

5.1 MRCM Domain Reference Set

Purpose

An [723589008 | MRCM domain reference set](#) enumerates the concept domains to which SNOMED CT attributes may be applied, and provides additional information to support these concept domains.

Each concept domain is uniquely identified by a SNOMED CT concept. When the scope of a domain covers the concepts in a particular hierarchy (or subhierarchy), the supertype concept of this hierarchy (or subhierarchy) is used to identify the domain. When a domain is defined based on membership in a reference set, the associated reference set concept is used to identify the domain. In some situations, a query may be required to define a complex domain. In these cases, the query's expansion reference set (referred to by the 'referencedComponent' of the relevant Query reference set) is used to identify the domain.

For each domain in the SNOMED CT concept model, the [723589008 | MRCM domain reference set](#) will contain exactly one member. This reference set member will include an Expression Constraint that defines the concepts in the domain, the identifier of the immediate parent domain (or domains), the domain constraint defined in terms of its proximal primitive concepts and associated mandatory refinements, a generic Domain Expression Template for both precoordinated and postcoordinated content, and a reference to the associated guidance that provides additional human-readable text describing this domain. Please note that it is anticipated that the generic Domain Expression Templates will be specialized further for authoring of specific subdomains using specializations stored in a Template Library.

Data Structure

An [723589008 | MRCM domain reference set](#) is structured as shown in the following table.

Field	D a t a t y p e	Purpose	M u t a b l e	Part of Prima ry Key
id	U I D	A 128 bit unsigned Integer , uniquely identifying this reference set member . Different versions of a reference set member share the same id but have different effectiveTime . This allows a reference set member to be modified or made inactive (i.e. removed from the active set) at a specified time.	NO	YES (Full /Snap shot)
effectiveTime	Ti me	The inclusive date or time at which this version of the identified reference set member became the current version. Note: In distribution files the effectiveTime should follow the short ISO date format (YYYYMMDD) and should not include the hours, minutes, seconds or timezone indicator. The current version of this reference set member at time <i>T</i> is the version with the most recent effectiveTime prior to or equal to time <i>T</i> .	Y E S	YES (Full) Option al (Snap shot)
active	B o o l e a n	The state of the identified reference set member as at the specified effectiveTime . If 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.	Y E S	NO
moduleId	S C T I D	Identifies the SNOMED CT module that contains this reference set member as at the specified effectiveTime . The value must be a subtype of 900000000000443000 Module (core metadata concept) within the metadata hierarchy .	Y E S	NO
refsetId	S C T I D	Identifies the reference set to which this reference set member belongs. In this case, a subtype descendant of: 723589008 MRCM domain reference set	NO	NO
referencedComponentId	S C T I D	A reference to the SNOMED CT component to be included in the reference set . A reference to the SNOMED CT concept that identifies the relevant concept domain.	NO	NO
domainConstraint	St ring	An expression constraint, which defines the set of concepts included in the given concept domain. This string can be parsed using the ABNF syntax defined for the Expression Constraint Language .	Y E S	NO
parentDomain	St ring	An expression constraint, which represents the set of immediate parent domains. An immediate parent domain is a domain that is a proper superset of the given domain, and which is not a proper superset of any other parent domain.	Y E S	NO

proximalPrimitiveConstraint	String	The domain constraint, as it would be represented for proximal primitive modelling. If the domain concept is sufficiently defined, then its proximal primitive parent will be used instead, while if the domain concept is primitive, then the concept itself is used. Additional constraints on the proximal primitive parent are also included. The expansion of the given constraint must be further filtered to find those concepts with a definitionStatusId = 900000000000074008 Primitive . This string can be parsed using the ABNF syntax defined for the Expression Constraint Language .	YES	NO
proximalPrimitiveRefinement	String	The template representation of any additional refinements that are required to model in the given domain using proximal primitive modelling. These mandatory refinements reflect the defining relationships of the domain concept, when it is sufficiently defined. This string can be parsed using the 'refinement' rule in the ABNF syntax defined for the Expression Constraint Language .	YES	NO
domainTemplateForPrecoordination	String	A general template that may be used to author precoordinated content. This template incorporates all of the mandatory attribute domain and range rules for precoordinated SNOMED CT content. This string can be parsed using the Expression Template Language (currently under development).	YES	NO
domainTemplateForPostcoordination	String	A general template that may be used to author postcoordinated content. This template incorporates all of the mandatory attribute domain and range rules for postcoordinated SNOMED CT content. This string can be parsed using the Expression Template Language (currently under development).	YES	NO
guideURL	URL	A Uniform Resource Locator (URL) that references a web resource in which the given domain is described in further detail. This URL uses the following pattern: " http://snomed.org/dom<conceptId> "	YES	NO

Metadata

The following metadata hierarchy supports this reference set:

