



Technical Specification

ISO/TS 22220

Health informatics — Identification of persons, healthcare providers and healthcare organizations

*Informatique de santé — Identification des personnes, des
fournisseurs de soins de santé et des organisations de soins de
santé*

**Third edition
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 215, *Health informatics*.

This third edition of ISO/TS 22220 cancels and replaces ISO/TS 22220:2011 and ISO/TS 27527:2010, which have been technically revised.

The main changes are as follows:

- further elaboration on the sex and gender data elements related to person identification;
- the term “subject of care” has been replaced with the term “person” since it now applies to individual healthcare providers and patients;
- all data elements have been updated;
- three use cases were added, including conformance for each use case.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The healthcare system relies heavily on the ability to uniquely and accurately identify a person, an individual healthcare provider and healthcare organizations when they attend for care. The healthcare system and the digital health technologies that support the healthcare require accuracy and consistency in the collection of, the sharing and the exchange data concerning individual person, an individual healthcare provider and healthcare organization.

More effective communication between healthcare providers is key to securing closer co-operation, improving the handling of persons in terms of quality and continuity of care and prevention, and promoting health system efficiency.

Reliable identification of the individual has always been a critical part of the healthcare process. The ability of computerized systems to support and enhance the manual process of identification is vital, as is the ability of these systems to identify individuals, individual healthcare providers and healthcare organizations when communicating patient information electronically. High quality identification is necessary to ensure that healthcare professionals have access to patient information, facilitating closer co-ordination and continuity of care and improving service in terms of prevention and follow-up. Modern service delivery networks result in greater flows of persons and services across national, functional, jurisdictional and professional boundaries. However, high quality identification can be very complex in a more integrated healthcare environment.

Within healthcare service delivery environments, the process of positively identifying persons entails matching data supplied manually, electronically or through hard documentation by those persons against data the healthcare provider holds about them. This process occurs both manually, increasingly with computer support, and electronically, where systems have to communicate information about individuals securely and accurately. Impediments to high quality identification include variable data quality (see the ISO/TS 16599 series), inadequately considered manual identification processes, differing data capture requirements and mechanisms, and varying data matching methods.

This document identifies the data elements and relevant structure and content of the data used to identify individuals, individual healthcare providers and healthcare organizations in a healthcare setting. In addition, it provides support to the identification of individuals, individual healthcare providers and healthcare organizations in a consistent manner between systems that will support the natural changes in usage and application of the various names used by people over time.

This document addresses the business requirements of identification as well as the data needed to improve the confidence of healthcare providers and person identification. It defines the data used to identify persons and the business processes associated with this activity, whether computerized or manual. It is intended to be used both to support the processes of the identification of persons by individuals and computerized identification in automated matching systems.

Within a healthcare service delivery context, the process of positively identifying individuals entails matching data supplied by those individuals against data the service provider holds about them. The ability to positively identify individuals and to locate their relevant details is critical to the provision of speedy, safe, high quality, comprehensive and efficient healthcare. The benefits of positive identification include:

- less time wasted and inconvenience generated in hunting for or re-gathering information about the individual, which translates to more efficient healthcare;
- more complete and accurate information on which to base potentially life-critical clinical decisions;
- fewer duplicate entries for an individual, leading to less duplication of testing and prescribing;
- safer treatment from having clinical details for the correct individual;
- more complete and accurate information on which to base potential data use and disclosure decisions.

The delivery of healthcare is undergoing a paradigm change, brought about by changing consumer expectations, technological advances, economic pressures, socio-demographic change and changes in the patterns of health and ill health in communities.

These new service directions will necessitate a much greater flow of information on persons and services across functional, jurisdictional, administrative and professional boundaries. In a more integrated healthcare environment, positive identification is no less critical but is much more complex. Population mobility and multiple points of access to the healthcare system led to the accumulation of subject-related data in a variety of fragmented, unrelated repositories. Positive person identification is recognized around the world as a critical success factor for healthcare reform.

