# SNOMED CT January 2017 International Edition - IHTSDO Release notes

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|---|---|
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**Page At A Glance**

# 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 2017 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 2017 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 2017 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). The January 2017 International Release has seen a continuation of the work driven by contributions from the Kaiser Permanente Convergent Medical Terminology (CMT), Global Medical Device Nomenclature Agency (GMDNA) and Orphanet 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.

## 2.2 Content Quality Improvement

- **In total: 5123 new concepts were authored with an additional 13899 changes made to existing concepts.**

| SCT Statistics | New concept additions |
| --- | --- |
| SNOMED CT Concept (SNOMED RT+CTV3) | 5123 |
| Body structure (body structure) | 332 |
| Clinical finding (finding) | 2880 |
| Environment or geographical location (environment / location) | 3 |
| Event (event) | 6 |
| Observable entity (observable entity) | 153 |
| Organism (organism) | 277 |
| Pharmaceutical / biologic product (product) | 7 |
| Physical force (physical force) | 0 |
| Physical object (physical object) | 247 |
| Procedure (procedure) | 517 |
| Qualifier value (qualifier value) | 68 |
| Record artifact (record artifact) | 32 |
| SNOMED CT Model Component (metadata) | 21 |
| Situation with explicit context (situation) | 154 |
| Social context (social concept) | 28 |
| Special concept (special concept) | 0 |
| Specimen (specimen) | 2 |
| Staging and scales (staging scale) | 90 |
| Substance (substance) | 305 |

### 2.2.1 Anatomy

#### 2.2.1.1 Laterality

Included with this release is the first release of the Lateralizable Body Structure Reference Set as a simple type refset. The refset includes all body structures that can be lateralized. The primary purpose is to support RF2 to RF1 conversion. It can also be used for the MRCM specification for quality assurance. The post-coordination of laterality can be supported by the new refset. It can help with the identification of concepts in hierarchies, e.g. finding/disorder, procedure, situation, which are lateralizable based on their concept modelling.

To support systems that cannot implement post-coordination at the moment, the Editorial Advisory Group (EAG) approved the acceptance of requests for pre-coordination of concepts with laterality.

> ⚠ **Pre-coordinated concepts with laterality**
>
> This approach can support systems that cannot implement post-coordination at the moment. However, post-coordination is still the recommended approach.

- New lateralized concepts have been added as follows:

    i. 250+ in anatomy and
    ii. 400 in disorder and procedure hierarchies

#### 2.2.1.2 Structure/Entire/Part

- The naming conventions for supporting the Structure/Entire/Part (SEP) model have been enhanced to resolve potential ambiguity between structure and entire concepts. All descriptions for Entire concepts must contain the word 'entire'.

    i. 9,000 + descriptions without 'entire' have been inactivated and
    ii. 3,600 + new descriptions added to facilitate searching

## 2.2.2 Clinical finding

- 23 new nutrition and dietetics concepts to support clinical documentation, care planning and research for nutrition.
- 45 new laboratory finding concepts to support microbiology, chemistry and pathology

## 2.2.3 Convergent Medical Terminologies (CMT)

- 619 concepts were added for the January 2017 release, updating domains in Cardiology, Ophthalmology and Radiology.

## 2.2.4 Diagnostic Imaging Procedures

- 10 new concepts, Dual energy computed tomography and body site specific subtype concepts added

## 2.2.5 Functioning

- Disambiguation of the "Interpretation value (qualifier value)" hierarchy, with correction of approximately 600 findings using this as a target for an attribute

## 2.2.6 Disorders

### 2.2.6.1 Orphanet

- As a result of collaboration with Orphanet (http://www.orpha.net/consor/cgi-bin/index.php) 700 new concepts have been created to represent rare diseases in the disorder hierarchy.

### 2.2.6.2 ICD-11 Harmonization plan

- 1200 ICD-11 concepts added from the Mortality and Morbidity Linearization

## 2.2.7  LOINC

- 215 new concepts among the substance, Techniques, body structure hierarchies added to support antibody, antigen, DNA and RNA components needed to map to LOINC Parts.

## 2.2.8 Observables

- Fully modelled more than 150 physiological measurement concepts (body temperature, respiratory rates, heart rates, blood pressure) based on the IHTSDO-979 Vital Signs Observables Inception/Elaboration document.

- Created 10 required, metadata, attribute and range concepts in different hierarchies

## 2.2.9 Organisms

- 250 concepts to support microbiology reporting.

## 2.2.10 Physical objects

- Concepts representing test kits were relocated from the Substance hierarchy to the Physical object hierarchy. Because the meaning of the concept was not changed, the concept IDs were retained. Duplicates were resolved; new FSNs were created.

## 2.2.11 Procedures

- Dual energy computed tomography and body site specific subtype concepts added.

## 2.2.12 Social concept

- 10 new concepts, subtypes of 125676002|Person (person)| different types of relatives

## 2.2.13 Substances

- Concepts representing test kits were relocated from the Substance hierarchy to the Physical object hierarchy. Because the meaning of the concept was not changed, the concept IDs were retained. Duplicates were resolved; new FSNs were created.

## 2.2.14 Various

- Based on SIRs requests a number of new concepts were added in various hierarchies.

## 2.3. Internal Quality Improvement

- Over 300 concepts with redundant IS A relationships were revised to remove redundancy
- Combined/compound allergy concepts inactivated as ambiguous
- Drug indicated (situation)| sub-hierarchy reviewed and modeling updated.
- Inactivated disjunctive substance concepts
- Created around 10 required metadata, attribute and range concepts in different hierarchies.

