SNOMED CT January 2018 International Edition - SNOMED International Release notes

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1 Introduction

1.1 Background

SNOMED CT terminology provides a common language that enables a consistent way of indexing, storing, retrieving, and aggregating clinical data across specialties and sites of care.

SNOMED International maintains the SNOMED CT technical design, the content architecture, the SNOMED CT content (includes the concepts table, the descriptions table, the relationships table, a history table, and ICD mappings), and related technical documentation.

1.2 Purpose

This document provides a summarized description of the content changes included in the January 2018 release of SNOMED Clinical Terms® (SCT) International Release.

It also includes technical notes detailing the known issues which have been identified. These are content or technical issues where the root cause is understood, and the fix has been discussed and agreed, but has yet to be implemented.

This document is available alongside the January 2018 International Edition release.

1.3 Scope

This document is written for the purpose described above and is not intended to provide details of the technical specifications for SNOMED CT or encompass every change made during the release.

1.4 Audience

The audience includes National Release Centers, WHO-FIC release centers, vendors of electronic health records, terminology developers and managers who wish to have an understanding of changes that have been incorporated into the January 2018 International Edition release.

2 Content Development Activity

2.1 Summary

Continuous quality improvement and enhancement of existing content is ongoing based on requests received via the Content Request System (CRS). A review of the pre-coordination patterns that are blocking CRS tickets from progressing has commenced and will continue into 2018.

A review of requests currently in the 'In Inception' status in the CRS tool is underway and where it is feasible to progress a request prior to resolving the tracker issue, the request is being identified for progression. Given this work (and the pre-coordination patterns review) the number of requests in 'In Inception' status has decreased by over 1000. This work will continue into 2018.

The January 2018 International Release has seen a continuation of the work driven by contributions from: Kaiser Permanente Convergent Medical Terminology (CMT), Global Medical Device Nomenclature Agency (GMDNA), World Health Organization (WHO) ICD-11 Beta and International Classification for Nursing Practice (ICNP®) to add new content to SNOMED CT.

Additionally, member-identified priority projects, have driven enhancements in the anatomy hierarchy, while other project-driven changes have resulted in new content additions and enhancements to existing content detailed below.

⚠ **Advance Warning**

Inactivation reason of LIMITED/WAS A will no longer be allowed for any content after the January 2018 release. The WAS A association refset will not be updated thereafter.

Background

In 2015, a proposal was made to inactivate 159083000 |WAS A (attribute)| relationship and stop updating the 900000000000528000|WAS A association reference set (foundation metadata concept)| at the Editorial Advisory Group.

Since these recommendations were made, a formal proposal for the technical approach to batch updating the terminology was created and a notice of the proposed inactivation sent to the Community of Practice.

The implementation of changes was postponed following feedback on utility for implementation and the potential impact to customers who were still using RF1.

The matter was discussed again at the meeting of the Editorial Advisory Group in Bratislava in October 2017. Since the requirements and potential issues can be addressed by deriving such information from the RF2 release format, the recommendation is to proceed the decision after the January 2018 release.

2.2 Content Quality Improvement

4979 new concepts were added

SCT Statistics	New concept additions
SNOMED CT Concept (SNOMED RT+CTV3)	4979
Body structure (body structure)	571
Clinical finding (finding)	2005
Event (event)	12
Observable entity (observable entity)	52
Organism (organism)	256
Pharmaceutical / biologic product (product)	10
Physical object (physical object)	171
Procedure (procedure)	911
Qualifier value (qualifier value)	420
Record artifact (record artifact)	115
SNOMED CT Model Component (metadata)	29
Situation with explicit context (situation)	91
Social context (social concept)	10
Specimen (specimen)	35
Staging and scales (staging scale)	13
Substance (substance)	278

21080 changes were made to existing content

SCT Improvement Statistics to Existing Concepts	Number
Total number of changes	21080
Change to stated concept definition	7597
Change to inferred concept definition	15635
Change in concept definition status from Primitive to Sufficiently Defined	796

Description change	6051
Inactivated concepts	781
Inactivated descriptions	4102
Reactivated concepts	14

2.2.1 Anatomy

New anatomy concepts: 571

- 462 new lateralized body structure concepts and nearly 1000 new lateralized findings, disorders and procedures. There are over 5,000 lateralized concepts in SNOMED CT.
- 30 new concepts for 736503009 | Structure of mucous membrane of nasal cavity and/or nasal sinus (body structure)| and descendants and refined the existing hierarchical relationships.
- New concepts for transplanted cardiac values and structure of vertebral column and/or spinal cord to support concept modeling from ICD-11 content.

Reviewed and updated IS A relationships for 1,255 skin structure concepts according to the new anatomy model:

- Identified and added 329 new IS A relationships.
- Inactivated 136 redundant or incorrect IS A relationships.

Updates for SEP refsets and Lateralizable body structure refset:

- 42 changes to the SE refset.
- 4 changes to the SP refset.
- 42 new members for lateralizable body structure refset and 10 inactivations.

2.2.2 Clinical finding

New concepts for clinical findings and disorders: 2005

Work **completed** on the following Content Projects:

- IHTSDO-418 - 84017003 | Bursitis (disorder).
- IHTSDO-772 - Suspected - findings / disorders, should be situations.
- IHTSDO-412 - Intra-operative complication.

Work **commenced** on the following Content Projects:

- IHTSDO-451 - Has definitional manifestation.
- IHTSDO-703 - Inactivation of 'unilateral' concepts.
- IHTSDO-614 - Rework hierarchy 441457006|Cyst (disorder)|.

Other content quality improvements:

- Remodel and fully define 63491006|Intermittent claudication (finding) and subtypes.
- Review and remodel of 128200000|Complex regional pain syndrome (disorder)| and subtypes.
- 7 new laboratory finding concepts added along with 30 changes made to existing laboratory concepts.

- Revision of spinal injury content - many concepts were primitives and represented as flat list under 26738009|Spinal cord injury without spinal bone injury (disorder)|. This sub-hierarchy has been reviewed and 85 concepts have been remodeled. Most concepts have been defined based on complete, incomplete injuries and levels. These changes have also addressed the reported duplication issues.
- Remodel 3238004|Pericarditis (disorder)| and subtypes with primitive parent and changes to relationship groups where required to achieve consistency, approximately 100 concepts were remodeled.

2.2.3 Convergent Medical Terminologies (CMT)

New CMT concepts: 766

These were added across 3 domains:

- CMT Neurology
- CMT Musculoskeletal
- CMT Radiology

2.2.4 Procedure Hierarchy

New concepts for procedure hierarchy: 911

Diagnostic Imaging - approximately 363 new concepts added including:

- MRI 53
- CT 38
- Plain X-ray 15
- Fluoroscopy 73
- Imaging guided procedure (various modalities) 102
- Ultrasonography 82

Work **completed** on the following Content Projects:

- IHTSDO-111 - Review of hierarchy 23968004|Colectomy (procedure) with inactivation of duplicate content, concepts remodeled with primitive parent and changes to relationship groups where required.
- IHTSDO-691 - Remodel content 243185007 | Advanced life support (procedure) and subtypes.

Other content quality improvements:

- Remodel and fully define 180081001|Correction of congenital deformity of hand (procedure)| and its descendants.
- Fixed MRCM rule violation for 156 Evaluation procedures and removed Observable entities as values for Component Attribute.
- Care program approach - realm specific concepts inactivated from International release.

2.2.5 Collaboration/Harmonization Projects

2.2.5.1 Orphanet

As a result of collaboration with Orphanet (**http://www.orpha.net/consor/cgi-bin/index.php**) 12 new SNOMED CT concepts have been created to represent rare diseases in the disorder hierarchy.

2.2.5.2 ICD-11 Harmonization plan

Added 1100 concepts equivalent to ICD-11 Mortality and Morbidity Statistics (ICD-11-MMS) codes; review and additions are ongoing based on updates to ICD-11-MMS.

2.2.5.3 LOINC

105 new SNOMED CT concepts created for LOINC - SNOMED collaboration project.

2.2.5.4 International Classification for Nursing Practice (ICNP®)

74 new SNOMED CT concepts created as a requirement for the ICNP-SNOMED CT Equivalence Table.

