

Tweak Your CMDI Forms to the Max

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Introduction 1



- Rob Zeeman
- Software engineer @ KNAW Humanities Cluster
 - Department of Digital Infrastructure
 - Team Structured data
- Front-end developer
- Survey apps, editors for crowdsourcing



Introduction 2



- Coping with the flexibility of CMDI profiles
 - Arbil
 - CMDI Maker
 - COMEDI

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CLARIAH CMDI Forms (CCF)



CCF Editor: Basic Principles



- One editor for multiple profiles
- High usability
 - Flexible layout
 - Language versions
 - In-editor validation
- Applicable within existing infrastructures
 - Workflow
 - Branding





The layout of a form for creating CMDI metadata records is defined by:

- The CMDI profile (fields, constraints)
- The CMDI record (in case of mutations)

The CCF Editor uses a third element:

The tweak file





The tweak file contains extra information for the editor, to add elements and functionality, like:

- Human readable field labels
- Flexible field order
- Configurable field types and field sizes
- Default and fallback values
- External vocabularies
- Additional validation





```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ComponentSpec isProfile="true" CMDVersion="1.2" CMDOriginalVersion="1.1" xsi:noNamespaceSchemaLocation="https:/</p>
    <Header>
        <ID>clarin.eu:cr1:p_1440426460262</ID>
        <Name>MeertensCollection</Name>
        <Description>Information on a collection at the Meertens Institute.
        <Status>development</Status>
    </Header>
    <Component name="MeertensCollection" CardinalityMin="1" CardinalityMax="1">
        <Component name="CoreCollectionInformation" ComponentRef="clarin.eu:cr1:c_1440426460261" CardinalityMin=</pre>
            <Element name="creator" ConceptLink="http://purl.org/dc/terms/creator" ValueScheme="string" Cardinal</pre>
            <Element name="title" ConceptLink="http://purl.org/dc/terms/title" ValueScheme="string" CardinalityM</pre>
            <Element name="description" ConceptLink="http://purl.ora/dc/terms/description" ValueScheme="string"</pre>
            <Element name="created" ConceptLink="http://purl.org/dc/terms/created" ValueScheme="string" Cardinal</pre>
            <Element name="rights" ConceptLink="http://purl.org/dc/terms/rights" CardinalityMin="0" CardinalityM</pre>
                <ValueScheme>
                    <Vocabulary>
                         <enumeration>
                             <item ConceptLink="" AppInfo="">Open Access Creative Commons Zero Waiver</item>
                             <item ConceptLink="" AppInfo="">Open Access</item>
                             <item ConceptLink="" AppInfo="">Restricted Access</item>
                            <item ConceptLink="" AppInfo="">Other Access</item>
                        </enumeration>
                    </Vocabulary>
                </ValueScheme>
            </Element>
```





```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ComponentSpec xmlns:clariah="http://www.clariah.eu/" xmlns:cue="http://www.clarin.eu/cmdi/cues/1">
    <Header>
        <ID>clarin.eu:cr1:p_1440426460262</ID>
    </Header>
    <Component name="MeertensCollection">
        <clariah:label xml:lang="nl">Meertens collectie</clariah:label>
        <Component name="CoreCollectionInformation">
            <clariah:label xml:lang="nl">Core-collectie informatie</clariah:label>
            <Element name="creator">
                <clariah:label xml:lang="nl">Auteur</clariah:label>
            </Element>
            <Element name="title" cue:displayOrder="2">
                <clariah:label xml:lang="nl">Titel</clariah:label>
            </Element>
            <Element name="description" CardinalityMin="1" cue:inputWidth="80" cue:inputHeight="5">
                <clariah:label xml:lang="nl">Beschrijving</clariah:label>
            </Element>
            <Element name="language">
                <clariah:label xml:lang="nl">Taal</clariah:label>
                <ValueScheme>
                    <Vocabulary URI="https://hdl.handle.net/11459/CLAVAS_810f8d2a-6723-3ba6-2e57-41d6d3844816"</pre>
                </ValueScheme>
            </Element>
            <Element name="collectionID" cue:displayOrder="1">
                <clariah:label xml:lang="nl">Collectie ID</clariah:label>
```





CLARIAH CMDI Forms	Rob Zeeman
Meertens collectie Core-collectie informatie	
Collectie ID *	
Titel *	
Beschrijving	
Taal	nl
dut nl 🗘 +	
Dutch Sign Language	-
Dutton World Speedwords	
Dutch	
Inventory ✓	
ОК	



CCF Editor: Demo



 You are all invited to visit our demo at the poster session later this day!

Inhoud ×	
Informatie resource × + Bladeren pisa.jpg	Uploading
Inventaris ID *	+
Beschrijving *	nl 💠 +
Medium Doosnummer	
Medium	+
Medium *	
Omvang ×	
Aantal *	



CCF Editor: Components

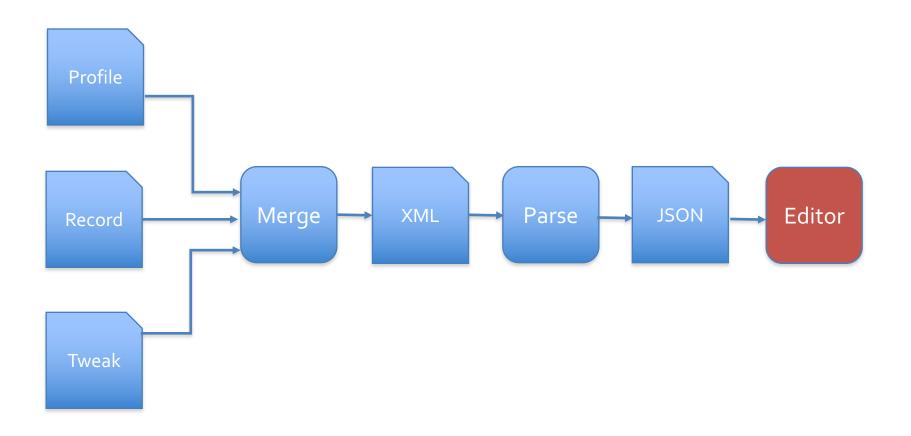


- Server-side
 - CCF Parser (pluggable PHP class)
 - CCF RecordBuilder (idem)
 - XSLT for merging CMDI profiles and tweaks
- Client side
 - CCF FormBuilder (Javascript, Jquery plugin)
 - CSS for styling



CCF Editor: Components







CCF Editor: Components



- The CCF Editor can be incorporated in any web application that's based on PHP and Javascript.
- In the first official release of the CCF Editor a small host application will be added, for testing and eventually production.



CCF Editor: CMDI support



- CMDI 1.1 support (attributes to be completed)
- CMDI 1.2 support
 - Autoderivation rules, like now, fileSize, fileModification, default and fallback
 - Cues for tools, like displayOrder, hide, resource, inputWidth and inputHeight



Status



- Test version ready
- Pluggable version in development for
 - MI FLAT, the digital archive of the Meertens Institute
 - Timbuctoo, an open source repository system of Huygens ING https://www.huygens.knaw.nl/timbuctoo/
- First production version ready early 2019



Conclusions



- The CLARIAH CMDI Forms application provides a new CMDI editing environment for records based on arbitrary profiles, but with extensive possibilities, based on CMDI 1.2 features and some extensions, to tweak the profile information for a maximum user-friendly editing experience.
- In addition to this CCF can be embedded in other environments.



Future work



- Conditional validation
- Tabulation
- Wizard for creating tweak files

 Follow the progress on GitHub <u>https://github.com/knaw-huc/clariah-cmdi-forms</u>