## 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 IHTSDO 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_iissscccRefset_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.

All pre-coordinated concepts issued by the IHTSDO within the current international release of SNOMED CT with active status within the following SNOMED CT domains may be mapped:

- Clinical finding (disorders and findings) Concept.id 404684003 and descendants
- Event Concept.id 272379006 and descendants
- Situation with explicit context Concept.id 243796009 and descendants excluding Procedure with explicit context Concept.id 129125009 and its descendants

### 2.4.1.2 Mapped content for January 2017

The map provided for the January 2017 release has been updated, and now represents a complete map from SNOMED CT International release to ICD-10 2016 version.

We would welcome feedback on any issues that users of the map may detect when using the map. Issues should be submitted via mapping@ihtsdo.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 2017 International edition, the following Known Issues were identified, and agreed to be resolved in the next editing cycle (to be published in July 2017):

| Key | Summary | Description | P |
|-----|---------|-------------|---|

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 2017 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 2017 International edition can be found here:

| Key | Summary | Description | P | reporting entity | Resolved |
|-----|---------|-------------|---|------------------|----------|
| ISRS-45 | Historical relationship types (RF1) | Three retired concepts have a historical relationship of an inappropriate type: 139521000 267174001 700043003  RESOLUTION: IHTSDO Content Team resolved as follows:  139521000: Tingling: [sensation] or [has sensation] (finding) now retired as ambiguous 267174001: Tingling: [sensation] or [has sensation] (finding) now retired as amibiguous (both with Possibly equivalent to 274676007 Tingling of skin (finding))  The third concept (700043003) was found to be valid, and therefore no action required | | | 2016-Nov-21 |
| ISRS-47 | Multiple historical relationships (RF1) | Three concepts in RF1 have more than one historical relationship (except MAY_BE_As, MOVED_TOs OR WAS_As): 79965005 137650007 410068002  RESOLUTION: IHTSDO Content Team remodelled so that the three concepts now have one reason for inactivation and one historical relationship each as appropriate. | | | 2016-Nov-21 |
| ISRS-53 | Verify that earlier decision on retaining a relationship is still valid | As part of the previous editing cycle, a minor issue was found with several relationships, which had targets with different semantic tags to their sources. In discussion with the Content Team at the time, we agreed to fix all but one, which was seen to be an example of the exception to the rule, and therefore a valid relationship to retain:  id effectiveTime active moduleId sourceId destinationId relationshipGroup typeId characteristicTypeId modifierId 6598284022 20160731 1 900000000000207008 718447001 363013003 0 116680003 900000000000011006 900000000000451002  RULEID SCTID DETAILS TERMLIST 187 718447001 718447001 (finding) : 363013003 (disorder) 718447001: Difficult intubation (finding) - 363013003: Complication of introduction procedure (disorder) 9  RESOLUTION: IHTSDO Content Team remodelled this concept and removed the disorder parent. | | | 2016-Nov-21 |
| ISRS-93 | Concept Model violations found in International Alpha release - Issue 1 | ADHA ran the alpha package through their validation routines. Technically, it passed – from a content persective there looks like a number of concept model violations..  · AFTER(255234002) - only modelled with valid destination concepts 6795991026 Displacement of intraocular lens (disorder) After (attribute) Intraocular lens implant (physical object)  RESOLUTION: 1 Relationship deleted completely, as it was new to the 20170131 Release cycle, and therefore not previously published. | | | 2016-Dec-06 |

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| ISRS-94 | Concept Model violations found in International Alpha release - Issue 2 | ADHA ran the alpha package through their validation routines. Technically, it passed – from a content persective there looks like a number of concept model violations..<br><br>· CAUSATIVE AGENT(246075003) - only modelled with valid destination concepts 6806717028 Megacolon co-occurrent and due to infectious colitis (disorder) Causative agent (attribute) Infectious process (qualifier value)<br><br>RESOLUTION: 1 Relationship record updated, in order to replace the Causative agent attribute with Pathological process. | 2016-Dec-06 |
| ISRS-95 | Concept Model violations found in International Alpha release - Issue 3 | ADHA ran the alpha package through their validation routines. Technically, it passed – from a content persective there looks like a number of concept model violations...<br><br>· HAS INTERPRETATION(363713009) - only modelled with valid destination concepts<br>6795824028 Androgen excess caused by drug (finding) Has interpretation (attribute) Androgen level (procedure)<br>6799904021 Transient neonatal neutropenia co-occurrent and due to neonatal bacterial sepsis (finding) Has interpretation (attribute) Neutrophil count (procedure)<br>6804767021 Transient neonatal neutropenia due to congenital viral infection (finding) Has interpretation (attribute) Neutrophil count (procedure)<br><br>RESOLUTION: 3 records removed, plus 3 records added in the Relationship and Stated Relationship Delta files in the Beta release, in order to change the attribute to "Interprets". | 2016-Dec-06 |
| ISRS-96 | Concept Model violations found in International Alpha release - Issue 4 | ADHA ran the alpha package through their validation routines. Technically, it passed – from a content persective there looks like a number of concept model violations..<br><br>· OCCURRENCE(246454002) - only modelled with valid destination concepts<br>6622179020 Acquired postural plagiocephaly (disorder) Occurrence (attribute) Acquired (qualifier value)<br>6646405025 Acquired arteriovenous malformation (disorder) Occurrence (attribute) Acquired (qualifier value)<br><br>RESOLUTION: 2 Relationships deleted completely, as they were new to the 20170131 Release cycle, and therefore not previously published. | 2016-Dec-06 |
| ISRS-97 | Concept Model violations found in International Alpha release - Issue 5 | ADHA ran the alpha package through their validation routines. Technically, it passed – from a content perspective there looks like a number of concept model violations..<br><br>I've got almost 700 observable entity concepts failing the tests below… but…<br><br>· observable entity(363787002) only approved defining attributes used<br>· COMPONENT(246093002) - only modelled with valid source concepts<br>· SCALE TYPE(370132008) - only modelled with valid source concepts<br>· TIME ASPECT(370134009) - only modelled with valid source concepts<br>· USING DEVICE(424226004) - only modelled with valid source concepts<br>· All concepts within hierarchies without information models are primitive\|900000000000074008\| or are concepts with less than 2 \|Is a\| relationships<br>· Only concepts within hierarchies with information models are defined\|900000000000073002\| or are concepts with 2 or more \|Is a\| relationships<br>It's likely the concept model here has been updated, and our tests need updating… However, I've just checked the most editorial guide and it still lists Observable entity in Table 5 as a "Top-Level Hierarchies That Have No Defining Attributes".<br><br>RESOLVED: This was traced back to a change that was made to the Concept model for Observables, that was implemented in September 2016. The editorial guide was updated accordingly, but has not been published since the update was made, and so ADHA did not have visibility of the updates. IHTSDO therefore provided them with the information on the new Concept model, and they will update their validation rules accordingly. This is therefore a non-issue and no action is required. | 2016-Dec-21 |