2.2.5.5 Global Medical Device Nomenclature Agency (GMDNA)

165 new SNOMED CT concepts created in the Physical object hierarchy to support the GMDN collaboration agreement.

2.2.6 Morphologic Abnormality

New concepts added: 22

There are 8 updates for the ICD-O maps in 2018 January release.

2.2.7 Observable Entity

New concepts added: 52

Content quality improvements:

- Inactivated 704318007 |Property type (attribute)| and replaced it with 370130000 |Property (attribute) for 162 modeled Observable entity concepts which had previously used 704318007 |Property type (attribute)|. Updated related MRCM rules and Editorial Guide.

2.2.8 Organism

New organism concepts added: 236

Changes to 29 existing concepts in the organism hierarchy.

2.2.9 Pharmaceutical / biologic product

Drug model project

For further details on the planned changes in this area, please refer to the Drug Model Working Group Directory section.

Please note, you may have to register for Confluence user account in order to access this project.

Summary of changes

New hierarchies	• Basic dose form (basic dose form)
	  ◦ New concepts created (n 125)
	• Dose form administration method (administration method)
	  ◦ New concepts created (n 10)
	• Dose form intended site (intended site)
	  ◦ New concepts created (n 20)
	• Dose form release characteristic (release characteristic)
	  ◦ New concepts created (n 5)
	• Dose form transformation (transformation)
	  ◦ New concepts created (n 5)
	• Pharmaceutical dose form (dose form)
	  ◦ New concepts created or remodeled (n 250)
	• State of matter (state of matter)
	  ◦ New concepts created (n 5)

New semantic tags	• (administration method) • (basic dose form) • (dose form) • (intended site) • (release characteristic) • (state of matter) • (transformation)
New attribute types	• Has basic dose form • Has concentration strength denominator unit • Has concentration strength denominator value • Has concentration strength numerator unit • Has concentration strength numerator value • Has dose form administration method • Has dose form intended site • Has dose form release characteristic • Has dose form transformation • Has state of matter • Has ingredient • Has precise active ingredient
Medicinal Product (MP)	Updated 1100 existing concepts in accordance with new modeling and/or terming guidelines

	• Existing concept IDs, stated parents and definition status were retained • Missing |Has active ingredient| attributes were added; errors in existing content were corrected as they were identified
Medicinal Product Form (MPF)	• Negligible number of changes.
Clinical Drug (CD)	Updated 3000 existing concepts changing terming from "Product containing X" to "Product containing only X" • Note that the terming for these concepts was updated in the 2017-July release to reflect "Product containing X"; upon advice from the Working Group, we elected to notifiy the Member Forum, Project Group, and Working Group of the retraction/substitution rather than inactivate/replace these concepts.
New or updated concepts to support future simple map refset development	For SNOMED CT to EDQM simple map refset: • 741068007|SNOMED CT to European Directorate for the Quality of Medicines & HealthCare simple map reference set module (core metadata concept) • 735233007|European Directorate for the Quality of Medicines & HealthCare simple map reference set (foundation metadata concept) For SNOMED CT to UCUM simple map refset: • 741814003|SNOMED CT to Unified Code for Units of Measure simple map reference set module (core metadata concept) • 733900009|Unified Code for Units of Measure simple map reference set (foundation metadata concept)

Content maintenance including	• Content:
	  ◦ Inactivation of concepts that are missing strength denominator
	  ◦ Inactivation of concepts that refer to color
	  ◦ Inactivation of concepts containing caplet
	  ◦ Inactivation of concepts containing "controlled-release"
	• Documentation created or updated:
	  ◦ Position Statement
	  ◦ Briefing Paper re: update terming for Clinical Drug concepts changing "Product containing X" to "Product containing only X"
	  ◦ Editorial Guidelines for Modeling and Terming for Dose Form related hierarchies, including including identification of |Pharmaceutical dose form| concepts to be used for modeling concepts in the International Release moving forward
	  ◦ Editorial Gudielines for Modeling and Terming for Product hierarchy

2.2.10 Veterinary Extension

2 concepts were moved to the Veterinary Extension.

2.2.11 Situation with Explicit Context

Number of concepts added to Situation hierarchy: 91

Work **completed** on the following Content Projects:

- artf222723 - 19 new concepts for situation hierarchy to replace inactivated concepts in the event hierarchy 398033008|Death of relative (event)|.

Work **commenced** on the following Content Projects:

- IHTSDO-703 - The inactivation of 'unilateral' concepts with creation of lateralised replacement concepts where not already present in the terminology has commenced. This work will continue into 2018.

2.2.12 Record Artifact

New concepts added: 82. This number includes 5 new concepts for 'care plan' which replace inactivated concepts in the qualifier value hierarchy.

2.2.13 Specimen

New concepts added: 30

2.2.14 Substances

The following changes will be included in the 2018-January International Release.

New hierarchies	○ Disposition (disposition) ▪ New concepts created (n 250)
New semantic tags	○ (disposition)
New attribute types	○ Has disposition ○ Is modification of

Documentation created or updated including:

- Editorial Guidelines for Modeling and Terming for Substance hierarchy.
- Editorial Guidelines for Modeling and Terming for Disposition hierarchy.

Content updates include:

- Populated new Disposition hierarchy with approximately 250 new concepts as descendants of 726711005|Disposition (disposition).
- Updated terming and modeling for approximately 200 existing concepts that represent disposition groupers, making the concepts fully defined and removing stated descendants. As a result, approximately 9000 stated descendants were remodeled with new stated parents.
- Added new Has disposition attribute for approximately 4200 concepts.
- Completed review of concepts as a result of gap analysis to identify missing concepts representing hydrates, with 14 new concepts added. (Note: there were 87 new concepts added for 2017-July Release.) Three concepts were rejected (e.g. out of scope, duplicate of existing concept).

⚠ **Release plans, Substance hierarchy**

For further details on the planned changes in this area, please refer to the Substances project.

Please note, you may have to register for Confluence user account in order to access this project.

2.3. Internal Quality Improvement

2.3.1 Case Significance Indicator

In order to align in accordance with the RF2 specification, a technical batch change was made to the case significance value for approximately 1400 descriptions.

2.3.2 Logic Profile Enhancements

Content changes have been made to support the logic profile enhancements.

New OWL expression reference set type will have OWL ontology refset and OWL axiom refset.

New attributes |Concept model object attribute| and |Concept model data property| have been added to make clear distinction between object attribute and data attribute.

All existing attributes under concept model attribute are moved under |Concept model object attribute|. The data properties in national extensions should be moved under the new attribute |Concept model data property|

- The detailed proposal can be found at https://goo.gl/pFqajg.
- The OWL refset specification document (draft) can be found at https://goo.gl/Er3n7b
- SNOMED CT Logic Profile specification (draft) can be found at https://goo.gl/Hkw3Zd

2.3.3 Dentistry Odontogram Refset

63 new concepts added to support Dentistry.

The first production release of the Odontogram Refset was made available in October 2017.

2.3.4 Machine Readable Concept Model (MRCM)

17 new changes or updates in the MRCM refsets and authoring platform.

The majority of changes were required to support development of the concept model for drugs and observable entity.

2.4 SNOMED CT derived products

2.4.1 ICD-10 map

The SNOMED CT to the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (© World Health organisation 1994) 2016 Version map (SNOMED CT to ICD-10 Map) is included in the SNOMED CT International release as a Baseline. The SNOMED CT to ICD-10 Map was created to support the epidemiological, statistical and administrative reporting needs of SNOMED International member countries and WHO Collaborating Centres.

The SNOMED CT to ICD-10 Map is released in Release Format 2 (RF2) only. It is located in the file der2_iissccRefset_ExtendedMapFull_INT_20170131.txt, which is in the Map folder under Refset, in each of the three RF2 Release Type folders.

The SNOMED CT to ICD-10 Map is released as Refset 447562003 |ICD-10 complex map reference set (foundation metadata concept)|.

2.4.1.1 Content development activity summary

The map is a directed set of relationships from SNOMED CT source concepts to ICD-10 target classification codes. The SNOMED CT source domains for the MAP are limited to subtypes of 404684003 |clinical finding|, 272379006 |event| and 243796009 |situation with explicit context|. The target classification codes are ICD-10 2016 release.

