VCoI

11 Jan 2021

# Attendees

* Cory Casanave MDS
* Rob Nehmer
* Mike Bennett
* Elisa Kendall
* Claude Baudoin
* Stephen Powley
* Bobbin Teegarden

# Agenda

* Continuing on
  + The 4 or so workstreams – sum up
* Updates
  + Stephen updates on questions from last time
  + And new things to look at out there
* MVF (update from Elisa)

# Meeting Notes

## Threads

* Linking Word, Concept Context (the calculus)
* Concepts
* Presentation
* Definitions

## Updates / findings

Things people have found out there…

### Stephen

Challenges from last time

MB pointed out a possible inversion of Symbol v Representation in the labeling of matter in the metamodel

Solid foundation for the structure of words themselves

* Found a morpheme ontology called MMoOn

See:

<https://mmoon.org/>

Stephen shows some features from MMoOn and the paper (see Links section at the end)

#### Jottings

Peirce

Morphs and morphemes

Signs of icons

Content v form

Form may be written ,spoken, BSL/ASL, hieroglyphics etc.

So morph all fits into Peirce

#### Moon ontology

EK is this linked to the Lemon ontology?

* Also deals with this issues
* EK will share a link to that

There is overlap with Lemon

Also some overlap with MVF

MVF does not deal with the lexical stuff but talks to vocabularies and terms.

MVF extension vocabularies relate to terminological vocabularies, ISO 1087, ontological representation of that.

MVF Core has ‘fragments’ of what is needed. 3 ontologies – see MVF section below.

Previously had a quasi UML model, now being supplemented by a formal ontology - EK working with contributors there for that as part of MVF.

May have a revised submission or a checkpoint for March for MVF.

* Metamodel in good shape
* Discussions on API requirements ongoing

There is a whole section on the relationships between MMoon and Lemon.

MMoOn is very new so not very widely used. MMoOn seems to extend Ontolex Lemon ontology and extends that.

Who is working on that? Group from Leipzig.

Semantic Web journal, 2020 Q4 proceedings.

#### Lemon v SKOS

Q: Is Lemon trying to take over from SKOS?

EK: they are orthogonal. Lemon about lexical schemes; SKOS about concept schemes.

#### Sparx?

Using Sparx EA for the UML diagrams / models

### Updates: Mike

* Tool called Rosie (open source but not free)
  + May use parts of this to help us visualize possible presentation arrangements?
* ISO (BSI) Blockchain vocabulary
  + Could not find it. Look another time
  + Look at this for presentation format (basic dictionary layout) and for example terms and definition of the kind a TF or SIG would want (in this case, Blockchain PSIG)

## MVF Upate

### MB Summary of our ideas of it so far

We were looking for a core thing that could implement our calculus of Word v Concept v Context (word disambiguation and context formal treatment). We figured that MVF could well be it – although this was initially developed with the intended purpose of annotating models, which we are not doing. So we want to be able to work with MVF to ensure that it is able to support OMG TF and SIG Vocabulary requirements (e.g. wiki and OMG document requirements) over and above it usage on models annotation.

Hence today’s update.

### Overview

3 ontologies corresponding to

* The MVF metamodel
* Core Terms and Definitions Extension for ISO 1087 notions of concept and term / kinds of terms (incl abbreviations, symbols)
* Dictionaries / Terminologies – extensions for logical dictionaries (glossary, vocabularies etc.)
  + That is the contextual ones cf SBVR Speech Community v Semantic Community
  + Also has notion of Communities (in the Core MVF ontology)

Our ambition is to provide the glue between Terms, Concepts and Concept. So you can ingest or use SKOS, maybe Lemon etc.

Designation in ISO 1087 corresponds to Vocabulary Entry in MVF (under MVF Entry)

Vocab entry is a kind of MVF Entry (term, phrase, name for a thing, symbol etc.)

Don’t have all that detail in the MVF Metamodel but the extension in the ontology does have that.

MVF Entry v anything in any model

Terms and symbols and abbreviations

Elisa reply also has the 3 ontologies attached, as well as the metamodel

[After the call: MB checks to see if it the same as the diagram I was showing, dated 28 September 2020: it is the identical diagram (not just the same model)]

May be in the MVF Wiki.

May put these in our wiki as a snapshot but be aware there will later be current versions in the MVF wiki. So we will denote our copies as snapshots in time, and include current links when they are available.

### XKOS

Standard by the DDI Alliance, for statistics.

SMDX – how does this relate to that?

Link is in EK emails to MB n add it to the wiki in the new Resources section

## AoB

Let’s talk next week about how to organize the different topics in these calls.

MB will update the wiki

Next call – 18 Jan – MLK Day but we will meet next week.

Calendar: need to add some people (CC)

Cc Stephen as well (not on OMG Mail list) And / or add Stephen to the mail list (currently an open list?). Since a WG can’t issue an RFP anyone can be on the mail list for 1 year without being a member (and the 1 year rule is currently suspended while we are not having in person meetings).

SO – instead of CC’ing Stephen, send him the non-member instructions on how to join a mail list. Or MB can get him added directly.

As sent only to the VCOI mail list

MB resend the series to the VCoI (when I’m clear about the meeting numbers)

# Links

## MMoOn

\* <http://mmoon.org>

\* <https://github.com/MMoOn-Project/MMoOn>

\* Main MMoOn paper "MMoOn Core - The Multilingual Morpheme Ontology" <http://www.semantic-web-journal.net/content/mmoon-core-multilingual-morpheme-ontology-0>

\* Main file <https://raw.githubusercontent.com/MMoOn-Project/MMoOn/12e8df18a73b2eec59afdd2a5d92bca28cc48b93/core.ttl>

## Signs and icons (extensions to Peirce)

\* Prolegomena to a General Theory of Iconicity. Considerations on Language, Gesture, and Pictures <https://www.researchgate.net/publication/266474414_Prolegomena_to_a_General_Theory_of_Iconicity_Considerations_on_Language_Gesture_and_Pictures>

## Lemon

<https://lemon-model.net/>

## MVF

### Wiki

<http://www.omgwiki.org/mvf-rfp/doku.php?id=start>

### MVF Page on Metamodel

<http://www.omgwiki.org/mvf-rfp/doku.php?id=mvf:metamodel>