

4.2.2 LOINC Term to Expression Reference Set

The [LOINC Term to Expression reference set](#) is an instance of a [Code to expression type reference set](#). The general specification of the reference set type is included below and this is followed by specific notes on the [LOINC Term to Expression reference set](#).

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`<strong>Note</strong><br>`

In distribution files the effectiveTime should follow the short ISO date format (`<span style="color: rgb(122,134,154);">YYYYMM</span><span>DD</span></em></span>`) and should not include the hours, minutes, seconds or timezone indicator.

The current version of this `<a href="https://confluence.ihtsdotools.org/display/DOCGLOSS/reference+set+member" title="Glossary link: reference set member" rel="nofollow" class="conf-macro output-inline" data-hasbody="false" data-macro-name="gloss">reference set member</a>` at time `<em>T</em>` is the version with the most recent `<a href="https://confluence.ihtsdotools.org/display/DOCREFLMT/effectiveTime+(field)" title="Reference term: effectiveTime ((field))" rel="nofollow" class="conf-macro output-inline" data-hasbody="false" data-macro-name="specref">effectiveTime</a>` prior to or equal to time `<em>T</em>`.

</div>

`<p /></div><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="green">YES</td><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="green"><p style="text-align: center;">YES (Full)</p><p style="text-align: center;">Optional (Snapshot) </p></td></tr><tr><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>active = 1 (true) the reference set member is part of the current version of the set, if active = 0 (false) the reference set member is not part of the current version of the set. </p><div id="mark_active" style="display:none" class="conf-macro output-inline" data-hasbody="false" data-macro-name="bookmarker">
</div><p /></div><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="green">YES</td><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="red">NO</td></tr><tr><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>moduleId </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>SCID </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>Identifies the SNOMED CT module that contains this reference set member as at the specified effectiveTime. </p><p>The value must be a subtype of 900000000000443000Module (core metadata concept) within the metadata hierarchy. </p><div id="mark_moduleId" style="display:none" class="conf-macro output-inline" data-hasbody="false" data-macro-name="bookmarker">
</div><p /></div><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="green">YES</td><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="red">NO</td></tr><tr><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>refsetId </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>SCID </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>Identifies the reference set to which this reference set member belongs.</p><p></p><div class="content-wrapper"><p>In this case, a subtype descendant of: 705109006Code to expression type reference set </p></div><p /></div><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="red">NO</td><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" rowspan="1" data-highlight-colour="red">NO</td></tr><tr><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>referencedComponentId </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>SCID </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>A reference to the SNOMED CT component to be included in the reference set. </p><div class="content-wrapper"><p>A subtype of 705113004 </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>reference set. </p><div class="content-wrapper"><p>A subtype of 705113004 </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p>reference set. </p><div class="content-wrapper"><p>A subtype of 705113004 </p></div><td colspan="1" rowspan="1" class="confluenceTd"><div class="content-wrapper"><p><a href="https://confluence.ihtsdotools`

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external-link" rel="nofollow"> 1193549007 |Narrow map source to broad map target|
 1193548004 |Exact match between map source and map target|
 1193547009 |Broad map source to narrow map target| </div></div></div>When these values are applied to this reference set type, the phrase "map source" refers to the other-code and the "map target" refers to the SNOMED CT expression.<p /></div></td><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" data-highlight-colour="green">YES</td><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" data-highlight-colour="red">NO</td></tr><tr><td colspan="1" class="confluenceTd"><div class="content-wrapper"><p>contentOriginId</p></div></td><td colspan="1" class="confluenceTd"><div class="content-wrapper"><p>SCTID</p></div></td><td colspan="1" class="confluenceTd"><div class="content-wrapper"><p>Indication of whether the concept was initially in one of the terminologies (SNOMED CT or other-codes) and added to the other as part of mapping or was in both terminologies at the outset. Values are subtypes of 705116007 | Original code system source for linked content value| .</p></div></td><td class="highlight-green confluenceTd" style="text-align: center;" colspan="1" data-highlight-colour="green">YES</td><td class="highlight-red confluenceTd" style="text-align: center;" colspan="1" data-highlight-colour="red">NO</td></tr></tbody></table></div></div><div class="synchrony-exclude resize-width-holder" style="width: 1638.0px;">
</div> </div></p></p>

Specific Notes on the LOINC Term to Expression Reference Set

Rationale for Using a Code to Expression Type Reference Set

The [Code to expression type reference set](#) was designed to meet the known requirements for associating LOINC Terms with SNOMED CT expressions, in accordance with the terms of the cooperation agreement. The main reason for using expressions rather than OWL to represent the definitions, is that expressions can precisely represent all aspects of the definitions represented by SNOMED CT defining relationships. An additional factor was the relative human-readability of this format for review as demonstrated by the expression tab in the [SNOMED International online browser](http://snomed.org/browser) (<http://snomed.org/browser>).

LOINC Associations

Each LOINC Term Code within the scope of the cooperative work completed to date is associated with a SNOMED CT expressions that represent its formal logical definition. The definition is represented in accordance with the SNOMED CT concept model and thus each LOINC Term code is related directly to the SNOMED CT concepts that define it. The same definition could a expression to represent the definition. If a LOINC Term is recognized as having the same meaning as an existing SNOMED CT concept the associated expression may in future be supplemented by a direct map.

Expression Format

Each expression conforms to the SNOMED CT Composition Grammar. For further details of the syntax please see the [Compositional Grammar - Specification and Guide](http://snomed.org/scg) (<http://snomed.org/scg>). The expression represents the SNOMED CT definition of the LOINC Term based in the recently developed concept model for the [Observable entity](#) domain. Note that the expression that represents a LOINC Term does not include any inferred relationships with other LOINC Terms. Furthermore, since the new [Observable entity](#) has not yet been applied to many SNOMED CT concepts, the LOINC Terms are defined as subtypes [Observable entity](#) with an appropriate set of attribute relationships. Thus the expressions released in the beta release on 2017-03-31 included only stated relationships.

LOINC Term Code Status Changes

Deprecated statuses will cause the expression associations to be marked as inactive but trial use status will not be represented. LOINC Terms that were already deprecated at the time of initial mapping will not be included in maps and associations. However, dependent on demand and priority to assessments, it is possible these may be added later.

Values Specific to LOINC Term Expression Associations

The following values are used in this reference set.

Value for refsetId

- 705110001 [LOINC Term to Expression reference set](#)

Value for referencedComponentId

- 705114005 [LOINC Code System](#)

Values for contentOriginId

705117003 [Originally in LOINC](#)
705118008 [Originally in SNOMED CT](#)
705119000 [Originally in both LOINC and SNOMED CT](#)

Other Values

All other values are as specified for the [Code to expression type reference set](#).