| ISRS-98 | RF1 conversion process issue | UKTC reported the following issue with the RF1 conversion tool as part of the Alpha feedback process: | 2016-Nov-30 |

Greetings. The UKTC are having issues with the RF2 to RF1 conversion routine again sadly. Got the new RF2 release down and modified the go.bat script for the new file names (including pointing at the previous RF1 conversion for the '-p' flag) but I'm getting a failure message before a Java exception is thrown (see red line below):

E>go.bat
How much memory do you have available? [10g]: 2g
Do you have a 2nd drive? (eg E:) Y/N: N
Where is the RF2 Archive? [E:
\Release\ReleaseBuild\RF2toRF1\xSnomedCT_InternationalRF2_Production_201
70131T120000.zip]:

E>java -jar -Xms2g -Xmx2g RF2toRF1Converter.jar E:
\Release\ReleaseBuild\RF2toRF1\xSnomedCT_InternationalRF2_Production_201
70131T120000.zip -p "E:
\Release\ReleaseBuild\RF2toRF1\SnomedCT_RF1Release_INT_20160731_UKT
C.zip"
Initialising Database
Creating database schema
10.61% complete.
Extracting RF2 International Edition Data...
14.22% complete.
Process failed in 1.016 min after completing 63/443 operations.

Cleaning up resources...
14.67% complete.Exception in thread "main" java.lang.NullPointerException
at java.io.Reader.<init>(Unknown Source)
at java.io.InputStreamReader.<init>(Unknown Source)
at org.ihtsdo.snomed.rf2torf1conversion.ConversionManager.
loadLateralityIndicators(ConversionManager.java:641)
at org.ihtsdo.snomed.rf2torf1conversion.ConversionManager.
doRf2toRf1Conversion(ConversionManager.java:205)
at org.ihtsdo.snomed.rf2torf1conversion.ConversionManager.main
(ConversionManager.java:186)

This looks like a problem extracting the contents of the RF2 alpha release archive, so either operation 63 or 64 is at fault here. Also tried running without the '-p' flag and still get the same error messages. I'm ignoring the null pointer exception for now as the routine never got as far as asking for the location of the laterality file.

RESOLUTION: Latest code needed to be used - once this was downloaded and implemented, the issue was resolved

| | | | |
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| ISRS-99 | New RVF failure after Alpha fixes applied - 12 born inactive relationships | The following new RVF failure appeared after applying the Alpha feedback fixes that the Content Team implemented:<br><br>testCategory: "release-type-validation",<br>assertionUuid: "89ceaf00-79b9-11e1-b0c4-0800200c9a66",<br>assertionText: "All stated relationships inactivated in current release must have been active in the previous release.",<br>queryInMilliSeconds: 4513,<br>failureCount: 12,<br>firstNInstances:<br>[<br><br>{ conceptId: 293291000119108, detail: "Stated relationship: id=6620438022 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 5251000119108, detail: "Stated relationship: id=6632688023 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 722541007, detail: "Stated relationship: id=6782796024 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 722925004, detail: "Stated relationship: id=6788810029 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 722926003, detail: "Stated relationship: id=6788816024 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 722945007, detail: "Stated relationship: id=6788881024 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 723017008, detail: "Stated relationship: id=6789097021 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 723067001, detail: "Stated relationship: id=6794014029 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 723067001, detail: "Stated relationship: id=6794015028 is inactive in the current release but no active state found in the previous snapshot." }<br><br>,<br><br>{ conceptId: 723067001, detail: "Stated relationship: id=6794016027 is inactive in the current release but no active state found in the previous snapshot." }<br><br>],<br>extractResultInMillis: 1<br><br>RESOLUTION: 12 Relationships deleted completely, as they were new to the 20170131 Release cycle, and therefore not previously published. | 2016-Dec-06 |

