

Guide of ISO/IEC 21000-19:2010 Media Value Chain Ontology AMD 1 Extensions on Time-Segments and Multi-Track Audio

REFERENCE SOFTWARE AND UTILITY SOFTWARE

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[Information Technology — Multimedia Framework \(MPEG-21\) — Part 8: Reference Software, AMENDMENT 4: Media Value Chain Ontology Extensions on Time-Segments and Multi-Track Audio](#)

This guide complements ISO/IEC 21000-8:2008 AMD4 which constitutes the reference software for ISO/IEC 21000-19:2010 AMD1. The latter introduces time-segments and multi-track audio in Media Value Chain Ontology (ISO/IEC 21000-19:2010).

1 Introduction

The MVCO Role Verification Device has been updated to support the MVCO Audio Extension. The following use case illustrates composite IP Entities that are made up of other IP Entities on segments and tracks. These IP Entities have different rights holders that are members of collectives.

The Role Verification Device can be started from the command line:

```
java -jar rvd.jar
```

2 Tracks and Segments in the Role Verification Device

Consider a Work, that is made up of a composition associated with a Guitar score and another with the lyrics and melody of the song. The rights holder of the complete Work (*MusicWork*) is a Collective (*Composers*) that has as its members the rights holders (*ComposerGuitar* and *ComposerLyrics*) of the individual works for the guitar composition (*GuitarWork*) and the lyrics/melody (*LyricsWork*).

Step	RVDAC commands
Register user <i>ComposerGuitar</i>	<code>java -jar rvdac.jar -r -cu ComposerGuitar</code>
Register user <i>ComposerLyrics</i>	<code>java -jar rvdac.jar -r -cu ComposerLyrics</code>
Register user collective <i>Composers</i>	<code>java -jar rvdac.jar -r -cc Composers</code>
Connect users to <i>Composers</i>	<code>java -jar rvdac.jar -r -ac ComposerGuitar Composers</code> <code>java -jar rvdac.jar -r -ac ComposerLyrics Composers</code>
Make <i>ComposerGuitar</i> create the work <i>GuitarWork</i>	<code>java -jar rvdac.jar -r -cip ComposerGuitar CreateWork none GuitarWork</code>
Make <i>ComposerLyrics</i> create the work <i>LyricsWork</i>	<code>java -jar rvdac.jar -r -cip ComposerLyrics CreateWork none LyricsWork</code>

Make <i>Composers</i> create the Work <i>MusicWork</i>	java -jar rvdac.jar -r -cip Composers CreateWork none MusicWork
Link individual Works to <i>MusicWork</i>	java -jar rvdac.jar -r -lc MusicWork GuitarWork java -jar rvdac.jar -r -lc MusicWork LyricsWork

The composition is performed by two musicians, a guitarist (*Guitarist*) and a singer (*Vocalist*), who belong to a collective of performers (*Performers*). The performance constitutes a manifestation (*MusicManifestation*), that is made up of two individual manifestations, one for the guitar (*GuitarManifestation*) and one for the vocals (*LyricsManifestation*). In order to make the manifestations three permissions are created. The collective of composers gives a permission to the collective of performers, while the individual composers give permissions to the respective performers.

Step	RVDAC commands
Register user <i>Guitarist</i>	java -jar rvdac.jar -r -cu Guitarist
Register user <i>Vocalist</i>	java -jar rvdac.jar -r -cu Vocalist
Register user collective <i>Performers</i>	java -jar rvdac.jar -r -cc Performers
Connect users to <i>Performers</i>	java -jar rvdac.jar -r -ac Guitarist Performers java -jar rvdac.jar -r -ac Vocalist Performers
Create separate permissions <i>MakeManifestation</i> for <i>Guitarist</i> , <i>Vocalist</i> and <i>Performers</i>	java -jar rvdac.jar -r -cp Composers MakeManifestation MusicWork Performers java -jar rvdac.jar -r -cp ComposerGuitar MakeManifestation GuitarWork Guitarist java -jar rvdac.jar -r -cp ComposerLyrics MakeManifestation LyricsWork Vocalist
Make <i>Manifestations</i>	java -jar rvdac.jar -r -cip Performers MakeManifestation MusicWork MusicManifestation java -jar rvdac.jar -r -cip Guitarist MakeManifestation GuitarWork GuitarManifestation java -jar rvdac.jar -r -cip Vocalist MakeManifestation LyricsWork LyricsManifestation
Link individual Manifestations to <i>MusicManifestation</i>	java -jar rvdac.jar -r -lc MusicManifestation GuitarManifestation java -jar rvdac.jar -r -lc MusicManifestation LyricsManifestation

A recording of the performance is described as an Instance (*MusicInstance*). In this example we assume the rights holders of the Instance to be the performers that made the Manifestations. Three Instances are made. The collective *Performers* makes *MusicInstance*, which is an Instance of *MusicManifestation*. *Guitarist* makes *GuitarInstance*, which is an Instance of *GuitarManifestation*. *Vocalist* makes *LyricsInstance*, which is an Instance of *LyricsManifestation*.

