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BSI Standards Publication

Health informatics — Development of terms and definitions for health informatics glossaries

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National foreword

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**Health informatics — Development
of terms and definitions for health
informatics glossaries**

*Informatique de santé — Développement des termes et définitions
pour les glossaires d'informatique de santé*





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 215, *Health informatics*.

Introduction

General Introduction

Health Informatics is serviced by multiple Standards Development Organizations, each with their own need for consistent definitions of the terms they use. The evolution of glossaries across these organizations has resulted in standards products where, increasingly, terms are defined and/or used in different ways. This situation leads to a lack of clarity in the use and meaning of health informatics around the world.

There are many national and international efforts to write and use clear standards to support the development of electronic health care initiatives. There are many standards and terms defined, however, finding the relevant standard, recording suggested improvements, and encouraging the use of standard terms is an ongoing issue to all involved in the development of these documents and in their use. This Technical Specification provides details of the metadata and requirements for inclusion and construction of quality terms and definitions in health informatics glossaries. In the context of the recognised requirement for a single international health informatics glossary, the following are the purposes of this Technical Specification:

- to collate relevant standards and guidance for the development of quality terms and definitions;
- to provide procedural standards for the introduction and management of terms in health informatics standards products in order to rationalize the use of these terms;
- to reduce the effort required for standards development to create and decide upon terms and definitions used in the documents produced by health informatics standards organizations;
- to support the development of international e-health initiatives through a consistent approach to development and use of terms and definitions.

Quality definitions and term specification includes the following:

- consistent structure of terms, synonyms, and acronyms to support lookup;
- representation of definitions in a manner which is clear and fulfills the purpose of a definition;
- consistent provision and structure of metadata to explain further, provide examples and links to standards documents and standards processes to support maintenance of terms and definitions in an ongoing improvement environment.

The shared online tool of the Joint Initiative Council of Health Informatics Standards Development Organization's (JIC) which uses these metadata is the Standards Knowledge Management Tool Glossary (www.skmtglossary.org). The Standards Knowledge Management Tool (SKMT) is an Internet-based tool designed to assist in finding and managing standards documents, products, terms, and definitions. Each term and associated definition can be linked back to the document/s within which it is used (even if that link is simply to an organizations glossary). This Technical Specification provides metadata which supports the SKMT or any other similar functional need in the body of the document, while details of emerging procedures of the SKMT Governance Committee of the JIC are in [Annex A](#), [Annex B](#), and [Annex C](#).

Business Need

When a new standard is developed, the terms used in that standard are defined and explained. Over time, there have been an increasing number of terms used with a variety of definitions. There are single terms with multiple definitions and different terms with synonymous definitions. The rapid evolution of health informatics is demonstrated by the emergence of terms and increasing confusion over their meaning and use. There is a need to clearly define the terms and where these terms are used in a specific context. When there is a specific context to identify how that context represents a meaning which is different to the more general use of the term. This Technical Specification describes a consistent approach to term usage and structure and defines the mechanism for ongoing management.

The availability of a readily accessible tool to identify accepted definitions will make standards development an easier process and provide a resource to the health informatics community that will assist communication and understanding of the complex issues of health informatics. Such a tool will equally assist the ongoing management of the glossary and the standards in which the terms are used.

This Technical Specification

- provides a standardized metadata construct for the representation of glossary information for health informatics,
- provides procedural standards for the introduction and management of terms in health informatics standards publications in order to rationalize the use of these terms,
- supports a consistent approach to the use of terms and definitions in health informatics standards,
- reduces the effort required in standards development by providing a document available to all who develop terms and definitions for health informatics projects, and
- supports the development of international e-health initiatives through a consistent approach to development and use of terms and definitions.

This work stems from the following three needs:

- a) to improve communication and understanding within the international health informatics community, within and outside the standards environment. Consistent and clear use of terms and understanding of the definitions of these terms can significantly enhance the ability for health informatics programs around the world to deliver their required outcomes. Open availability of this information in a quick and simple manner can reduce confusion and encourage both the use of standards and the appropriate use of language within the community, thereby increasing re-usability and information sharing;
- b) to improve and simplify the standards development process by giving access to existing definitions, thereby encouraging harmonization (or the movement towards a single definition or the clear statement of the context within which a specific alternative definition applies). There is also a need to be able to identify the terms in a given document and to update them to agreed definitions over time;
- c) to enhance the standing of the standards community by providing clear guidance on terms to be used. This represents leadership of the community through provision of a public good, as well as a tool to assist their own operations.

