

# Stage two & three combined: #753 Use element for video poster

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Replace current @poster attribute with <video-poster> element

## Champion

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## Tracking information

Event	Date	Links
Initial suggestion	<xref to e-mail sent to list>	<xref to meeting minutes where first discussed>
Proposal accepted	5 Sept. 2022	<a href="#">Email, 5 Sept 2022</a>
Proposal submitted to reviewers	<xref to e-mail sent to reviewers and cc'd to list>	List names of reviewers: <Name>, <Company>   Individual member <Name>, <Company>   Individual member
Proposal submitted to TC	<xref to e-mail sent to list>	
Proposal discussed by TC	<date>	<xref to meeting minutes where discussed>
Proposal approved by TC	<date>	<xref to meeting minutes where approved>

## Use cases

The @poster attribute of the HTML5 <video> element points to an image to be shown before or while the video is loading. Because this is a reference to a resource, in DITA it should enable the use of key references, specification of the resource's format, etc. The original <video> design used a pair of attributes to specify the poster URI or key. Enabling the use of @scope and @format requires using an element for the poster reference. Using an element makes the poster reference consistent with existing <media-source> element.

## Technical requirements

Change the <video> element as follows:

- Remove @poster and @posterkeyref attributes.
- Declare new <video-poster> element and allow as an optional element following <fallback>. The <video-poster> element takes the same attributes a <media-source>.

While <video-poster> element is a reference to a graphic, alternative text is specified for the video itself, so <video-poster> does not require a separate alternative text child element.

## Backwards compatibility

None: The <video> element is new with DITA 2.0.

## Migration plan

N/A

## Examples

```

<video height="300px"
        loop="false"
        muted="false"
        poster="demo1-video-poster"
        width="400px">
  <desc>A video illustrating this procedure.</desc>
  <fallback>
    <image href="video-not-available.png">
      <alt>This video cannot be displayed.</alt>
    </image>
  </fallback>
  <!-- Preview (poster) image, referenced via key. The key definition
        specifies the URI and the MIME type -->
  <video-poster keyref="image.demo1-poster"/>
  <!-- Multiple formats, referenced via key. The key definition
        specifies both the URI and the MIME type -->
  <media-source keyref="demo1-video-mp4"/>
  <media-source keyref="demo1-video-ogg"/>
  <media-source keyref="demo1-video-webm"/>
  <!-- Subtitle tracks in English, French and German.
        Each key definition provides a URI and sets type="subtitles". -->
  <media-track srclang="en" keyref="demo1-video-subtitles-en"/>
  <media-track srclang="fr" keyref="demo1-video-subtitles-fr"/>
  <media-track srclang="de" keyref="demo1-video-subtitles-de"/>
</video>

```

Figure 1: Example: `<video-poster>` with key reference

## Modified grammar files

Modified grammar files:

- commonElements.ent
- commonElements.mod
- commonElementsMod.rng

```

...
<!ENTITY % xref          "xref"                >
<!ENTITY % audio        "audio"              >
<!ENTITY % video        "video"              >
<!ENTITY % video-poster "video-poster"      >
<!ENTITY % media-source "media-source"      >
<!ENTITY % media-track  "media-track"       >
...

```

Figure 2: commonElements.ent

```

...
<!--          LONG NAME: Video                -->
<!ENTITY % video.content
          "( (%desc;)?,
            (%longdescref;)?,
            (%fallback;)?,
            (%video-poster;)?,

```

```

                (%media-source;)*,
                (%media-track;)*,
                (%foreign.unknown.incl;)*"
>
<!ENTITY % video.attributes
    "autoplay
        (true |
         false |
         -dita-use-conref-target)
         #IMPLIED
    controls
        (true |
         false |
         -dita-use-conref-target)
         #IMPLIED
    loop
        (true |
         false |
         -dita-use-conref-target)
         #IMPLIED
    muted
        (true |
         false |
         -dita-use-conref-target)
         #IMPLIED
    poster
        CDATA
        #IMPLIED
    posterkeyref
        CDATA
        #IMPLIED
    href
        CDATA
        #IMPLIED
    keyref
        CDATA
        #IMPLIED
    format
        CDATA
        #IMPLIED
    scope
        (external |
         local |
         peer |
         -dita-use-conref-target)
        #IMPLIED
    height
        NMTOKEN
        #IMPLIED
    width
        NMTOKEN
        #IMPLIED
    tabindex
        NMTOKEN
        #IMPLIED
    %univ-atts;"
>
<!ELEMENT  video %video.content;>
<!ATTLIST video %video.attributes;>

...

<!ELEMENT  media-track %media-track.content;>
<!ATTLIST media-track %media-track.attributes;>