| ISRS-100 | New RVF failure after Alpha fixes applied - 1 born inactive concept | The following RVF failure was newly added after the Alpha fixes that the Content Team implemented:<br><br>testCategory: "release-type-validation",<br>assertionUuid: "5f1a51a3-6200-4463-8799-d75998165278",<br>assertionText: "New inactive states follow active states in the CONCEPT snapshot.",<br>queryInMilliSeconds: 91168,<br>failureCount: 1,<br>firstNInstances:<br>[<br><br>{ conceptId: 723067001, detail: "CONCEPT: id=723067001: is inactive but no active state found in the previous release." }<br><br>],<br>extractResultInMillis: 1<br><br>RESOLUTION: Concept 723067001 deleted completely, as it was new to the 20170131 Release cycle, and therefore not previously published. | 2016-Dec-06 |
| ISRS-101 | New defect after RVF improvements - 7 Active descriptions with Inactivation reasons | The following RVF failure is now reporting 7 Active Descriptions that have Inactivation reasons assigned to them:<br><br>assertionText: "Active descriptions do not have active inactivation indicators",<br>queryInMilliSeconds: 6970,<br>failureCount: 7,<br>firstNInstances: [<br><br>{ conceptId: 416097007, detail: "Active description 2546220016 has inactivation reason 900000000000482003" }<br><br>,<br><br>{ conceptId: 416097007, detail: "Active description 2548498010 has inactivation reason 900000000000483008" }<br><br>,<br><br>{ conceptId: 63160006, detail: "Active description 1232434012 has inactivation reason 900000000000485001" }<br><br>,<br><br>{ conceptId: 87776000, detail: "Active description 145528018 has inactivation reason 900000000000485001" }<br><br>,<br><br>{ conceptId: 331569003, detail: "Active description 1192521011 has inactivation reason 900000000000485001" }<br><br>,<br><br>{ conceptId: 373870008, detail: "Active description 1229290011 has inactivation reason 900000000000494007" }<br><br>,<br><br>{ conceptId: 193497004, detail: "Active description 2870945014 has inactivation reason 900000000000494007" }<br><br>Either the Descriptions need to be inactivated accordingly, or the reasons updated /removed as the Descriptions should remain Active.<br><br>RESOLUTION: 6 Inactivation reasons were inactivated (as they were previously published), and 1 was deleted (as it was new to this release cycle). | 2016-Dec-06 |

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| ISRS-103 | RVF Assertion failure: eff30fb0-7856-11e1-b0c4-0800200c9a66 | testCategory: "release-type-validation",<br>assertionUuid: "eff30fb0-7856-11e1-b0c4-0800200c9a66",<br>assertionText: "All language refset members inactivated in current snapshot must have been active in the previous release.",<br>queryInMilliSeconds: 67734,<br>failureCount: 8,<br>firstNInstances: [<br><br>{ conceptId: 399933017, detail: "Language Refset: id=84f34586-23eb-5291-816f-75bbcd42b844 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 381073013, detail: "Language Refset: id=8d7b81e6-835e-5f46-a171-6454938b39f8 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 307312012, detail: "Language Refset: id=91da23e4-2b1f-5979-aaad-b77dd2bbb76a should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 242919015, detail: "Language Refset: id=94013256-b116-5ad6-9b38-0e229227c422 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 310405012, detail: "Language Refset: id=a56ef1b5-d399-588d-b0ae-3f4fdaf55b0e should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 426584018, detail: "Language Refset: id=0c231168-4187-5a7f-95ea-4d5a726f1b98 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 439646010, detail: "Language Refset: id=42dddfab-30ad-5c9a-b8b3-e68e2fe140d0 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ conceptId: 138360013, detail: "Language Refset: id=6807a544-1002-5ba9-956b-3a596a28cd63 should not have a new inactive state as it was inactive previously." }<br><br>],<br>extractResultInMillis: 0<br><br>RESOLUTION: This is just a warning and not an error and so no action is required. | 2016-Dec-06 |

| ISRS-104 | RVF Assertion failure: 0cc708af-6816-4370-91be-dba8da99d227 | testCategory: "release-type-validation", 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.", queryInMilliSeconds: 337, failureCount: 5, firstNInstances: [ | 2016-Dec-06 |

{ conceptId: 253903007, detail: "Description: id=378012010 is in the detla file, but no actual changes made since the previous release." }

,

{ conceptId: 18620009, detail: "Description: id=1222144014 is in the detla file, but no actual changes made since the previous release." }

,

{ conceptId: 444668001, detail: "Description: id=2871143011 is in the detla file, but no actual changes made since the previous release." }

,

{ conceptId: 449692007, detail: "Description: id=2912776019 is in the detla file, but no actual changes made since the previous release." }

,

{ conceptId: 449691000, detail: "Description: id=2913210014 is in the detla file, but no actual changes made since the previous release." }

],
extractResultInMillis: 1

RESOLUTION: This is just a warning and not an error and so no action is required.

testCategory: "release-type-validation",
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.",

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| ISRS-106 | RVF Assertion failure: cc9c5340-84f0-11e1-b0c4-0800200c9a66 | testCategory: "component-centric-validation,INT",<br>assertionUuid: "cc9c5340-84f0-11e1-b0c4-0800200c9a66",<br>assertionText: "Calling procedure testing that terms that contain EN-GB language-specific words are in the same GB language refset.",<br>queryInMilliSeconds: 22741,<br>failureCount: 43,<br>firstNInstances: [ | 2016-Dec-06 |

{ conceptId: 720203009, detail: "DESCRIPTION: id=3319755019: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: computerized" }

,

{ conceptId: 722360004, detail: "DESCRIPTION: id=3331690010: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: connection" }

,

{ conceptId: 722404009, detail: "DESCRIPTION: id=3331872011: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: disconnection" }

