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Health Informatics - Classification of purposes for processing personal health information (ISO/TS 14265:2011)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Health Informatics - Classification of purposes for processing personal health information (ISO/TS 14265:2011)

Informatique de santé - Classification des besoins pour le
traitement des informations de santé personnelles (ISO/TS
14265:2011)

Medizinische Informatik - Klassifikation des Zwecks zur
Verarbeitung von persönlichen Gesundheitsinformationen
(ISO/TS 14265:2011)

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Foreword

The text of ISO/TS 14265:2011 has been prepared by Technical Committee ISO/TC 215 “Health informatics” of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 14265:2013 by Technical Committee CEN/TC 251 “Health informatics” the secretariat of which is held by NEN.

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Endorsement notice

The text of ISO/TS 14265:2011 has been approved by CEN as CEN ISO/TS 14265:2013 without any modification.

Health informatics — Classification of purposes for processing personal health information

*Informatique de santé — Classification des besoins pour le traitement
des informations de santé personnelles*





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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.

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ISO/TS 14265 was prepared by Technical Committee ISO/TC 215, *Health informatics*.

0 Introduction

0.1 Rationale

A fundamental principle underlying the use of personal health data is that it is essential to know the purposes for which data was originally collected and that all subsequent processing activities be the same as, or consistent with, the original purpose. This principle, when applied in conjunction with a standardized list of purposes, forms the foundation for a correspondence of permitted purpose between different users, systems, organizations or policy domains who might need to share personal health information.

Interoperability standards, and their progressive adoption by e-health programmes, are expanding the capacity for organizations to exchange health data. For this to occur on a wide scale, the majority of decisions regarding requests for health data will need to take place automatically. In order that data processing activities (collection, storage, access, analysis, linkage, communication, disclosure and retention) are appropriate, it is important that policies are defined in fully computable ways that are themselves interoperable. Interoperable policies will enable requests between heterogeneous systems and services to be evaluated consistently. In order for automatic processing policies to be defined and operationalized, it is important that governance structures, processes and rules are applied to the design of information and information technology at an enterprise or inter-enterprise level through a number of administrative mechanisms. These mechanisms include enterprise architecture/frameworks, standards, strategy, procedures, laws, regulations, principles and policy, and include operational controls such as committees, budgets, plans, and responsibility agreements (e.g. information sharing agreements, service level agreements and contracts). It is recognized that not all disclosures will take place automatically, and that individual (human) decisions will at times be made, taking policies and governance arrangements into account.

For ethical and legal reasons, it is normally the case that information is used only for the purpose for which it was collected or created. This purpose can be specified explicitly and consented to. Consent to use data for a particular purpose can also be implied, although it is almost always a requirement that the purposes be declared.

Where data are intended for further and different purposes, a new purpose can require a new consent. For example, in some jurisdictions, data collected for health care cannot automatically be used for research, nor information collected for research used for care, without obtaining new consent. Knowing the purpose for which access to information is intended is essential in order to determine if access to data for processing activities are appropriate.

Increasingly, this problem has become not only one of determining that a user has permission to access particular items of information but also that the user has permission to use them for a specified purpose. It is therefore essential to ensure that the context within which access and use is asserted is the correct one. Purpose (or use, purpose of use, or context of use) when clearly defined, helps to ensure that access to protected information items is granted to properly authorized users under a specific, appropriate and unambiguous policy. The explicit declaration of intended purpose prior to being granted access also helps to ensure that users understand that such access does not imply that use is also permitted for other undeclared, inconsistent purposes. Purpose of use helps bring clarity to situations where there are multiple and potentially conflicting contextually sensitive policies for identical users' access to identical information items.

0.2 Background

ISO/TS 22600-1 defines a generic architectural approach for policy services, and a generic framework for defining policies in a formal way. However, like any generic architecture, a structural framework to support policy interoperability has to be instantiated for use. A policy domain needs also to specify which information properties they wish to take into account when making processing decisions. They need to specify a high level policy model containing those properties, to which all instances of that kind of policy must conform.

ISO/TS 13606-4 defines such a policy model for requesting and providing electronic health record (EHR) extracts i.e. for one particular use case.

Even if two or more parties share a common policy model, this is not sufficient to support policy bridging (automated inter-policy negotiation): the terms used for each property within the shared policy model need to be mutually understood between requesters and providers of health information. In other words, the properties and terms used in the request (collection) policy need to have a computable correspondence with the terms and policies of the recipient's disclosure policy in order for an automated access decision to be made.

Historically, data uses have been categorized as Primary and Secondary. Because these are relative terms, they only have meaning when one knows the perspective of the user. This then has the further problem of giving the impression that some purposes are more important than others when it could be argued that the secondary use of health information for the benefit of society is an important purpose. It is therefore proposed that those terms be replaced with explicit and neutral but informative labels. Data collected for inclusion in an EHR is initially collected for the purpose of care, although it may be subsequently used for other purposes. Explicitly stating those uses rather than using a generic label such as "secondary use" will improve communications, transparency and support appropriate use of data.