```

```

<!--                LONG NAME: Video poster                -->
<!ENTITY % video-poster.content
           "EMPTY"
>
<!ENTITY % video-poster.attributes
           "href
            CDATA
            #IMPLIED
           keyref
            CDATA
            #IMPLIED
           format
            CDATA
            #IMPLIED
           scope
            (external |
             local |
             peer |
             -dita-use-conref-target)
            #IMPLIED
           %univ-atts;"
>
<!ELEMENT  video-poster %video-poster.content;>
<!ATTLIST  video-poster %video-poster.attributes;>
...
<!ATTLIST  unknown      class CDATA "- topic/unknown "    >
<!ATTLIST  video        class CDATA "- topic/video "      >
<!ATTLIST  video-poster class CDATA "- topic/video-poster " >
<!ATTLIST  xref         class CDATA "- topic/xref "        >

```

Figure 3: commonElements.mod

```

<define name="video">
  <ref name="video.element"/>
</define>
<define name="video-poster">
  <ref name="video-poster.element"/>
</define>
<define name="xref">
  <ref name="xref.element"/>
</define>
...
</div>
...
<div>
  <a:documentation xml:space="preserve"> LONG NAME: Video</
a:documentation>
  <define name="video.content">
    ...
    <optional>
      <ref name="fallback"/>
    </optional>
    <optional>
      <ref name="video-poster"/>
    </optional>
    <zeroOrMore>
      <ref name="media-source"/>
    </zeroOrMore>
    ...

```

```

</define>
<define name="video.attributes">
  <optional>
    <attribute name="muted">
      <choice>
        <value>>true</value>
        <value>>false</value>
        <value>-dita-use-conref-target</value>
      </choice>
    </attribute>
  </optional>
  <optional>
<del><attribute name="poster"/>
</del>
  </optional>
  <optional>
    <attribute name="href"/>
  </optional>
  <optional>
    <attribute name="keyref"/>
  </optional>
<del><optional>
<del><attribute name="posterkeyref"/>
</del>
  </optional>
  <optional>
    <attribute name="format"/>
  </optional>
  ...
</define>
</div>
<div>
  <a:documentation xml:space="preserve"> LONG NAME: Video poster</
a:documentation>
  <define name="video-poster.content">
    <empty/>
  </define>
  <define name="video-poster.content">
    <empty/>
  </define>
  <define name="video-poster.attributes">
    <optional>
      <attribute name="href"/>
    </optional>
    <optional>
      <attribute name="keyref"/>
    </optional>
    <optional>
      <attribute name="format"/>
    </optional>
    <optional>
      <attribute name="scope">
        <choice>
          <value>external</value>
          <value>local</value>
          <value>peer</value>
          <value>-dita-use-conref-target</value>
        </choice>
      </attribute>
    </optional>
    <ref name="univ-atts"/>
  </define>
  <define name="video-poster.element">
    <element name="video-poster" dita:longName="Video poster">

```

```

        <a:documentation></a:documentation>
        <ref name="video-poster.attlist"/>
        <ref name="video-poster.content"/>
    </element>
</define>
<define name="video-poster.attlist" combine="interleave">
    <ref name="video-poster.attributes"/>
</define>
</div>

<div>
    <a:documentation>SPECIALIZATION ATTRIBUTE DECLARATIONS</
a:documentation>
    ...
    <define name="video.attlist" combine="interleave">
        <optional>
            <attribute name="class" a:defaultValue="- topic/video "/>
        </optional>
    </define>
    <define name="video-poster.attlist" combine="interleave">
        <optional>
            <attribute name="class" a:defaultValue="- topic/video-poster "/>
        </optional>
    </define>
    <define name="xref.attlist" combine="interleave">
        <optional>
            <attribute name="class" a:defaultValue="- topic/xref "/>
        </optional>
    </define>
</div>
</grammar>

```

**Figure 4: commonElementsMod.rng**

### Modified specification documentation

New and modified topics (relative to existing 2.0 draft):

