



# CMDI Component Registry

---

**Patrick Duin**

**Max Planck Institute for Psycholinguistics**

**Patrick.Duin@mpi.nl**

**2010**

# Purpose/Use Cases

---



- The current status of CMDI XML toolkit is SVN storage and manual creation of Components/Profiles for the XML savvy. The Component Registry tries to simplify this.

## Register, Browse and Edit

- Register: provide long term storage of Component/Profiles
- Browse: provide easy access to Components/Profiles.
- Edit: Create new and edit existing Components/Profiles

# Component/Profiles

---



CLARIN Metadata component: An aggregation of metadata elements and components aimed at describing a specific aspect of a resource.

Reusable Building block



CLARIN Metadata Profile: A specification of an aggregation of metadata components that can be used to create metadata descriptions. The profile is used to describe all relevant aspects of a resource or collection.

Metadata description of a resource



# Example



Component named “Contact”. Has metadata elements to describe a persons contact information: Name, Address, Email and Organisation.

```
<CMD_ComponentSpec isProfile="false">
  <Header>
    <ID>clarin.eu:cr1:c_1264757339280</ID>
    <Name>component-contact</Name>
    <Description>IMDI components</Description>
  </Header>
  <CMD_Component CardinalityMax="1" CardinalityMin="1" name="Contact">
    <CMD_Element CardinalityMax="1" CardinalityMin="0" ValueScheme="string"
ConceptLink="http://www.isocat.org/datcat/DC-2454" name="Name"/>
    <CMD_Element CardinalityMax="1" CardinalityMin="0" ValueScheme="string" name="Address"/>
    <CMD_Element CardinalityMax="1" CardinalityMin="0" ValueScheme="string"
ConceptLink="http://www.isocat.org/datcat/DC-2521" name="Email"/>
    <CMD_Element CardinalityMax="1" CardinalityMin="0" ValueScheme="string"
ConceptLink="http://www.isocat.org/datcat/DC-2459" name="Organisation"/>
  </CMD_Component>
</CMD_ComponentSpec>
```

# Example Profile

---



- Goal: Create metadata for a video resource



# Kleve-route: Resource

---

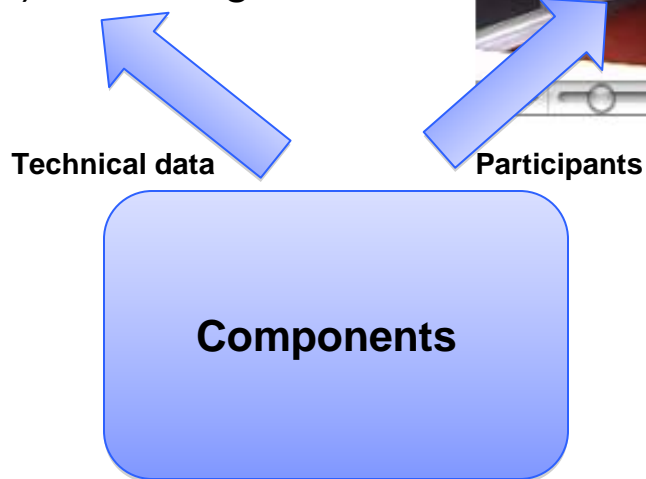
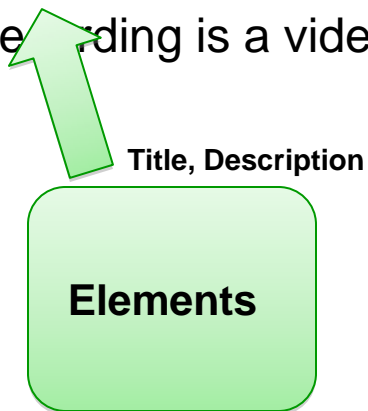


A demo recording of one person explaining how to get to the city of Kleve using speech and gestures and another person listening. Recorded in Nijmegen on 2002-10-30. Titled "Route description to Kleve". Recording is a video (MPEG) recording.



# Kleve-route: Design

A demo recording of one person explaining how to get to the city of Kleve using speech and gestures and another person listening. Recorded in Nijmegen on 2002-10-30. Titled "Route description to Kleve". Recording is a video (MPEG) recording.



# Kleve-route: Profile



## VideoResource

Name

Title

Description

### Participants

Name

Activity

Contact

### TechnicalData

Encoding





# Edit: Add a new Component



## Create Participants Component

**Browse...** **Edit...** **Import...**

**clear** **save in work space** **publish in public space**

Profile  Component

Group Name:

Description:

Name:

Domain Name:

ConceptLink:

**Element:** X

Name:

ConceptLink:

Documentation:

DisplayPriority:

Min Occurrences:

Max Occurrences:

Type:

**AttributeList:** No Attributes  
[+attribute](#)

# Edit: Create a new profile



Reuse existing components!

