

TMCL Issues addressed in Leipzig 2007



TMCL OWL

- Conversion back and forth between OWL and TMCL needs to be considered carefully. There should be no unnecessary incompatibilities.
 - Not yet addressed.

- Marketing job on TMCL
- OWL to TMCL mapping
- Cursory glance across the two to avoid catastrophic faux pas



TMCL Validate

Given:

TopicMap: t Constraint : c Then: Validate(t, c) => true | false

This is out of date, no? There is a good point here, though. Prof Lee wants to be able to have the schema in a separate TM. Would be good to be clear on how that's possible.

>> You misunderstand. It doesn't say where the Constraint C comes from. i.e it can be anywhere, any map.



TMCL Import Directive

%import http://www.isotopicmaps.org/tmcl/templates as tmcl

Actually not a TMCL directive, but a predefined URI for a "magic" CTM file.

>> Prose needs fixing as this is a CTM directive.

URI should perhaps end in .ctm?

>> yes.



TMCL Schema

%import http://www.isotopicmaps.org/tmcl/templates as tmcl *schema http://www.example.com/myschema

Why *schema if there's only one? Also, could we define %include in CTM in such a way that that the "*schema" topic can be defined in the included CTM file? Or, actually, is it that way already? I think this problem is avoidable.

- >> This is issue is due to the fact that the templates cannot return a new constraint and need to attach it to something. We could force people to pass in the schema topic.
- >> It could be defined in the import. Yes do it.



TMCL Schema

schema

http://psi.isotopicmaps.org/tmcl/schema isa http://psi.isotopicmaps.org/tmcl/topictype

Should this topic be called tmcl-schema instead?

>> Maybe, but related to previous issue.

>> Maybe yellow box wrong. Yes.



TMCL Namespace in CTM

The CTM here should use the new default namespace feature of CTM.

>> sure.



TMCL Constraint Eval Function Name

constraint_eval_function http://psi.isotopicmaps.org/tmcl/constraint_eval_function isa http://psi.isotopicmaps.org/tmcl/occurrencetype

Could we think of a better name for this one?

>> I quite like it as it states pretty clearly what it is.

constraint_eval_semantic?

>> General review of the naming in TMCL.



TMCL topictype isa topictype

topictype is a topictype, surely?

>> probably. topic-type



TMCL constraint in map

def TopicTypeConstraint()
*ttc1 isa topicTypeConstraint
*ttc1 constraint_eval_function """
TMQL for if any topics used as a topic type and not instance of topictype then fail.
"""

```
AddConstraintToSchema(*schema, *ttc1)
End
```

Do we actually need this in the topic map? Better just to have in spec.

What if I put it in with different TMQL? What does that mean?

>> the whole point is that all constraints are defined this way. So I think they should be in the map.



TMCL CTM template prefix

We killed the ability in CTM to import templates with a prefix. Might want to reinstate that, or alternatively allow templates to be defined with a QName. That is, you write def tmcl:topictypeconstraint() ...

>> Check again with the latest CTM draft.



TMCL topictypeconstraint

// create topic type constraint topic
tmcl:topictypeconstraint()

Why should the user have to invoke this template? Can't the CTM file we include do it? Given that it must always be there, I mean. And why do we need it in the TM at all.

Same for assoctype, roletype etc.

>> you might not want to have this validation but have others and you should be able to express that. If its always on in validation that's a problem.



TMCL nametype

Missing nametype

>> yep.



TMCL name for catt

Steve suggested applies-to

>> maybe, lets discuss.



TMCL template defs

If you (1) use the default namespace feature, (2) define a nice template for catt, and (3) use topic blocks in the actual constraint templates, I think this can become quite nice and clean.

>> great



TMCL standard constraints

- Consider defining TMQL queries for standard constraints in the specification only without putting them into CTM templates. E.g. topicoftype constraint
- >> leave as is and NB to review.



TMCL sledgehammer query

- >> we need a constraint for finding if there are constructs defined that are not covered by any constraints.
- LMG did part of this, looks good and will replicate and complete in the next draft



TMCL template defs

- SubjectIdentifierConstraint(person, 1, 1, "*"), Say I wanted any number of SIs to be allowed; how would I write that? As far as I can tell, I must give an integer...
- use strings and casts
- extra templates
- named parameters, with IF in template
- default values _ e.g with use strings and casts
- overloading, same name, different signatures. +1
- leave as is
- Write up examples of all of these for discussion. Definition and invocation.



TMCL binary assoc templates

- Binary associations should use a simplified template
- Yes. Will be added to next draft.



TMCL Scoping Constraints

Possibly underpowered in current draft.

Needs more discussion.



TMCL *schema

- Current situation with '*schema' does not look very attractive, consider including '*schema' inside of the TMCL standard declaration and using "%include" directive in CTM
- yep.