This Technical Specification is intended to be a semantic complement to ISO/TS 22600-1 and ISO/TS 13606-4, which both provide formal architectural and modelled representations of policies, but do not themselves include a vocabulary for purpose. However, it is not a requirement for a jurisdiction to adopt either of these two specifications in order to use this classification of purposes.

There are other standards that define interoperability vocabularies which might also be used to instantiate parts of a policy. ISO/TS 13606-4 defines a standard vocabulary for the sensitivity of EHR data, and for functional roles. ISO/TS 21298 defines a vocabulary for structural roles (and replicates the ISO/TS 13606-4 vocabulary for functional roles). ISO 10181-3 provides the definition of access control information (ACI) essential for defining access control policy.

0.3 Context for defining data purposes

Defining data purposes is the critical first step in subsequent activities of data collection and various kinds of processing. Only once the intended purpose of data is known is it possible to assess if access to data or other processing activities are appropriate, for example:

- what is appropriate to collect,
- how it should be used,
- to whom it should be disclosed, and
- for how long it should be retained.

When making an access decision, authorization is a separate axis from purpose, and as such is not included in this classification. Authorization for collection, use or disclosure will be different in different jurisdictions, countries or situations, and will depend upon the environment within which the data are used. Authorization can be obtained in a number of ways, e.g. by consent, by law, by policy. In any given environment, different uses can require different authority. For example, the use of data for research might require explicit consent of the individual, but use of data for the person's direct care might rely upon implied consent. For data to be used in an investigation, legal authority and proof of a subpoena to force its disclosure and permit its collection might be required. Authority is an additional control over data collection or disclosure so that it can be made available for use (to collect, use or disclose data without sufficient or appropriate authorization might create legal risks or other risks for the user).

When first collected or created, data have some purposes which ought to be defined and explicitly stated, unless there are well recognized grounds for regarding the intended purposes as transparent within the context of capture, and if the data subject is expected to be adequately aware of this (i.e. if there is implied informed consent based on what the data subject knows or should have known). Later, when the data are requested for use within an organization or team, or disclosed for use by external parties, the requester might

intend a different purpose. In jurisdictions where a new or additional purpose is permitted (in other words, where a new purpose is assigned to data after its collection), it might be necessary to compare the new purpose with the original authorized purpose, in order to decide if the new purpose is permitted.

In jurisdictions where it is permitted to use data collected for one purpose for a new purpose, before any access is granted it might be necessary to compare the two purposes (the original consented or otherwise authorized purpose and the new intended purpose for which the access or disclosure is made) in order to decide if the new use is permitted.

After accessing data intended for some purpose related to use or disclosure, that purpose might need to be recorded in an audit trail. This is the case even if the access is supported by law: there ought still to be a purpose that is declared and documented.

A justifiable purpose ought to exist on the part of those who seek to collect data. In some circumstances, as is the case in some investigations, the requestor might have the authority to demand information without providing a purpose.

Collection of data, whether directly from the individual or indirectly from another body, ought to limit data collected to that which is required to satisfy a justifiable need on the part of the collecting organization ("collection limitation"). Justification of a need forms part of the governance and high level policy setting of an organization or jurisdiction.

Defined purpose also indicates the context for the collection of informed consent. Informed consent is a mechanism whereby a person is able to control the collection, use and/or disclosure of their data; it is important that the consent mechanism allows the data subject to make a free and informed choice. The reference to "knowledge" in the phrase "knowledge and consent" refers to the data subject's right to know about the uses to which the data will be put after they are collected.

In some cases, such as when data are sought for purposes under law, once disclosed, the data are then subject to the permitted uses of the recipient, e.g. in a legal investigation. What matters when data are disclosed as required or permitted by law, or permitted by agreement, is the legal authority of the body disclosing the data. However, it might also be necessary that data be disclosed only for a specific purpose.

This Technical Specification does define data purposes, but it is not meant to provide a comprehensive listing of purposes for which a legal obligation to disclose exists. Legal obligation to disclose, report or communicate data overrides the requirement to match the purpose for which data are held with the purposes to which the recipient uses the information. The recipient is legally permitted to demand and to receive the information without having to declare a purpose, without having to fit in with the existing purposes, or having to obtain consents under which data are held.

At times, it might be important to enforce policies on the recipient of a data disclosure (the indirect collector) to ensure that the recipient only uses the data for the declared purpose. Label-based access controls, or governance-based access controls, can allow the legislated or policy-based permissions to be applied at the technical level to help enforce this.

