

# 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>.

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 Randorff Højen](#)

## Agenda and Meeting Notes

Description	Owner	Notes
Welcome and apologies	<a href="#">Linda Bird</a>	
URI Specification	<a href="#">Linda Bird</a>	<ul style="list-style-type: none"><li>• Recap on purpose of SNOMED CT computable language URIs</li><li>• Recap on language instance URIs (e.g. URIs for expressions and expression constraints)</li></ul>
Proposed Language Features	<a href="#">Linda Bird</a>	<p>Other topics for discussion. For example:</p> <ul style="list-style-type: none"><li>• ECL suggestions - Ability to execute maps in ECL<ul style="list-style-type: none"><li>◦ Transitive relationships and role chaining in ECL (to align with new enhanced DL axioms)<ul style="list-style-type: none"><li>▪ Example 1:<ul style="list-style-type: none"><li>• <b>Direct relationship</b> &lt; 404684003  Clinical finding : &lt;&lt; 47429007  Associated with  = *</li><li>• <b>Transitive relationship</b> &lt; 404684003  Clinical finding : &lt;&lt; 47429007  Associated with * = *</li></ul></li><li>▪ Example 2:<ul style="list-style-type: none"><li>• <b>Direct relationship</b> &lt; 71388002   : 363701004  Direct substance  = 372687004  Amoxicillin </li><li>• <b>Role chained relationship (via 738774007  is modification of )</b> &lt; 71388002   : 363701004  Direct substance * = 372687004  Amoxicillin </li></ul></li></ul></li><li>◦ 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)<ul style="list-style-type: none"><li>▪ Example 1:<ul style="list-style-type: none"><li>• <b>??? (&lt; 72704001  Fracture  AND ^ 900000000000527005  SAME AS association reference set ) . 900000000000533001  Association target component </b></li></ul></li></ul></li></ul></li><li>• Query language - Can we de-scope relationship filters?</li></ul>

<p>Query Language - Summary from previous meetings</p>	<p>Linda Bird</p>	<p><b>Examples: version and language</b></p> <ul style="list-style-type: none"> <li>◦ &lt;&lt; 64572001  Disease  {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>◦ &lt;&lt; 64572001  Disease  {{ synonym = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>◦ &lt;&lt; 64572001  Disease  {{ FSN = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>◦ &lt;&lt; 64572001  Disease  {{ FSN = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> W</li> <li>◦ &lt;&lt; 64572001  Disease  {{ preferredTerm = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Y</li> <li>◦ &lt;&lt; 64572001  Disease  {{ acceptableTerm = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Y</li> <li>◦ ( * {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> Z) MINUS ( * {{ term = "heart*" }} <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20170731">http://snomed.info/sct/900000000000207008/version/20170731</a>, <b>LANGUAGE</b> W)</li> <li>◦ X MINUS Y <b>WHERE</b> X = * , Y = ( * {{ term = "heart*" }} ) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> W</li> </ul> <p><b>Notes</b></p> <ul style="list-style-type: none"> <li>◦ Allow nested where, version, language</li> <li>◦ Scope of variables is inner query</li> </ul>
		<p><b>Examples: where</b></p> <ul style="list-style-type: none"> <li>◦ X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547)</li> <li>◦ X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>◦ X MINUS &gt;! Y <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547), Y = (&lt;&lt; 1456) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a></li> <li>◦ X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a> , <b>LANGUAGE</b> 900000000000508004  GB English </li> <li>◦ X MINUS &gt;! X <b>WHERE</b> X = (&lt;&lt; 1234 : 5678 = &lt;&lt; 6547) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> 999001881000000108 GB clinical extension LRS , 900000000000508004  GB English </li> <li>◦ X minus &gt;! X <b>WHERE</b> X = ( &lt; M <b>WHERE</b> M = (&lt; 1234))) <b>VERSION</b> <a href="http://snomed.info/sct/900000000000207008/version/20180131">http://snomed.info/sct/900000000000207008/version/20180131</a>, <b>LANGUAGE</b> 999001881000000108 GB clinical extension LRS , 900000000000508004  GB English </li> </ul> <p><b>Notes</b></p> <ul style="list-style-type: none"> <li>▪ Allow nested variable definitions, but recommend that people don't due to readability</li> <li>▪ Scope of variables is the inner query</li> <li>▪ No recursion e.g X <b>WHERE</b> X = 1234 MINUS X <ul style="list-style-type: none"> <li>• ie can't use a variable in its own definition</li> <li>• ie X is only known on the left of the corresponding <b>WHERE</b>, and not on the right of the <b>WHERE</b></li> </ul> </li> </ul>