Health informatics — Development of terms and definitions for health informatics glossaries

1 Scope

This Technical Specification provides details of the metadata and requirements for quality terms and definitions in health informatics for inclusion in health informatics glossaries.

This Technical Specification does not cover specification of terminological content in systems, such as that represented in terminological resources, such as SNOMED, CT, or, ICD. It is limited to terms and definitions included in standards documents.

This Technical Specification is applicable to the following groups:

- Health informatics standards developers and standards development organizations.

Standards developers and organizations are direct beneficiaries of this work as standardized representation of terms and definitions readily available through the SKMT can make standards development faster and more consistent. The metadata also support maintenance functions for review and update of standards publications.

- Developers, implementers, and managers of health information systems, clinical information systems, and clinical decision support systems.

This audience is a beneficiary of this work through more consistent terminology in standards documents, making them clearer and easier to implement.

- All users of health information systems clinical data, such as health statisticians, researchers, public health agencies, health insurance providers, health risk organizations, data analysts, and data managers.

2 Normative References

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 704:2009, *Terminology work — Principles and methods*

ISO/IEC 2382-1:1993, *Information technology — Vocabulary — Part 1: Fundamental terms*

3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

NOTE Where there are terms used in this Technical Specification that are not defined in this section, they are considered to be generic to the English language and not specific to this Technical Specification. Additional definitions and terms can be found at the international health informatics Standards Knowledge Management Tool and Glossary website www.skmtglossary.org.

3.1 abbreviation

designation formed by omitting words or letters from a longer form and designating the same concept

[SOURCE: ISO 1087-1:2000]

EXAMPLE HL7 is an abbreviation of Health Level Seven.

Note 1 to entry: An abbreviation does not define the meaning of the word it replaces; it functions as a specific type of synonym.

3.2 acronym

abbreviation made up of the initial letters of the components of the full form of the designation or from syllables of the full form and pronounced syllabically

[SOURCE: ISO 1087-1:2000]

EXAMPLE UNICEF - United Nations Children's Fund

3.3 concept

unit of knowledge created by a unique combination of characteristics

[SOURCE: ISO 1087-1:2000]

Note 1 to entry: A concept can be represented using one or more terms, pictures, icons, or sounds.

Note 2 to entry: Informally, the term "concept" is often used when what is meant is "concept representation". However, this leads to confusion when precise meanings are required. Concepts arise out of human individual and social conceptualizations of the world around them. Concept representations are artefacts constructed of symbols. [SOURCE: ISO 17115].

Note 3 to entry: Concepts are not necessarily bound to particular languages. They are, however, influenced by the social or cultural background which often leads to different categorizations. [SOURCE: ISO 1087-1:2000]

Note 4 to entry: For the purposes of health informatics glossaries, a term (in a given language and context) is considered to represent a concept uniquely and therefore, term and concept are synonymous in their intent. These words are not synonyms in a terminological resource context.

3.4 context

text which defines the use case, situation, or environment of a specific definition for a term

EXAMPLE Noun, verb, country (e.g. UK), area of healthcare (e.g. Pharmacy), or organization (e.g. HL7).

Note 1 to entry: This definition differs from ISO 1087-1:2000 as there is a business need in the environment of standards development organizations sharing health informatics glossary content to make context explicit and to move towards having a single definition for a term in a specified context.

3.5 definition

representation of a concept by a descriptive statement which services to differentiate it from related concepts

[SOURCE: ISO 1087-1:2000]

3.6 designation

representation of a concept by a sign which denotes it

[SOURCE: ISO 1087-1:2000]

3.7

synonym

one or more words of the same language that have the same meaning in some or all senses

Note 1 to entry: A synonym replaces a word in a sentence and is of similar size to that word. It does not necessarily explain the meaning intended. A synonym is not a shortened form of the original word, such as an abbreviation.

Note 2 to entry: Taken from Webster's Dictionary, modified.

3.8

synonymy

relation between or among terms in a given language representing the same concept

[SOURCE: ISO 1087-1:2000]

Note 1 to entry: Appendectomy and appendectomy.

Note 2 to entry: Terms which are interchangeable in all contexts are called synonyms; if they are interchangeable only in some contexts, they are called quasi-synonyms.

3.9

term entry

linguistic representation of a concept being defined in the glossary

Note 1 to entry: In this Technical Specification, the word "term" is used to indicate term entry.