2.4.1.2 Mapped content for January 2018

The map provided for the January 2018 release has been updated, and now represents a complete map from SNOMED CT International release to ICD-10 2016 version.

- 2207 new concepts added

We would welcome feedback on any issues that users of the map may detect when using the map. Issues should be submitted via mapping@snomed.org

3 Technical notes

3.1 Known Issues

Known Issues are content or technical issues where the root cause is understood, and the resolution has been discussed and agreed but has yet to be implemented. This can be due to a number of reasons, from lack of capacity within the current editing cycle, to the risk of impact to the stability of SNOMED CT if the fix were to be deployed at that stage in the Product lifecycle.

For the Snomed CT January 2018 International edition, the following Known Issues were identified, and agreed to be resolved in the next editing cycle (to be published in July 2018):

Key	Summary	Description
No issues found		

3.2 Resolved Issues

Resolved issues are Known Issues which were not fixed as part of the previous release lifecycle, but which have now been resolved in the latest release - in this case the January 2018 International Edition. They can also be issues found during the Alpha and Beta testing of the current

release, which were resolved before the final deployment of the associated Member release. Finally they can be issues which were reported or found during the testing phase, but which have been closed without any action taken.

The Resolved Issues for the Snomed CT January 2018 International edition can be found here:

Key	Summary	Description	Resolved
ISRS-8	Additional, non-defining relationships	"Part-of" relationships are not currently maintained - they were originally defining relationships, which were changed to "additional" in 2005 and left in the relationship table. In 2008, when stated relationships became part of the distributed files, the stated "part-of" relationships were not included because they were non defining and were not available. Therefore, only inferred “part-of” relationships were distributed until 2005, after which they became non-defining. The Anatomy remodelling, which resolves this issue, is due for completion in future editing cycles. KNOWN ISSUE: An interim solution has been implemented, through the inclusion of the SE and SP refsets, which also to enable us to further improve our Quality Assurance processes. Please see the following page for details of the new Refsets: SEP maps and refset	2019-May-09
ISRS-145	AttributeValue records with both and Active and Inactive record for the same content	An issue was raised as part of the work done by the development team for the updated RF2 to RF1 conversion utility. It was discovered that there were several AttributeValue records which had 2 states in the files for the same effectiveTime - one Active and one Inactive. For example: id effectivetime active moduleid refsetid referencedcomponentid valueid 34105af2-75df-4851-bb1b-10481862a050 20170131 1 900000000000207008 900000000000490003 2475924014 900000000000495008 402ef83b-0033-5802-b73e-a9d92c98fa48 20170131 0 900000000000207008 900000000000490003 2475924014 900000000000495008 KNOWN ISSUE: This issue is being discussed in various forums, including the Release Advisory Group, in order to agree the best method for resolution. This will therefore be resolved in the appropriate future editing cycle, once the best approach has been determined.	2018-May-31
ISRS-146	Potentially remove the SNOMED to OWL conversion script from the International Edition	As SNOMED International may soon open-source this file, we may then remove it from the International Edition release package. RESOLUTION: This was discussed with the Release AG and agreed to be removed - it is therefore now being published as a separate file in the MLDS repository.	2017-May-11
ISRS-156	Text definition set as the en-GB preferred term of a concept (July 2017)	This is a duplicate of ~~ISRS-153~~, created to ensure that we track and test the fix for the International Edition. RESOLUTION: RVF assertions added as planned to cover these scenarios.	2019-Jun-20
ISRS-169	46 active core descriptions that have no acceptability in any dialect	The description id is first, with the concept id in the square brackets. 3313707012[718744009]: Revised Children's Anxiety and Depression Scale obsession compulsion subscale is active with no Acceptability map (since 20170131). 2994493012[702130007]: Isoflurane/sevoflurane recycling anaesthesia vaporizer is active with no Acceptability map (since 20170731). 3313673018[718732006]: Revised Children's Anxiety and Depression Scale Parent Version separation anxiety subscale is active with no Acceptability map (since 20170131). 2994874016[702281005]: Evacuated blood collection tube IVD, thrombin/clot activator/gel separator is active with no Acceptability map (since 20140731). 3313676014[718733001]: Revised Children's Anxiety and Depression Scale Parent Version generalized anxiety subscale is active with no Acceptability map (since 20170131). 2994770017[702250001]: Coagulation timer IVD is active with no Acceptability map (since 20140731). 2994922018[702297000]: Non-evacuated blood collection tube IVD, clot activator is active with no Acceptability map (since 20140731). 3313667019[718730003]: Revised Children's Anxiety and Depression Scale Parent Version panic subscale is active with no Acceptability map (since 20170131). 2994919015[702296009]: Non-evacuated blood collection tube IVD, sodium citrate is active with no Acceptability map (since 20140731). 2994883014[702284002]: Non-evacuated blood collection tube IVD, lithium heparin is active with no Acceptability map (since 20140731). 3313670015[718731004]: Revised Children's Anxiety and Depression Scale Parent Version obsession compulsion subscale is active with no Acceptability map (since 20170131). 2992315016[701159005]: Sevoflurane anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2994916010[702295008]: Non-evacuated blood collection tube IVD, clot activator/gel separator is active with no Acceptability map (since 20140731). 2994880012[702283008]: Non-evacuated blood collection tube IVD, gel separator is active with no Acceptability map (since 20140731).	2019-Jun-20

		2994913019[702294007]: Syringe-blood collection tube transfer IVD is active with no Acceptability map (since 20140731). 2992275013[701146002]: Ether anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2994709015[702229005]: Nephelometer IVD is active with no Acceptability map (since 20140731). 2994946013[702305000]: Microcapillary blood transfer tube IVD, sodium fluoride is active with no Acceptability map (since 20140731). 3312649018[718563007]: Revised Children's Anxiety and Depression Scale Parent Version total anxiety subscale is active with no Acceptability map (since 20170131). 2994864019[702278000]: Evacuated blood collection tube IVD, no additive/metal-free is active with no Acceptability map (since 20140731). 2994886018[702285001]: Non-evacuated blood collection tube IVD, lithium heparin/gel separator, sterile is active with no Acceptability map (since 20140731). 2994861010[702277005]: Microcapillary blood collection tube IVD, no additive is active with no Acceptability map (since 20140731). 2994898011[702289007]: Evacuated urine specimen container IVD, ethyl paraben/sodium porpionate/chlorhexidine is active with no Acceptability map (since 20140731). 2994892012[702287009]: Non-evacuated blood collection tube IVD, potassium oxalate /sodium fluoride is active with no Acceptability map (since 20140731). 2994895014[702288004]: Evacuated urine specimen container IVD, boric acid (H3BO3) /sodium formate is active with no Acceptability map (since 20140731). 2994855012[702275002]: Microcapillary blood collection tube IVD, ammonium heparin is active with no Acceptability map (since 20140731). 2994822019[702266004]: Gas chromatography analyser column IVD is active with no Acceptability map (since 20140731). 2994931018[702300005]: Non-evacuated blood collection tube IVD, lithium heparin/gel separator, non-sterile is active with no Acceptability map (since 20140731). 2994830018[702268003]: General specimen container IVD, no additive, non-sterile is active with no Acceptability map (since 20140731). 2994721016[702233003]: Blood tube mixer IVD is active with no Acceptability map (since 20140731). 2994833016[702269006]: General specimen container IVD, no additive, sterile is active with no Acceptability map (since 20140731). 2994940019[702303007]: Evacuated urine specimen container IVD, multiple preservative is active with no Acceptability map (since 20140731). 2994692014[702223006]: Sputum specimen container IVD is active with no Acceptability map (since 20140731). 2994943017[702304001]: Microcapillary blood transfer tube IVD, clot activator is active with no Acceptability map (since 20140731). 3312777016[718729008]: Revised Children's Anxiety and Depression Scale Parent Version social phobia subscale is active with no Acceptability map (since 20170131). 2994937019[702302002]: Evacuated urine specimen container IVD, boric acid (H3BO3) is active with no Acceptability map (since 20140731). 2994695011[702224000]: Midstream urine specimen container IVD is active with no Acceptability map (since 20140731). 2992117016[701094000]: Methoxyflurane anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2994794017[702258008]: High performance liquid chromatography analyser pump IVD is active with no Acceptability map (since 20140731). 2992259010[701141007]: Isoflurane anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2992481019[701214006]: Enflurane anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2994753013[702244006]: Sterile urine specimen container IVD is active with no Acceptability map (since 20140731). 2994788013[702256007]: Non-evacuated blood collection tube IVD, no additive is active with no Acceptability map (since 20140731). 2994901012[702290003]: Cervical cytology microscopy slide IVD is active with no Acceptability map (since 20140731). 3313222015[718688008]: Distal deletion 6p is active with no Acceptability map (since 20170731). 2991982016[701049006]: Desflurane anaesthesia vaporizer is active with no Acceptability map (since 20170731). 2992391014[701184008]: Halothane anaesthesia vaporizer is active with no Acceptability map (since 20170731). RESOLUTION: A previous Known Issue from the July 2017 International Edition, as these were historical issues with no perceived clinical impact, and as such were designated as low priority by the SNOMED International Content Team. They were therefore fixed in the next editing cycle, and will now be released in the January 2018 International Edition.	
ISRS-192	Concepts not using the expected attribute	Four concepts using the 363705008 | HAS DEFINITIONAL MANIFESTATION | attribute, that according to our checks shouldn't – our test restricts the domain to 64572001|Disease (disorder)| This may very well be an issue with our check, as the editorial rules (old+new) I have both indicate the domain is |Clinical finding|. Which would make these concepts acceptable. However… The editorial rules do state "This attribute links disorders to the manifestations (observations) that define them" (emphasis added) I'm not sure if the rules were domain was loosened since we created our checks, or we tightend the test based on the above statement. But given these (4) are the first and only non-disorders to use this attribute, they're for	2019-Jun-20

