENTITY % index-base "index-base |
%indexing-d-index-base;
">
<!ENTITY % note "note |
%hazard-d-note;
">
<!ENTITY % ph "ph |
%hi-d-ph;
">
<del style="color:red"><!ENTITY % fig "fig |
%ut-d-fig;
"></del>
<!ENTITY % data "data |
%ut-d-data;
">
<!ENTITY % div "div |
%ut-d-div;
">
...

```

**Figure 2: Changes to basetopic.dtd**

```

...
<!-- ===== -->
<!-- DOMAIN EXTENSIONS -->
<!-- ===== -->
<!-- One for each extended base element, with
the name of the domain(s) in which the
extension was declared -->

<!ENTITY % index-base "index-base |
%indexing-d-index-base;
">
<!ENTITY % note "note |
%hazard-d-note;
">
<!ENTITY % ph "ph |
%hi-d-ph;
">
<del style="color:red"><!ENTITY % fig "fig |
%ut-d-fig;
"></del>
<!ENTITY % data "data |
%ut-d-data;
">
<!ENTITY % div "div |
%ut-d-div;
">

```

```
...
">
```

Figure 3: Changes to utilitiesDomain.ent

```
...<!-- ===== -->
<!--          ELEMENT EXTENSION ENTITY DECLARATIONS          -->
<!-- ===== -->

<!-- ENTITY % ut-d-fig
-- "imagemap"
-->
<!-- ENTITY % ut-d-div
-- "imagemap"
-->
<!-- ENTITY % ut-d-data
-- "sort-as"
-->
...
```

Figure 4: Changes to utilitiesDomain.mod

```
...
<!-- ===== -->
<!--          SPECIALIZATION ATTRIBUTE DECLARATIONS          -->
<!-- ===== -->

<!-- ATTLIST imagemap %global-atts; class CDATA "+ topic/fig ut-d/imagemap "
-->
<!-- ATTLIST imagemap %global-atts; class CDATA "+ topic/div ut-d/imagemap "
-->
<!-- ATTLIST area %global-atts; class CDATA "+ topic/figgroup ut-d/area "
-->
<!-- ATTLIST area %global-atts; class CDATA "+ topic/div ut-d/area "
-->
<!-- ATTLIST shape %global-atts; class CDATA "+ topic/keyword ut-d/shape "
-->
<!-- ATTLIST coords %global-atts; class CDATA "+ topic/ph ut-d/coords "
-->
<!-- ATTLIST sort-as %global-atts; class CDATA "+ topic/data ut-d/sort-as "
-->

<!-- ===== End of DITA Utilities Domain ===== -->
```

Figure 5: Changes to utilitiesDomain.rng

```
...
<div>
  <a:documentation>Define domain extension patterns</a:documentation>
  <define name="ut-d-fig">
    <ref name="imagemap.element"/>
  </define>
  <define name="fig" combine="choice">
    <ref name="ut-d-fig"/>
  </define>
  <define name="ut-d-div">
    <ref name="imagemap.element"/>
  </define>
  <define name="div" combine="choice">
    <ref name="ut-d-div"/>
  </define>
  <define name="ut-d-data">
    <ref name="sort-as.element"/>
  </define>
  <define combine="choice" name="data">
    <ref name="ut-d-data"/>
  </define>
</div>
...
<div>
  <a:documentation>SPECIALIZATION ATTRIBUTE DECLARATIONS</a:documentation>

  <define combine="interleave" name="imagemap.attlist">
    <ref name="global-atts"/>
    <optional>
      <attribute a:defaultValue="+ topic/fig ut-d/imagemap " name="class"/>
    </optional>
  </define>
</div>
```

```

    <attribute a:defaultValue="+ topic/div ut-d/imagemap " name="class"/>
  </optional>
</define>
<define combine="interleave" name="area.attlist">
  <ref name="global-atts"/>
  <optional>
    <attribute a:defaultValue="+ topic/figgroup ut-d/area " name="class"/>
    <attribute a:defaultValue="+ topic/div ut-d/area " name="class"/>
  </optional>
</define>
<define combine="interleave" name="shape.attlist">
  <ref name="global-atts"/>
  <optional>
    <attribute a:defaultValue="+ topic/keyword ut-d/shape " name="class"/>
  </optional>
</define>
<define combine="interleave" name="coords.attlist">
  <ref name="global-atts"/>
  <optional>
    <attribute a:defaultValue="+ topic/ph ut-d/coords " name="class"/>
  </optional>
</define>
<define combine="interleave" name="sort-as.attlist">
  <ref name="global-atts"/>
  <optional>
    <attribute a:defaultValue="+ topic/data ut-d/sort-as " name="class"/>
  </optional>
</define>

</div>
...

```

## Modified terminology

None

## Modified specification documentation

The following table lists the changes that need to be made to element reference topics.

Topic	Current GitHub source	Post-accepted proposal DITA source
<area>	The <area> element is specialized from <figgroup>. It is defined in the utilities-domain module.	The <area> element is specialized from <div>. It is defined in the utilities-domain module.
<imagemap>	The <imagemap> element is specialized from <fig>. It is defined in the utilities-domain module.	The <imagemap> element is specialized from <div>. It is defined in the utilities-domain module.

## Migration plans for backwards incompatibilities

See the "Migration plan" section of the [stage two proposal](#).