Some examples of the many barriers to successfully identifying individuals in healthcare settings are:

- variable data quality and changes in key identifying information over time.
- the patient's capacity to provide information. In a healthcare environment, it is important that the identification system can cope with the fact that people's memories and capacity to communicate vary according to their mental and physical capacity and to their willingness to seek and receive care. Information is often provided by third parties (family and friends) who might know the person by a preferred name rather than by the person's formal name.
- differing data capture requirements and mechanisms and varying data matching methods. This document provides a framework for improving the confidence of healthcare providers and persons alike so that the data being associated with any given individual, and upon which clinical decisions are made, are appropriately associated, and suited to the flexibility of the healthcare setting.
- the need to respect the wishes of the person. If the system is unable to accommodate the wishes of an individual who prefers that others not know their full name, or who prefers to be known by a preferred name or nickname, this patient might not seek healthcare. System planning is required to consider how to communicate the formal name when required to other systems and also to capture and share the preferred name so as not to cause unnecessary stress to the person or confuse family and friends during healthcare encounters.

Where permitted by law, data matching can be undertaken in a variety of contexts and settings, including for administrative purposes. However, the specific focus of this document is the positive identification of persons, individual healthcare providers and healthcare organizations for healthcare service delivery purposes. It is recognized that implementations in different systems and national settings might vary according to local needs.

It is recognized that this document can support national client registry projects in healthcare but does not represent a registry content, structural or operational specification.

The positive and unique identification of persons within and between healthcare organizations is a critical event in health service delivery, with direct implications for the safety and quality of healthcare.

It is important that responsibilities for the quality, capture, storage and use of identifying data for persons, including implementation of this document are clearly and unambiguously assigned within the organization, and documented in relevant policies, procedures and work instructions.

Users of this document can refer to relevant privacy legislation, authentication and authorization specifications and other guidelines so as not to breach personal privacy in their collection, use, storage and disclosure of person information.

Relevant staff can receive training that highlights the nature, importance and health benefits of high-quality procedures for the capture, storage and use of health identifying data and the safety implications of errors and duplications of person and organization information.

Business processes associated with the capture, storage and use of subject identifying data can be designed and continuously improved to ensure that accurate, consistent, and complete data collection, communication and storage practices are used.

There are several data elements defined in this document that are also common terms, such as date of birth. Although the meaning of the data element is evident, all data elements must be defined to include context and usage within the overall information model covering the scope of this document.

The Australian Person and provider identification in healthcare standard^[9] and ISO/IEC 11179-3:2023 were leveraged in the development of this document.

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Health informatics — Identification of persons, healthcare providers and healthcare organizations

1 Scope

This document indicates the data elements and structure suited to accurately and consistently identify persons (including subjects of care), healthcare providers and healthcare organizations. The data elements names and definitions are provided in [Clause 3](#); the full data element definitional structure is given in [Clauses 5, 6 and 7](#). This document identifies conformance requirements in the following use cases:

- Populate and manage an index or registry. This can include the storage of a person, healthcare provider or organization within an index or registry.
- Record or share information for administrative purposes.
- Record or share information for clinical purposes.

Application of this document will increase the capacity for data access. Authorization of such access is determined by the application of legislation, organizational policies and guidelines, and professional ethics.

It is recognized that specific applications might require additional data to fulfil their purpose, such as value sets or adjustments to conformance requirements. This document provides a generic set of identifying information, which is application-independent. Implementations in different healthcare environments and national settings can require the establishment of data sub-sets, additional guidelines and rules in the use of the data elements.

The following are outside the scope of this document:

- Additional factors to be considered in providing access to distributed person data, including privacy, security, authentication, access and data transfer mechanisms.
- Collection and processing of data for purposes other than the identification of persons and their associated records, even though some of the data elements collected for identification can be used for other purposes such as the determination and delivery of care, the compilation of statistics, contact tracing and reimbursement.
 - This includes clinical content, care processes and financial identifiers not used for person or provider identification.
- Handling of person electronic consent in forms and other use cases, although this can be considered for addition by implementers and dependent on electronic signature policy for medical records.
- Naming conventions, and rules for specifying data element names and data element definitions.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 General terms

3.1.1

capture

deliberate action, which results in the registration of a *record* (3.1.2) into a record keeping system

3.1.2

record

information created, received and maintained as an asset by an organization or person in the transaction of business and kept as evidence of such activity

Note 1 to entry: Adapted from ISO 15489-1:2016, 3.14.