Data purposes or specific uses may or may not require identifiable data. Some data purposes might require the use of identifiable, de-identified, anonymous, pseudonymous or aggregate data. Although this Technical Specification will not seek to dictate which purposes may or may not use identifiable data, it is commonly understood that where identity is not required it should not be disclosed. Identity is most often required when the purpose of use is to the benefit of the individual data subject, as when the data subject is also a subject of care. The de-identification, anonymization, or pseudonymization of data may be applied as a confidentiality control or condition of use, just as appropriate authority may be applied as a condition of collection, use or disclosure. This in turn means that just as de-identification may be applied as a condition of use, a defined data purpose may be a requirement for the use of even de-identified or anonymized data according to the policy or law of a given jurisdiction.

Where a unique identifier is required to enable linkage to other data sources, best practice indicates that a genuine pseudo-identifier be used, although it is still common practice to use identifiable data to enable such linkage where a robust mechanism for using pseudo-identifiers is not in place across the relevant data sources. ISO/TS 25237 is the basis for pseudo-identifier management.

Reporting is not a data use per se, rather the data use is defined by the way in which the reported data is used. The reporting of data can be statutorily mandated or authorized, and therefore is a legal disclosure or use, but the important point is to define the purpose for the data rather than simply the fact that it is disclosed (reported) and to whom. If identifiable data is needed in order to link it with other data for the purpose of discovering which are unique persons, then the purpose is defined by the reason for the linkage itself.

This classification of purposes can be used in conjunction with functional roles and data sensitivity classification to complement and populate portions of a policy. In an automated setting, it is possible to configure implementation patterns using the purposes to apply to automated decision making and workflow and to align purposes with jurisdictional legislation and standards of professional practice and regulations. For example, an organization might combine a number of specific uses such as:

- establishing sound health policy,
- effectively managing the health system, and
- generating public awareness about factors that affect good health

under a heading such as “health system use” or “health system planning” where the purpose for which the organization collects data is always comprised of the same limited set of Purposes of Use.

It is not always the case that an organization has a focussed set of purposes to which every data collection automatically applies en masse. For example, a healthcare organization cannot assume that data collected for direct care can be used for research or marketing as if that were a compatible purpose, even if it engages in all of these activities.

This Technical Specification does not assert a particular frequency or scale of access for which the purposes of the requester should be checked against the purposes for which the data are held. However, it does assert that every access be made in accordance with agreed policies, which include a correspondence of purpose. It is possible that this might be effected on a per-data-request basis between discrete computational services, or on per-user-session based on role, or on the basis of batch transfer of data pushed to a specific zone. For example, claims processing might be the only permitted use of data by an outsourced medical billing service and any other use of the data would be in breach of contract. In this case, the zone within which the data are used has a single purpose of use and purpose matching could be done for each batch transfer rather than for each individual record. The issue of how frequently the policy services are interrogated would be addressed in accordance with suitable policies applying to transactions or batches. In this way, a policy enforcement point need not consult a policy decision point nor compute purpose of use for each record. The policy is firstly an administrative decision that is part of governance activity where the policy engine automates the decision within a zone wherein the data's purpose of use will likely have been predefined. No particular technical approach for implementing policy services or policy checking is implied in this Technical Specification. However, such pre-specified or predefined uses cannot take place in a rigorously enforced, policy-compliant manner without interoperable policy specifications, which includes the use of consistent vocabulary.

Health informatics — Classification of purposes for processing personal health information

1 Scope

This Technical Specification defines a set of high-level categories of purposes for which personal health information can be processed, i.e. collected, used, stored, accessed, analysed, created, linked, communicated, disclosed or retained. This is in order to provide a framework for classifying the various specific purposes that can be defined and used by individual policy domains (e.g. healthcare organizations, regional health authorities, jurisdictions, countries) as an aid to the consistent management of information in the delivery of health care services and for the communication of electronic health records across organizational and jurisdictional boundaries.

The scope of application of this Technical Specification is limited to Personal Health Information (PHI) as defined in ISO 27799, information about an identifiable person that relates to the physical or mental health of the individual, or to provision of health services to the individual. This information might include:

- information about the registration of the individual for the provision of health services;
- information about payments or eligibility for health care in respect to the individual;
- a number, symbol or particular code assigned to an individual to uniquely identify the individual for health purposes;
- any information about the individual that is collected in the course of the provision of health services to the individual;
- information derived from the testing or examination of a body part or bodily substance;
- identification of a person, e.g. a health professional, as a provider of healthcare to the individual.

This Technical Specification, while not defining an exhaustive set of such purposes, provides a common mapping target to bridge between differing national lists, thereby supporting authorized automated cross-border flows of EHR data.

This Technical Specification is not intended to control the use of non-personal health information. However, because anonymization or de-identification of data might be a condition of further use or new uses, a defined data purpose might be a requirement for the use of even de-identified or anonymized data according to the policy or law of a given jurisdiction.

Health data that have been irreversibly de-identified are not formally in the scope of this Technical Specification. Since de-identification processes often include some degree of reversibility, however, this Technical Specification can also be used for disclosures of de-identified health data whenever practicable.

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