

DIN EN 14822-2



ICS 35.240.80

**Medizinische Informatik –
Allgemein verwendbare Informationskomponenten –
Teil 2: Nichtklinische Informationen;
Englische Fassung EN 14822-2:2005**

Health informatics –
General purpose information components –
Part 2: Non-clinical;
English version EN 14822-2:2005

Informatique de santé –
Unité d'information dans les messages –
Partie 2: Non-clinique;
Version anglaise EN 14822-2:2005

Gesamtumfang 201 Seiten

Normenausschuss Medizin (NAMed) im DIN

Nationales Vorwort

Diese Norm enthält unter Berücksichtigung des Präsidialbeschlusses 13/1983 den englischen Originaltext der Europäischen Norm EN 14822-2:2005-10. Die Europäische Norm wurde in der WG I „Information Models“ des CEN/TC 251 „Medizinische Informatik“ erarbeitet, dessen Sekretariat vom NEN (Niederlande) gehalten wird. Der Arbeitsausschuss NA 063-07-02 AA „Interoperabilität“ des Fachbereichs 07 „Medizinische Informatik“ des Normenausschusses Medizin im DIN hat an der Erarbeitung mitgewirkt.

Diese Europäische mehrteilige Norm legt generelle Anforderungen für allgemein verwendbare Informationskomponenten, die in Normen zum Datenaustausch eingesetzt werden, unter gesundheits-spezifischen Aspekten fest. Die Komponenten die durch diese Norm festgelegt werden, sind die am häufigsten gebrauchten, grundlegenden Bausteine für derartige Normen. Diese können allerdings weitere Spezialisierungen und Ergänzungen für bestimmte Anwendungen benötigen, die nicht durch die hier beschriebenen generell anwendbaren Komponenten abgedeckt werden.

In diesem Teil werden die nicht klinischen Komponenten beschrieben, insbesondere Daten zu den Objekten der medizinischen Betreuung, zu Heilberuflern, zu Geräten, Angaben zum Ort der medizinischen Betreuung, geographische Angaben, Transport und Finanzierung. Der Begriff „klinisch“ beschreibt hier alle medizinischen Daten und geht über den klinikinternen Verwendungszweck hinaus und gilt insbesondere auch für den ambulanten Bereich. Die Komponenten sollen gerade auch sektorenübergreifend benutzt werden.

English Version

Health informatics – General purpose information components – Part 2: Non-clinical

Informatique de santé – Unité d'information dans les
messages – Partie 2: Non-clinique

Medizinische Informatik – Allgemein verwendbare
Informationskomponenten – Teil 2: Nichtklinische
Informationen

This European Standard was approved by CEN on 16 August 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This European Standard (EN 14822-2:2005) has been prepared by Technical Committee CEN/TC 251 “Health informatics”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

This is part two of a multipart standard under the heading:

Health informatics - General purpose information components:

- Part 1: Overview
- Part 2: Non-clinical
- Part 3: Clinical

This European Standard is definition of a set of non-clinical general purpose information components.

IMPORTANT —Within this document each of the General Purpose Information Components and various sub-components are provided with identifiers, which are unique only internally within this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

Many previous messaging and information structure standards for health have overlapping parts with a number of objects being defined in separate documents, sometimes with small variations making implementation of conformant applications more difficult. It therefore makes sense to define a set of general purpose components that can be used for definition of message structures for different purposes¹. This approach was suggested and approved as a strategy for CEN/TC 251 in the Short Strategic Study on message standards alignment in 1999 examining a set of five European prestandards for messages. This European Standard is aiming to provide such a set of components and has been developed jointly with a new European Standard for Service Request and Report messages that is using the components defined herein.

Another important background to the development of this European Standard has been the wish for a harmonisation of information models for health developed in Europe and the USA expressed in the collaboration agreement entered March 2000 between CEN/TC 251 and HL7 (Health Level Seven, Ann Arbor, Michigan). The goal was set for a maximum degree of alignment while maintaining their independence and need to serve the business requirements of the respective markets but also to make the results available to ISO for possible international standardization.

HL7 have adapted a general strategy similar to CEN/TC 251 using information modelling expressed in UML (Unified Modeling Language) for their new standards and a lot of interaction and information sharing has occurred between CEN experts and HL7 in an open spirit of collaboration.

This European Standard includes a large number of objects which are technically identical to descriptions in draft documents of HL7, although partly described differently due to the fact that CEN is following the ISO rules for drafting and presentation of standards which HL7 is not. CEN wishes to express its gratitude towards HL7 experts for generously sharing their models and other technical outputs with the European expert team.

This European Standard contains definition of a set of non-clinical General Purpose Information Components.

¹ See Annex A: Rationale for this document on General Purpose Information Components.

1 Scope

This European Standard specifies the definition and structuring of information relating to entities that are commonly encountered in communications with and between clinical information computer systems.

Within the scope of this European Standard is a description of components and their use. In particular, these components relate to the following sub-domains:

- Subjects of care: including persons, animals and groups of animals. This sub-domain includes descriptions of the parameters for the identification of the subjects of care.
- Subject of care related parties: including next of kin and other persons and organisations related to the subject of care (including other subjects of care).
- Healthcare agents: including healthcare professionals, organisations and devices.
- Devices: including descriptions of their settings and use within a particular use event.
- Locations: of two types:
 - care locations, for example, ward and bed where patient receive inpatient care, a clinic where physiotherapy booked, a nursing home, the patient's home etc.;
 - geographic locations: which are non-healthcare specific places that are related to laboratory investigations. For example: kitchens, shop counters, hotel air conditioning systems.
- Transport: including the transportation of persons (patient, related person), animals, or samples/body parts.

Financial: including costs associated with care services, authorisation and service agreements (contracts).

