5.3.4.2 Example: How metadata elements cascade from one map to another

In this scenario, a metadata element that is located in a map reference cascades to the topics that are referenced in a nested map.

Consider the following code examples:

Figure 5: Root map

Figure 6: installing.ditamap

```
<map>
<title>Installation topics</title>
<topicmeta>
      <audience type="administrator"/>
      </topicmeta>
      <topicref href="install-1.dita"/>
      <topicref href="install-2.dita"/>
      </map>
```

When the root map is processed, the following behavior occurs:

- Because the <shortdesc> element does not cascade, it does not apply to the DITA topics that are referenced in acme-defects.ditamap.
- Because the <audience> element cascades, the <audience> element in the reference to installing.ditamap combines with the <audience> element that is specified at the top level of installing.ditamap. The result is that the install-1.dita and install-2.dita topics are processed as though they each contained the following child <topicmeta> element:

```
<topicmeta>
<audience type="installer"/>
<audience type="administrator"/>
</topicmeta>
```

5.3.4.3 Example: How attributes cascade from one map to another

In this scenario, attributes in one map cascade to a nested map.

Assume the following references in test.ditamap:

```
<map>
<topicref href="a.ditamap" format="ditamap" toc="no"/>
<mapref href="b.ditamap" audience="developer"/>
<mapref href="c.ditamap#branch2" platform="myPlatform"/>
</map>
```

- The map a.ditamap is treated as if toc="no" is specified on the root <map> element. This means that the topics that are referenced by a.ditamap do not appear in the navigation generated by test.ditamap, except for branches within the map that explicitly set toc="yes".
- The map b.ditamap is treated as if audience="developer" is set on the root <map> element. If the @audience attribute is already set on the root <map> element within b.ditamap, the value "developer" is added to any existing values.
- The element with id="branch2" within the map c.ditamap is treated as if platform="myPlatform" is specified on that element. If the @platform attribute is already specified on the element with id="branch", the value"myPlatform" is added to existing values.

5.3.4.4 Example: How the @cascade attribute affects attribute cascading

In this scenario, the @cascade attribute is used to modify how metadata attributes cascade within a map.

Figure 7: Example of cascade="merge"

Consider the following code example:

In this map, the cascade="merge" attribute instructs a processor to merge attribute values while cascading. With @audience specified on both the <map> element and the <topicref> element, the effective @audience attribute value for the reference to topic.dita is "a b c".

Figure 8: Example of cascade="nomerge"

Consider the following code example:

In this map, the cascade="nomerge" attribute instructs a processor *not* to merge attribute values while cascading. With @audience specified on both the <map> element and the <topicref> element, the effective @audience attribute value on the reference to topic.dita is not merged with the value from the map and remains "c".

Figure 9: Example of changing the @cascade value within the map

Consider the following code example:

In this map, the @cascade attribute is set to "merge" at the map level but changes to "nomerge" on a topic reference.

• For the topic reference to one.dita, cascade="merge" is specified. This results in an effective <code>@platform</code> value of "a b" and an effective <code>@product</code> value of "x y".