

**Stage 3 proposal: Feature 13104,  
Allow @keyref on <object>**

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Adds key references to <object> and <param> as alternatives to direct URI references from <object> and <param> elements.

## Champion

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## Tracking information

Event	Date	Links
Stage 1 proposal accepted	14 Feb 2012	<a href="http://www.oasis-open.org/apps/org/workgroup/dita/download.php/45204/minutes20120214.txt">http://www.oasis-open.org/apps/org/workgroup/dita/download.php/45204/minutes20120214.txt</a>
Stage 2 proposal submitted	18 Jun 2013	DITA: <a href="https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49588/proposal-13104-keyref-on-object.dita">https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49588/proposal-13104-keyref-on-object.dita</a> , HTML: <a href="https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49589/proposal-13104-keyref-on-object.html">https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49589/proposal-13104-keyref-on-object.html</a>
Stage 2 proposal discussed	2 July 2013	<a href="https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49809/latest/minutes20130702.txt">https://www.oasis-open.org/apps/org/workgroup/dita/download.php/49809/latest/minutes20130702.txt</a>
Stage 2 proposal approved	16 July 2013	<a href="https://www.oasis-open.org/apps/org/workgroup/dita/download.php/50041/latest/minutes20130716.txt">https://www.oasis-open.org/apps/org/workgroup/dita/download.php/50041/latest/minutes20130716.txt</a>
Stage 3 proposal submitted to reviewers		Include names of reviewers
Stage 3 proposal (this document) submitted		

## Approved technical requirements

The <object> and <param> elements may make references to resources, <object> via the @data attribute, <param> via the @value attribute when @valuetype is "ref".

In both cases the value is a URI.

It needs to be possible to use keys in place of these URI references.

Dependencies or interrelated proposals

No dependencies or related proposals.

Modified DTDs

This proposal adds attributes to the <object> and <param> elements, both declared in the commonElements module. The required changes are:

For <object>:

- Add a new attribute @classidkeyref.
- Add a new attribute @codebasekeyref.
- Add new attribute @datakeyref.
- Add a new attribute @archivekeyrefs.

For <param>

- Add new attribute @keyref.

New attributes are highlighted.

```
<!ENTITY % object.attributes
    "declare
        (declare)
            #IMPLIED
        classid
            CDATA
            #IMPLIED
        classidkeyref
            CDATA
            #IMPLIED
        codebase
            CDATA
            #IMPLIED
        codebasekeyref
            CDATA
            #IMPLIED
        data
            CDATA
            #IMPLIED
        datakeyref
            CDATA
            #IMPLIED
        type
            CDATA
            #IMPLIED
        codetype
            CDATA
            #IMPLIED
        archive
            CDATA
            #IMPLIED
        archivekeyrefs
            CDATA
            #IMPLIED
        standby
            CDATA
            #IMPLIED
        height
            NMTOKEN
            #IMPLIED
        width
            NMTOKEN
```

```

usemap          #IMPLIED
      CDATA
name            #IMPLIED
      CDATA
tabindex        #IMPLIED
      NMTOKEN
longdescref     #IMPLIED
      CDATA
%univ-atts;
outputclass     #IMPLIED
      CDATA
longdesc       #IMPLIED
      CDATA
"
>
```

Figure 1: Updated DTD-syntax attribute list declaration for <object> (commonElements.mod)

New attributes are highlighted.

```

<!ENTITY % param.attributes
      "%univ-atts;
      name
            CDATA
            #REQUIRED
      value
            CDATA
            #IMPLIED
      valuetype
      (data |
       object |
       ref |
       -dita-use-conref-target)
            #IMPLIED
      type
            CDATA
            #IMPLIED
      keyref
            CDATA
            #IMPLIED"
>
```

Figure 2: Updated DTD-syntax attribute list declaration for <param> (commonElements.mod)

