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DrawingML Pictures

Image Properties - Non-Visual Properties

The **<pic:nvPicPr>** element within the **<pic:pic>** element specifies the non-visual properties of a picture. The actual properties are within two child elements - **<pic:cNvPr>** and **<pic:cNvPicPr>**.

Note that the non-visual properties are in different namespaces, depending on the document type. The examples show the picture namespace of drawingML, with prefix 'pic'. For presentations the non-visual properties are in the main presentationML namespace with prefix 'p'. And for spreadsheets the namespace is the spreadsheet drawingML namespace with prefix 'xdr'.

```
<pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
  <pic:nvPicPr>
    <pic:cNvPr id="0" name="Blue hills.jpg"/>
    <pic:cNvPicPr/>
  </pic:nvPicPr>
  <pic:blipFill>
    . . .
  </pic:blipFill>
  <pic:spPr>
    . . .
  </pic:spPr>
</pic:pic>
```

Reference: ECMA-376, 3rd Edition (June, 2011), *Fundamentals and Markup Language Reference* § 20.2.2.4.

Id, Name, Title and Description

An id, name, title and description for a picture can be specified with attributes on the **<pic:cNvPr>** element: **<pic:cNvPr id="222" name="Blue hills.jpg" title="This is the title" descr="This is the description"/>**. The **id** is an integer and specifies a unique identifier. The **name** is a string and typically stores the original file name. The **title** is a string that specifies the caption. The **descr** is alternative text used for assistive technologies which do not display the picture.

Reference: ECMA-376, 3rd Edition (June, 2011), *Fundamentals and Markup Language Reference* § 20.2.2.3.

Picture Resizing, Cropping, Rotating, Changing Aspect Ratio, Moving, Selecting

The locking properties of a picture are specified with the **<a:picLocks>** element within the **<pic:cNvPicPr>** element. Various aspects of a picture or shape's size can be specified with attributes on **<a:picLocks>**. If the attributes are not specified, then it is assumed that the properties can be changed. For example, to disallow changing the aspect ratio, specify the **noChangeAspect** attribute as true.

The following are the most useful attributes:

- noChangeAspect
- noCrop
- noMove
- noResize
- noRot (no rotation)
- noSelect

Reference: ECMA-376, 3rd Edition (June, 2011), *Fundamentals and Markup Language Reference* § 20.1.2.2.31.

Note also that the **preferRelativeResize** attribute on the **<pic:cNvPicPr>** element specifies whether the user interface should show the resizing of the picture based upon picture's current size (false) or its original size (true).

Hidden

A picture can be hidden by specifying the **hidden** attribute on the **<pic:cNvPr>** element: **<pic:cNvPr hidden="true">**.