2 Normative references

Not applicable.

3 Terms and definitions

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

3.1

care location

place, often located within a healthcare organisation, where healthcare services are provided

EXAMPLES Ward, room, bed, GP surgery, clinic, patient's home, residential home.

3.2

General Purpose Information Component

GPIC

commonly useful information component that is a specialisation of classes in an international reference information model which is intended to be used in the specification of an information service for health or of a communication between health information systems.

3.3

healthcare

provision of health related services
[ENV 13940:2001 - modified]

NOTE 1 This includes more than performing procedures on subjects of care. It includes also, for example, the management of the information about patients, their health status and their relations within the health care framework.

NOTE 2 In this document, the term 'care' may be used as a synonym for 'health care'.

3.4

healthcare agent

healthcare person, healthcare organisation, healthcare device or that performs a role in a healthcare activity
[ENV 13940:2001]

3.5

healthcare device

device or equipment involved in the direct or indirect provision of healthcare services to an individual or to a population
[ENV 13606-4:2000]

EXAMPLES ECG machine, auto-analyser, syringe pump.

3.6

healthcare organisation

organisation involved in the direct or indirect provision of healthcare services

3.7

healthcare party

organisation or person involved in the direct or indirect provision of healthcare services to an individual or to a population
[ENV 13606-4:2000]

3.8

healthcare professional

person involved in the direct or indirect provision of healthcare services to an individual or to a population
[ENV 13606-4:2000 - revised]

3.9

organisation

unique framework of authority within which a person or persons act, or are designated to act towards some purpose

NOTE Groupings or subdivisions of an organisation may also be considered as organisations where there is need to identify them for information interchange. (see ISO/IEC 6523:1998)

3.10

subject of care

person or other living subject, or group of persons or other living subjects, scheduled to receive or receiving healthcare services

3.11

transportation

movement of a person, animal, group of animals or analysable object between two physical locations

4 Symbols and abbreviations

NOTE All those marked by ‡ as defined in the CEN/TS 14796:2003, "Health informatics - Data types".

BL ‡	Boolean
CAG	Common Attribute Group (see Section 6)
CD ‡	Concept Descriptor
CS ‡	Coded Simple value
CV ‡	Coded Value
ED ‡	Encapsulated Data
GP	General Practitioner
GPIC	General Purpose Information Component
II ‡	Instance Identifier
IVL ‡	Interval
IVL<PQ> ‡	Interval of Physical Quantity
IVL<TS> ‡	Interval of Time
INT ‡	Integer
PQ ‡	Physical Quantity
ST ‡	String
TS ‡	Time stamp (point in time)
UML	Unified Modeling Language

5 Rules governing the use of general purpose information components

5.1

When using a GPIC, a system which conforms to this document shall implement the features (classes, associations, attributes) that are described within the GPIC core^{2 3}. In particular:

- A conformant system that utilises a GPIC shall be able to receive and process information present in all classes and attributes, even where attributes are specified as being optional.
- A conformant system that utilises a GPIC design to send information shall not be obliged to populate optional attributes.

5.2

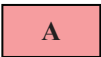
Each of the classes and embedded GPICs that constitute a GPIC description has a class type. These are shown as follows^{4 5}:

² See EN 14822-1 for explanation of 'GPIC Core'.

³ See Annex B: How to read the models.

⁴ See Annex C: Health Level 7 (HL7) Reference Information Model.

⁵ Within this document the exception is that the class 'Language Communication' does not have any specific type.

	Act	These describe actions, plans, etc. EXAMPLES Observations, tests, referrals, transportation etc.
	Participation	Used as a way of linking Acts to Entities. May include information about the type of participation of the Entity.
	Role	Used as a way of linking Entities together and provides information about the competences or qualification of the entities, for example, a person who is qualified to act as a nurse.
	RoleLink	Used as a way of linking two Entity/Role pairs together, for example person/employee ↔ organisation/employer.
	Entity	The world of physical things. May be people, animals, samples, organisations, places, materials, devices etc.
	None of Above	A class that is none of the above types. Limited to the Language Communication class in this document.

5.3

A GPIC description shall not include optional associations between classes within the GPIC core.

5.4

For each GPIC there is a definition of the type(s) of objects to which the GPIC may be attached within any external models or implementations. A conformant system will restrict GPIC use accordingly⁶.

5.5

GPICs may be associated with other GPICs in ways which extend their functionality. These extensions are informative in nature and shall not be subject to conformance testing. The set of extensions to the GPICs shown in this document shall not be considered to be exhaustive.

5.6

A user community, e.g. a national body or a message development agency, may wish to 'localise' a GPIC for use in a particular circumstance. The rules which underpin such localisation are⁷:

⁶ See Annex D: Common features of the General Purpose Information Components.

⁷ See Annex E: Localisation of the general purpose information components.

- All mandatory attributes shall be present in any design using the GPIC, i.e. it is not permitted to omit these features.
- A user community may:
 - specify that certain optional attributes are omitted;
 - restrict (constrain) a data type: For example, the data type ST (string) being defined in place of ED (multimedia data);
 - define constraints on the allowable values of an attribute;
 - define constraints on the vocabulary sets that may be associated with a coded attribute.

It is strongly recommended that where any of these actions are taken, that the user community provide the resulting GPIC with a new Object Identifier (i.e. register a new GPIC):

- A user community shall **not**:
 - omit mandatory attributes and associations but may restrict values and vocabulary sets as outlined above;
 - add attributes;
 - add associations except to other GPICs as external extensions.

Users may create new GPICs.

6 Common Attribute Groups (CAG)

6.1 Introduction

This clause provides groups of attributes that are commonly encountered in demographic data. It is convenient to define these once and then to refer to them as though they were complex data types.