Modified specification documentation

Table 1: New and Modified Topics

New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text	
object.dita	[Attribute description table]	<b>Name</b>	classidkeyref
		<b>Description</b>	Key reference to the URI for the object's class, as for @classid. When specified, and the

New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text
		key is resolvable, the key-provided class ID URI is used. If @classid is specified, it is used as a fallback if the key cannot be resolved to a URI.
	<b>Data Type</b>	CDATA
	<b>Default Value</b>	#IMPLIED
	<b>Required?</b>	No.
	<b>Name</b>	codebasekeyref
	<b>Description</b>	Key reference to the code base URI, as for @codebase. When specified, and the key is resolvable, the key-provided code base URI is used. If @codebase is specified, it is used as a fallback if the key cannot be resolved to a URI. If no URI results from processing @codebasekeyref and @codebase is not specified, the default is the base URL of the current document.
	<b>Data Type</b>	CDATA
	<b>Default Value</b>	#IMPLIED
	<b>Required?</b>	No.
	<b>Name</b>	datakeyref
	<b>Description</b>	Key reference to the data for the object, as for @data. When specified and the key is resolvable, the key-provided URI is used. If @data is specified, it is used as a fallback if the key cannot be resolved to a resource. A key that has no associated resource, only link text, is considered to be unresolved for the purpose of the @datakeyref element.

New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text
		<p><b>Data Type</b> CDATA</p> <p><b>Default Value</b> #IMPLIED</p> <p><b>Required?</b> No.</p> <p>Add the following rows for the new attributes:</p> <p><b>Name</b> archivekeyrefs</p> <p><b>Description</b> Key references to one or more archives, as for @archive. The value is a space-separated list of key names. Each resolvable key reference is treated as a URI as though it had been specified on the @archive attribute. If @archivekeyrefs is specified and at least one key listed in the @archivekeyrefs value is resolved to a URI, then @archive is ignored if specified. If none of the keys specified in @archivekeyrefs can be resolved to a URI then the value of @archive is used if present.</p> <p><b>Data Type</b> CDATA</p> <p><b>Default Value</b> #IMPLIED</p> <p><b>Required?</b> No.</p>
object.dita	<p>[Description of the @type attribute:]</p> <p>Indicates the content type for the data specified by the data attribute. This attribute should be set when the data attribute is set to avoid loading unsupported content types. Note that this differs from the type attribute on many other DITA elements.</p>	<p>Indicates the content type for the data specified by the data or datakeyref attribute. This attribute should be set when the data or datakeyref attribute is set to avoid loading unsupported content types. Note that this differs from the type attribute on many other DITA elements. If type is not specified, the effective type value for the key named by the datakeyref attribute is used as the data's type value.</p>
object.dita	<p>[Description of the @codetype attribute:]</p> <p>Indicates the content type for the data specified by the classid attribute. This</p>	<p>Indicates the content type for the data specified by the classid or classidkeyref attribute. This attribute should be set when the classid or classidkeyref attribute is set to avoid loading unsupported content types. If codetype is not specified and classidkeyref</p>

New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text
object.dita	attribute should be set when the classid attribute is set to avoid loading unsupported content types. If this attribute value is not set, the processing default is the value of the type attribute.	is specified and resolvable, the effective type value specified for the key named by the classidkeyref attribute is used as the class's type value. If codetype is not specified and classidkeyref is also not specified, the default is the effective value of the type attribute.
	[Examples section]	Add these examples to the end of the section:  <pre>&lt;object   id="E5123_026.mp4"   width="300"   height="300"&gt;   &lt;param name="poster"     keyref="E5123_026_poster"   /&gt;   &lt;param name="source"     keyref="E5123_026_video"   /&gt; &lt;/object&gt;</pre>
		Where the keys could be:  <pre>&lt;map&gt;   ...   &lt;keydef     keys="E5123_026_poster"     href="../images/ E5123_026_poster.png"     type="video/mp4"   /&gt;   &lt;keydef keys="E5123_026_video"     href="../media/ E5123_026_poster.mp4"     type="video/mp4"   /&gt;   ... &lt;/map&gt;</pre> <p><b>Figure 3: Object with reference to video via key reference on &lt;param&gt; elements</b></p> <pre>&lt;object   classidkeyref="video_classid"   codebasekeyref="video_codebase"   datakeyref="cutkey370"   height="280"   width="370"   id="cutkey370"&gt;   &lt;desc&gt;A description of the task&lt;/desc&gt;   &lt;param     name="movie" keyref="cutkey370"/   &gt;   &lt;param name="quality"     value="high"/&gt;   &lt;param name="bgcolor"     value="#FFFFFF"/&gt;</pre>