Note 2 to entry: A term can contain symbols and have variants, e.g. different forms of spelling.

3.10

term and definition harmonization

activity leading to the establishment of a correspondence between two or more closely related or overlapping concepts

Note 1 to entry: The purpose of concept harmonization is to improve communication. Concept harmonization occurs where a term has professional, technical, scientific, social, economic, linguistic, cultural, or other differences, in order to eliminate or reduce minor differences between them. (See ISO 860:2007.)

3.11

term family

group of defined terms that are related in that each assists in the definition of other members of the group

EXAMPLE Health record, healthcare record, electronic health record. The health record could be considered the least specific, healthcare records relate not to health in any context, but to the care provided in relation to health and could be considered a synonym of medical record, while electronic health record implies a format or functionality of the health record. Once health record is defined, it is easier to define healthcare record and electronic health record, as it is not necessary to define the base from which the definition begins.

Note 1 to entry: Guidance is provided later in this Technical Specification on what terms are appropriate to a family. It is acknowledged that further testing of this process will be required through the implementation of this Technical Specification.

4 Principles, rules, and content

4.1 Overview

A term can occur many times, each time with different identifying characteristics/metadata. These characteristics include: the definition of the term (4.3), the description of context in which that definition applies (4.4), the original source of the definition (4.5), examples and comments on the use of the term (4.6).

To support harmonization, definitions in health informatics glossaries should be linked to the documents in which they occur (4.8). Metadata requirements to support glossary maintenance include categories for the status of the definition (4.9) and rationale for modifications made (4.12).

No organization or standard “owns” a term. Definitions are linked to documents which are owned, or created by standards development organizations. In the SKMT Glossary tool, organizations can determine their definitions and create their own glossary by searching by organization for terms linked to their documents. The processes of the SKMT Glossary are not defined here, as they are provided in detail in the User Guide.

The process for harmonization of terms/definitions in each individual standards development organization is different. Procedures are currently in trail and administered by the SKMT Governance Committee of the Joint Initiative Council of the Health Informatics Standards Development Organizations.

4.2 Term entry

The term is the word or group of words being defined in the glossary. An organizational health informatics glossary should include an entry for any term that would normally be included in terms and definitions or glossary section/s of a document or product. More extensive explanations of the principles and processes for development of quality definitions are provided in ISO 704:2009. A summary of these requirements is provided in this Technical Specification. ISO/IEC 2382-1:1993 provides guidance on abbreviations, definitions, and representation, and though this relates more specifically to terminologies in general, these principles apply through this Technical Specification. This Technical Specification supports but does not override the requirements specified in ISO 10241-1:2011 but it does encourage consistency, which will support database application of term/definition content which is not a primary objective of this Technical Specification.

A term/definition cannot be recorded without a term. A term entry is therefore a required element and should include any term that would normally be included in a terms and definitions or glossary section of a document or product.

A term is mandatory and should be

- a word or group of words,
- written in full,
- singular,
- in sentence case (leading capital then lower case throughout), and
- positive rather than negative, though negative concepts may be included if essential to clear meaning.

For example,

- Policy - not policies, and
- Electronic health record – not EHR.

Reference: ISO 11179-4

An entry of the name of an organization shall be written in full and the definition shall be a description of that organization, while the abbreviation or acronym of the organization should be listed as a synonym of the full name.

Terms can be defined in different languages. Where required, alternative forms of English can be indicated as specific languages (e.g. US English is not the same as English).

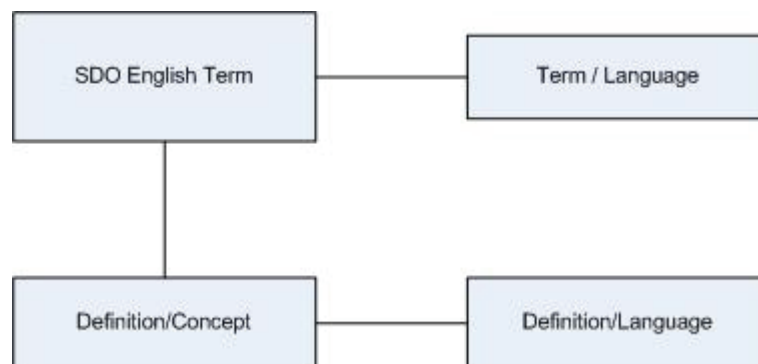


Figure 1 — The relationship between the “core term” and terms/definitions in other languages.