		same type of concept (and from an extension). I'll leave as an issue until confirmed as correct by the content team. My suspicion is that the definition of these should be using the Interprets/Has Interpretation attribute pair. 15748521000119101 Tightness of bilateral gastrocnemius muscles (finding) 15748561000119106 Tightness of left gastrocnemius muscle (finding) 15748601000119106 Tightness of right gastrocnemius muscle (finding) 15968741000119100 Low back pain co-occurrent with and due to bilateral sciatica (finding) RESOLUTION: Stated Relationships for the above 4 concepts have had HAS DEFINITIONAL MANIFESTATION (363705008) inactivated in the January 2018 International Edition release	
ISRS-209	Need termServer to prevent re-basing of Release branches	This is to prevent the issues we've experienced in past releases, whereby the release branch (taken at time of versioning) has been accidentally re-based by the content team against the MAIN branch, thus polluting it with new content for the next release cycle. RESOLUTION: We have therefore updated the SCA to allow us to set a flag at branching time to ensure that this is not even an option.	2017-Dec-06
ISRS-212	MRCM Cardinality constraint failure - domain of all 272741003 |Laterality| relationships should be a descendant or self of a member of the 91723000 |Lateralizable body structure reference set|	The concept model has an 'optional' rule that the domain (ie sourceConcept) of all 272741003 |Laterality| relationships should be a descendant or self of a member of the 91723000 |Lateralizable body structure reference set| (see row 4 of 'Attribute domain (edit)' and row 19 of 'Domain (edit)' sheet). There are 13 concepts (see below) that are lateralized (ie the source of a |Laterality| relationship) which are not a descendant or self of a member of |Lateralizable body structure reference set|. This optional rule is intended to raise a warning, to allow the appropriate concepts to be added to the |Lateralizable body structure reference set|. This rule is optional so we need to discuss and agree whether or not to fix/address any lateralized body structures that are not in this refset. 27441005|Structure of right aorticopulmonary cushion (body structure)| 338434007|Entire right aorticopulmonary cushion (body structure)| 86300003|Structure of left aorticopulmonary cushion (body structure)| 338536007|Entire left aorticopulmonary cushion (body structure)| 361403005|Primitive left dorsal aorta (body structure)| 361404004|Primitive right dorsal aorta (body structure)| 370084000|Right lateral portion of upper third of esophagus (body structure)| 370089005|Right lateral portion of middle third of esophagus (body structure)| 370094005|Right lateral portion of lower third of esophagus (body structure)| 721984004|Structure of left visual system (body structure)| 721985003|Structure of right visual system (body structure)| 723212007|Structure of right nerve plexus (body structure)| 723213002|Structure of left nerve plexus (body structure)| RESOLUTION: The failures of this "optional" rule are Warnings only, and therefore not critical to the use of the Lateralizable Body Structure refset. As such, they have been resolved by the SNOMED International content team during the January 2018 editing cycle, as part of the planned refinement of the editorial rules for the representation of lateralities for embryonic structures and lateral half structures.	2017-Oct-12
ISRS-218	Inactive concepts with descriptions of status 0 (RF1)	All concepts should have a fully-specified name of appropriate status. There are 10 inactive International concepts that have come through the RF2 to RF1 conversion with their attached descriptions still as status 0. Highly likely that this is an RF2 to RF1 conversion issue rather that a problem in the base RF2 data. RESOLUTION: Firstly, the RF2 to RF1 conversion process has been refined to assign "Status 8" to the descriptions even if an inactivation indicator has not been set. Secondly, an RVF improvement ticket has been opened to identify these cases, allowing them to be resolved early in the cycle in future.	2019-Jun-20
ISRS-220	Metadata concepts without IS_A relationships (RF1)	All concepts except the Root must be children in the IS_A hierarchy. Three odd metadata concepts have crept into the release without any kind of IS_A relationship attached. These may in fact be supporting items from the International authoring environment and not even true RF2! 733929006 "General concept axiom (metadata)" 734146004 "OWL ontology namespace (metadata)" 734147008 "OWL ontology header (metadata)" Additionally, two new concepts have been created which should have been specified in the model module, not the core module: 734866006 0 Concept attribute (foundation metadata concept) XUy1X 1 734867002 0 Expression definition status (foundation metadata concept) XUy1Y 1	2019-Jun-20

		RESOLUTION: RF2 to RF1 Conversion Utility refined in order to bring it in line with current RF2 definitions of metadata concepts. Modules for the relevant RF2 concepts have also been corrected accordingly in the final January 2018 Member Release package.	
ISRS-224	Re-use of Relationship ID's (RF1)	No changes are allowed to released relationships, except for the Relationship Group or Refinability fields. Is this a bug in the RF2 to RF1 conversion? Seems to be re-using relationship IDs at random from one release to the next. Will Investigate further, this is just a heads up to the fact that we found 442 fails of this rule. RESOLUTION: this has been resolved in the RF2 to RF1 conversion utility as part of the January 2018 Editing cycle.	2017-Dec-21
ISRS-233	Historical issues related to MRCM Cardinality validation	RESOLUTION: the MRCM validation tool has been updated to report issues found in current authoring cycle and published contents separately.	2017-Nov-08
ISRS-257	Add new refsetDescriptor records to Jan 2018 International Edition	For the Jan 2018 International Edition, we need to add multiple new refsetDescriptor records (for 705111002 |Map correlation and origin type reference set| and 705109006 |Code). These should be similar to this (only with the International ModuleID instead of LOINC!): 906cb361-895c-4f9f-b8f1-1716843770c0 20170731 1 715515008 900000000000456007 705111002 449608002 900000000000461009 0 9144910b-7654-4bd3-99a8-784c4b7f8d2f 20170731 1 715515008 900000000000456007 705111002 900000000000505001 900000000000465000 1 38dbee28-ffe1-4c6b-9637-8b2981bddb01 20170731 1 715515008 900000000000456007 705111002 410662002 900000000000461009 2 e48daa01-677f-47f5-807c-f9e744566977 20170731 1 715515008 900000000000456007 705111002 447247004 900000000000461009 3 4a5589f4-a67e-493d-9ec7-88a91dd14503 20170731 1 715515008 900000000000456007 705111002 705116007 900000000000461009 4 2a144425-9c7c-4acf-b763-f80e72e8d807 20170731 1 715515008 900000000000456007 705109006 449608002 900000000000461009 0 dead17d5-a52f-4da3-9a71-187e820494c1 20170731 1 715515008 900000000000456007 705109006 900000000000505001 900000000000465000 1 9a39d251-d87e-4362-92a6-25d9245b8522 20170731 1 715515008 900000000000456007 705109006 706999006 707000009 2 873b63e4-fa7f-4ec5-acc6-db15b2b444a4 20170731 1 715515008 900000000000456007 705109006 900000000000444006 900000000000461009 3 17055ffd-ff4a-42ae-a2f9-17985e2ebdf0 20170731 1 715515008 900000000000456007 705109006 447247004 900000000000461009 4 3d5b6959-3b96-4df0-aef7-ef5179aa54e5 20170731 1 715515008 900000000000456007 705109006 705116007 900000000000461009 5 These rows represent the refset patterns used by the LOINC reference sets, and belong in the international edition, so that they can be used for other purposes (besides just for the LOINC refsets). RESOLUTION: Confirmed SRS and RVF had no issues with the additional records, so this ticket can be closed down without any action required.	2017-Dec-01
ISRS-260	Content having different moduleID's than the related concepts	As part of the US Edition testing, several records were found where the components had been assigned different moduleID's to the concepts to which they were connected. **For both Stated and Inferred relationship files:** Concept: 726633004 20170731 1 900000000000207008 900000000000074008 Relationship: 6930855020 20170731 1 900000000000012004 288556008 726633004 0 116680003 900000000000011006 900000000000451002 Concept: 726634005 20170731 1 900000000000207008 900000000000074008 Relationship: 6930853029 20170731 1 900000000000012004 255234002 726634005 0 116680003 900000000000011006 900000000000451002 6930857028 20170731 1 900000000000012004 371881003 726634005 0 116680003 900000000000011006 900000000000451002 +*For description file:*+ Concept: 723264001 20170131 1 900000000000012004 900000000000074008 Description: 3335274013 20170731 1 900000000000207008 723264001 en 900000000000013009 Lateralisable body structure reference set 900000000000448009	2017-Aug-29

