

# Revised Disposition for CA-0073

[Although the Office Open XML specification DIS-29500](#) does not include functionality to support [native image maps](#), [we should provide informative text in the Accessibility Annex that documents the best practice for achieving this functionality.](#) There is no normative change associated with this disposition.

~~Because of this, there should be no accessibility concerns pertaining to an image map within DrawingML.~~

~~Note that any individual image can have descriptive text, as defined in Part 4, §5.2.2.3, page 3,891, using the `descr` attribute.~~

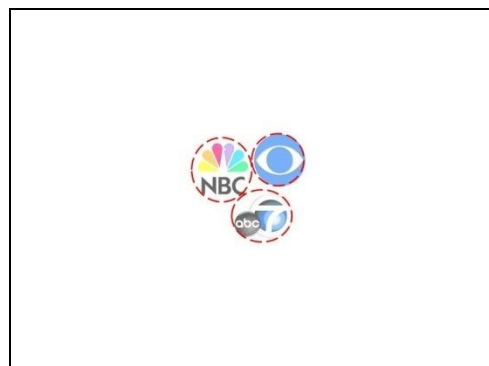
## In Part 4, Annex G. Accessibility Best Practices, Best Practice for Customers

### A.1.1 Creating Image Map-Like Functionality

Although Office Open XML does not natively support image maps via a specific tag, the technology contained within Office Open XML can be used to deliver image map-like functionality. In short, to deliver image map-like functionality, four components are needed: an object to “map,” a clickable region, hit testing and a hyperlink.

By using an image as the object to be “mapped,” one can position no-fill, no-line DrawingML shapes over that image to define the clickable regions as well as to provide hit testing. It is often suggested that the shapes be grouped with the object, although that is not strictly required. A hyperlink per shape can be used to provide the actual hyperlink itself.

[*Example:* If we consider the case where a slide has a picture that includes various logos, and the author wants to provide image map-like functionality, she can position shapes “over” the picture to get the desired functionality. This construction appears as follows:



Shapes positioned over interactive

Image file to be “mapped”

areas

The following XML shows the three shapes in the shape tree: one for the image and three, one for each of the shapes that are positioned over the image.

```
<p:spTree>
  <p:nvGrpSpPr>
    <p:cNvPr id="1" name=""/>
    <p:cNvGrpSpPr/>
    <p:nvPr/>
  </p:nvGrpSpPr>
  <p:grpSpPr>
    <a:xfrm>...</a:xfrm>
  </p:grpSpPr>

  // This represents the “mapped” object

  <p:pic>
    <p:nvPicPr>
      <p:cNvPr id="8" name="Picture 7" descr="This image shows the
        logos of the three
        big networks in the
        United
        States: ABC, NBC and
        CBS"
        title="Image Logos"/>
      <p:cNvPicPr>...</p:cNvPicPr>
      <p:nvPr/>
    </p:nvPicPr>
    <p:blipFill>

      // The rel ID refers to the image that makes up the object

      <a:blip r:embed="rId2"/>
      <a:stretch><a:fillRect/></a:stretch>
    </p:blipFill>
    <p:spPr>...</p:spPr>
  </p:pic>

  // This represents the first shape positioned over the one of the
  // “mapped” regions of object above.

  <p:sp>
```

```

<p:nvSpPr>

    // The hyperlink contains both the tooltip that provides
    // hit-testing feedback is defined in the tooltip attribute;
    // the hyperlink is defined by the relationship ID attribute.

    <p:cNvPr id="9" name="Oval 8">
        <a:hlinkClick r:id="rId3" tooltip="CBS"/>
    </p:cNvPr>
    <p:cNvSpPr/>
    <p:nvPr/>
</p:nvSpPr>
<p:spPr>
    <a:xfrm>...</a:xfrm>...

    // The shapes to trigger the hyperlink and hit testing
    // have no fill and no line applied to them.

    <a:noFill/>
    <a:ln><a:noFill/></a:ln>
</p:spPr>
<p:style>...</p:style>
<p:txBody>...</p:txBody>
</p:sp>

// This represents the set of the other shapes positioned over the
other
// "mapped" regions of object above.

<p:sp>...</p:sp>
<p:sp>...</p:sp>
</p:spTree>

<Relationships
xmlns="http://schemas.openxmlformats.org/package/2006/relationships">
    <Relationship Id="rId3"
Type="http://schemas.openxmlformats.org/officeDocument/2006/
relationships/hyperlink"
Target="http://www.cbs.com/" TargetMode="External"/>
    <Relationship Id="rId2"
Type="http://schemas.openxmlformats.org/officeDocument/2006/
relationships/image"
Target="../media/image1.png"/>

```

```
<Relationship Id="rId1"
  Type="http://schemas.openxmlformats.org/officeDocument/2006/
relationships/slideLayout"
  Target="../slideLayouts/slideLayout1.xml"/>
  <Relationship Id="rId5"
    Type="http://schemas.openxmlformats.org/officeDocument/2006/
relationships/hyperlink"
    Target="http://www.nbc.com/" TargetMode="External"/>
    <Relationship Id="rId4"
      Type="http://schemas.openxmlformats.org/officeDocument/2006/
relationships/hyperlink"
      Target="http://www.abc.com/" TargetMode="External"/>
  </Relationships>
End Example]
```