The term is the preferred term in the language being used. Synonyms, related terms, and abbreviates can also be included but are not the “core” term.

4.3 Term definition

Each term entry may have many definitions, but there should be just one definition for a term in any given context. The definition is a textual description of the meaning of the term. Images may be included to more clearly describe what is intended.

Where a term is to be defined, this shall be done in consideration of not only this term but other terms to which this term relates (other terms in the family of terms). For example, do not define electronic health record alone. To accurately define this concept, it is necessary to understand the “family” to which it belongs. The electronic health record family of terms could include health record, healthcare record, medical record, and personal health record. The “term family” should be defined as a group rather than individually, as the understanding and consistent definition of the whole significantly improves the understanding and utility of the individual members of the family.

The definition shall (extracted and summaries from ISO 704:2009)

- a) Establish difference between existing concepts.

For example, what is the difference between terminological system and code system or classification system? The logical difference is that a code system is not necessarily human readable, i.e. a code system does not have to contain terms, while a classification is a terminological system but has additional characteristics for specific purposes in healthcare. These additional differentiating elements should be included and clear in the definition.

- b) The definition shall define the concept, while the Usage Comment should give examples, and describe in more detail what is meant. Definitions shall not include long rambling examples or inclusions. Inclusion of examples and comments will make harmonization more difficult
- c) Not include the term or its synonym/s or abbreviations or other forms (noun instead of verb) in the definition
- d) Use dictionary style. Phrases such as “Word means” or “This describes a situation” in which definition development can begin with full sentences or explanations, but these additional words shall be edited out of your final definition.
- e) Use correct grammar. For example, write the definition to match the part of speech. If the term is a verb, the definition will probably begin with “to” while nouns are likely to begin with “a” or “the”.
- f) Use simple language. For example, “use” rather than “utilize”. Also consider where there is a highly complex definition used by a specialist area of the community, this should be given the context – Formal (as in formal definition), while the simple, plain language version of the definition should be the one used as the “core definition”, the one used across all contexts not declared.

- g) Be able to replace the term in context. Additional information shall be given only in the Usage Comments as examples or notes to the entry. For example,
- 1) The definition of terminology might be: structured human-readable and machine-readable representation of concepts and relationships,
 - 2) The definition of mapping might be: The process of associating concepts from one terminology to concepts in another terminology.
 - 3) Can the definition of terminology be used in the mapping definition and have meaning retained?

The process of associating concepts from one structured human-readable and machine-readable representation of concepts and relationships to concepts in another structured human-readable and machine-readable representation of concepts and relationships.

In this definition, the replacement of the word terminology works well and therefore, this definition of terminology meets the requirement of being able to appropriately replace the term in a sentence.

- h) Be a single phrase specifying the concept, and if possible, reflecting the position of the concept in the concept system.

4.4 Context description

This makes the situation or organization to which this definition of the term applies clear. This is also called specialization context. This is a free text field that is required to differentiate between multiple standard (category) definitions of a single term.

Context description should only be included if this definition of the term is for a specific purpose and not applicable throughout all areas of health informatics. Context should be described clearly and an example should be provided to ensure intelligibility to all readers, recognising that not all readers are technical or specialists in the area concerned.

Categories to represent context are needed. The data collection of glossary content is not yet broad enough to support such classification. It is the intention that a classification be developed using content from the term and definition harmonization process and the extending data captured in the SKMT.

In the SKMT tool, the word context means context description. Indication of context is optional.

4.5 Source

This is a reference to the original source of the definition, which might or might not be in an International Standard. This does not mean just the document in which the definition is used, as there might be many of these, but the original source of the definition where it is known. Source should be provided where ever possible, though previously published standards might not always indicate the original source and in this case, rather than indicate an incorrect source, it should be left alone. It should be noted that the use of a definition within a published standard shall always be indicated. As a minimum, this will link to the glossary of a given standards development organization.

For example, a term might have been defined and that term/definition is used in four different published standards of different standards development organizations.

Document A — the original document using this definition, i.e. where this definition was “created” or first published. This document might or might not be a standard.

Standard B — references Document A for the definition

Standard C — references Standard B for the definition. This is not correct. The reference should be to Document A but the nature of standards development and the lack of historic consistency in referencing can make this difficult. It is not suggested that effort should be made to correct past errors, rather that health informatics glossaries move forward using improved procedures.