6.2 Entity Name CAG

6.2.1 Entity Name

Common Attribute Group			
EntityName			
Description	Specifies a name of a person, organisation, place or thing.		
Examples	"Leonardo da Vinci", "United Nations Organisation", "Eiffel Tower", etc.		
Comments	An entity name may be as simple as a character string or may consist of several entity name parts. The entity name data type is essentially a sequence of entity name part values.		
Attributes	O	Type	Description
entityName	M	SET<Entity NamePart>	The name data. EXAMPLES — Eiffel Tower (place name) — Anderson (family name) — John (given name)
use	O	CV	Code representing the purpose/primary use of the name
validTime	O	IVL<TS>	Interval of time associated with the entity name. NOTE The valid time may provide a: start date/time, or an end date/time, or both.

6.2.2 Entity Name Part

Common Attribute Group			
EntityNamePart			
Description	Specifies a name of a person, organisation, place or thing.		
Examples	"United Nations Organisation", "Thomas"		
Attributes	O	Type	Description
entityNamePart	M	ST	The name part represented as a string.
namePartType	O	CS	VALUES: — FAM = family — GIV = given — PFX = prefix — SFX = suffix

namePartQualifier	O	CS	VALUES: — AC = academic — NB = nobility — PR = professional — W = prefix (voorvoegsel) — BR = birth — CL = preferred name — IN = initial
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6.3 Postal Address CAG

6.3.1 Postal Address

Common Attribute Group PostalAddress				
Description	Used to represent the mailing, home or business address.			
Comments	Addresses are essentially sequences of address parts.			
Attributes	O	Type	Description	
postalAddress	M	SET<AddressPart>	The address lines.	
postalCode	O	ST	The postal or zip code.	
addressUse	O	SET<CS>	One or more codes advising a system or user which address in a set of like addresses to select for a given purpose. VALUES: — BIR (birthplace) — H (home) — HP (primary home) — HV (vacation address) — WP (work place)	
validTime	O	IVL<TS>	Interval of time associated with the address. NOTE The valid time may provide a: start date/time, or an end date/time, or both.	

6.3.2 Postal Address Part

Common Attribute Group			
PostalAddressPart			
Description	An address line.		
Comments	Addresses are conceptualised as text with added mark-up. The mark-up may break the address into lines and may describe in detail the role of each address part if it is known.		
Attributes	O	Type	Description
addressLine	M	ST	The address part represented as a string.
addressLineType	O	CS	VALUES: — BNM = boat name — CNT = country — CPA = county or parish — CTY = city/town — FNM = flat number — HNR = house number — HNM = house name — POB = post box — SAL = street address line — STA = state or province — STR = street name

6.4 Telecom CAG

6.4.1 Telecom

Common Attribute Group	
Telecom	
Description	Locator for some resource (information or services) mediated by telecommunication equipment.
Comments	The responder of a telecom address may be an automatic service that can respond with information (e.g. FTP or HTTP services). In such case a telecom address is a reference to that information accessible through that address. A given telecom address value may have limited validity through time and may be tagged by a use code to indicate under what circumstances a specific telecommunication address may be preferred among a set of alternatives. The telecommunication address is an extension of the Universal Resource Locator (URL) that specifies as an Internet standard RFC 1738.

Attributes	O	Type	Description
telecomAddress	M	URL	The address is a character string whose format is entirely defined by the URL scheme.
use	O	SET<CS>	VALUES: — HT = home telephone — WT = work telephone — AS = answering service — EC = emergency contact — MC = mobile contact — PG = pager — FX = fax — EM = email
validTime	O	SET{IVL < TS>}	One or more time range when this telecommunication type is appropriate (e.g. after 18:00).

7 Common Sub-Components

7.1 General description

7.1.1 Overview

This clause presents a set of classes which describe the 'Participation' that a person, organisation or device may have in healthcare activities. These sub-components differ from GPICs inasmuch as they do not describe Entities (mainly found in this document), or Acts (mainly found in EN 14822-3), but provide a 'template' that may be used to describe the type of participation that one or more Entities have within some activities. This means that unlike the GPICs presented in Clause 8, there is no description of the external connection types since these shall always be Role + Act (or specialisations of), i.e.

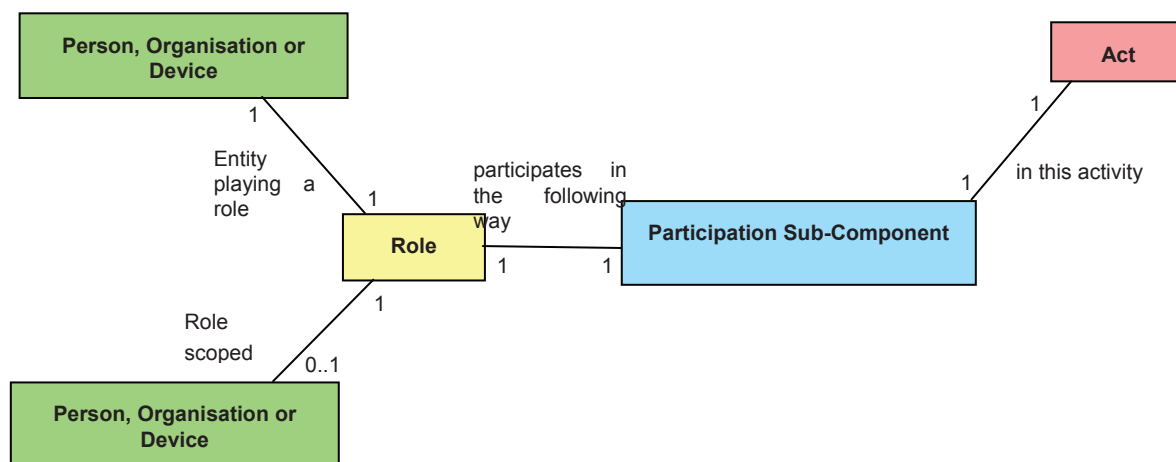


Figure 1 — How Participation Sub-Components are to be used

7.1.2 Context inheritance

When describing some healthcare activities it is often necessary to utilise many instances of Act that are associated together using Act Relationships. For example, the act of examining a patient may involve a number of sub-activities such as taking measurements, making observations, asking questions, recording results, etc. In such cases it is usual for the group of acts to have the same participant(s). However, in a communication it would be wasteful to specifically state the participant(s) for each of these acts.