		Concept: 733983009 20170731 1 900000000000012004 900000000000074008 Description: 3481613013 20170731 1 900000000000207008 733983009 en 900000000000013009 IHTSDO (International Health Terminology Standards Development Organisation) - Nursing Health Issues module 900000000000017005 Concept: 733984003 20170731 1 900000000000012004 900000000000074008 Description: 3481610011 20170731 1 900000000000207008 733984003 en 900000000000013009 IHTSDO (International Health Terminology Standards Development Organisation) - Nursing Activities module 900000000000017005 Concept: 734535006 20170731 1 900000000000012004 900000000000074008 Description: 3508979019 20170731 1 900000000000207008 734535006 en 900000000000013009 Extension Namespace 1000209 900000000000448009 RESOLUTION: ModuleID's on the Relevant concepts/descriptions updated accordingly.	
ISRS-270	RVF Assertion failure: 19423070-7118-45bd-98ba-6d0dc18bc619	assertionUuid: "19423070-7118-45bd-98ba-6d0dc18bc619", assertionText: "For each active FSN there is a synonym that has the same text.", failureCount: 4, firstNInstances: conceptId: "723618002", detail: "723618002 |Assessment using Ages and Stages Questionnaires Social-emotional second edition (procedure)|" conceptId: "71516007", detail: "71516007 |Product containing vitamin D>2< (medicinal product)|" conceptId: "723616003", detail: "723616003 |Ages and Stages Questionnaires Social-emotional second edition (assessment scale)|" conceptId: "723617007", detail: "723617007 |Ages and Stages Questionnaires Social-emotional second edition score (observable entity)|" RESOLUTION: Synonyms added as required.	2019-Jun-20
ISRS-286	Stated IS_A relationship and semantic tag	Concept found incidentally after close of editing and usual validation and QA. 205802006|Oculo-palato-digital syndrome (disorder)| IS_A 263934009|X-linked inheritance (qualifier value)| The error did not show up in existing reports. Also earlier in release cycle found 116224001|Complication of procedure (disorder)| with IS_A relationship to 263718001|Complication (attribute)| An MRCM rule could be designed to pick these types of errors up, existing MRCM rules only check attributes other than (IS_A) are applied to correct domains. Refinement to QA rules in SCA requested and reprioritised to highest priority https://jira.ihtsdotools.org/browse/ATF-1243 RESOLUTION: Stated Relationship parent 263934009 (IS_A relationship ID 7333028021) removed for Concept ID 205802006, and replaced with new stated parent 128430005	2018-May-16
ISRS-287	Promote LOINC metdata into the Jan 2018 International Edition release	Several metadata concepts were accidentally not included in the July 2017 LOINC content editing cycle, and so missed the cut for the July 2017 International release. We therefore added them in manually to the July 2017 LOINC Release - however they should reside in the International Edition, and we therefore need to promote them into the Jan 2018 International Edition. Please see the linked LOINC-357 ticket for full details. RESOLUTION: LOINC metadata concepts, plus refsetDescriptor records added to the January 2018 International Edition as planned.	2019-Jun-20
ISRS-288	RVF Assertion failure: 89ceaf00-79b9-11e1-b0c4-0800200c9a66	assertionUuid: "89ceaf00-79b9-11e1-b0c4-0800200c9a66", assertionText: "All stated relationships inactivated in current release must have been active in the previous release.", failureCount: 1, firstNInstances:	2019-Jun-20

		[{conceptId: "205802006", detail: "Stated relationship: id=7333028021 is inactive in the current release but no active state found in the previous snapshot."}], RESOLUTION: Born inactive relationship resolved.	
ISRS-289	RVF Assertion failure: b88b9f46-4c33-4d8e-b9ab-ddb87aef3068	assertionUuid: "b88b9f46-4c33-4d8e-b9ab-ddb87aef3068", assertionText: "New inactive states follow active states in the ASSOCIATION REFSET snapshot file.", failureCount: 1, firstNInstances: [{conceptId: "81003012", detail: "ASSOC RS: id=b409f226-de0e-4159-887d-ce79974165c4 is inactive but no active state found in the previous release."}], RESOLUTION: Inactive state resolved in final Production release.	2019-Jun-20
ISRS-290	RVF Assertion failure: c3249e80-84f0-11e1-b0c4-0800200c9a66	assertionText: "Terms that contain en-us specific words are in the en-us language refset.", assertionUuid: "c3249e80-84f0-11e1-b0c4-0800200c9a66",failureCount: 11, firstNInstances: [{conceptId: "736535009", detail: "DESCRIPTION: id=3518059016: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: analogue"}, {conceptId: "735529004", detail: "DESCRIPTION: id=3514776016: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: entamoeba"}, {conceptId: "737347005", detail: "DESCRIPTION: id=3527485012: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: entamoeba"}, {conceptId: "735516004", detail: "DESCRIPTION: id=3514737017: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: gonorrhoeae"}, {conceptId: "762257007", detail: "DESCRIPTION: id=3636261016: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: gonorrhoeae"}, {conceptId: "762311008", detail: "DESCRIPTION: id=3636373019: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neurilemmoma"}, {conceptId: "762312001", detail: "DESCRIPTION: id=3636376010: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neurilemmoma"}, {conceptId: "735916009", detail: "DESCRIPTION: id=3515711010: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neuroepithelial"}, {conceptId: "735919002", detail: "DESCRIPTION: id=3515717014: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neuroepithelial"}, {conceptId: "735920008", detail: "DESCRIPTION: id=3515719012: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neuroepithelial"}, {conceptId: "735921007", detail: "DESCRIPTION: id=3515721019: Synonym is prefered in en-us language refset but refers to a word that has en-gb spelling: neuroepithelial"}], RESOLUTION: This assertion is for warning purposes only, and in this case no action is required for the January 2018 International Edition.	2017-Nov-22
ISRS-291	RVF Assertion failure: cc9c5340-84f0-11e1-b0c4-0800200c9a66	assertionUuid: "cc9c5340-84f0-11e1-b0c4-0800200c9a66", assertionText: "Terms that contain en-gb specific words are in the en-gb language refset.", failureCount: 24, firstNInstances: [{conceptId: "737243006", detail: "DESCRIPTION: id=3527250010: Synonym is preferred in the en-gb language refset but refers to a word that has en-us spelling: fragility"}, {conceptId: "737244000", detail: "DESCRIPTION: id=3527251014: Synonym is preferred in the en-gb language refset but refers to a word that has en-us spelling: fragility"}, {conceptId: "734289007", detail: "DESCRIPTION: id=3503193012: Synonym is preferred in the en-gb language refset but refers to a word that has en-us spelling: gram"}, {conceptId: "734291004", detail: "DESCRIPTION: id=3503198015: Synonym is preferred in the en-gb language refset but refers to a word that has en-us spelling: gram"}, {conceptId: "734290003", detail: "DESCRIPTION: id=3503201013: Synonym is preferred in the en-gb language refset but refers to a word that has en-us spelling: gram"},	2017-Nov-21