Standard D — a new document - should reference Document A as the source of the definition.

There is a difference between the source of the definition and the document in which the definition is used.

In the example above, Standard B, Standard C, and Standard D all use the term/definition but none are the source of that definition.

The source should be represented using Harvard reference style or ISO style if the document is an ISO standard.

4.6 Usage comment

Description of how this term is used, including examples and notes. This is free text, can be blank, and can include comments from more than one standards development organization.

4.7 Image

This is an optional PDF format image which enhances or explains more fully the definition or examples of the term in use.

4.8 Document/s in which the term/definition is used

All terms and definitions should be related to at least one document. If an organization is not recording standards and products in the SKMT, a single document called “organization glossary” should be created to which all terms used in the glossaries of that organization can be referenced. This supports the creation of an extract glossary for that organization.

4.9 Category

Indicates the status of the definition. These status categories have been adopted from ISO 11179-4:2013.

P – Pending – current work occurring on the definition – it is not final. This status is established by the publishing or developing organization.

C – Candidate – definition appears in a published standard or product but has not yet been harmonized across all member organizations of the Joint Initiative Council. This status is established by the publishing organization. If they have published the product, they may put that definition forward as a candidate “standard” definition.

S – Standard – definition has been harmonized and confirmed as the agreed international standard definition in this context. Standard status is to be established by agreement of the members of the Joint Initiative Council – SKMT Governance Committee.

R – Retired – definition has been replaced by a confirmed/harmonized term or is no longer used. A retired status may be used by the following:

- the publishing organization (if they are the only organization using this definition in this context to indicate that they no longer actively use the definition;
- the SKMT Governance Committee where a term is retired as part of the term/definition harmonization process. The intention is the same, which is to indicate that this definition is no longer the communally agreed definition in this context.

Every term shall have a category. When entered into the system, users may only indicate that a definition is a candidate or a pending term. The glossary administrator is responsible for recording that a term is to be considered a standard or has been retired.

The term “category” has been used as different health informatics bodies use these terms differently and there was a desire to differentiate between the intent in a shared glossary in particular, and glossaries in general, rather than in standards documents.

4.10 Version

Number indicating the sequence of the version of the definition. The highest number is the most recent. This number is automatically generated by the SKMT glossary but can be optional in other systems used to collect and represent this data.

4.11 Version Date

The date upon which the version of the definition changed. This data is updated automatically in the SKMT glossary but can be optional in other systems used to collect and represent this data.

4.12 Rationale for change

Where the category, content, or structure of the definition and its associated metadata, including comments, are changed, the reason for the change must be documented. This supports improved understanding of the logic behind any change and reduces later circular arguments for change.

Annex A (informative)

Collaboration on glossary development processes and content

A.1 General principles

A.1.1 Open access: The shared health informatics glossary tool (SKMT) is designed to give easy access to the whole health informatics community and beyond, thus promoting standards awareness, ease of access, and raising the image of the standards community. Registration for reading is open to all.

The tool maintains metadata of

- products – usually documents, and
- terms used in documents/products.

A.1.2 Document publisher control of content: Access for and editing of content by designated members of each SDO, jurisdictions, or organizations who control their own material is determined by each SDO. Thus, a designated person of the publishing organization has control of all content relating to that organization.

Example of process used in ISO/CEN: In ISO 215 and CEN 251, terms are defined within standards documents, hence, it is essential that both the document and its assigned terms are entered into the tool. This supports harmonization of concepts in subject domains. In other cases, terms can also be separately defined by SDOs, jurisdictions, or organizations. In this case, they are usually associated to a single glossary document controlled by that organization. Therefore, in all cases, terms are related to the documents (including glossary documents) or products which use or define them. No term has an owner, but do have users who are defined through the relationship of the term to the document/products in the tool.

Where a term being defined is of significance to another standards organization, such as definitions relating to information exchange, are of significance to HL7, or where definitions associated with terminology are likely to be of interest to IHTSDO input from those organizations should be sought in the balloting and publication processes of the originating organization.

A.1.3 Term harmonization: Terms should have a single definition, where practical. Where more than one definition is required, the context in which the specific definition applies shall be indicated in order to clarify intended use. The principle that term definitions be harmonized and improved can be supported by the glossary functionality. The relationships between definitions and documents are not changed as a result of this process; rather, the process supports update and improvement of definitions over time, moving towards consistency and clarity. Terminology harmonization detailed in ISO 860:2007 provides details on harmonization of terms within terminological systems. This Technical Specification is consistent with this approach but does not include terminology relationships but does include the requirements across standards development organizations.