Step	RVDAC commands
Make <i>Instances</i>	<pre>java -jar rvdac.jar -r -cip Performers MakeInstance MusicManifestation MusicInstance java -jar rvdac.jar -r -cip Guitarist MakeInstance GuitarManifestation GuitarInstance java -jar rvdac.jar -r -cip Vocalist MakeInstance LyricsManifestation LyricsInstance</pre>

On the instance level the tracks and segments are described. The recording consists of two tracks, one for the guitar and one for the vocals. The guitar track spans the whole recording, while the vocal track is specified by an interval starting at 30s and ending 150s. The individual performers give the collective *Performers* the permission to “reuse” the individual Instances to be combined in *MusicInstance*.

Step	RVDAC commands
Set the media domain of <i>MusicInstance</i> to audio	<pre>java -jar rvdac.jar -r -sda MusicInstance true</pre>
Create <i>descriptions</i> for the two tracks of <i>MusicInstance</i> , with identifiers 1 and 2	<pre>java -jar rvdac.jar -r -ct MusicInstance 1 java -jar rvdac.jar -r -ct MusicInstance 2</pre>
Members of the collective <i>Performers</i> give rights for reuse to the collective	<pre>java -jar rvdac.jar -r -cp Guitarist Reuse GuitarInstance Performers java -jar rvdac.jar -r -cp Vocalist Reuse LyricsInstance Performers</pre>
<i>Performers</i> put <i>GuitarInstance</i> on track 1	<pre>java -jar rvdac.jar -r -cs MusicInstance GuitarInstance none none 1</pre>
<i>Performers</i> put <i>LyricsInstance</i> on track 1, within an interval specified by start and end times	<pre>java -jar rvdac.jar -r -cs MusicInstance LyricsInstance 30 150 2</pre>

Using additional commands, it is now possible to query the database for information about user collectives and the components of the composite IP Entities.

List members of a user collective:

```
$ java -jar rvdac.jar -r -lcu Composers
RVD Administration Console
ComposerGuitar
ComposerLyrics
```

```
$ java -jar rvdac.jar -r -lcu Performers
RVD Administration Console
Guitarist
Vocalist
```

List components of a composite IP Entity (including locations specified by segment and tracks where applicable):

```
$ java -jar rvdac.jar -r -lic MusicWork
RVD Administration Console
LyricsWork
GuitarWork
```

```
$ java -jar rvdac.jar -r -lic MusicManifestation
RVD Administration Console
LyricsManifestation
Guitarmanifestation
```

```
$ java -jar rvdac.jar -r -lic MusicInstance
RVD Administration Console
LyricsInstance | segment: 30s to 150s | track: 2
GuitarInstance | track: 1
```

The example creates the following RDF in *insta.owl*:

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:mvco="http://purl.oclc.org/NET/mvco.owl#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:avco="http://purl.oclc.org/NET/aumvco.owl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#" >
  <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#GuitarManifestation">
  <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Manifestation"/>
```

```

    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_E2625B7202CB8ED2"/>
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#Guitarist"/>
    </rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_interval_1EE2B5F975C99CA1">
    <avco:onTimeline
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_timeline_AC4432F5C0E759DA"/>
    <avco:end
rdf:datatype="http://www.w3.org/2001/XMLSchema#duration">PT150S</avco:end>
    <avco:start
rdf:datatype="http://www.w3.org/2001/XMLSchema#duration">PT30S</avco:start>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Interval"/>
    </rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_16A4051AAB21C72A">
    <mvco:actedBy
rdf:resource="http://purl.oclc.org/NET/mvco.owl#ComposerGuitar"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#CreateWork"/>
    </rdf:Description>
    <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#MusicInstance">
    <mvco:isMadeUpOf
rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarInstance"/>
    <avco:hasSegment
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_segment_1EE2B5F975C99CA1"/>
    <avco:isAudio
rdf:datatype="http://www.w3.org/2001/XMLSchema#boolean">1</avco:isAudio>
    <avco:hasTrack
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_track_B2691D4B5CD0EDD2"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Instance"/>
    <avco:hasSegment
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_segment_471712372968FF8"/>
    <mvco:isMadeUpOf
rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsInstance"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_3E9C0624EE3F7B"/>
    <avco:hasTrack
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_track_24A973970B4732DD"/>
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <avco:interval
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_interval_AC4432F5C0E759DA"/>
    </rdf:Description>
    <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#GuitarWork">
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#ComposerGuitar"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_16A4051AAB21C72A"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Work"/>
    </rdf:Description>
    <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#Performers">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Collective"/>
    </rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#MusicManifestation">
    <mvco:isMadeUpOf
rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsManifestation"/>

```

