
Julie Allinson
(Notch8)

Arwen Hutt
(UCSD)



NOTCH8 &
UC **SAN DIEGO**

How Meta is your Metadata?

Designing a Meta-Metadata Specification for Hyrax

Samvera Connect 2019
WashU, St Louis, MO

The problem

Metadata profiles need to be written and then manually translated into code

- Metadata modelling is hard and time-consuming
 - Hyrax is very flexible
...but configuring new metadata properties is fiddly, and needs a developer
-

M3 Working Group

- Shared, community developed approach to representing metadata models
 - Included developers, metadata analysts, hyrax implementers, non-hyrax implementers
 - Not application specific
-

What's been done

- Shared terminology for meta-metadata
 - Review of format options
 - Draft specification!
 - Json schema
 - Example data models
 - GitHub repo with yaml and json schema validation
-

profile:

administrative information
about the metadata profile/data
model being defined by the file

mappings:

definition of the mappings to
different services or target
schemas referenced

classes:

definition of classes* used

properties:

property_name
display_label
definition
usage_guidelines
requirement
controlled_values
sample_value
property_uri
available_on
range
data_type
syntax
cardinality
index_documentation
indexing
validations
mapping

Ensuring consistency

- A written example and instructions is great ... but creating YAML files manually can easily lead to variations
 - This might be OK for humans, but computers prefer exactness
-

—

cardinality:
minimum: "1"

date_created:
- default: 'Date
created'

cardinality:
minimum: 1

Date_created:
default: "Date
created"

Validation

- Validation of the profile with a YAML validation tool
 - checks for syntactic errors, like a missing quote mark or curly brace
 - Validation of the profile against a JSON Schema
 - checks that the content adheres to a set of rules
-


```
—  
"indexing": {  
  "type": "array",  
  "items": {  
    "type": "string",  
    "enum": [  
      "displayable",  
      "facetable",  
      "searchable",  
      "sortable",  
      "stored_searchable",  
      "stored_sortable",  
      "symbol",  
      "fulltext_searchable"  
    ]  
  }  
}
```



```
indexing:  
- "searchable"  
- "facetable"
```

```
indexing:  
- "foo"  
- "bar"
```

M3 & Hyrax

- Could we have Hyrax consuming M3 profiles?
 - Could we dynamically generate models, forms, indexers, presenters?
 - Could metadata librarians define and maintain their metadata profiles without developers having to implement them?
-

Pre-M3 - Approaches in the wild

- DIY - lots of examples of local work customisation
 - Gems:
 - Dog Biscuits
 - Scooby Snacks
 - Archetypes
-

Flexible Metadata at Indiana

- Prototyping dynamic metadata generation with an m3 profile
 - UI for profile loading / creating / editing
 - Associating properties with works, indexers, presenters and forms
 - Services for loading and validating
-

ACTIVITY

 Your activity >

 Reports

REPOSITORY CONTENTS


 Collections

 Works

 Flexible Metadata Profiles

M3 Profiles

 Import Profile

Name	Version	Profile Type	Created At	Updated At	
essi	0.1	concept	Oct 20, 2019	Oct 20, 2019	  

Edit Flexible Metadata Profile

Description

Version

0.1

Profile:

Name **required**

essi

Profile type

concept

Responsibility **required**

https://indiana.edu/

Responsibility statement

Indiana University

Date modified

2019-07-28

Prototyping dynamic metadata generation


Not Secure | essi.docker/dashboard/my/m3_profiles?locale=en

metadata_profiles

Search

Today

- essiyaml



essiyaml
YAML Document - 935 bytes

Tags Add Tags...

Created Today, 12:10 PM
Modified Today, 12:10 PM

Options Cancel Open

Settings >

Workflow Roles

The image shows a web browser window displaying a file manager interface. The address bar shows the URL 'Not Secure | essi.docker/dashboard/my/m3_profiles?locale=en'. The main content area shows a folder named 'metadata_profiles' containing a file named 'essiyaml'. The file is a 'YAML Document' of 935 bytes, created and modified on 'Today, 12:10 PM'. The interface includes a sidebar with navigation options like 'Favorites', 'iCloud', 'Locations', 'Media', and 'Tags'. At the bottom, there are buttons for 'Options', 'Cancel', and 'Open', and a dark footer with 'Settings' and 'Workflow Roles'.

Specification Maintenance

Define processes for reviewing contributions and suggestions to the specification, review contributions, specification updating.

Specification maintenance group, similar to the [URI Selection Working Group](#)

Documentation Generation

Jekyll/GitHub setup and configuration
recommendations

Create templates for documentation outputs

questions?

<https://github.com/samvera-labs/houndstooth>
Samvera slack #m3