A.2 Best practice and user support

The shared glossary content needs to be continuously kept up-to-date to well serve both the needs of the SDOs and consumers.

Example of process used in ISO 215: Working groups should be responsible for delegating persons to enter and update content including all documents in development once accepted as a new work item.

This needs to be monitored at the time of balloting so that balloting cannot take place unless the item and relevant definitions are recorded in the tool. The organizations will be automatically asked to review editing access permission every six months.

To support users, the tool provides the following:

- a user guide for general users and a separate guide for developers, those who have access to update content;
- access to rapid user support available from the home screen and there is an FAQ section;
- web-based training sessions can be requested, as well as personal demonstrations at relevant SDO meetings.

A.3 SKMT governance committee

The Joint Initiative Council of Health Informatics Standards Organizations (JIC) has established a process to govern the harmonization and ongoing improvement of the SKMT. This includes the comprehensive functionalities of the tool, as well as the need to harmonize terms and definitions. There is often more than one definition for a term, and some definitions are poorly structured. A sub-group (SKMT Governance Committee - SGC) reporting to the JIC and with ISO 215, WG3 (Semantic Content) advising them, would be responsible for administering SKMT functionality and term harmonization.

A.3.1 Objective

The objective of the SGC is to support ongoing improvement of the SKMT as an accessible knowledge resource about health informatics standards and products, published and in development, and also the content of the Glossary of the SKMT and member organizations of the JIC in their engagement with the SKMT and term harmonization processes.

A.3.2 Terms of reference

The SGC reports to the JIC every six months and receives advisory terminological support from ISO WG3 – Semantic Content. The SGC will

- maintain and communicate the SGC operational principles,
- provide oversight to SKMT content management processes,
- identify and prioritize changes required to processes and tooling to improve the quality of content in the Glossary and the ability to support governance processes,
- review and maintain product and term/definition entry and maintenance guidelines,
- receive term harmonization proposals from members of the JIC community and determine how these will be processed by the member organizations to achieve agreed harmonization (through term generation, retirement, and/or context declaration) and identification of preferred definition/s in context.

A.3.3 Membership

The SGC should be a small group of people, in order to support ease of operation. Where possible, representatives should have some understanding of term/definition best practice. Individuals can represent more than one group in order to keep the group as small as practical.

Representative areas are the groups who need to be represented in the SGC.

- a representative of each member of the JIC. This member will act as a liaison with their organization in order to support representation of their information in the tool and term harmonization processes;

- a representative of national bodies or other organizations which are contributing to the SKMT (such as WHO);
- a representative of the SKMT administrative group;
- a representative of ISO WG2 to provide liaison and advisory support.

The chair of the group is to be elected by the members.

One individual can represent more than one of the representative groups.

A.3.4 SGC operational principles

- More than one definition of the same term is possible, provided that the context that merits variation in definition is clearly defined in that term's metadata.
- Historically, several definitions of the same term have been tolerated and have been reported in the tool. Some definitions of the same term are very similar; others are more or less adequate. In these cases, poor term definitions need to be retired.
- Respect for and use of the term entry guidelines.
- Harmonization process does not consider the origin of a definition, rather the quality of the definition and whether it is fit for purpose.
- Usage of definitions. Where an SDO has used a definition (i.e. that definition is published or used in their document/tools), that organization will be asked to contribute to harmonization (agreed definition processes) to either agree on a single preferred definition or to assert context relevant to their specific environment.
- There are four categories of term definitions that are described in the Technical Specification, but for the purposes of the SGC, they are interpreted as:
 - pending – prior to publication of the term and standards document containing this new term;
 - candidate - published but waiting for SGC review;
 - preferred (standard) - endorsed by the SGC either as it is the only definition and is correctly structured or it is a definition which has completed harmonization and were required ballot of harmonization;
 - retired by the SGC – the definition is still present in the glossary but only when requested. The link to documents in which this definition is used is maintained to support document review at a later time.

Much of the SGC activity can be achieved virtually. The aim, also to accommodate the current backlog, is to systematically review batches of terms in collaboration with the different organizations responsible for term introduction.

A.4 Process for usage

Each organization is responsible for establishing their own process for inclusion of material and handling of harmonization requests for the glossary.