,

{ conceptId: 717752005, detail: "DESCRIPTION: id=3310170018: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

,

{ conceptId: 717753000, detail: "DESCRIPTION: id=3310172014: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

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{ conceptId: 717754006, detail: "DESCRIPTION: id=3310174010: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

,

{ conceptId: 717755007, detail: "DESCRIPTION: id=3310176012: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

,

{ conceptId: 717801000, detail: "DESCRIPTION: id=3310290016: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

,

{ conceptId: 718719001, detail: "DESCRIPTION: id=3313324016: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

,

{ conceptId: 10743881000119104, detail: "DESCRIPTION: id=3317327012: Synonym is prefered in the GB Language refset but refers to a word has en-us spelling: fetal" }

],
extractResultInMillis: 1

RESOLUTION: This is just a warning and not an error and so no action is required.

| ISRS-107 | RVF Assertion failure: c3249e80-84f0-11e1-b0c4-0800200c9a66 | | 2016-Dec-06 |
|---|---|---|---|

testCategory: "component-centric-validation",
assertionUuid: "c3249e80-84f0-11e1-b0c4-0800200c9a66",
assertionText: "Calling procedure testing that terms that contain EN-US language-specific words are in the same US language refset.",
queryInMilliSeconds: 23263,
failureCount: 35,
firstNInstances: [

{ conceptId: 717319002, detail: "DESCRIPTION: id=3313026013: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: behaviour" }

,

{ conceptId: 716591005, detail: "DESCRIPTION: id=3313028014: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: behaviour" }

,

{ conceptId: 716702006, detail: "DESCRIPTION: id=3313030011: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: behaviour" }

,

{ conceptId: 273774005, detail: "DESCRIPTION: id=3313035018: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: behaviour" }

,

{ conceptId: 718889002, detail: "DESCRIPTION: id=3314317011: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: disorganised" }

,

{ conceptId: 719026000, detail: "DESCRIPTION: id=3314718016: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: entamoeba" }

,

{ conceptId: 720730003, detail: "DESCRIPTION: id=3321898014: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: entamoeba" }

,

{ conceptId: 720731004, detail: "DESCRIPTION: id=3321903013: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: entamoeba" }

,

{ conceptId: 720732006, detail: "DESCRIPTION: id=3321905018: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: entamoeba" }

,

{ conceptId: 721032007, detail: "DESCRIPTION: id=3323200014: Synonym is prefered in US Language refset but refers to a word has en-gb spelling: entamoeba" }

],
extractResultInMillis: 1

RESOLUTION: This is just a warning and not an error and so no action is required.

| ISRS-108 | RVF Assertion failure: b88b9f46-4c33-4d8e-b9ab-ddb87aef3068 | testCategory: "release-type-validation",<br>assertionUuid: "b88b9f46-4c33-4d8e-b9ab-ddb87aef3068",<br>assertionText: "New inactive states follow active states in the ASSOCIATION REFSET snapshot file.",<br>queryInMilliSeconds: 6681,<br>failureCount: 1,<br>firstNInstances: [<br><br>{ conceptId: 190741002, detail: "ASSOC RS: id=d150e8f0-6cff-5dca-b7ee-e8e65693e306 should not have a new inactive state as it was inactive previously."<br>}<br><br>],<br>extractResultInMillis: 1<br><br>RESOLUTION: This is just a warning and not an error and so no action is required. | 2016-Dec-06 |
|---|---|---|---|
| ISRS-109 | RVF Assertion failure: a0a0b444-b1c7-4d31-ac45-c44f2e35c5a5 | testCategory: "release-type-validation",<br>assertionUuid: "a0a0b444-b1c7-4d31-ac45-c44f2e35c5a5",<br>assertionText: "There must be actual changes made to previously published language refset components in order for them to appear in the current delta.",<br>queryInMilliSeconds: 362210,<br>failureCount: 8,<br>firstNInstances: [<br><br>{ conceptId: 399933017, detail: "Language refset id=84f34586-23eb-5291-816f-75bbcd42b844 is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 381073013, detail: "Language refset id=8d7b81e6-835e-5f46-a171-6454938b39f8 is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 307312012, detail: "Language refset id=91da23e4-2b1f-5979-aaad-b77dd2bbb76a is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 242919015, detail: "Language refset id=94013256-b116-5ad6-9b38-0e229227c422 is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 310405012, detail: "Language refset id=a56ef1b5-d399-588d-b0ae-3f4fdaf55b0e is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 426584018, detail: "Language refset id=0c231168-4187-5a7f-95ea-4d5a726f1b98 is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 439646010, detail: "Language refset id=42dddfab-30ad-5c9a-b8b3-e68e2fe140d0 is in the detla file, but no actual changes made since the previous release." }<br><br>,<br><br>{ conceptId: 138360013, detail: "Language refset id=6807a544-1002-5ba9-956b-3a596a28cd63 is in the detla file, but no actual changes made since the previous release." }<br><br>],<br>extractResultInMillis: 12<br><br>RESOLUTION: This is just a warning and not an error and so no action is required. | 2016-Dec-06 |

