**2018-07-18 - SLPG Meeting**

**Date & Time**
20:00 UTC Wednesday 18th July 2018

**Teleconference Details**
To join the meeting please go to [https://snomed.zoom.us/j/471420169](https://snomed.zoom.us/j/471420169). Further information can be found at SLPG meeting information

**Goals**
- URI standard
- Recap purpose of computable language URIs
- Review language URIs
- Proposed language features
- Transitive relationships in ECL
- Ability to execute maps from within ECL
- Progress SNOMED Query language
- Discuss use of multiple language reference sets

**Attendees**
- Chair: Linda Bird
- Project Group: Michael Lawley, Harold Solbrig, Rob Hausam

**Apologies**
Anne Randorf Hejen

### Agenda and Meeting Notes

<table>
<thead>
<tr>
<th>Description</th>
<th>Owner</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Welcome and apologies</td>
<td>Linda Bird</td>
<td>Recap on purpose of SNOMED CT computable language URIs</td>
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<tr>
<td>URI Specification</td>
<td>Linda Bird</td>
<td>Recap on language instance URIs (e.g. URIs for expressions and expression constraints)</td>
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<td>Proposed Language Features</td>
<td>Linda Bird</td>
<td>Other topics for discussion. For example:</td>
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<td>- ECL suggestions - Ability to execute maps in ECL (to align with new enhanced DL axioms)</td>
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<td></td>
<td>- Transitive relationships and role chaining in ECL</td>
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<td>- Example 1:</td>
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<td>- Direct relationship &lt; 404684003</td>
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<td></td>
<td></td>
<td>- Transitive relationship &lt; 404684003</td>
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<td>- Example 2:</td>
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<td>- Direct relationship &lt; 71388002</td>
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<td>- Role chained relationship (via 738774007</td>
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<td>- The specific use-case here comes initially from Jeremy and relates to being able to work with inactive concepts via the historical association maps. For example, given an ECL expression, e, that identifies a set of concepts to be used for retrieving patient records, you probably also want to retrieve records for sameAs(e) and replacedWith(e)</td>
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<td>- Example 1:</td>
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<td>- ??? (&lt; 72704001</td>
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<td>- Query language - Can we de-scope relationship filters?</td>
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### Examples: version and language

- `<<< 64572001 |Disease| {{ term = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/version/20180131`
- `<<< 64572001 |Disease| {{ synonym = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/version/20180131`
- `<<< 64572001 |Disease| {{ FSN = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/version/20180131`
- `<<< 64572001 |Disease| {{ preferredTerm = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/version/20180131, LANGUAGE W`
- `<<< 64572001 |Disease| {{ acceptableTerm = "*heart*" }} VERSION http://snomed.info/sct/900000000000207008/version/20180131, LANGUAGE Y`

#### Notes

- Allow nested where, version, language
- Scope of variables is inner query

### Examples: where

- `X MINUS >! X WHERE X = (<< 1234 : 5678 = << 6547) VERSION http://snomed.info/sct/900000000000207008/version/20180131`

#### Notes

- Allow nested variable definitions, but recommend that people don’t due to readability
- Scope of variables is the inner query
- No recursion e.g. `X WHERE X = 1234 MINUS X`
  - Also can’t use a variable in its own definition
  - X is only known on the left of the corresponding `WHERE`, and not on the right of the `WHERE`
Keywords for Term-based searching:

- **D.term**
  - D.term = "*heart"
  - D.term = wild:"*heart"
  - D.term = regex:"*heart"**
  - D.term = match:"hear att"
  - D.term = (sv) wild: "*heart"

- **D.languageCode**
  - D.languageCode = "en"
  - D.languageCode = "es"

- **D.caseSignificance**
  - D.caseSignificance = 900000000000448009 |entire term case insensitive|
  - D.caseSignificance = 900000000000017005 |entire term case sensitive|
  - D.caseSignificance = 900000000000020002 |only initial character case insensitive|

- **D.type**
  - D.type = "FSN"
  - D.type = "fullySpecifiedName"
  - D.type = "synonym"
  - D.type = "textDefinition"

- **D.acceptabilityId**
  - D.acceptabilityId = 900000000000549004 |acceptable|
  - D.acceptabilityId = 900000000000548007 |preferred|

- **D.acceptability**
  - D.acceptability = "acceptable"
  - D.acceptability = "preferred"

Additional Syntactic Sugar

- **FSN**
  - FSN = "*heart"
    - D.term = "*heart", D.type = "FSN"
  - FSN = "*heart" LANGUAGE
    - D.term = "*heart", D.type = "synonym", D.acceptability = "LANGUAGE"
  - FSN = "*heart", D.type = "synonym", D.acceptability = "LANGUAGE",
    - D.acceptabilityId = "LANGUAGE"

- **synonym**
  - synonym = "*heart"
    - D.term = "*heart", D.type = "synonym"
  - synonym = "*heart" LANGUAGE
    - D.term = "*heart", D.type = "synonym", D.acceptability = "LANGUAGE"
  - synonym = "*heart", D.type = "synonym", (D.acceptabilityId = 900000000000549004 |acceptable| OR D.acceptabilityId = 900000000000548007 |preferred|) LANGUAGE

- **synonymOrFSN**
  - synonymOrFSN = "*heart"
    - synonym = "*heart" OR FSN = "*heart"
    - D.term = "*heart", (D.type = "synonym" OR D.type = "fullySpecifiedName")
  - synonymOrFSN = "*heart" LANGUAGE
    - synonym = "*heart" OR FSN = "*heart" LANGUAGE
    - D.term = "*heart", (D.type = "synonym" OR D.type = "fullySpecifiedName"), D.acceptability = "LANGUAGE"

- **textDefinition**
  - textDefinition = "*heart"
    - textDefinition = "*heart" LANGUAGE
    - D.term = "*heart", D.type = "definition"
    - D.acceptabilityId = "LANGUAGE"

- **Unacceptable Terms**
  - (D.term = "*heart") MINUS (D.term = "*heart", D.acceptability = "LANGUAGE")
Language preferences using multiple language reference sets

- LRSs that use the same Language tend to use 'Addition' - i.e. child LRS only includes additional acceptable terms, but can override the preferred term
  - E.g. Regional LRS that adds local dialect to a National LRS
  - E.g. Specialty-specific LRS
  - E.g. Irish LRS that adds local preferences to the en-GB LRS
- LRSs that define a translation to a different language tend to use 'Replacement' - i.e. child LRS replaces set of acceptable and preferred terms for any associated concept
  - E.g. Danish LRS that does a partial translation of the International Release
    - 999999 [Danish language reference set] ELSE [GB English reference set]

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<tr>
<th>Other topics</th>
<th>Linda Bird</th>
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<tr>
<td>Confirm next meeting date/time</td>
<td>Linda Bird</td>
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<td>The next SLPG meeting will be held in 2 weeks at 20:00 UTC on <strong>Wednesday 1st August</strong> (to be confirmed).</td>
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File

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No files shared here yet.