It is possible in the examination process that the physician captures the fact that the patient's mother had a history of diabetes. It is then necessary to correctly specify that this particular item of clinical information (expressed as an Observation Act) relates to a family member (different participant), not directly to the patient, while at the same time the other participations to this group of acts (examining physician, data recorder, etc.) remain unaltered.

In order to facilitate the extent of the participation of any given actors (persons, organisations, places, etc.) attributes are used in the Participation and Act Relationship classes. Within this document there are no GPICs defined which utilise Act Relationship classes, but many which utilise Participation classes. There are four values permitted within a participation class in order to define the extent of the context of the participating GPIC. These values and their explanations are provided in 10.4.

7.2 Non Healthcare Person Participation

Sub-component Name		GPIC_ID =		P
NonHealthcarePersonParticipation		2.001		
Description		Information about the participation of a human subject of care or a related non-healthcare person in one or more aspects of healthcare service provision.		
HL7 Class	RIM	Participation		
External Connection Types		This component shall be associated explicitly or implicitly with: an Entity/Role combination which identifies and/or describes the person that is participating. Details of the role played by the person may be provided by the context of another healthcare party such as an organisation. For example, the job title and identification of a contact person may be those used in the context of a particular employer organisation. an Act which identifies and/or describes the activity that this person is participating in.		
Note		The activity may be in the past, present or future: it may be an actual activity, a planned or recommended activity, etc.		

UML Representation													
<table><tr><th colspan="2">NonHealthcarePerson Participation</th></tr><tr><td colspan="2">typeCode: CS</td></tr><tr><td colspan="2">contextControlCode: CS</td></tr><tr><td colspan="2">functionCode: CV</td></tr><tr><td colspan="2">awarenessCode: CV</td></tr></table>				NonHealthcarePerson Participation		typeCode: CS		contextControlCode: CS		functionCode: CV		awarenessCode: CV	
NonHealthcarePerson Participation													
typeCode: CS													
contextControlCode: CS													
functionCode: CV													
awarenessCode: CV													
Attributes	O	Type	Description										
typeCode	M	CS	Identifies the broad category of person that is participating. A value shall be chosen from those present in 10.3.1. The following sub-set of the vocabulary entries may be of particular importance in this sub-component: — PAT (patient) — NOK (patient’s next of kin) — CNS (consenter) — WIT (witness) — ESC (escort) — BBY (patient’s baby) — MOT (mother – participates as mother of subject of care) — INF (Informant – may be related person who receives or provides information)										
contextControlCode	O	CS	Code which specifies whether the GPIC which this Participation class is a part of can be inherited by Acts other than the one to which this Participation class is directly associated with. A code shall be chosen from the set presented in 10.4 and discussed in 7.1.2.										

functionCode	O	CV	A code representing the type of participation undertaken by the person. EXAMPLES Treatment authoriser, first surgeon, anaesthetist. NOTE The user community will require access to an agreed set of such codes and their meanings
awarenessCode	O	CV	Indicates whether the person is aware or is to be made aware of the service, advice and or observation(s) made. NOTE The set of values may need to include terms which relate to how the patient is intended to be made aware of the situation, whether this information relates to a diagnosis, a proposed encounter date, etc. NOTE The user community will require access to an agreed set of such codes and their meanings.
modeCode	O	CS	A code specifying how the person is involved in the Act, e.g. as physically present, over the telephone, to be informed by GP, or in written communication. A code from 10.3.3 shall be used.
noteText	O	ST	Any free text notes about the person's participation. NOTE This may include information about the person's availability.
statusCode	O	CS	Code used to specify the current status of the participation by the person. A value from 10.3.2 shall be used. Of particular relevance are the following sub-set: — ACT (active) — COM (completed) — CAN (cancelled) — CBP (cancelled by healthcare party) — CBS (cancelled by person) — PEN (pending) — REQ (requested participation) — PLN (planned participation)

signatureCode	O	CS	Specifies whether the person has performed some sort of signature for his participation in the act or whether such a signature is required. VALUES: — INT = Intended — SGN = Signed — REQ = Required
signatureText	O	ED	The electronic signature of the person. NOTE This is generally only used where the Act is representing some document such as a treatment authorisation form.