| ISRS-110 | RVF Assertion failure: 6dbaed71-f031-4290-b74f-f35561c2e283 | testCategory: "release-type-validation", assertionUuid: "6dbaed71-f031-4290-b74f-f35561c2e283", assertionText: "The ids should be unique across the stated and inferred relationship snapshot files.", queryInMilliSeconds: 10981, failureCount: 3, firstNInstances: [ { conceptId: 425630003, detail: "Relationship: id=3187444026 is duplicated in the stated and inferred relationships" } , { conceptId: 425630003, detail: "Relationship: id=3192499027 is duplicated in the stated and inferred relationships" } , { conceptId: 425630003, detail: "Relationship: id=3574321020 is duplicated in the stated and inferred relationships" } ], extractResultInMillis: 1 <br><br>RESOLUTION: These are known historical records that have been carried through from previous Releases, and have been previously agreed not to be fixed - therefore this is just a warning and not an error and so no action is required. | 2016-Dec-06 |
|---|---|---|---|
| ISRS-111 | Additional RefsetDescriptor record to be added | The new refset being added to the January 2017 International Edition (723264001 - Lateralizable body structure reference set (foundation metadata concept)) needs a new record added to the International edition refsetDescriptor files. <br><br>RESOLUTION: The following refsetDescriptor record has been added accordingly: <br><br>bbdcc9fc-5bc6-415a-a5ee-c5adfc569bd5 20170131 1 900000000000207008 900000000000456007 723264001 449608002 900000000000461009 0 | 2016-Dec-19 |
| ISRS-112 | RefsetDescriptor record requested to be inactivated | The UKTC have requested that IHTSDO inactivate the refsetDescriptor record for the "Non-human simple reference set (foundation metadata concept)" refset (447564002). This is because the refset itself has been inactivated, and so they have requested that the associated rows in reference set descriptor reference set should also be inactive. <br><br>RESOLUTION: Although the refset is inactive the structure of the refset is not, and so it is the correct state for the refsetDescriptor record to remain active. No action is therefore required. | 2016-Dec-19 |
| ISRS-113 | Active concept has no IS_A supertype within its module | Six concepts are in the 'SNOMED CT model component module (core metadata concept)' module but the relationships in question here are in the 'SNOMED CT core module (core metadata concept)' module. The associated descriptions are all in the same module as the concept entries. <br><br>718291003 <br>718292005 <br>718497002 <br>715502004 <br>715515008 <br>900000000000441003 <br><br>RESOLUTION: 5 Inferred relationships have been inactivated, and 5 new ones activated with the correct module ID, in order to align the Concept moduleID with the related Relationship moduleID's. <br><br>The final concept (900000000000441003) is the Model Component concept, and therefore has its Relationship in the Core module and not the Model Component module for a valid reason, as follows: <br><br>• The 2 root modules (Core and Model Component) were setup in the first place so that the Core was dependent on the Model Component module <br>• This meant that you could distribute the Model Component module standalone, but not the Core module <br>• Therefore all of the components of this Concept reside correctly in the Model Component module <br>• However, the Relationship cannot reside inside the Model Component module, as if this module is then distributed standalone the relationship would be a broken one, as the concept it relates to would be inside the Core module and not part of the Model Component module <br><br>The only action taken for this concept, therefore, was to update the comments in the code to ensure that this valid state is retained going forward. | 2016-Dec-21 |

| | | | |
|---|---|---|---|
| ISRS-114 | Concept that is currently Fully defined, needs to be primitive. | 5251000119108 \|Acquired arteriovenous malformation (disorder)\| incorrectly uses 255396000 \|Acquired (qualifier value)\| as the value of \|Occurrence\|<br><br>IHTSDO removed attribute value pair of Occurrence - Acquired.<br><br>Concept therefore needs to be changed to primitive.<br><br>The related concept, 402847002 \|Acquired arteriovenous malformation of the skin (disorder)\| was also identified to have an invalid attribute.<br><br>RESOLUTION: Both concepts have been remodelled accordingly. | 2016-Dec-19 |
| ISRS-115 | 3 inactivated concepts erroneously moved to the Core module | Three retired metadata concepts were erroneously moved into the Core module:<br><br>CONCEPTID CONCEPTSTATUS FULLYSPECIFIEDNAME<br>447564002 1 Non-human simple reference set (foundation metadata concept)<br>449609005 1 ICD-10 map category reference set (foundation metadata concept)<br>700043003 5 Example problem list concepts reference set (foundation metadata concept)<br><br>These metadata concepts were transferred into the core module when they became inactive, so the RF1 conversion tool thinks they're relevant. The RF1 conversion filters out concepts with a metadata semantic tag, but only if they're also in the model module.<br><br>RESOLUTION: ModuleID for all three concepts assigned to the Model Component module (900000000000012004). | 2016-Dec-19 |
| ISRS-116 | RF1 issue - root cause in RF2 content | Duplicate rows found in the component history table for a description entry:<br><br>2546220016 20170131 1 2 DESCRIPTIONSTATUS CHANGE<br>2546220016 20170131 1 8 DESCRIPTIONSTATUS CHANGE<br><br>This relates to a concept that there were problems with last release, 416097007 'Pubic bone somatic dysfunction (finding)'. The descriptions attached to this inactive concept are status 2 and 3 after conversion respectively, where we would expect both to be status 8. It appears as though one of the descriptions has attempted a partial fix as one of the duplicate entries shows a description going to status 8. Everything regarding this concept in RF2 looks fine on quick inspection.<br><br>RESOLUTION: Already fixed in the Beta release (ISRS-49) - re-raised by UKTC because they're still testing the Alpha release. | 2016-Dec-19 |

| ISRS-117 | Active "WAS A" historical associations that have not been updated when the target concepts are inactivated | There are 21 Historical Associations that are active, but which have been found to have inactive concepts for their targetComponentID: | 2016-Dec-21 |