- 900000000000454005 | Foundation metadata concept|
 - 900000000000455006 | Reference set|
 - 723564002 | MRCM reference set|
 - 723589008 | MRCM domain reference set|
 - 723560006 | MRCM domain international reference set|
 - 900000000000457003 | Reference set attribute|
 - 723565001 | Domain constraint|
 - 723570008 | Guide URL|
 - 723566000 | Parent domain|
 - 723567009 | Proximal primitive constraint|
 - 723568004 | Proximal primitive refinement|
 - 723569007 | Template|
 - 723599003 | Domain template|
 - 723600000 | Domain template for precoordination|
 - 723601001 | Domain template for postcoordination|

Reference Set Descriptor and Example Data



Notes on the tables used to show descriptors and examples

The reference set example tables on this page have been revised as follows to aid clarity and understanding:

- The first four columns which are present in all release files are not shown. The omitted columns (id, effectiveTime, active, moduleId) are used in the same way in all referenced sets to support identification, versioning and packaging. They do not directly affect the specific features of a particular reference set or reference set type.
- Reference set columns that contain SNOMED CT identifiers are expanded to show details of the concept or description referenced by that identifier. In some cases, the term is shown in the same column using the expression syntax, in other cases an additional column with a name suffix '_term' has been added. In the standard reference set files only the identifier is present in the column and there is no added column for the term. When using reference sets, the term and other details of the component are looked up from the relevant component release files.

Descriptor Template

The table below shows the reference set descriptor for a reference set that follows the 723589008 | MRCM domain reference set pattern.

refsetId	referencedComponentId	attributeDescription	attributeType	attribute Order
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	449608002 Referenced component	900000000000461009 Concept type component	0
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723565001 Domain constraint	707000009 SNOMED CT parsable string	1
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723566000 Parent domain	707000009 SNOMED CT parsable string	2
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723567009 Proximal primitive constraint	707000009 SNOMED CT parsable string	3
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723568004 Proximal primitive refinement	707000009 SNOMED CT parsable string	4
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723600000 Domain template for precoordination	707000009 SNOMED CT parsable string	5
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723601001 Domain template for postcoordination	707000009 SNOMED CT parsable string	6
900000000000456007 Reference set descriptor	723589008 MRCM domain reference set	723570008 Guide URL	707000009 SNOMED CT parsable string	7

Example Data

The table below shows some example rows from a reference set that uses the format of the [723589008 | MRCM domain reference set](#).

Please note that the generic domain templates defined for the SNOMED CT International Edition are designed to support a proximal primitive parent authoring approach. However, domain templates included in an extension's [723589008 | MRCM domain reference set](#) may be designed to support a proximal parent authoring approach if required.

[illegible]