#### 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.caseSignificancelId**
  - D.caseSignificancelId = 900000000000448009 [entire term case insensitive]
  - D.caseSignificancelId = 900000000000017005 [entire term case sensitive]
  - D.caseSignificancelId = 900000000000020002 [only initial character case insensitive]
- **D.caseSignificance**
  - D.caseSignificance = `"insensitive"`
  - D.caseSignificance = `"sensitive"`
  - D.caseSignificance = `"initialCharInsensitive"`
- **D.typeId**
  - D.typeId = 90000000000003001 [fully specified name]
  - D.typeId = 900000000000013009 [synonym]
  - D.typeId = 900000000000055004 [definition]
- **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"`
    - D.term = `"*heart"`, D.typeId = 90000000000003001 [fully specified name]
  - FSN = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"FSN"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 90000000000003001 [fully specified name], acceptabilityId = `* LANGUAGE X`
- **synonym**
  - synonym = `"*heart"`
    - D.term = `"*heart"`, D.type = `"synonym"`
    - D.term = `"*heart"`, D.typeId = 900000000000013009 [synonym]
  - synonym = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"synonym"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 900000000000013009 [synonym], (D.acceptabilityId = 900000000000549004 [acceptable] OR D.acceptabilityId = 900000000000548007 [preferred]) `LANGUAGE X`
- **synonymOrFSN**
  - synonymOrFSN = `"*heart"`
    - synonym = `"*heart"` OR FSN = `"*heart"`
    - D.term = `"*heart"`, (D.type = `"synonym"` OR D.type = `"fullySpecifiedName"`)
  - synonymOrFSN = `"*heart" LANGUAGE X`
    - synonym = `"*heart"` OR FSN = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, (D.type = `"synonym"` OR D.type = `"fullySpecifiedName"`), D.acceptability = `* LANGUAGE X`
- **textDefinition**
  - textDefinition = `"*heart"`
    - D.term = `"*heart"`, D.type = `"definition"`
    - D.term = `"*heart"`, D.typeId = 900000000000055004 [definition]
  - textDefinition = `"*heart" LANGUAGE X`
    - D.term = `"*heart"`, D.type = `"definition"`, D.acceptability = `* LANGUAGE X`
    - D.term = `"*heart"`, D.typeId = 900000000000055004 [definition], D.acceptabilityId = `* LANGUAGE X`
- **Unacceptable Terms**
  - (D.term = `"*heart"`) MINUS (D.term = `"*heart"`, D.acceptability = `* LANGUAGE X`)

		<p>Language preferences using multiple language reference sets</p> <ul style="list-style-type: none"> <li>• 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 <ul style="list-style-type: none"> <li>◦ E.g. Regional LRS that adds local dialect to a National LRS</li> <li>◦ E.g. Specialty-specific LRS</li> <li>◦ E.g. Irish LRS that adds local preferences to the en-GB LRS <ul style="list-style-type: none"> <li>▪ 99999900  Irish language reference set  <b>PLUS</b>  GB English reference set </li> </ul> </li> </ul> </li> <li>• 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 <ul style="list-style-type: none"> <li>◦ E.g. Danish LRS that does a partial translation of the International Release <ul style="list-style-type: none"> <li>▪ 999999  Danish language reference set  <b>ELSE</b>  GB English reference set </li> </ul> </li> </ul> </li> </ul>
Other topics	<a href="#">Linda Bird</a>	
Confirm next meeting date /time	<a href="#">Linda Bird</a>	The next SLPG meeting will be held in 2 weeks at 20:00 UTC on <b>Wednesday 1st August</b> (to be confirmed).

**File      Modified**

No files shared here yet.