```

    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_DDA2DE077E730D10"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Manifestation"/>
    <mvco:isMadeUpOf
rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarManifestation"/>
</rdf:Description>
    <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#LyricsWork">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Work"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_400EEC3900C0ECCD"/>
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#ComposerLyrics"/>
</rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_DDA2DE077E730D10">
    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#MusicWork"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
</rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_400EEC3900C0ECCD">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#CreateWork"/>
    <mvco:actedBy
rdf:resource="http://purl.oclc.org/NET/mvco.owl#ComposerLyrics"/>
</rdf:Description>
    <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_E2625B7202CB8ED2">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Guitarist"/>
    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarWork"/>
</rdf:Description>
    <rdf:Description
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    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarWork"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Guitarist"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
</rdf:Description>
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Segment"/>
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    <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#Guitarist">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#User"/>

```

```

    <mvco:belongsTo rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
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    <mvco:belongsTo rdf:resource="http://purl.oclc.org/NET/mvco.owl#Composers"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#User"/>
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  <rdf:Description
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Vocalist"/>
    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsWork"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#LyricsInstance">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Instance"/>
    <mvco:resultedFrom
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    <mvco:hasRightsOwner
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    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
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  </rdf:Description>
  <rdf:Description
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    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsWork"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Vocalist"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
  </rdf:Description>
  <rdf:Description
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Permission"/>
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Permission"/>
    <mvco:permitsAction
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  </rdf:Description>
  <rdf:Description
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Timeline"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#Composers">

```

```

    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Collective"/>
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  <rdf:Description
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeManifestation"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <mvco:actedOver rdf:resource="http://purl.oclc.org/NET/mvco.owl#MusicWork"/>
  </rdf:Description>
  <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_3E9C0624EE3F7B">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeInstance"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <mvco:actedOver
rdf:resource="http://purl.oclc.org/NET/mvco.owl#MusicManifestation"/>
  </rdf:Description>
  <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_action_9BE4365EA2C99DE3">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#MakeInstance"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Vocalist"/>
    <mvco:actedOver
rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsManifestation"/>
  </rdf:Description>
  <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_track_24A973970B4732DD">
    <avco:trackNumber
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Track"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#GuitarInstance">
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#Guitarist"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_5BC5371EA4B0ECD7"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Instance"/>
  </rdf:Description>
  <rdf:Description
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    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Reuse"/>
    <mvco:actedBy rdf:resource="http://purl.oclc.org/NET/mvco.owl#Performers"/>
    <mvco:actedOver
rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarInstance"/>
  </rdf:Description>
  <rdf:Description
rdf:about="http://purl.oclc.org/NET/mvco.owl#mvco_interval_AC4432F5C0E759DA">
    <avco:onTimeline
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_timeline_AC4432F5C0E759DA"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/aumvco.owl#Interval"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#ComposerLyrics">
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#User"/>
    <mvco:belongsTo rdf:resource="http://purl.oclc.org/NET/mvco.owl#Composers"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://purl.oclc.org/NET/mvco.owl#MusicWork">
    <mvco:isMadeUpOf rdf:resource="http://purl.oclc.org/NET/mvco.owl#LyricsWork"/>
    <mvco:hasRightsOwner
rdf:resource="http://purl.oclc.org/NET/mvco.owl#Composers"/>
    <mvco:resultedFrom
rdf:resource="http://purl.oclc.org/NET/mvco.owl#mvco_action_B67C7286572B666D"/>
    <rdf:type rdf:resource="http://purl.oclc.org/NET/mvco.owl#Work"/>

```



```

    <mvco:isMadeUpOf rdf:resource="http://purl.oclc.org/NET/mvco.owl#GuitarWork"/>
  </rdf:Description>
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