New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text				
		<div>&lt;/object&gt;</div> <div>Where the key could be:</div> <div><pre>&lt;map&gt;   ...   &lt;!-- NOTE: Using     @scope="external" because       the class ID is a URI     that is not intended to       be directly resolved.   --&gt;   &lt;keydef keys="video_classid"     href="clsid:D27CDB6E- AE6D-11cf-96B8-444553540000"     scope="external"   /&gt;   &lt;!-- NOTE: Using     @scope="external" to avoid     systems trying to       download this file     when they don't need to.   --&gt;   &lt;keydef keys="video_codebase"     href="http:// download.macromedia.com/pub/ shockwave/cabs/ flash/ swflash.cab#version=6,0,0,0"     format="shockwave"     scope="external"   /&gt;   &lt;!-- Using @scope="external"     here because the referenced URL       is not intended to be     resolved in isolation but     relative       to the codebase URI.   --&gt;   &lt;keydef keys="cutkey370"     href="cutkey370.swf"     type="application/x- shockwave-flash"     scope="external"   /&gt;   ... &lt;/map&gt;</pre></div> <div>Figure 4: Object with indirect reference to a flash file and fallback @data value</div>				
param.dita	[Attribute description table]	<div>Add row for new attribute @keyref:</div> <table><tr><td>Name</td><td>keyref</td></tr><tr><td>Description</td><td>Key reference to the thing the parameter references, when the parameter has a literal</td></tr></table>	Name	keyref	Description	Key reference to the thing the parameter references, when the parameter has a literal
Name	keyref					
Description	Key reference to the thing the parameter references, when the parameter has a literal					

New or Modified Topics	DITA 1.2 Text	DITA 1.3 Text						
		<p>or effective value type of "ref".</p> <p>When @keyref is specified, it implies a value of "ref" for @valuetype if @valuetype is not specified. If @valuetype is specified with a value other than "ref", @keyref is ignored.</p> <p>When the effective value of @valuetype is "ref" and @keyref is specified, the @value attribute value, if specified, is used as the fallback URI when the key reference cannot be resolved. A key that has no associated resource, only link text, is considered to be unresolved for the purpose of the @keyref element.</p> <table><tr><td><b>Data Type</b></td><td>CDATA</td></tr><tr><td><b>Default Value</b></td><td>#IMPLIED</td></tr><tr><td><b>Required?</b></td><td>No.</td></tr></table>	<b>Data Type</b>	CDATA	<b>Default Value</b>	#IMPLIED	<b>Required?</b>	No.
<b>Data Type</b>	CDATA							
<b>Default Value</b>	#IMPLIED							
<b>Required?</b>	No.							
param.dita	<p>[In attribute description table]</p> <p>This attribute specifies the content type of the resource designated by the value attribute only in the case where valuetype is set to "ref". This attribute specifies for the user agent the type of values that will be found at the URI designated by value. Note that this differs from the type attribute on many other DITA elements.</p>	<p>This attribute specifies the content type of the resource designated by the value or keyref attribute only in the case where valuetype is set to "ref". This attribute specifies for the user agent the type of values that will be found at the URI designated by value. Note that this differs from the type attribute on many other DITA elements. If type is not specified and keyref is specified and is resolvable, the effective type value specified for the key named by the keyref attribute is used as the parameter's type value.</p>						