7.3 Healthcare Professional Participation

Sub-component Name			GPIC_ID =	2.002	P
HealthcareProfessionalParticipation					
Description		Information about the participation of a healthcare professional in one or more aspects of healthcare service provision.			
HL7 Class	RIM	Participation			
External Connection Types		This component shall be associated explicitly or implicitly with: an Entity/Role combination which identifies and/or describes the healthcare professional that is participating an Act which identifies and/or describes the activity that this professional is participating in.			
Note		The activity may be in the past, present or future: it may be an actual activity, a planned or recommended activity etc.			
UML Representation					
HealthcareProfessional Participation typeCode: CS contextControlCode: CS functionCode: CV modeCode: CS					

Attributes	O	Type	Description
typeCode	M	CS	Identifies, in terms of a broad categorisation, the particular type of participation that the healthcare professional contributed. A code shall be chosen from those present in 10.3.1.
contextControlCode	O	CS	Code which specifies whether the GPIC which this Participation class is a part of can be inherited by Acts other than the one to which this Participation class is directly associated with. A code shall be chosen from the set presented in 10.4 and discussed in 7.1.2.
functionCode	O	CV	Coded description of the function undertaken by the healthcare professional. This code broadens the description of the participation provided by the typeCode.
modeCode	O	CS	A code specifying how the participant is involved in the act, e.g. as physically present, over the telephone, or in written communication. Particularly for author (originator) participants this is used to specify whether the information represented by the act was initially provided verbally, (hand)written, or electronically. A code shall be chosen from 10.3.3.
time	O	IVL<TS>	Time during which the healthcare professional carried out the participation.
noteText	O	ED	Provides a means whereby additional comments or details of the participation may be included.
statusCode	O	CS	Code used to specify the current status of the participation by the healthcare professional. A value shall be chosen from 10.3.2.
signatureCode	O	CS	Specifies whether the professional has performed some sort of signature for his participation in the act or whether such a signature is required. VALUES: — INT = Intended — SGN = Signed — REQ = Required
signatureText	O	ED	The signature whereby the healthcare professional endorses their participation.

7.4 Healthcare Organisation Participation

Sub-component Name			GPIC_ID =	2.003	P
HealthcareOrganisationParticipation					
Description		Information about the participation of a healthcare related organisation in one or more aspects of healthcare service provision.			
HL7 Class	RIM	Participation			
External Connection Types		This component shall be associated explicitly or implicitly with: an Entity/Role combination which identifies and/or describes the healthcare organisation that is participating an Act which identifies and/or describes the activity that this organisation is participating in.			
UML Representation					
HealthcareOrganisation Participation typeCode: CS contextControlCode: CS functionCode: CV time: IVL<TS> id: II					

Attributes	O	Type	Description
typeCode	M	CS	Identifies, in terms of a broad categorisation, the particular type of participation that the healthcare organisation contributed. A value shall be chosen from 10.3.1. Of particular relevance are the following values: - RESPPROV (provider organisation) - ORG (origin of service) - DEST (recipient of activity) - ELOC (location where activity recorded)
contextControlCode	O	CS	Code which specifies whether the GPIC which this Participation class is a part of can be inherited by Acts other than the one to which this Participation class is directly associated with. A code shall be chosen from the set presented in 10.4 and discussed in 7.1.2.
functionCode	O	CV	Coded description of the function undertaken at the healthcare organisation.
time	O	IVL<TS>	Time during which the healthcare organisation contributed to or facilitated the participation.
id	O	II	An identifier for the participation of the organisation in the activity. EXAMPLES the identifier issued by the organisation as an appointment id.
noteText	O	ED	Provides a means whereby additional comments or details of the participation may be included
statusCode	O	CS	Code used to specify the current status of the participation by the healthcare organisation A value shall be chosen from 10.3.2.

7.5 Device Participation

Sub-component Name			P
DeviceParticipation		GPIC_ID =	2.004
Description	Details of the participation of a healthcare device in the delivery of care or the provision of care services.		
HL7 RIM Class	Participation		
External Connection Types	This component shall be associated explicitly or implicitly with: an Entity/Role combination which identifies and/or describes the healthcare device that is participating an Act which identifies and/or describes the activity that this device is participating in.		
UML Representation			
HealthcareDevice Participation typeCode: CS contextControlCode: CS functionCode: CV			
Attributes	O	Type	Description
typeCode	M	CS	Fixed value = DEV (device).
contextControlCode	O	CS	Code which specifies whether the GPIC which this Participation class is a part of can be inherited by Acts other than the one to which this Participation class is directly associated with. A code shall be chosen from the set presented in 10.4 and discussed in 7.1.2.
functionCode	O	CV	Code describing the purpose or use of the device.
time	O	IVL<TS>	Time or time interval during which the device was used or is to be used.
statusCode	O	CS	Code used to specify the current status of the participation by the healthcare device A code shall be chosen from 10.3.2.
id	O	II	An identifier for the participation of the device in the activity, e.g. device booking number.
noteText	O	ED	Any free text or multimedia notes relating to the use of the device.

7.6 Healthcare Agent Participation

Sub-component Name		GPIC_ID = 2.005		P
HealthcareAgentParticipation				
Description	Details of the participation of a healthcare agent (professional, organisation, device or combination) in the delivery of care or the provision of services.			
HL7 RIM Class	Participation			
External Connection Types	This component shall be associated explicitly or implicitly with: an Entity/Role combination which identifies and/or describes the healthcare agent that is participating an Act which identifies and/or describes the activity that this agent is participating in.			
UML Representation				
HealthcareAgent Participation typeCode: CS contextControlCode: CS functionCode: CV modeCode: CV time: IVL<TS> statusCode: CS				
Attributes	O	Type	Description	
typeCode	M	CS	Identifies, in terms of a broad categorisation, the particular type of participation that the healthcare agent contributed. A code shall be chosen from 10.3.1.	
contextControlCode	O	CS	Code which specifies whether the GPIC which this Participation class is a part of can be inherited by Acts other than the one to which this Participation class is directly associated with. A code shall be chosen from the set presented in 10.4 and discussed in 7.1.2.	
functionCode	O	CV	Coded description of the function undertaken by the healthcare agent.	
modeCode	O	CS	A code specifying how the participant is involved in the act, e.g., as physically present, over the telephone, via remote link, or in written communication. A code shall be chosen from 10.3.3.	

time	O	IVL<TS>	Time during which the healthcare agent carried out the participation.
statusCode	O	CS	Code used to specify the current status of the participation by the healthcare agent. A code shall be chosen from 10.3.2.
signatureCode	O	CS	Specifies whether the agent has performed some sort of signature for his participation in the act or whether such a signature is required. VALUES: — INT = Intended — SGN = Signed — REQ = Required
signatureText	O	ED	The signature whereby the healthcare agent endorses their participation.
noteText	O	ED	Provides a means whereby additional comments or details of the participation may be included.