- `reuse-video.dita`: Add mention of and examples for `<video-poster>`, remove mentions of `@poster` and `@posterkeyref` attributes. Changes to `reuse-video.dita` are reflected in `video.dita` by content reference.
- `video.dita`: Update the example to show use of `<video-poster>` in place of `@poster`.
- `example-fallback-information-for-multimedia.dita`: Replace `@poster` with `<video-poster>`.
- `conref-attribute.dita`: Remove `<dentry>` elements with `@id` values "video-poster-name" and "video-poster-value".
- `reuse-w-lwdita/lwdita-attributes.dita`: Add entry for `<video-poster>` attributes.
- New topic `video-poster.dita` for new `<video-poster>` element.
- New topic `reuse-video-poster.dita` for new `<video-poster>` element. Add key definition to `key-definitions-reuse-w-lwdita.ditamap`.

Table 1: reuse-video.dita

Original topic text	New topic text
<pre> &lt;dl platform="dita lwdita"&gt;   &lt;dentry conkeyref="reuse- attributes/autoplay"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/controls"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- height"&gt;&lt;xmlatt&gt;height&lt;/xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Indicates the vertical dimension for the resulting display.       &lt;ph conref="../conref- attribute.dita#conref-attribute/ height-width-units" /&gt;&lt;/dd&gt;     &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/loop"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/muted"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- poster"&gt;&lt;xmlatt&gt;poster&lt;/xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies the absolute or relative URI of the image that is       rendered before video playback begins.&lt;/dd&gt;     &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- posterkeyref"&gt;&lt;xmlatt&gt;posterkeyref&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies a key reference for the poster image.&lt;/ dd&gt;     &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- tabindex"&gt;&lt;xmlatt&gt;tabindex&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies whether the video resource can be focused and where       it participates in sequential keyboard navigation. See &lt;xref       href="https:// html.spec.whatwg.org/#the-tabindex- attribute"       format="html" </pre>	<pre> &lt;dl platform="dita lwdita"&gt;   &lt;dentry conkeyref="reuse- attributes/autoplay"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/controls"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- height"&gt;&lt;xmlatt&gt;height&lt;/xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Indicates the vertical dimension for the resulting display.       &lt;ph conref="../conref- attribute.dita#conref-attribute/ height-width-units" /&gt;&lt;/dd&gt;     &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/loop"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry conkeyref="reuse- attributes/muted"&gt;     &lt;dt/&gt;     &lt;dd/&gt;   &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- poster"&gt;&lt;xmlatt&gt;poster&lt;/xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies the absolute or relative URI of the image that is       rendered before video playback begins.&lt;/dd&gt;     &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- posterkeyref"&gt;&lt;xmlatt&gt;posterkeyref&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies a key reference for the poster image.&lt;/ dd&gt;     &lt;/dentry&gt;   &lt;dentry&gt;     &lt;dt id="attr- tabindex"&gt;&lt;xmlatt&gt;tabindex&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies whether the video resource can be focused and where       it participates in sequential keyboard navigation. See &lt;xref       href="https:// html.spec.whatwg.org/#the-tabindex- attribute"       format="html" </pre>