3.1.3

registration

act of giving a *record* (3.1.2) a unique identity in a record keeping system

3.1.4

storage

function of storing *records* (3.1.2) for future retrieval and use

3.1.5

data element

basic unit of identifiable and definable data

[SOURCE: ISO 2146:2010, 3.4]

3.1.6

logical data type

kind of data that can be included in a field based on foundational notions in computer science and mathematics without implementation details

Note 1 to entry: Physical datatypes generally additionally specify storage requirements or metadata, or both – for instance an integer is a real number without fractional component, whereas a Java ‘int’ is a representation of an integer that is four bytes long, storing whole numbers from –2 147 483 648 to +2 147 483 647.

3.2 Terms related to person’s identifier data elements

3.2.1

person identifier designation

number or code assigned to a person by an organization, establishment, agency or domain in order to uniquely identify that person as a subject of healthcare within that healthcare organization, establishment, agency or domain

3.2.2

person identifier issuer

organization, agency or provider that allocates a *person identifier designation* (3.2.1)

3.2.3

person identifier type

type of the identifier for use within the organization or jurisdiction

3.2.4

person identifier geographic area

geographic scope within which this identifier is used

3.2.5**person identification comment**

comments recorded for a person where follow up to distinguish between two or more subjects with the same or similar demographic information may be required

3.3 Terms related to person's name data elements**3.3.1****name title**

honorific form of address commencing a name, used when addressing a person by name in person, by phone, mail or other written correspondence, or depending upon cultural situation

3.3.2**name title sequence number**

indicator of the order of use for *name titles* ([3.3.1](#))

3.3.3**personal pronoun**

nouns or noun-phrases specified by the person to be used when replacing the person's name when referring to the patient in speech, in clinical notes, and in written instructions to caregivers

3.3.4**pronoun start date**

date at which a pronoun starts to be used

3.3.5**pronoun end date**

date at which a pronoun is not to be used

3.3.6**family name**

part of a name a person usually has in common with some other members of their family, as distinguished from the person's *given names* ([3.3.8](#))

3.3.7**family name sequence number**

indicator of the order of use for *family names* ([3.3.6](#))

3.3.8**given name**

person's identifying name(s) within the family group or by which the person is uniquely socially identified

3.3.9**given name sequence number**

indicator of the order of use for *given names* ([3.3.8](#))

3.3.10**name suffix**

additional term used to follow a person's name to identify a person usually in relation to others in the person's family, or to acknowledge qualifications, positions held and honours awarded

3.3.11**name suffix sequence number**

indicator of the order of use for *name suffix* ([3.3.10](#))

3.3.12**name usage**

classification that identifies the use and purpose of the name to enable differentiation between names

3.3.13

name usage start date

date at which the *name usage* (3.3.12) for the name to which the usage is associated starts

3.3.14

name usage end date

date at which the *name usage* (3.3.12) for the name to which the usage is associated ceased

3.3.15

name usage identifier

designation used to represent the individual in a specific organization or situations

EXAMPLE The name associated with a specific healthcare number.

3.3.16

name usage restriction type

indicator of specific conditions or rules to be applied to a particular name

3.3.17

name usage restriction start date

date at which a *name usage restriction type* (3.3.16) starts

3.3.18

name usage restriction end date

date at which a *name usage restriction type* (3.3.16) ends

3.4 Terms related to additional person's demographic data elements

3.4.1

date of birth

date, as exact as possible, when the person is known or estimated to have been born

3.4.2

date of birth accuracy indicator

indication of the accuracy of a *date of birth* (3.4.1)

3.4.3

date of birth follow-up indicator

flag that indicates when the current *date of birth* (3.4.1) requires follow-up to obtain a more accurate date

3.4.4

birth plurality

indicator of multiple births showing the total number of births resulting from a single pregnancy

3.4.5

birth order

sequential order of this person in a multiple birth regardless of live or still birth