72	38	<	<	[1	[[+id(<< 71388002 Procedure (procedure))]] , [[0..*]] { [[1..*]] 260686004 Method = [+id(<< 129265001 Evaluation - action)]] , [[0..*]] 246093002 Component = [[+scg(<< 123037004 Body structure OR << 410607006 Organism OR << 105590001 Substance OR << 123038009 Specimen OR << 260787004 Physical object OR << 373873005 Pharmaceutical / biologic product OR << 419891008 Record artifact OR << 3637002 Observable entity)]] , [[0..*]] 116686009 Has specimen = [[+id(<< 123038009 Specimen (specimen))]] , [[0..*]] 370129005 Measurement method = [[+id(<< 127789004 Laboratory procedure categorized by method (procedure))]] , [[0..*]] 370130000 Property = [[+id(<< 118598001 Property of measurement (qualifier value))]] , [[0..*]] 370132008 Scale type = [[+scg(<< 30766002 Quantitative OR << 26716007 Qualitative OR << 117363000 Ordinal value OR << 117365007 Ordinal or quantitative value OR << 117362005 Nominal value OR << 117364006 Narrative value OR << 117444000 Text value)]] , [[0..*]] 370134009 Time aspect = [[+scg(<< 7389001 Time frame (qualifier value))]] , [[0..*]] 260507000 Access = [[+id(<< 309795001 Surgical access values (qualifier value))]] , [[0..*]] 363699004 Direct device = [[+id(<< 49062001 Device (physical object))]] , [[0..*]] 363700003 Direct morphology = [[+id(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 363701004 Direct substance = [[+id(<< 105590001 Substance (substance) OR << 373873005 Pharmaceutical / biologic product (product))]] , [[0..*]] 363702006 Has focus = [[+id(<< 40468703001 Clinical finding (finding) OR << 71388002 Procedure (procedure))]] , [[0..*]] 363703001 Has intent = [[+id(<< 363675004 Intent (nature of procedure values (qualifier value))]] , [[0..*]] 363710007 Indirect device = [[+id(<< 49062001 Device (physical object))]] , [[0..*]] 363709002 Indirect morphology = [[+id(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 260686004 Method = [[+id(<< 129264002 Action (qualifier value))]] , [[0..*]] 260870009 Priority = [[+id(<< 272125009 Priorities (qualifier value))]] , [[0..*]] 405815000 Procedure device = [[+id(<< 49062001 Device (physical object))]] , [[0..*]] 405816004 Procedure morphology = [[+id(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 363704007 Procedure site = [[+id(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 405813007 Procedure site - Direct = [[+id(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 405814001 Procedure site - Indirect = [[+id(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 370131001 Recipient category = [[+id(<< 125676002 Person (person) OR << 35359004 Family (social concept) OR << 133928008 Community (social concept) OR << 105455006 Donor for medical or surgical procedure (person) OR << 389109008 Group (social concept))]] , [[0..*]] 246513007 Revision status = [[+id(<< 261424001 Primary operation (qualifier value) OR << 255231005 Revision - value (qualifier value) OR << 257958009 Part of multistage procedure (qualifier value))]] , [[0..*]] 425391005 Using access device = [[+id(<< 49062001 Device (physical object))]] , [[0..*]] 424226004 Using device = [[+id(<< 49062001 Device (physical object))]] , [[0..*]] 424244007 Using energy = [[+id(<< 78621006 Physical force (physical force))]] , [[0..*]] 424361007 Using substance = [[+id(<< 105590001 Substance (substance))]] }
35	60	<	<	..	[[+scg(<< 71388002 Procedure (procedure))]] , [[0..*]] { [[1..*]] 260686004 Method = [+scg(<< 129265001 Evaluation - action)]] , [[0..*]] 246093002 Component = [[+scg(<< 123037004 Body structure OR << 410607006 Organism OR << 105590001 Substance OR << 123038009 Specimen OR << 260787004 Physical object OR << 373873005 Pharmaceutical / biologic product OR << 419891008 Record artifact OR << 3637002 Observable entity)]] , [[0..*]] 116686009 Has specimen = [[+scg(<< 123038009 Specimen (specimen))]] , [[0..*]] 370129005 Measurement method = [[+scg(<< 127789004 Laboratory procedure categorized by method (procedure))]] , [[0..*]] 370130000 Property = [[+scg(<< 118598001 Property of measurement (qualifier value))]] , [[0..*]] 370132008 Scale type = [[+scg(<< 30766002 Quantitative OR << 26716007 Qualitative OR << 117363000 Ordinal value OR << 117365007 Ordinal or quantitative value OR << 117362005 Nominal value OR << 117364006 Narrative value OR << 117444000 Text value)]] , [[0..*]] 370134009 Time aspect = [[+scg(<< 7389001 Time frame (qualifier value))]] , [[0..*]] 260507000 Access = [[+scg(<< 309795001 Surgical access values (qualifier value))]] , [[0..*]] 363699004 Direct device = [[+scg(<< 49062001 Device (physical object))]] , [[0..*]] 363700003 Direct morphology = [[+scg(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 363701004 Direct substance = [[+scg(<< 105590001 Substance (substance) OR << 373873005 Pharmaceutical / biologic product (product))]] , [[0..*]] 363702006 Has focus = [[+scg(<< 404684003 Clinical finding (finding) OR << 71388002 Procedure (procedure))]] , [[0..*]] 363703001 Has intent = [[+scg(<< 363675004 Intent (nature of procedure values (qualifier value))]] , [[0..*]] 363710007 Indirect device = [[+scg(<< 49062001 Device (physical object))]] , [[0..*]] 363709002 Indirect morphology = [[+scg(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 260686004 Method = [[+scg(<< 129264002 Action (qualifier value))]] , [[0..*]] 260870009 Priority = [[+scg(<< 272125009 Priorities (qualifier value))]] , [[0..*]] 405815000 Procedure device = [[+scg(<< 49062001 Device (physical object))]] , [[0..*]] 405816004 Procedure morphology = [[+scg(<< 49755003 Morphologically abnormal structure (morphologic abnormality))]] , [[0..*]] 363704007 Procedure site = [[+scg(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 405813007 Procedure site - Direct = [[+scg(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 405814001 Procedure site - Indirect = [[+scg(<< 442083009 Anatomical or acquired body structure (body structure))]] , [[0..*]] 370131001 Recipient category = [[+scg(<< 125676002 Person (person) OR << 35359004 Family (social concept) OR << 133928008 Community (social concept) OR << 105455006 Donor for medical or surgical procedure (person) OR << 389109008 Group (social concept))]] , [[0..*]] 246513007 Revision status = [[+scg(<< 261424001 Primary operation (qualifier value) OR << 255231005 Revision - value (qualifier value) OR << 257958009 Part of multistage procedure (qualifier value))]] , [[0..*]] 425391005 Using access device = [[+scg(<< 49062001 Device (physical object))]] , [[0..*]] 424226004 Using device = [[+scg(<< 49062001 Device (physical object))]] , [[0..*]] 424244007 Using energy = [[+scg(<< 78621006 Physical force (physical force))]] , [[0..*]] 424361007 Using substance = [[+scg(<< 105590001 Substance (substance))]] }

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