**Table 2: video.dita**

Original topic text	New topic text
<pre> &lt;fig id="alternate-and-fallback"&gt;   &lt;title&gt;Example of a   &lt;xmlelement&gt;video&lt;/xmlelement&gt;   element with multiple formats and   multilingual subtitles&lt;/ title&gt;   &lt;p&gt;The following code sample   defines multiple presentational   details for a video that is   available in multiple   formats. The video is referenced   using key reference and a fallback   image is provided for   use when the video cannot be   displayed.&lt;/p&gt;   &lt;codeblock&gt;&amp;lt;video   height="300px"   loop="false"   muted="false"   poster="demo1-video- poster"   width="400px"&gt;   &amp;lt;desc&gt;A video illustrating this   procedure.&amp;lt;/desc&gt;   &amp;lt;fallback&gt;   &amp;lt;image href="video-not- available.png"&gt;   &amp;lt;alt&gt;This video cannot be   displayed.&amp;lt;/alt&gt;   &amp;lt;/image&gt;   &amp;lt;/fallback&gt;   &amp;lt;!-- Multiple formats,   referenced via key. The key   definition   specifies both the URI and   the MIME type --&gt;   &amp;lt;media-source keyref="demo1- video-mp4"/&gt;   &amp;lt;media-source keyref="demo1- video-ogg"/&gt;   &amp;lt;media-source keyref="demo1- video-webm"/&gt;   &amp;lt;!-- Subtitle tracks in   English, French and German.   Each key definition provides   a URI and sets type="subtitles". --   &gt;   &amp;lt;media-track srclang="en"   keyref="demo1-video-subtitles-en"/&gt;   &amp;lt;media-track srclang="fr"   keyref="demo1-video-subtitles-fr"/&gt;   &amp;lt;media-track srclang="de"   keyref="demo1-video-subtitles-de"/&gt;   &amp;lt;/video&gt;&lt;/codeblock&gt; &lt;/fig&gt; </pre>	<pre> &lt;fig id="alternate-and-fallback"&gt;   &lt;title&gt;Example of a   &lt;xmlelement&gt;video&lt;/xmlelement&gt;   element with multiple formats and   multilingual subtitles&lt;/ title&gt;   &lt;p&gt;The following code sample   defines multiple presentational   details for a video that is   available in multiple   formats. The video is referenced   using key reference and a fallback   image is provided for   use when the video cannot be   displayed.&lt;/p&gt;   &lt;codeblock&gt;&amp;lt;video   height="300px"   loop="false"   muted="false"   poster="demo1-video- poster"   width="400px"&gt;   &amp;lt;desc&gt;A video illustrating this   procedure.&amp;lt;/desc&gt;   &amp;lt;fallback&gt;   &amp;lt;image href="video-not- available.png"&gt;   &amp;lt;alt&gt;This video cannot be   displayed.&amp;lt;/alt&gt;   &amp;lt;/image&gt;   &amp;lt;/fallback&gt;   &amp;lt;!-- Preview (poster) image,   referenced via key. The key   definition   specifies the URI and the   MIME type --&gt;   &amp;lt;video-poster   keyref="image.demo1-poster"/&gt;   &amp;lt;!-- Multiple formats,   referenced via key. The key   definition   specifies both the URI and   the MIME type --&gt;   &amp;lt;media-source keyref="demo1- video-mp4"/&gt;   &amp;lt;media-source keyref="demo1- video-ogg"/&gt;   &amp;lt;media-source keyref="demo1- video-webm"/&gt;   &amp;lt;!-- Subtitle tracks in   English, French and German.   Each key definition provides   a URI and sets type="subtitles". --   &gt;   &amp;lt;media-track srclang="en"   keyref="demo1-video-subtitles-en"/&gt;   &amp;lt;media-track srclang="fr"   keyref="demo1-video-subtitles-fr"/&gt;   &amp;lt;media-track srclang="de"   keyref="demo1-video-subtitles-de"/&gt;   &amp;lt;/video&gt;&lt;/codeblock&gt; &lt;/fig&gt; </pre>



**Table 3: example-fallback-information-for-multimedia.dita**

Original topic text	New topic text
<pre> &lt;codeblock&gt;&amp;lt;video height="300px"   loop="false"   muted="false"   poster="demo1-video- poster"   width="400px"&gt;   &amp;lt;desc&gt;A video that illustrates how to conduct a system health scan.&amp;lt;/desc&gt;   &lt;b&gt;&amp;lt;fallback&gt;     &amp;lt;image href="video-not- available.png"&gt;       &amp;lt;alt&gt;This video cannot be displayed.&amp;lt;/alt&gt;     &amp;lt;/image&gt;   &amp;lt;/fallback&gt;&lt;/b&gt;   &amp;lt;media-source href="video.mp4" format="video/mp4"/&gt; &amp;lt;/video&gt;&lt;/codeblock&gt; </pre>	<pre> &lt;codeblock&gt;&amp;lt;video height="300px"   loop="false"   muted="false"   width="400px"&gt;   &amp;lt;desc&gt;A video that illustrates how to conduct a system health scan.&amp;lt;/desc&gt;   &lt;b&gt;&amp;lt;fallback&gt;     &amp;lt;image href="video-not- available.png"&gt;       &amp;lt;alt&gt;This video cannot be displayed.&amp;lt;/alt&gt;     &amp;lt;/image&gt;   &amp;lt;/fallback&gt;&lt;/b&gt;   &amp;lt;b&gt;&amp;lt;video-poster keyref="demo1- video-poster"   &amp;lt;media-source href="video.mp4" format="video/mp4"/&gt; &amp;lt;/video&gt;&lt;/codeblock&gt; </pre>