id effectivetime active moduleid refsetid referencedcomponentid targetcomponentid
817ddce9-894d-54b3-84ee-4a94cee2acb5 20100131 1 900000000000207008 900000000000528000 193369009 399625000
946f56dc-684d-5cad-99c7-6f3f5e202a73 20100131 1 900000000000207008 900000000000528000 204273002 204270004
a7d5339d-d51d-5a1f-865c-0bce6af6da90 20100131 1 900000000000207008 900000000000528000 138107003 81877007
acfbb45c-a1b1-5b08-b8a9-1e6e0f0a2ca0 20100131 1 900000000000207008 900000000000528000 137020000 265987007
ad545d56-19c0-5a57-bed4-d0a946d24d79 20100131 1 900000000000207008 900000000000528000 193371009 399625000
b463afa5-7d24-5281-b6a8-ec21b4b0bf9b 20100131 1 900000000000207008 900000000000528000 149532003 274033006
d59ef95e-e87e-5411-bff7-f35c7c4d72ad 20100131 1 900000000000207008 900000000000528000 266937006 81877007
f356bb7a-0fda-5ccc-ba8b-4453fae7f824 20100131 1 900000000000207008 900000000000528000 159721006 265987007
f53222ee-9de3-553a-b192-a85b744a5bac 20100131 1 900000000000207008 900000000000528000 193366002 399625000
01c6981e-075b-511f-b1a3-2a332bdbcaa8 20100131 1 900000000000207008 900000000000528000 287840006 274033006
08e4cfd5-01ba-5ea9-a05c-4aa5ffd8450b 20100131 1 900000000000207008 900000000000528000 186296003 398599000
31c7aadc-1628-5597-8d9a-d7bead9a9661 20100131 1 900000000000207008 900000000000528000 154851005 88339003
3afd517b-1eda-5904-9866-9530e19f3af8 20100131 1 900000000000207008 900000000000528000 136834007 159564001
4f8b9c16-070a-5f49-b9fe-fe9c9c8fe98c 20100131 1 900000000000207008 900000000000528000 267609006 399625000
53202a69-5329-5c06-8242-db94c348892e 20100131 1 900000000000207008 900000000000528000 139355001 267052005
55b96987-32b8-5db6-96bf-d2b282179841 20100131 1 900000000000207008 900000000000528000 162079002 267052005
641f1731-de51-558e-b27b-f135674fa28f 20100131 1 900000000000207008 900000000000528000 193355009 399625000
6b3085fd-51d1-5fd6-a23e-19300773fb02 20100131 1 900000000000207008 900000000000528000 193368001 399625000
75b0053f-210f-5c35-a8ed-53ef0ea33f90 20100131 1 900000000000207008 900000000000528000 159566004 159564001
7b85085f-496b-5163-93d3-f7679cba2d78 20100131 1 900000000000207008 900000000000528000 286932008 88339003
7e9381b9-b964-5517-b419-041eb0339b5e 20100131 1 900000000000207008 900000000000528000 193372002 399625000

RESOLUTION: It was discovered that 2 of the above source concepts actually had 2 concepts referenced, and so 23 associationReference records were updated in order to replace the inactive targetComponentID's with the relevant active concepts. In addition to this, the system then automatically inactivated 12 additional associationReference records, where the source concept was also associated to "Limited components" ([900000000000486000|limited]):

95d6b955-adb9-59fc-a011-93ee592153b1 20170131 0 900000000000207008 900000000000527005 149532003 287840006
f26e9e9e-230a-59a8-8833-c91f916a9ca2 20170131 0 900000000000207008 900000000000527005 287840006 149532003
de91b7cb-7e7b-5ce1-8f68-6664f702d7cb 20170131 0 900000000000207008 900000000000527005 137020000 159721006
39c3ce30-764f-54c3-8fd6-c835100e3883 20170131 0 900000000000207008 900000000000527005 159721006 137020000
d4e899ca-28a1-5aff-8f21-1dac26145649 20170131 0 900000000000207008 900000000000527005 138107003 266937006
faa7f07c-1bb3-5c7a-a90b-4e6b1ad76754 20170131 0 900000000000207008 900000000000527005 139355001 162079002
d9e24c55-5379-5b82-afe8-e8acf8b8d8a8 20170131 0 900000000000207008 900000000000527005 162079002 139355001
01d104e1-cf86-5d04-a42b-a162de76da8b 20170131 0 900000000000207008 900000000000527005 154851005 286932008
e416f825-01e5-59ec-be00-8ec638c0e541 20170131 0 900000000000207008 900000000000527005 136834007 159566004
e28804d0-042d-59c1-940b-7b6b1be69415 20170131 0 900000000000207008 900000000000527005 286932008 154851005
51ccb59d-2090-5611-b2a9-896edde0e029 20170131 0 900000000000207008 900000000000527005 159566004 136834007
39763acf-0f7d-50b5-872d-94741fcd69bb 20170131 0 900000000000207008 900000000000527005 266937006 138107003