Each organization should determine the person or people responsible for maintaining the glossary entries within their organization. Access is granted to read all entries, but to update only those entries from your organization. The exception to this is the Administrator who, due to the need for harmonization across organizations, is able to update any definitions in the system, though this does not include deletion nor the removal of the link to relevant documents.

Figure 2 indicates the process for creating or updating the terms and definitions sections of documents or products or organizational glossaries.

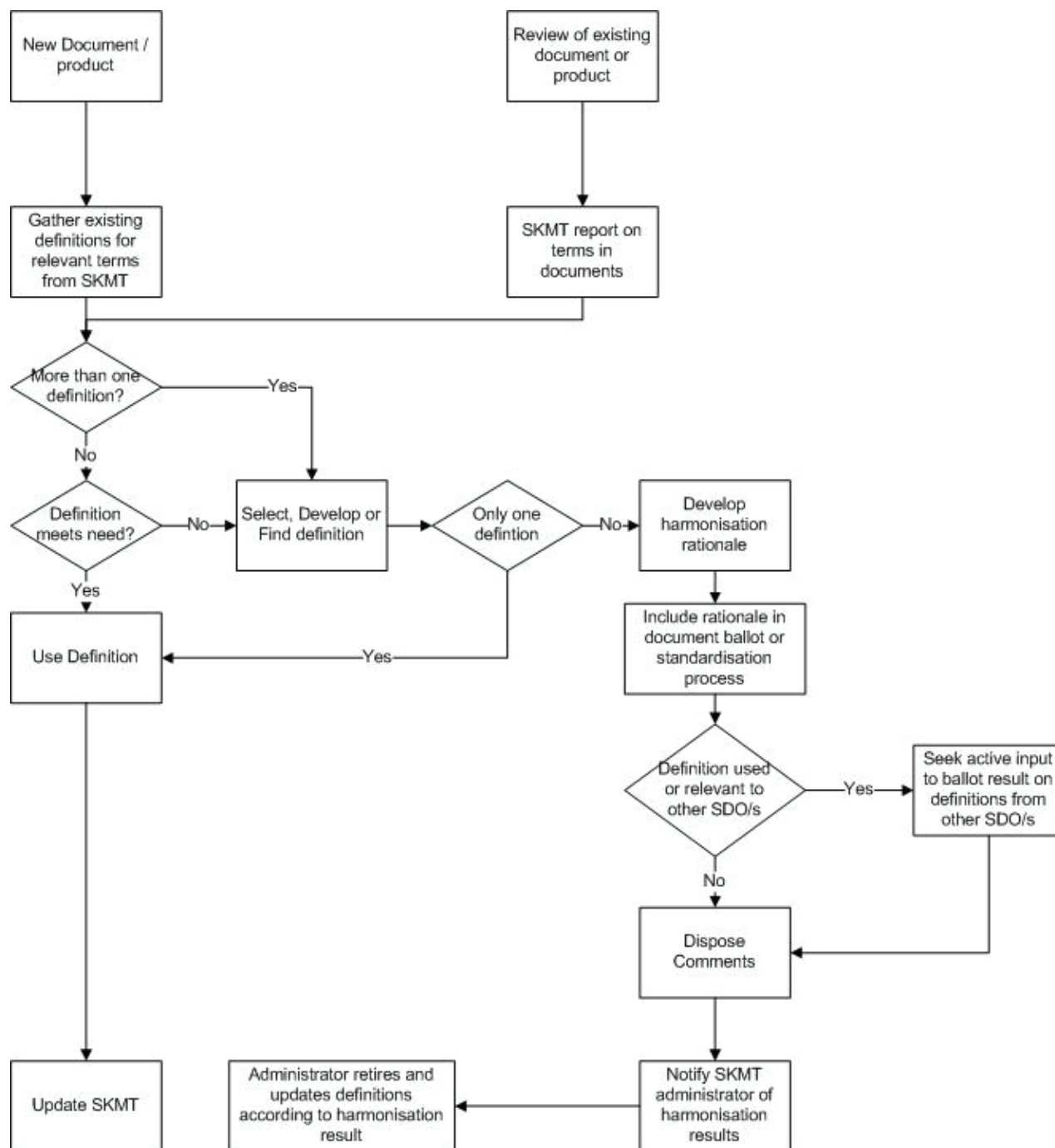


Figure 2 — Process for glossary creation and update

Each organization must determine how it will handle

- the requests for harmonization prepared by other SDOs,
- the requirement to update the shared glossary (SKMT) (preferably before publication),
- the requirement to check the shared glossary for definitions BEFORE new definitions are developed, and
- agreement on definitions for terms where there is a single definition and context.