		RESOLUTION: This assertion is for warning purposes only, and in this case no action is required for the January 2018 International Edition.	
ISRS-292	RVF Assertion failure: 0cc708af-6816-4370-91be-dba8da99d227	assertionUuid: "0cc708af-6816-4370-91be-dba8da99d227", assertionText: " There must be actual changes made to previously published descriptions in order for them to appear in the current delta.", failureCount: 1, firstNInstances: [{conceptId: "48611009", detail: "Description: id=81003012 is in the detla file, but no actual changes made since the previous release."}], RESOLUTION: This is an expected result of the content fix, and therefore no action is required for the January 2018 International Edition.	2017-Nov-23
ISRS-293	RVF Assertion failure: 2aa0bea1-b1fa-4543-b277-b4392a6f864d	assertionUuid: "2aa0bea1-b1fa-4543-b277-b4392a6f864d", assertionText: "New inactive states follow active states in the ATTRIBUTEVALUE snapshot.", failureCount: 3, firstNInstances: [{conceptId: "503829013", detail: "AttributeRefsetId=0e23696e-a8d3-5624-b6ae-8def187d2c01 should not have a new inactive state as it was inactive previously."}, {conceptId: "468037015", detail: "AttributeRefsetId=1661c0fb-8fde-5edf-ae65-4612ca4a9a92 should not have a new inactive state as it was inactive previously."}, {conceptId: "81003012", detail: "AttributeRefsetId=8a033490-69d3-4227-b0d7-e73e26f13478 is inactive but no active state found in the previous snapshot."}], RESOLUTION: The record for concept 81003012 has been removed, and the failures for the other two concepts have been proven to be for warning purposes only, and therefore no action is required for these two records for the January 2018 International Edition.	2017-Nov-23
ISRS-294	MRCM refset failures	Validation of the January 2018 Alpha release content, using the MRCM refsets has passed. However, validation of the new MRCM refsets themselves has failed, with errors that need to be resolved before the validation of the content can be run again... RESOLUTION: MRCM refsets repaired and MRCM validation run successfully.	2019-Jun-20
ISRS-295	Changes to content after validation report review	RESOLUTION: After review of content changes in attached validation report, a small number were escalated to principle terminologist for review, 3 changes were made in this task RFJ-3. 1. Changed stated parent for 723830005|Keratosis follicularis, dwarfism, cerebral atrophy syndrome(disorder) to remove autosomal dominant parent 2. Changed stated parent for 205802006|Oculo-palato-digital syndrome (disorder)| to remove qualifier value as IS_A - this is logged separately https://jira.ihtsdotools.org/browse/ISRS-286 3. Reinstated synonym that was inactivated in error on 48611009|Keratosis follicularis (disorder)|	2019-Jun-20
ISRS-296	2 duplicate Association Reference records	The UKTC found one issue in the Association Reference set, a duplication with all fields except for the ID: c9973797-b81c-4ec9-b816-707d8fa96e01 | 20180131 | 1 | 900000000000207008 | 900000000000527005 | 88359004 | 416327007 c9d735f4-de2f-4362-934e-8963bd553b04 | 20180131 | 1 | 900000000000207008 | 900000000000527005 | 88359004 | 416327007 This was identified during the RF2 to RF1 conversion process - the rest of the RF1 conversion has passed their load testing.	2019-Jun-20

RESOLUTION: The first record was removed (c9973797-b81c-4ec9-b816-707d8fa96e01) and the second record was retained (c9d735f4-de2f-4362-934e-8963bd553b04).

ISRS-297	Duplicate active references in the Anatomy structure and entire refset	The second entry is thought to be unnecessary: id: 1fd6713a-d6a3-4de5-b33f-dd85cfb075e3; referenced Component Id: 5597008; value1: Structure of retina of right eye (body structure); 368 577 001: Entire retina of right eye (body structure) id: 6dc07e8a-2f70-4eb2-a7f3-7194a996fb32; referenced Component Id: 5597008; value1: Structure of retina of right eye (body structure); 368 577 001: Entire retina of right eye (body structure) RESOLUTION: The second record was removed (6dc07e8a-2f70-4eb2-a7f3-7194a996fb32) and the first record was retained (1fd6713a-d6a3-4de5-b33f-dd85cfb075e3).	2019-Jun-20
ISRS-299	Possible dual lineage - 411115002|Drug-device combination product (product) |	ADHA have got this coming up in a dual lineage check, but it looks OK… (they can't access the daily build at the moment, so please verify if this is a valid issue or not). RESOLVED: ADHA confirmed no issue - tests refactored to prevent false positives. Ticket has therefore been closed down with no action required.	2017-Nov-29
ISRS-300	123005000 | PART OF | issues	Invalid Range concept - 859734028: Complex or labyrinthine intercellular space (body structure); Part of (attribute); Cell to cell relationship, distinctive (body structure) Incorrect Domain - 70 relationships do not have a domain that is subtype of Anatomical structure (body structure). Specifics available upon request. RESOLUTION: SNOMED International Content Team confirmed that these issues will be resolved as part of the overall Anatomy model refactoring, due to be completed within the next 3 years. The relevant validation tests will be whitelisted until this Anatomy remodelling is complete.	2017-Dec-01
ISRS-301	Lateralizable body structure reference set issues	The following concepts do not appear to be lateralizable. I think I reported these in October, but in any case. No new instances. 731440004: Entire common left pulmonary vein (body structure) 730545000: Entire eleventh right posterior intercostal vein (body structure) 730546004: Entire tenth right posterior intercostal vein (body structure) 730420001: Entire left subcardinal vein (body structure) 730555001: Entire right ascending lumbar vein (body structure) 730416000: Entire right vitelline vein (body structure) 730543007: Entire third right posterior intercostal vein (body structure) 730466006: Entire left common cardinal vein (body structure) 730463003: Entire right anterior cardinal vein (body structure) 730548003: Entire eighth right posterior intercostal vein (body structure) 730230008: Entire lower right posterior intercostal veins (body structure) 730549006: Entire seventh right posterior intercostal vein (body structure) 730544001: Entire fourth right posterior intercostal vein (body structure) 76033006: Structure of intercaval sinus (body structure) 730467002: Entire right common cardinal vein (body structure) 730464009: Entire left posterior cardinal vein (body structure) 731439001: Entire common right pulmonary vein (body structure) 730554002: Entire left ascending lumbar vein (body structure) 730551005: Entire fifth right posterior intercostal vein (body structure)	2019-Jun-20

730417009	Entire left vitelline vein (body structure)
277714004	Entire intercaval sinus (body structure)
730550006	Entire sixth right posterior intercostal vein (body structure)
730547008	Entire ninth right posterior intercostal vein (body structure)
730465005	Entire right posterior cardinal vein (body structure)
730421002	Entire right subcardinal vein (body structure)
730419007	Entire left supracardinal vein (body structure)
730542002	Entire second right posterior intercostal vein (body structure)
730541009	Entire right subcostal vein (body structure)

RESOLUTION: Relevant concepts inactivated in the Lateralizable Body Structure reference set.

ISRS-302 — Case Sensitivity issues — 2017-Dec-21

- There are 449 descriptions marked as ***Initial character case insensitive***, but are not Sentence case.
- There are 279 ***Case insensitive***, but are not sentence case.
- There are 520 descriptions marked ***Case insensitive***, but contain upper case characters.

