**2018-08-15 - SLPG Meeting**

**Date & Time**
20:00 UTC Wednesday 15th August 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
  - Review use cases for computable language instance URI
- Review language instance URIs
- Proposed language features
  - Transitive relationships in ECL
  - Ability to execute maps from within ECL

**Attendees**
- Chair: Linda Bird
- Project Group: Ed Cheetham, Michael Lawley, Harold Solbrig, Rob Hausam, Anne Randorff Højen

**Apologies**

**Agenda and Meeting Notes**

<table>
<thead>
<tr>
<th>Description</th>
<th>Owner</th>
<th>Notes</th>
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<tr>
<td>Welcome and apologies</td>
<td>Linda Bird</td>
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</table>
| URI Specification            | Linda Bird | • Review use cases for computable language instance URI  
|                              |          | • Review language instance URIs                                       |
| Proposed Language Features   | Linda Bird | Other topics for discussion. For example:  
|                              |          | • ECL suggestions  
|                              |          |  - Transitive relationships and role chaining in ECL (to align with new enhanced DL axioms)  
|                              |          |  - Example 1:  
|                              |          |   - **Direct relationship** < 404684003 (Clinical finding): << 246075003 (Causative agent) = << 58800005 (Streptococcus (organism))  
|                              |          |   - **Transitive relationship** < 404684003 (Clinical finding): << 246075003 (Causative agent) = << 58800005 (Streptococcus (organism))  
|                              |          |  - Example 2:  
|                              |          |   - **Direct relationship** < 71388002 ?:: 363701004 (Direct substance) = 372687004 (Amoxicillin)  
|                              |          |   - **Role chained relationship (via 738774007 |is modification of|)** < 71388002 ?:: 363701004 (Direct substance) = 372687004 (Amoxicillin)  
|                              |          |  - 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)  
|                              |          |  - Example 1:  
|                              |          |   - ??? (< 72704001 [Fracture] AND 900000000000527005 [SAME AS association reference set]) = 900000000000533001 [Association target component])  
|                              |          |  - Query language - Can we de-scope relationship filters? |

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Example 1:
```
???(< 72704001 [Fracture] AND 900000000000527005 [SAME AS association reference set]) = 900000000000533001 [Association target component])
```
<table>
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<tr>
<th>Query Language - Summary from previous meetings</th>
<th>Linda Bird</th>
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<tr>
<td><strong>Examples: version and language</strong></td>
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<tr>
<td>• &lt;&lt; 64572001</td>
<td>Disease</td>
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<td>• &lt;&lt; 64572001</td>
<td>Disease</td>
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<tr>
<td>• (* {{ term = &quot;&quot;heart&quot;&quot; }} ) VERSION</td>
<td><a href="http://snomed.info/sct/900000000000207008">http://snomed.info/sct/900000000000207008</a> /version/20180131, LANGUAGE Z MINUS</td>
</tr>
<tr>
<td>• X MINUS Y WHERE X = * , Y = (* {{ term = &quot;&quot;heart&quot;&quot; }} ) VERSION</td>
<td><a href="http://snomed.info/sct">http://snomed.info/sct</a> /900000000000207008 /version/20180131, LANGUAGE W</td>
</tr>
</tbody>
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**Notes**
- Allow nested where, version, language
- Scope of variables is inner query

<table>
<thead>
<tr>
<th>Examples: where</th>
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<tbody>
<tr>
<td>• X MINUS &gt;! X WHERE X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547)</td>
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<tr>
<td>• X MINUS &gt;! X WHERE X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) VERSION</td>
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<tr>
<td>• X MINUS &gt;! Y WHERE X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547), Y = (&lt;&lt; 1456) VERSION</td>
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<tr>
<td>• X MINUS &gt;! X WHERE X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) VERSION</td>
</tr>
<tr>
<td>• X MINUS &gt;! X WHERE X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) VERSION</td>
</tr>
<tr>
<td>• X minus &gt;! X WHERE X = ( &lt; M WHERE M = (&lt;&lt; 1234)) VERSION</td>
</tr>
</tbody>
</table>

**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
  - x 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.caseSignificanceId**
  - D.caseSignificanceId = 900000000000000004 |entire term case insensitive|
  - D.caseSignificanceId = 900000000000000005 |entire term case sensitive|
  - D.caseSignificanceId = 900000000000000002 |only initial character case insensitive|

- **D.caseSignificance**
  - D.caseSignificance = "insensitive"
  - D.caseSignificance = "sensitive"

- **D.typeId**
  - D.typeId = 900000000000000001 |fully specified name|
  - D.typeId = 900000000000000009 |synonym|
  - D.typeId = 900000000000000004 |definition|

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

- **D.acceptabilityId**
  - D.acceptabilityId = 900000000000000004 |acceptable|
  - D.acceptabilityId = 900000000000000007 |preferred|

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

Additional Syntactic Sugar

- **FSN**
  - FSN = "*heart"
  - D.term = "*heart", D.type = "FSN"
  - D.type = "FSN" LANGUAGE X

- **synonym**
  - synonym = "*heart"
  - D.term = "*heart", D.type = "synonym"
  - D.type = "synonym" LANGUAGE X

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

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

- **Unacceptable Terms**
  - (D.term = "*heart") MINUS (D.term = "*heart", D.acceptability = "LANGUAGE X")
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]

<table>
<thead>
<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 4 weeks at 20:00 UTC on Wednesday 12th September (to avoid the MAG meeting in 2 weeks).</td>
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File

No files shared here yet.