| ISRS-118 | Role Group numbers updated | The fixes made to 2 concepts during the Alpha/Beta feedback periods (as part of ~~ISRS 114~~), have resulted in the usual changes to Role Group numbers. These are a well-known artefact of the classier write-back, and do not change the Role Group themselves, they just result in churn in the Role Group numbers. As this field is mutable, and has no semantic value whatsoever, these updates have no impact other than to update the Relationship ID's and the number used to define each Role Group, and are therefore acceptable changes.<br><br>RESOLUTION: No action is therefore required. | 2016-Dec-21 |
|---|---|---|---|
| ISRS-119 | RVF Assertion failure: 5f1a51a3-6200-4463-8799-d75998165278 | The following RVF failure was newly added after the Beta fixes that the Content Team implemented:<br>"assertionUuid": "5f1a51a3-6200-4463-8799-d75998165278",<br>"assertionText": "New inactive states follow active states in the CONCEPT snapshot.",<br>"queryInMilliSeconds": 58954,<br>"failureCount": 3,<br>"firstNInstances": [<br><br>{ "conceptId": 447564002, "detail": "CONCEPT: id=447564002 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ "conceptId": 449609005, "detail": "CONCEPT: id=449609005 should not have a new inactive state as it was inactive previously." }<br><br>,<br><br>{ "conceptId": 700043003, "detail": "CONCEPT: id=700043003 should not have a new inactive state as it was inactive previously." }<br><br>],<br>"extractResultInMillis": 13164<br><br>RESOLUTION: This is just a warning as a result of the moduleID's being changed for 3 inactive concepts as part of the Beta feedback fixes in ~~ISRS 115~~ - therefore this is a non issue and no action is required. | 2016-Dec-22 |

28 issues

## 3.3 Technical updates

### 3.3.1  RF1 package

In line with the RF1 deprecation plan approved by the General Assembly in October 2015, SNOMED International has now removed the RF1 files from the International Edition release package.

There is a new open sourced program available from SNOMED International (under an Apache v2 open source license) that allows for an algorithmic derivation of RF1 files from the authoritative RF2 distribution.  This is available from Github here: https://github.com/IHTSDO/rf2-to-rf1-conversion

### 3.3.2  RF2 package naming convention

The naming convention of the RF2 package zip file has been improved, in order to reflect the version of the release package, within the existing Product name/Release Date version standard, as follows:

*SnomedCT_[Product][Format(optional)]_[Release Status]_[Release date/time]*

This format includes all of the additional information required to quickly and uniquely identify the correct package to use at any one time, without adversely impacting any of the related policies (such as the Snomed CT URI standard, etc).

Therefore, at any one time, the latest version of any product package can be identified by the fact that it has a Release Status equal to "Production", and a Release date and time later than all others of the same Product and Release Status.

The name of the January 2017 International edition package file is therefore:

*SnomedCT_InternationalRF2_Production_20170131T120000.zip*

### 3.3.3  Release Notes location

The Release Notes file has been removed from the zip file containing the main release package, and is now available as a separate file to be downloaded from the same MLDS version as the International Release package.  This is available from the "January 2017 v1.0" version in the "SNOMED CT International Edition" project, which can be found on the "IHTSDO Releases" page in MLDS, accessed here:

https://mlds.ihtsdotools.org/#/ihtsdoReleases

### 3.3.4  Resource File location

The Stated Relationship to OWL resource file has been removed from the zip file containing the main release package, and is now available as a separate file to be downloaded from the same MLDS version as the International Release package.  This is available from the "January 2017 v1. 0" version in the "SNOMED CT International Edition" project, which can be found on the "IHTSDO Releases" page in MLDS, accessed here:

https://mlds.ihtsdotools.org/#/ihtsdoReleases

### 3.3.5  New refset added to the RF2 package

This refset is a "Lateralizable body structure reference set" (SCTID: 723264001), and has the following attributes:

- It is a Simple Refset
- It can be used as a normal RF2 refset
- It only shows concepts which have not yet been lateralised in SNOMED CT but which could be in future, and is not a complete set of Laterality concepts
- It will also be used by the RF1 conversion package in order to use the laterality content in the conversion to RF1

- It has been added to the existing Simple Refset file in the International edition package (der2_Refset_SimpleSnapshot_INT_20170131. txt)

## 3.3.6  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.

## 3.3.7  Early visibility of impending change in the July 2017 International edition

In 2009 the General Assembly decided that from April 26 2017 SNOMED International would no longer license the use of SNOMED antecedent works. See http://www.ihtsdo.org/snomed-ct/what-is-snomed-ct/previous-versions-of-snomed-ct.

In line with this decision, SNOMED International will stop publishing SNOMED RT codes for new SNOMED CT concepts after the January 2017 release. As of the July 2017 release, SNOMED International will also remove the SNOMED RT reference set (900000000000498005 |SNOMED RT identifier simple map (foundation metadata concept)|) from the Simple Reference set file in the International Edition.

SNOMED International again strongly urges users of these antecedent versions to migrate to SNOMED CT as soon as possible.  If anyone wishes to use the RT refset purely for migration purposes, SNOMED International will therefore host a static, non-maintained version (based on the January 2017 content) in a package to be hosted here in MLDS: https://mlds.ihtsdotools.org/#/viewReleases/viewRelease/5376

**Approvals**

| Final Version | Date | Approver | Comments |
|---|---|---|---|
| 1.00 | 20161201 | Lesley MacNeil | Approved |
| 1.00 | 20161206 | Rory Davidson | Approved |

**Draft Amendment History**

| Version | Date | Editor | Comments |
|---|---|---|---|
| 0.1 | 2016 11 10 | Monica Harry | First draft for review and comment |
| 0.2 | 2016 11 18 | Andrew Atkinson | Updates to the content + technical notes |
| 0.3 | 2016 12 06 | Andrew Atkinson | Updates after Rory's review |
| 1.0 | 2016 12 30 | Andrew Atkinson | Final updates to Known Issues and Resolved Issues sections |

**Download .pdf here:** doc_SnomedCTReleaseNotes_Current_en-US_INT_20170131.pdf