Profile  Component

Description: Profile to describe video resources

Name: VideoResource

Domain Name: Other

ConceptLink:  Search in isocat...

+element

**Component:** X

Min Occurrences: 1

Max Occurrences: unbounded

ComponentId: Participant

**Component:** X

Min Occurrences: 1

Max Occurrences: 1

ComponentId: Technicaldata

# Browse: Result



Name	Domain Name
VideoResource	Other

Name: **VideoResource**  
Description: Profile to describe video resources

**Element: Name** string  
DisplayPriority: 1  
Number of occurrences: 1 - 1

**Element: Title** string  
Number of occurrences: 1 - 1

**Element: Description** string  
Number of occurrences: 1 - 1

**Component: Participant**  
Number of occurrences: 1 - unbounded

**Component: Technicaldata**  
Number of occurrences: 1 - 1

Ready to be used in  
Metadata Editor (Arbil).

# Publish your profiles

---



save in work space

publish in public space

Work space ▼

Public space

Work space

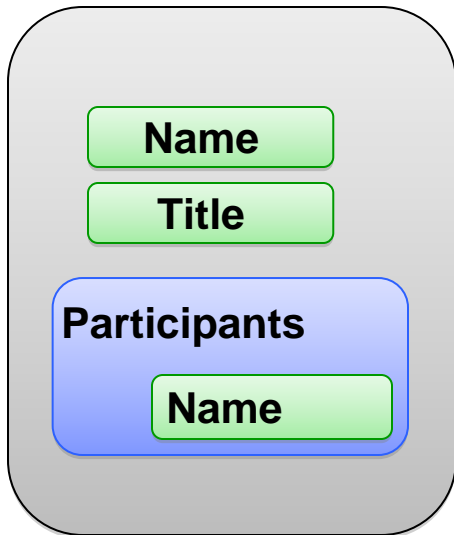
- Work is saved in a work space per user
- Public space is open for everyone
- Profile or Component can be made public when:
  - It is valid (e.g. all fields are filled in correctly).
  - It relies on already public components.

When published a copy is made to the public space, the user space version will still exist.

# Profile to Metadata



## Metadata Profile

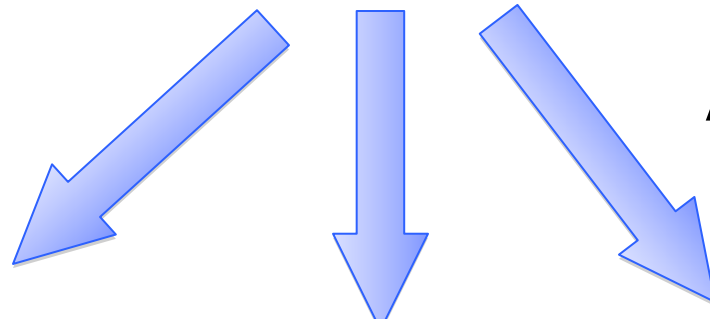


- Download as XML...
- Download as XSD...**
- Edit Item...
- Delete Item...




## XML schema ("grammar")

```
<xs:schema>  
  ...  
</xs:schema>
```




Arbil

```
<CMD>  
  <Name>  
    kleve-route  
  </Name>  
</CMD>
```



```
<CMD>  
  <Name>  
    nijmegen-route  
  </Name>  
</CMD>
```



```
<CMD> .. <CMD>
```

```
<CMD> .. <CMD>
```

```
<CMD> .. <CMD>
```

# Fine tune your profile



- Give hints for other tools



- Documentation: Add some explanation on how to use this element. This can for instance be used as a tooltip.
- DisplayPriority: Should this element be used first in display

The screenshot shows a corpus browser interface. On the left is a tree view with the following structure:

- Local Corpus
  - My Name
    - Participant

On the right is a table showing the field values for the selected 'Participant' element:

Field Name	Value
Name	My Name
Title	My Title
Description	
Technicaldata.encoding	

# Import



If you have Components or Profiles complying to the Component Schema (<http://www.clarin.eu/cmd/general-component-schema.xsd>)

You can upload it by using the import functionality

**Clarín Component Browser**

**Browse...** **Edit...** **Import...**

**Import**  Profile  Component

**Select profile xml...**

Name

Description

Creator Name Patrick Duin

Domain Name **Select a domain...** ▼

**Submit**



- Component Registry can be found from:

<http://www.clarin.eu/cmdr>

- You need to be a member of CLARIN to login.
- Documentation is in: <http://www.clarin.eu/cmdr>
- Questions/Remarks sent to: [cmdr@clarin.eu](mailto:cmdr@clarin.eu)