3.4.6

country of birth

country in which the person was born

3.4.7

province of birth

state, province or territory in which the person was born

3.4.8

locality of birth

town or equivalent location in which the person was born

3.4.9

mother's original family name

family name ([3.3.6](#)) of the person's mother at the time of her birth

3.4.10

date of death

specific date when a person is declared deceased

3.4.11

date of death follow-up indicator

flag that indicates when the date of death requires follow-up

3.4.12

source of death notification

source of information about a person's death

3.4.13

sex at birth

sex of the person documented at birth

3.4.14

recorded sex or gender

documentation of a specific instance of sex or gender information where only one data field for sex and gender is available and where it is found in the local system or historical documentation

3.4.15

gender identity

individual's personal sense of being a man, woman or nonbinary

3.4.16

gender identity start date

date at which a *gender identity* ([3.4.15](#)) starts

3.4.17

gender identity end date

date at which a *gender identity* ([3.4.15](#)) ends

3.5 Terms related to person's address data elements

3.5.1

address purpose

role or use of the address by the individual or organization

3.5.2

address type

representation of the type of address in order to distinguish the type of physical or virtual address

3.5.3

address type start date

date on which the *address type* ([3.5.2](#)) is first applicable to the person

3.5.4

address type end date

date on which the *address type* ([3.5.2](#)) is no longer applicable to the person

3.5.5

address status

status of a person's or organization's address

3.5.6

address status start date

date when the *address status* (3.5.5) was first used

3.5.7

address status end date

date when this *address status* (3.5.5) was or is no longer to be used

3.5.8

address unit type

specification of the type of a separately identifiable portion (address unit) within a building or complex, etc. to clearly distinguish it from another

3.5.9

address unit number

identifier to distinguish an address within a building or complex

3.5.10

address site name

full name used to identify the physical building or property as part of its address

3.5.11

address floor number type

descriptor used to classify the type of floor or level of a multi-storey building or complex

3.5.12

address floor number

descriptor used to identify the floor or level of a multi-storey building or complex

3.5.13

address street number

identifier of a house or property that is unique within a street name

3.5.14

address lot number

lot reference allocated to an address in the absence of street numbering

3.5.15

address street name

name that identifies a thoroughfare and differentiates it from others in the same suburb, town or locality

3.5.16

address street type

designation that identifies the type of thoroughfare

3.5.17

address street suffix

term used to qualify street name issued for directional references

3.5.18

postal delivery type

unique designation forming part of the mailing address for the channel of postal service as defined by the post office

3.5.19

postal delivery number

number forming part of the mailing address for the channel of postal service as defined by the post office

3.5.20

address locality

full name of the city, suburb, or town containing the specific address

3.5.21

state or territory or province identifier designation

identifier of the province, state or territory in which a person resides, or an organization exists

3.5.22

postal code

designation for a postal delivery area, aligned with locality, suburb or place for the address as defined by the postal service

3.5.23

country identifier designation

identifier representing the country in which a person resides, or an organization exists

3.5.24

address location descriptor

description of the location of an address relative to another physical site

3.5.25

address line

composite of one or more standard address components that describe a low level of geographical and physical description of a location that, used in conjunction with the other high-level address components, forms a complete geographical or physical address

3.5.26

address geocode datum

reference frame that defines the position of locations on Earth using geodetic coordinates

3.5.27

address geocode latitude

geographic coordinate that specifies the north-south position of a point on the earth's surface relative to the equator

3.5.28

address geocode longitude

geographic coordinate that specifies the east-west position of a point on the earth's surface relative to Greenwich

3.5.29

address geocode altitude

geographic coordinate that specifies the vertical position of a point on the earth's surface relative to the mean sea level

Note 1 to entry: Mean sea level is defined as the average height of seawater relative to a fixed datum established by a statistical average of water heights over a period of time.

3.6 Terms related to person's electronic communication data elements

3.6.1

electronic communication type

unique designation to indicate the communication mechanism for use

3.6.2

electronic communication detail

unique combination of characters used as input to electronic telecommunication equipment for the purpose of contact and correspondence.

3.6.3

electronic contact usage

representation of the manner of use that a person or organization applies to a specific *electronic communication detail* ([3.6.2](#))