Descriptions available on request (can attach to a ticket).

RESOLUTION: Case significance changed for all relevant records. Rules to be continually refined in 2018 to prevent future issues of a similar nature.

ISRS-303 — ICD-O simple map issues — 2019-Jun-20

- 12 members are not referencing types of 123037004 | body structure | (some are inactive concepts).

UUID	Referenced ComponentId		
9ce29b5a-6fe3-5585-8d10-2b3c2dbdbdf6	385467009	Vascular procedure on axilla (procedure)	C7 6.1
d1f5e144-8cbd-5aaa-b91f-f16baa388d30	248032000	Entire transplanted endocrine pancreas (body structure)	C2 5.4
e0572413-db8c-5e5a-bb5b-0228c925beb9	310545001	Femoral lymph node structure (body structure)	C7 7.4
f09d5b3b-3968-55fa-aace-9b5e845dc06b	279111009	Entire anterior part of thalamus (body structure)	C7 1.0
133ef002-acee-5813-ad6f-80f52953bb44	182462009	Entire plantar aponeurosis (body structure)	C4 9.2
1c6bb85d-740c-5004-a21f-095392e07a18	45797004	Plantar digital nerves (body structure)	C4 7.2
23a456b3-3cea-5c08-8f22-c361a36ab688	280194001	Spinal root of accessory nerve (body structure)	C7 2.5
26f3f6a8-dcc2-535d-b0b9-1a0327573770	110544004	Upper respiratory fluids and spaces (navigational concept)	C3 9.0
2b978c65-4e83-534f-9e29-b31c313edddb	279158001	Entire femoral lymph node (body structure)	C7 7.4
3399f588-5582-5878-9e72-264d1ebd13be	21843009	Structure of transplanted endocrine pancreas (body structure)	C2 5.4
69cd1e43-a158-50ec-a9b6-8d9d247d8a4d	181957003	Shafts of radius and/or ulna in combination (body structure)	C4 0.0
7082bf7b-cd3e-5638-99ed-3595d3ed7ef8	64799002	Plantar aponeurosis structure (body structure)	C4 9.2

· 18 Topography codes are not mapped to 442083009|Anatomical or acquired body structure (body structure)|. (Most of these already identified in previous above)

UUID	Referenced ComponentId		
9ce29b5a-6fe3-5585-8d10-2b3c2dbdbdf6	385467009	Vascular procedure on axilla (procedure)	C7 6.1

a9510718-0c03-5a06-9a6d-ae8003f6afce	414402003	Hernial opening (morphologic abnormality)	C7 6.2
b768cbbe-e8b0-53d9-b4c3-8dfac762b373	78810000	Aberrant retinal vein (morphologic abnormality)	C6 9.6
b9ff1983-c730-5af7-bcc5-93f3fe97dd63	87100004	Topography unknown (body structure)	C8 0.9
d1f5e144-8cbd-5aaa-b91f-f16baa388d30	248032000	Entire transplanted endocrine pancreas (body structure)	C2 5.4
d3856367-4d2a-5f15-a084-73750d096653	69653007	Aberrant retinal artery (morphologic abnormality)	C6 9.6
e0572413-db8c-5e5a-bb5b-0228c925beb9	310545001	Femoral lymph node structure (body structure)	C7 7.4
f09d5b3b-3968-55fa-aace-9b5e845dc06b	279111009	Entire anterior part of thalamus (body structure)	C7 1.0
f37ea690-ee95-5233-9e7f-9965f9b69f19	56552006	Ground substance (morphologic abnormality)	C4 9.9
133ef002-acee-5813-ad6f-80f52953bb44	182462009	Entire plantar aponeurosis (body structure)	C4 9.2
1c6bb85d-740c-5004-a21f-095392e07a18	45797004	Plantar digital nerves (body structure)	C4 7.2
23a456b3-3cea-5c08-8f22-c361a36ab688	280194001	Spinal root of accessory nerve (body structure)	C7 2.5
26f3f6a8-dcc2-535d-b0b9-1a0327573770	110544004	Upper respiratory fluids and spaces (navigational concept)	C3 9.0
2b978c65-4e83-534f-9e29-b31c313edddb	279158001	Entire femoral lymph node (body structure)	C7 7.4
3399f588-5582-5878-9e72-264d1ebd13be	21843009	Structure of transplanted endocrine pancreas (body structure)	C2 5.4
58dba57e-b0f3-56dd-85a7-a5a1863841a2	21229009	Topography not assigned (body structure)	C8 0.9
69cd1e43-a158-50ec-a9b6-8d9d247d8a4d	181957003	Shafts of radius and/or ulna in combination (body structure)	C4 0.0
7082bf7b-cd3e-5638-99ed-3595d3ed7ef8	64799002	Plantar aponeurosis structure (body structure)	C4 9.2

RESOLUTION: All 68 members inactivated in the Simple Map snapshot accordingly

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ISRS-304 — MRCM attribute domain international reference set — 2019-Jun-20

attributeCardinality

35e812ae-cfae-4e6f-a86c-95d7fc2d8b28 363705008|Has definitional manifestation|

- this cardinality [*0..0*] suggests the attribute is never used. If the attribute is deprecated, should the MRCM entry just be inactivated?

dfd2d19e-eb7f-4d3e-9ae5-65e36af00d42 736518005 |Has state of matter (attribute)|

- The cardinality [*.1*] suggests the attribute is mandatory, may be valid? However it's suspicious as no other attribute is mandatory.

These cardinalities are unique across the entire refset. If they are valid, I'll update the checks.

RESOLUTION: SNOMED International Content Team confirmed that no action is required for this, as the explanation was acceptable to the users.

ISRS-305 — MRCM attribute range international reference set validation — 2017-Dec-21

rangeConstraint is immutable – the rangeConstraint value has changed for two entries

- 38cf03ea-0326-4049-b930-41728495b33e
- 762cf268-c2f6-4138-af6f-849dbb0fc3fc

This may be valid as the specs currently indicate the field is mutable. Was changed in May 2017. Please confirm if correct.
(Note the language changed from immutable to mutable – suggest the language be kept consistent across all specifications as it's easy to miss the difference).

RESOLUTION: SNOMED CT Product support team confirmed that this is valid, and therefore no action is required. The rangeConstraint was intentionally made mutable in the |MRCM attribute range reference set| to avoid churn of UUIDs when the range of an attribute changes. With respect to the specifications including a "Mutable" column (rather