8 General Purpose Information Components – an overview

GPIC Name	Description/Use
Person 	General demographic information about a person. This GPIC may be used to provide a set of general information that might be collected about persons that are involved in healthcare. This GPIC is only concerned with details about these people as persons, and says nothing about the roles they are playing.
LanguageCommunication 	Language communication capabilities for a person or group of persons. This language communication GPIC may be associated with a particular person, for example a patient, related person or healthcare professional, OR with a group of persons within an organisation. In this latter case, the GPIC may be associated with the organisation although it strictly represents the language abilities of persons within the organisation.
PlaceOfBirth 	Geographical location of the place of birth of a living subject.
ResidenceInformation 	Residence information about a person who is a non-citizen of the country where healthcare services are being requested or provided.
Organisation 	Information about an organisation. This GPIC will generally be used to describe a healthcare organisation but it may also be used for a non-healthcare organisation (see also HealthcareOrganisation GPIC).
IdentifiedOrganisation 	Information that provides a means of identifying an organisation. This GPIC identifies the organisation only by name and/or by identifier. This GPIC may be used where this level of identification is all that is required or where there is a hierarchy of organisation, e.g. Pathology Department, St. Mary's Hospital and only one level is required to contain full address, telecommunication and other organisational details.
OrganisationHierarchy 	A description of a nested set of identified organisations.
RelatedOrganisation 	Information about a non-healthcare organisation with some relationship to an entity such as another organisation, person, etc. EXAMPLES equipment manufacturer, restaurant from where specimen was taken.
ContactPerson 	A GPIC that provides details about a person that may be used as a contact point at an organisation and their role.

GPIC Name	Description/Use
IdentifiedLivingSubject E	Identification information about a person or animal This GPIC is used where the need is only to confirm the identity of a person or animal, or where a communication has already provided fuller person or animal information elsewhere.
SubjectOfCareIdentification E	Acts as a generalisation of the GPICs used to specify the identification of human and non-human subjects of care using identifier and demographic or breed information This GPIC should only be used where the application or communication description needs to leave open the choice of whether a human or animal subject of care is being identified until run-time. If the application needs to identify exclusively either one of these choices, the appropriate specialisation should be used without reference to this generalisation
SubjectOfCarePersonIdentification E	Information about a person such as name, dob, sex, address, etc. that may be used for identification purposes
SubjectOfCareAnimalIdentification E	Information about an animal that may be used for identification purposes
SubjectOfCar E	Acts as a generalisation of the GPICs used to provide information about human and non-human subjects of care This GPIC is only used where the application needs to leave open the choice of whether a human, animal or group of animals are being specified until run-time. If the application is known to only require to communicate details of one of these choices, the appropriate specialisation should be used which negates the need for this GPIC, i.e. the individual specialisation, SubjectOfCarePerson, SubjectOfCareAnimal and SubjectOfCareAnimalGroup may be used without this generalisation if appropriate

GPIC Name	Description/Use
SubjectOfCarePerson E	A GPIC with a set of information about a person that is, has, or shall be receiving healthcare related services The aim of this GPIC is to provide information that may be needed when a person is in receipt of healthcare services and has three specialisation: — the PatientStandardInformation – which provides the more usually encountered demographic information about a human patient — the PatientExtendedInformation – which provides a more extensive set of information about a human patient than offered above — the IdentifiedLivingSubject – which provides minimal identification information for use where a simple reference is sufficient
PatientStandardInformation E	Provides a 'standard' set of information that may be needed when a person is in receipt of healthcare services.
PatientExtendedInformation E	Provides an extended set of demographic and social information about a human subject of care.
SubjectOfCareAnimal E	Information about an animal that is, has, or shall be receiving healthcare related services The aim of this GPIC is to provide information that may be needed when an animal is in receipt of healthcare services. For the subset of attributes used to identify the animal see the SubjectOfCareAnimalIdentification GPIC.
SubjectOfCareAnimalGroup E	Information about a group of animals that has, or shall be receiving healthcare related services
RelatedSubjectOfCare R	Provides information that may be used to identify a related subject of care. In particular, this GPIC may be used to relate subjects of care together.
SubjectOfCareRelatedParty R	Information about a person or organisation with some relationship to a subject of care. EXAMPLES next of kin, parent, patient's employer, animal's owner
ReferencedSubjectOfCare P	A GPIC which provides a reference to a subject of care that is involved in an activity. Used where there is a need to link an identified subject of care to an activity and where there is no requirement to either detail the nature of the subject of care's participation in the activity nor to provide details of the subject of care other than their identification information.

GPIC Name	Description/Use
ParticipatingSubjectOfCare 	A GPIC which associates a subject of care (person or animal or animal group) with an activity whilst not providing any specific information about the nature of their participation in the activity. This GPIC is use where the subject of care's details are required to be attached to an Act. If only identification information is required, use the IdentifiedLivingSubject GPIC. If the subject of care is human and details of their participation in the activity is required, use the ParticipatingPatient GPIC.
ParticipatingPatient 	A PatientStandardInformation GPIC with a Participation interface which provides patient demographic information and the nature of their participation in some act of service delivery or planning. This GPIC is used where the patient details are required to be attached to an Act. If only patient identification information is required, use the IdentifiedParticipatingPatient GPIC.
IdentifiedParticipatingPatient 	An IdentifiedLivingSubject GPIC with a Participation interface which provides patient identification information and the nature of their participation in some act of service delivery or planning. This GPIC is used where: - details of the nature of the participation of the patient is required - the full patient details are not required to be attached to the activity.
ParticipatingPatientRelatedParty 	A SubjectOfCareRelatedParty GPIC with a Participation interface which provides information about the related party's involvement in some act of service delivery or planning.