**Table 4: conref-attribute.dita**

Original topic text	New topic text
<pre> ...   &lt;dentry id="media-track- value"&gt;     &lt;dt id="attr- value-track"&gt;&lt;xmlatt&gt;value&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies the URI of the track resource.&lt;/dd&gt;   &lt;/dentry&gt;   &lt;dentry id="video-poster- name"&gt;     &lt;dt id="attr name- poster"&gt;&lt;xmlatt&gt;name&lt;/xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;The value is fixed to &lt;keyword&gt;poster&lt;/ keyword&gt;.&lt;/dd&gt;   &lt;/dentry&gt;   &lt;dentry id="video-poster- value"&gt;     &lt;dt id="attr- value-poster"&gt;&lt;xmlatt&gt;value&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies the URL of the image.&lt;/dd&gt;   &lt;/dentry&gt; &lt;/dl&gt; ... </pre>	<pre> ...   &lt;dentry id="media-track- value"&gt;     &lt;dt id="attr- value-track"&gt;&lt;xmlatt&gt;value&lt;/ xmlatt&gt;&lt;/dt&gt;     &lt;dd&gt;Specifies the URI of the track resource.&lt;/dd&gt;   &lt;/dentry&gt; &lt;/dl&gt; </pre>

Table 5: reuse-w-lwdita/lwdita-attributes.dita

Original topic text	New topic text
<pre> ... &lt;/div&gt; &lt;/section&gt; &lt;/conbody&gt; &lt;/concept&gt; </pre>	<pre> ... &lt;/div&gt; &lt;div id="video-poster" platform="lwdita"&gt;   &lt;p conref="#lwdita- attributes/intro-attributes"/&gt;   &lt;dl&gt;     &lt;dlentry&gt;       &lt;dt&gt;XDITA&lt;/dt&gt;       &lt;dd&gt;The following attributes are available on this element: &lt;ph       conkeyref="reuse- lwdita-attributes/link-relationship- attr"       /&gt;, &lt;ph       conkeyref="reuse-lwdita-attributes/ localization-attr"       /&gt;, &lt;ph       conkeyref="reuse-lwdita-attributes/ universal-attr"/&gt;,       and &lt;xref       keyref="attributes-lwdita-common/ keyref"       &gt;&lt;xmlatt&gt;keyref&lt;/ xmlatt&gt;&lt;/xref&gt;.&lt;/dd&gt;     &lt;/dlentry&gt;     &lt;dlentry&gt;       &lt;dt&gt;HDITA&lt;/dt&gt;       &lt;dd&gt;The following attributes are available on this element: &lt;ph       conkeyref="reuse- lwdita-attributes/link-relationship- attr"       /&gt;, &lt;ph       conkeyref="reuse-lwdita-attributes/ localization-attr"       /&gt;, &lt;ph       conkeyref="reuse-lwdita-attributes/ universal-attr"/&gt;,       and &lt;xref       keyref="attributes-lwdita-common/ keyref"       &gt;&lt;xmlatt&gt;keyref&lt;/ xmlatt&gt;&lt;/xref&gt;.&lt;/dd&gt;     &lt;/dlentry&gt;     &lt;dlentry&gt;       &lt;dt&gt;MDITA&lt;/dt&gt;       &lt;dd&gt;&lt;ph       conkeyref="reuse-lwdita-attributes/ mdita-keyref"/&gt;&lt;/dd&gt;     &lt;/dlentry&gt;   &lt;/dl&gt; &lt;/div&gt; &lt;/section&gt; &lt;/conbody&gt; &lt;/concept&gt; </pre>

## Element reference topic: <video-poster>

---

### Example

See <video>.

## Element reference reuse topic: <video-poster>

---

The video poster specifies the location of a preview image for a video (the "poster").

### Usage information

The video poster is modeled on the @poster attribute used on the HTML5 <video> element.

### Rendering expectations

The poster graphic is displayed while the associated video is loading.

### Attributes

The following attributes are available on this element: , @format, @href, @keyref, and @scope.

For this element, the @href attribute specifies the URI of the poster resource.