Annex B (informative)

Template for harmonization proposals in balloted documents

This template provides guidance on how to prepare a term harmonization proposal within a balloted ISO TC215 document. The shaded sections are included in the ballot but are removed prior to publishing. In the Terms and Definitions section of your document, you should add the following words immediately below the heading and required ISO text i.e. “For the purposes of this document, the following terms and definitions apply.”

NOTE Where there are terms used in this Technical Specification that are not defined in this Annex, they are considered to be generic to the English language and not specific to this Technical Specification. Additional definitions and terms can be found at the international health informatics Standards Knowledge Management Tool and Glossary website www.skmtglossary.org.

i) term with one definition only or proposal for creation

synonym/s

definition of this term

Note: Examples, notes, etc. should be separate from the definition in this section. This example of a definition is where there is only one definition and you are using it or there was no existing definition and you are creating it.

Context: If this definition applies only in a specific context, indicate that context - This can be blank.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

ii) term with multiple definitions

synonyms

Preferred definition: a sum or a stock of words employed by a language, group, individual, work, or field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

Context: If this definition applies only in a specific context, indicate that context - This can be blank.

Rationale for the choice of this as the preferred definition: Explain why this is the definition which suits your case. This cannot be blank if there was more than one definition.

Other definitions

— This is a list of other definitions you are not recommending - They will be “retired”.

iii) term with multiple definitions and context declaration

synonyms

Preferred definition: a sum or a stock of words employed by a language, group, individual, work, or field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

Context: blank - the preferred definition when context is not indicated

Rationale for the choice of this as the preferred definition: Explain why this is the definition which suits your case. This cannot be blank if there was more than one definition.

Context: Indicate the specific context in which the definition below applies (eg Canada, Information Exchange...).

Preferred definition: a sum or a stock of words employed by a language, group, individual, work, or field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

Rationale for the choice of this as the preferred definition in this context: Explain why this is the definition which suits your case.

Other definitions

— This is a list of other definitions you are not recommending - They will be “retired”.

Annex C (informative)

Template for harmonization proposals to the SKMT Governance Committee

i) term with one definition only or proposal for creation

synonym/s:

definition of this term

Note: Examples, notes, etc. should be separate from the definition in this section. This example of a definition is where there is only one definition and you are using it, or there was no existing definition and you are creating it.

Context: If this definition applies only in a specific context, indicate that context - This can be blank.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

ii) term with multiple definitions

synonyms

Preferred definition: a sum or a stock of words employed by a language, group, individual, work, or field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

Context: If this definition applies only in a specific context, indicate that context - This can be blank.

Rationale for the choice of this as the preferred definition: Explain why this is the definition which suits your case. This cannot be blank if there was more than one definition.

Other definitions

— This is a list of other definitions you are not recommending - They will be “retired”.

iii) term with multiple definitions and context declaration

synonyms

Preferred definition: a sum or a stock of words employed by a language, group, individual, or field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: the reference to the document from which this definition originated (not necessarily an ISO standard)

Context: If this definition applies only in a specific context, indicate that context - This can be blank.

Rationale for the choice of this as the preferred definition: Explain why this is the definition which suits your case. This cannot be blank if there was more than one definition.

Context: Indicate the specific context in which the definition below applies (e.g. Canada, Information Exchange...).

Preferred definition: a sum or a stock of words employed by a language, group, individual, work, or a field of knowledge

Note: In health informatics, computable vocabularies, including terms concept identifiers, etc. are referred to as terminologies.

Source: Merriam-Webster's Dictionary

Rationale for the choice of this as the preferred definition in this context: Explain why this is the definition which suits your case.

Other definitions

— This is a list of other definitions you are not recommending - They will be “retired”.

Bibliography

- [1] ISO 860:2007, *Terminology work — Harmonization of concepts and terms*
- [2] ISO 1087-1:2000, *Terminology work — Vocabulary — Part 1: Theory and application*
- [3] ISO 10241-1:2011, *Terminological entries in standards — Part 1: General requirements and examples of presentation*
- [4] ISO/IEC 11179-4:2004, *Information technology — Metadata registries (MDR) — Part 4: Formulation of data definitions*

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