GPIC Name	Description/Use
CareServiceReceipient P	The person or animal or animal group that is the primary focus of one or more care services. This is a generalisation of: — ReferencedSubjectOfCare GPIC which is used where the subject of care is human or animal who can be identified by an identifier and where there is no need to specify the nature of their participation in the care service, its request or its planning — ParticipatingSubjectOfCare which is used where the subject of care is human, animal or group of animals and where some details about the subject (e.g. name, address, date of birth, sex) are to be included but where there is no need to specify the nature of their participation in the care service, its request or its planning — IdentifiedParticipatingPatient which is used where the subject of care is human and can be identified by an identifier and where there is a need to specify the nature of their participation in the care service, its request or its planning — ParticipatingPatient which is used where the subject of care is human and where some details about the subject (e.g. name, address, date of birth, sex) are to be included and where there is a need to specify the nature of their participation in the care service, its request or its planning
SubjectOfInvestigation P	Describes the person, animal or analysable object that is the subject of an investigation activity.
HealthcareProfessional R	Information about a person that is involved in the delivery of healthcare services. If the requirement is only to reference a healthcare professional, use the IdentifiedHealthcareProfessional GPIC.
IdentifiedHealthcareProfessional R	Provides a means of referencing an identified healthcare professional. This GPIC will generally be used where there is a directory of healthcare professionals and a reference is all that is required to identify the professional, or in a communication where repeated references are made to the same professional.
RelatedHealthcareProfessional RL	A GPIC which provides a means of linking information about a healthcare professional to information about another healthcare professional, a healthcare organisation or a healthcare device.

GPIC Name	Description/Use
HealthcareOrganisation R	Information that identifies and/or provides a description of the properties of a healthcare organisation. If the requirement is only to reference a healthcare organisation, use the IdentifiedHealthcareOrganisation GPIC.
IdentifiedHealthcareOrganisation R	Provides a means of referencing an identified healthcare organisation. This GPIC will generally be used where there is a directory of healthcare organisations and a reference is all that is required to describe the organisation, or in a communication where repeated references are made to the same organisation.
RelatedHealthcareOrganisation RL	Provides a means of linking information about a healthcare organisation to information about another healthcare organisation, a healthcare professional or a healthcare device.
HealthcareParty R	Provides information about a healthcare party (professional or organisation or combination of). This GPIC is used where it is necessary to leave open whether details of a healthcare professional or healthcare organisation are required until run-time. If the requirement is only to reference an identified professional or organisation, use the IdentifiedHealthcareParty GPIC.
IdentifiedHealthcareParty R	Provides a link to an identified healthcare professional or healthcare organisation. This GPIC is used where it is necessary to leave open whether a healthcare professional or healthcare organisation is being identified until run-time.
HealthcareAgent R	Provides information about a healthcare agent (professional, organisation, device or combination of). This GPIC may be used when it is necessary to leave open whether details of a professional, organisation or device will be required until run-time.
IdentifiedHealthcareAgent R	Provides information about an identified healthcare agent (professional, organisation, device or combination of).
RelatedHealthcareAgent RL	Provides a means of linking information about a healthcare agent to information about another healthcare agent.
ReferencedHealthcareProfessional P	Provides a reference to a healthcare professional that is involved in an activity. This GPIC is used where there is a need to link an identified healthcare professional to an activity. NOTE The healthcare professional details are limited to identification only, and no details of the part played by the healthcare professional are included.

GPIC Name	Description/Use
ReferencedHealthcareOrganisation 	A reference to a healthcare organisation that is involved in an activity. This GPIC is used where there is a need to link an identified healthcare organisation to an activity. NOTE The healthcare professional details are limited to identification only, and no details of the part played by the healthcare professional are included.
ReferencedHealthcareDevice 	A reference to a healthcare device that is involved in an activity. This GPIC is used where there is a need to link an identified healthcare device to an activity. NOTE the healthcare device details are limited to identification only, and no details of the part played by the healthcare device are included.
ReferencedHealthcareParty 	A reference to a healthcare professional or organisation that is involved in an activity. This GPIC is used where there is a need to link an identified healthcare professional or organisation to an activity but there is no need for details other than the identification of the party.
ReferencedHealthcareAgent 	A reference to a healthcare professional, organisation or device that is involved in an activity. This GPIC is used where there is a need to link an identified healthcare professional, organisation or device to an activity but there is no need for details other than the identification of the agent.
ParticipatingHealthcareProfessional 	Details of the healthcare professional and their part played in the delivery of care or the provision of services.
IdentifiedParticipatingProfessional 	Details of the participation in an activity by an identified healthcare professional.
ParticipatingHealthcareOrganisation 	Details of the healthcare organisation with a role connected with the delivery of care or the provision of services. This GPIC may be used where it is inappropriate or not possible to specify a named professional at the organisation.
IdentifiedParticipatingOrganisation 	Details of the participation in an activity by an identified healthcare organisation.
ParticipatingHealthcareParty 	Details of the healthcare party (professional, organisation or combination) and their participation in the delivery of care or the provision of services.

