## 2016-08-17 - SLPG Meeting

**Date & Time**
20:00 UTC Wednesday 17 August 2016

**Goals**
- Discuss potential URI pattern for computable languages
- Discuss publication of ECL v1.1 with decomposition syntax
- Discuss proposed scope and syntax for v1.0 Template Syntax

**GoToMeeting Details**
Click here to see GoToMeeting joining information

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

**Agendas and Meeting Notes**

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<td>Linda Bird</td>
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<td>Agenda review</td>
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<td>Review agenda for today's meeting</td>
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| URI Pattern for Languages | Harold Solbrig | Discuss potential URI patterns for computable languages
- http://snomed.info/id
- http://snomed.info/ecl
- http://snomed.info/scg
- http://snomed.info/qry
- http://snomed.info/etl
- http://snomed.org/ect
- http://snomed.org/ort
- Bring this to the Modelling Advisory Group |
| Expression Constraint Language v1.1 | Linda Bird | Discuss publication of ECL v1.1 to Confluence
- Consider adding decomposition syntax in this version
  - 57617002 [Urine specimen collection (procedure)]: 363701004 [Direct substance]: 1234 [Other attribute]
  - The above is meant to refer to the direct substance of this procedure (i.e. 78014005 [Urine]) - that is the 'targetConcept' of the [Direct substance] relationship, where the sourceConcept is [Urine specimen collection]. This can also be represented as:
  - \(< x:\) 363701004 [Direct substance] = 57617002 [Urine specimen collection (procedure)]
  - Add example where direct substance is one thing and action is another. |
| Template Syntax v1.0 | Linda Bird | Discuss proposed scope and syntax for v1.0 Template Syntax

**Proposed use cases for v1.0**
- Urgent:
  - MRCM general domain templates
  - International SNOMED CT concept authoring tooling
- Priority:
  - Mapping from HL7 FHIR resource to a SNOMED CT expression

Proposal is to keep the scope of v1.0 as tight as possible (to deliver this year), and look at possible extended functionality in future versions
[[-@expressionName]]
[[+cpt(<<413350009|Finding with explicit context|) @findingWithExplicitContext $fwecRef 1..1]]

[[-@expressionName]]
[[+cpt(<<413350009|Finding with explicit context|) @findingWithExplicitContext $fwecRef 1..1]]

[[-@expressionName]]
[[+cpt(<<413350009|Finding with explicit context|) @findingWithExplicitContext $fwecRef 1..1]]
OTHER POSSIBLE SYNTAX RULES

- Constraints and names appearing before a brace apply to the whole relationship group
- Constraints and names appearing before an attribute apply to the whole Attribute Value pair
- A cardinality constraint:
  - Preceding a brace indicates the number of times the following relationship group is allowed in the final expression (default separator between repetitions is ".")
  - Preceding an attribute within a relationship group indicates the number of times the following attribute may appear with a distinct (non-redundant) value in each instance of the given relationship group (default separator between repetitions is ",")
  - Preceding an attribute that is not in a relationship group indicates the number of times the following attribute may appear with a distinct (non-redundant) value in the relevant expression (or subexpression) (default separator between repetitions is ",")
  - Within a slot that is a focus concept of an expression (or subexpression) indicates the number of times the slot can be filled in the focus (default separator between repetitions is "+")
  - Within a slot that is the attribute in an Attribute-Value pair indicates the number of distinct attribute concepts that can be used in this position in the expression (default separator between repetitions is ",")
  - Within a slot that is the value of an Attribute-Value pair (but which is NOT the focus concept of a subexpression) is not allowed ???

- Question 1 - How do we represent the cardinality of how many non-redundant values may appear in a given Attribute-Value pair across any relationship group. While this is currently always [0..*] in the MRCM, this may be more relevant in specialized authoring templates.
- Question 2 - Do we need to provide support to vary the default connector between repetitions. Note, I think this is probably more important for Expression Constraint Templates, as there are more options (e.g. ANDs and ORs)
- Question 3 - Do we introduce the ability for expression constraints in a slot to be replaced by a variable name (assigned using a SET-IN construct)? For example:
  - SET(severity_range = < |Severities|) IN |@finding| : {Severity} = |+ecl ([severity_range]) |