		than an "Immutable" column) ... this was changed consistently across all our specifications to improve the readability of this information.	
ISRS-307	RefsetDescriptor query - Attribute description not found within correct hierarchy	Attribute description values 410662002 and 900000000000444006 are not descended from "Reference set attribute". The following records are affected:- • c4de4be5-6d39-4ae8-8974-ebb1aadf0f92 • cf88d18f-d05a-407a-bea8-cd46fc79accb RESOLUTION: Both records updated accordingly: c4de4be5-6d39-4ae8-8974-ebb1aadf0f93 20180131 1 900000000000012004 900000000000456007 705111002 734866006 900000000000461009 2 cf88d18f-d05a-407a-bea8-cd46fc79accc 20180131 1 900000000000012004 900000000000456007 705109006 734867002 900000000000461009 3	2019-Jun-20
ISRS-308	Concept has no active FSN within its module	The following concepts belong to module 900000000000012004, but their fully-specified names in the descriptions table belong to 900000000000207008: • 733900009 • 733929006 • 734146004 • 734147008 RESOLUTION: ModuleID's updated on relevant concepts, plus on the related Relationship records.	2019-Jun-20
ISRS-309	AttributeValue refset - Concept is mapped to wrong inactivation value	This refers to concepts in the RF1 release with status 5 (Erroneous) which are mapped to valueid 723277005 ("Nonconformance to editorial policy component") in the Concept inactivation indicator refset (900000000000489007). Ordinarily we would exect to see them mapped to "Erroneous component" (900000000000485001). See attached list. RESOLUTION: Reporters confirmed that this ticket can be closed down with no action required, as the issue reported was a result of a local conversion process, and therefore has no impact on the RF2 Release package.	2017-Dec-01
ISRS-310	AttributeValue refset - Description is mapped to wrong inactivation value	Similar to the concepts with incorrect values in ~~ISRS-309~~. A number of descriptions are mapped to values other than those suggested by their RF1 statuses. See attached report. RESOLUTION: Reporters confirmed that this ticket can be closed down with no action required, as the issue reported was a result of a local conversion process, and therefore has no impact on the RF2 Release package.	2017-Dec-01
ISRS-311	Fix validation failure 48118153-d32a-4d1c-bfbc-23ed953e9991	{"testCategory": "file-centric-validation", "assertionUuid": "48118153-d32a-4d1c-bfbc-23ed953e9991", "assertionText": "There is a 1:1 relationship between the id and the immutable values in the description snapshot.", "queryInMilliSeconds": 45132, "failureCount": 1, "firstNInstances": [{ "conceptId": "24891006", "detail": "Concept:482041016 has multiple description ids for the same term:Sodium amidotrizoate" }} RESOLUTION: Erroneous changes to Description snapshot reverted, so records once again are as follows: id effectivetime active moduleid conceptid languagecode typeid term casesignificanceid 482041016 20030731 0 900000000000207008 24891006 en 900000000000013009 Sodium amidotrizoate 900000000000020002 2153861015 20170731 1 900000000000207008 24891006 en 900000000000013009 Sodium amidotrizoate 900000000000448009	2019-Jun-20
ISRS-313	RVF Assertion failure: d9f8a8d6-2c02-11e7-b0e7-3c15c2c6e32e	assertionText: "The FSN term should be unique in active content when case sensitivity is ignored.", failureCount: 1, firstNInstances: [{conceptId: "406004001", detail: "FSN=cdE haplotype (finding) concept=406004001: FSN term is not unique in description snapshot when case is ignored"} RESOLVED: SNOMED CT Content team confirmed that these variations are valid, and this ticket can therefore be closed down without any action required	2017-Dec-08
ISRS-	RVF Assertion failure:		2017-Dec-

314	0cc708af-6816-4370-91be-dba8da99d227	assertionUuid: "0cc708af-6816-4370-91be-dba8da99d227", assertionText: " There must be actual changes made to previously published descriptions in order for them to appear in the current delta.", failureCount: 9, firstNInstances: [{conceptId: "48611009", detail: "Description: id=81003012 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "406757009", detail: "Description: id=2158402015 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "409708007", detail: "Description: id=2471470016 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160436004", detail: "Description: id=2666134019 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160447006", detail: "Description: id=2666604013 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160452001", detail: "Description: id=2666609015 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160457007", detail: "Description: id=2666614016 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160442000", detail: "Description: id=2666928013 is in the detla file, but no actual changes made since the previous release."}, {conceptId: "160430005", detail: "Description: id=2667273015 is in the detla file, but no actual changes made since the previous release."} RESOLUTION: This is an expected result of the content fix, and therefore no action is required for the January 2018 International Edition.	15
ISRS-319	Minor issues in the MRCM Domain file	Minor issues have been identified in the MRCM Domain file, as follows: • *4c97efc0-bfb8-4afc-b3f1-d60862074973 (Administration of substance via specific route)* + *7ca9ec15-74ce-488d-a250-2a3c71278268 (Anatomical structure)* - The parentDomain was omitted. • *f1136b12-f2bd-46db-b9fb-be484129e40c (Clinical finding)* + *3f013ed8-b9bd-4938-9b80-0873ee329304 (Disease)* + *529e4ef1-4e07-4866-89a7-072bfba20461 (Event)* - The attribute |During AND/OR after| was mistakenly included in the domainTemplateForPrecoordination and domainTemplateForPostcoordination. KNOWN ISSUE: The July 2018 International Edition will include updates to the MRCM Domain reference set file that will resolve the above issues. If you are using the MRCM release files, please contact the SNOMED International Product Support team (eps@snomed.org) for advice on ways to resolve or mitigate any short-term impact that these issues may have on your specific use case.	
ISRS-320	Erroneous description identified for concept 1086561000119100	An erroneous preferred term has been identified on concept: 1086561000119100|Hemorrhage of duodenum co-occurrent and due to diverticulosis (disorder)| This duplicates the preferred term on concept: 1086571000119106|Hemorrhage of ileum co-occurrent and due to diverticulosis (disorder)| RESOLUTION: Removed 2 invalid descriptions (3512606011 + 3512607019) due to status of erroneous (not inactivated, completely removed as otherwise these would have been born inactive as they were new to the January 2018 International Edition), and replaced them with 2 new descriptions (3658075016 + 3083724012)	2018-Jan-29
ISRS-322	Erroneous description identified for concept 259720006	An erroneous preferred term has been identified on concept: 259720006|Substance with white blood cell enzyme mechanism of action (substance)| RESOLUTION: Description 3520664018 inactivated with a status of erroneous, and Description 3658178016 added as a new description (preferred term)	2018-Jan-29

44 issues

3.3 Technical updates

3.3.1 Association Reference set naming convention

The naming convention of the Association Reference file is being improved for the January 2018 International Edition.

It will no longer be named using this convention:

'der2_cRefset_AssociationReferenceSnapshot_INT_[date].txt'

Instead it will be named as follows:

'der2_cRefset_AssociationSnapshot_INT_[date].txt'

Therefore, the three files in the January 2018 International Edition release package will be called:

- der2_cRefset_AssociationDelta_INT_20180131.txt
- der2_cRefset_AssociationFull_INT_20180131.txt
- der2_cRefset_AssociationSnapshot_INT_20180131.txt

3.3.2 RF2 package naming convention

In order to differentiate between the different versions of the Production release package, the fourth element in the naming convention of will now state "MEMBER" for Member releases, and "PRODUCTION" for the final Public releases.

Thus the Member release published on 31st December 2017 for the January 2018 International Edition will be called:

SnomedCT_InternationalRF2_MEMBER_20180131T120000Z.zip

Whilst the Public release published on 31st January 2018 for the January 2018 International Edition will be called:

SnomedCT_InternationalRF2_PRODUCTION_20180131T120000Z.zip

3.3.3 RF2 package format

For future reference, the RF2 package convention dictates that it contains all relevant files, regardless of whether or not there is content to be included in each particular release. Therefore, the package contains a mixture of files which contain both header rows and content data, and also files that are intentionally left blank (including only a header record). The reason that these files are not removed from the package is to draw a clear distinction between

1. ...files that have been deprecated (and therefore removed from the package completely), due to the content no longer being relevant to RF2 in this or future releases, and

2. ...files that just happen to contain no data in this particular release (and are therefore included in the package but left blank, with only a header record), but are still relevant to RF2, and could therefore potentially contain data in future releases.

This allows users to easily distinguish between files that have purposefully been removed or not, as otherwise if files in option 2 above were left out of the package it could be interpreted as an error, rather than an intentional lack of content in that release.

3.3.4 Early visibility of impending change in the July 2018 International edition

Please see the following page for details of all upcoming changes planned for July 2018 and beyond: January 2020 Early Visibility Release Notices - Planned changes to upcoming SNOMED International Release packages

NOTE: To access any of the links in the pdf document, please visit the Release Notes online here:

https://confluence.ihtsdotools.org/display/RMT/SNOMED+CT+January+2018+International+Edition+-+SNOMED+International+Release+notes

Approvals

Final Version	Date	Approver	Comments
0.1		Lesley MacNeil	LMA Approved
0.1		Maria Braithwaite	MBR approved - Section 3.0 Technical notes to be completed by AAT
0.1		Donna Morgan	DMO Approved
0.1		Jim Case /Paul Amos	LMA Approved - via email in absence to document access
1.0	21 Dec 2017	Rory Davidson	Signed off
1.0	21 Dec 2017	Maria Braithwaite	Signed off
1.0	21 Dec 2017	Lesley MacNeil	Signed off

Draft Amendment History

Version	Date	Editor	Comments
0.1	20171108	Andrew Atkinson	First draft for review and comment
0.1	20171115	Lesley MacNeil	Added Paul Amos for Approval in absence of Jim Case - Also notes to MBR to add advance notice of WAS A usage new policy
1.0	20171120	Andrew Atkinson	Final technical updates completed
1.1	20180129	Andrew Atkinson	Updated with latest Member release package updates