GPIC Name	Description/Use
ParticipatingHealthcareAgent P	Details of the healthcare agent (professional, organisation, device or combination) and their participation in the delivery of care or the provision of services.
Device E	A GPIC providing information about a piece of equipment or a device.
IdentifiedDevice E	Identification information about a piece of equipment or a device.
RelatedDevice R	Information about a piece of equipment or a device in a particular role.
RelatedIdentifiedDevice R	Information about an identified piece of equipment or a device in a particular role.
DeviceInUse P	Information about a piece of equipment or a device that is being used to support the provision of health care.
IdentifiedDeviceInUse P	Information about an identified piece of equipment or a device that is being used to support the provision of health care.
DeviceParameter P	Information about a setting of the equipment/device when used.
CareLocation R	Information about a location where healthcare services are provided. EXAMPLES Patient's home, particular bed on a particular ward in a district hospital.
CareLocationInUse P	Information about a location where healthcare services are administered. Used where an activity needs to be associated with a location.
GeographicLocation R	Information about a non-healthcare specific location. Example: location where sample of groundwater was taken.
LivingSubjectTransportation A	Information about the act of transporting one or more persons or animals. The act of transporting may express the requirement for transport, the ordering of transport or details of actual transportation of the person(s) or animal(s).
NonLivingEntityTransportation A	Information about the act of transporting of samples and specimen.
RelatedLivingSubjectTransportation AR	Information about the transportation of persons or animals as described in the LivingSubjectTransportation GPIC that is related to another Act (e.g. appointment, investigation).

GPIC Name	Description/Use
RelatedNonLivingEntityTransportati AR	Information about the transportation of analysable objects as described in the NonLivingEntityTransportation GPIC that is related to another Act.
CareCost AR	Information about the cost(s) associated with care delivery.
Authorisation AR	Information about the authorisation to proceed with the provision of care services.
Service Agreement AR	Information about a contract or service agreement covering healthcare service provision.

9 General Purpose Information Components

9.1 Living Subject GPICs

9.1.1 Overview (informative)

This subclause contains GPICs that describe:

- Persons;
- language use and ability in language of persons or organisations (strictly persons in organisations).

For GPICs describing persons acting as patients see:

- Subject of Care Identification GPICs (9.3);
- Subject of Care GPICs (9.4).

For GPICs describing a person acting as a healthcare professional see:

- Healthcare Professional GPICs (9.8).

For GPICs describing persons in other roles see:

- Contact Person (9.2.6);
- Related Subject of Care (9.5.2);
- Subject of Care Related Party (Section 9.5.3).

9.1.2 Person

9.1.2.1 General description

GPIC Name	
Person	GPIC_ID = 2.006 E
Description	General demographic information about a person.
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: Role
Notes	This GPIC may be used to provide a set of general information that might be collected about persons that are involved in healthcare. This GPIC is only concerned with details about these people as persons, and says nothing about the roles they are playing. If the person is in the role of patient, use either PatientStandardInformation or PatientExtended Information GPIC as a part of the SubjectOfCarePerson GPIC. If the person is in the role of patient and the need is only to provide information which may be used to identify the patient's record, use IdentifiedLivingSubject or SubjectOfCarePersonIdentification GPIC.
UML Representation	
External Interface <pre> classDiagram class Person { classCode: CS determinerCode: CS id: SET<II> name: SET<EntityName> addr: SET<PostalAddress> } class LanguageCommunicationGPIC Person "1" -- "0..*" LanguageCommunicationGPIC </pre>	

9.1.2.2 Person GPIC Core Class

Person E			
Description	General demographic information about a person.		
HL7 RIM Class	Person		
Related GPIC (optional extension)		Type of Relationship	Cardinality
LanguageCommunication		Association	0 to many
Attributes	O	Type	Description
classCode	M	CS	Fixed value = PSN (person).
determinerCode	M	CS	Fixed value = INST (instance of).
id	O	SET<II>	Identifier(s) that may be used to uniquely identify the person. NOTE Often not applicable unless a particular role is adopted by the person, e.g. patient, employee. However, in some cases a social security or health number may be generally applicable to the person in a number of roles.
name	O	SET<II>	A name or names by which the person is, or has been, known. EXAMPLES: current name, previous name, birth name. NOTE A person may have more than one name. These may be whole names or qualified part names (e.g. previous surname).
addr	O	SET<Entity Name>	Address(es) associated with the person. NOTE A Person may be associated with more than one address. This may be qualified by address type and by time or time interval.
telecom	O	SET<PostalAddress>	Communication numbers or URL associated with the person.
administrativeGenderCode	O	CS	Gender of the person VALUES: 0 = male 1 = female 2 = intersex (not generably usable in non-patient contexts) 9 = UNKNOWN

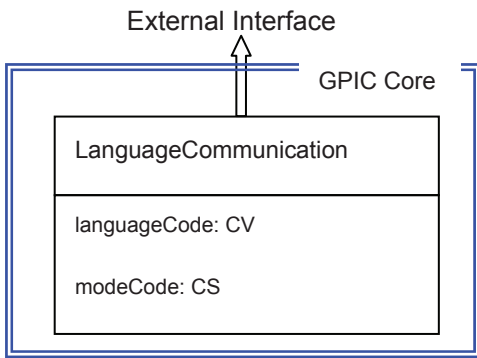
birthTime	O	TS	Date and possibly time of birth. NOTE 1 It is permissible to use just a date or possibly a year as a birth time (i.e. a fuzzy date). NOTE 2 It is possible that a day and month be known but not the exact year.
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9.1.2.3 Person GPIC Extension (informative)

LanguageCommunication GPIC (2.007)	
Description	Information about the language(s), mode(s) of communication and competence of the person in this form of communication.
Occurrences	Each instance of the Person GPIC may be associated with zero to many instances of LanguageCommunication GPIC.
Examples	Speaks English poorly, uses Danish signing fluently, reads Urdu.

9.1.3 Language Communication

9.1.3.1 General description

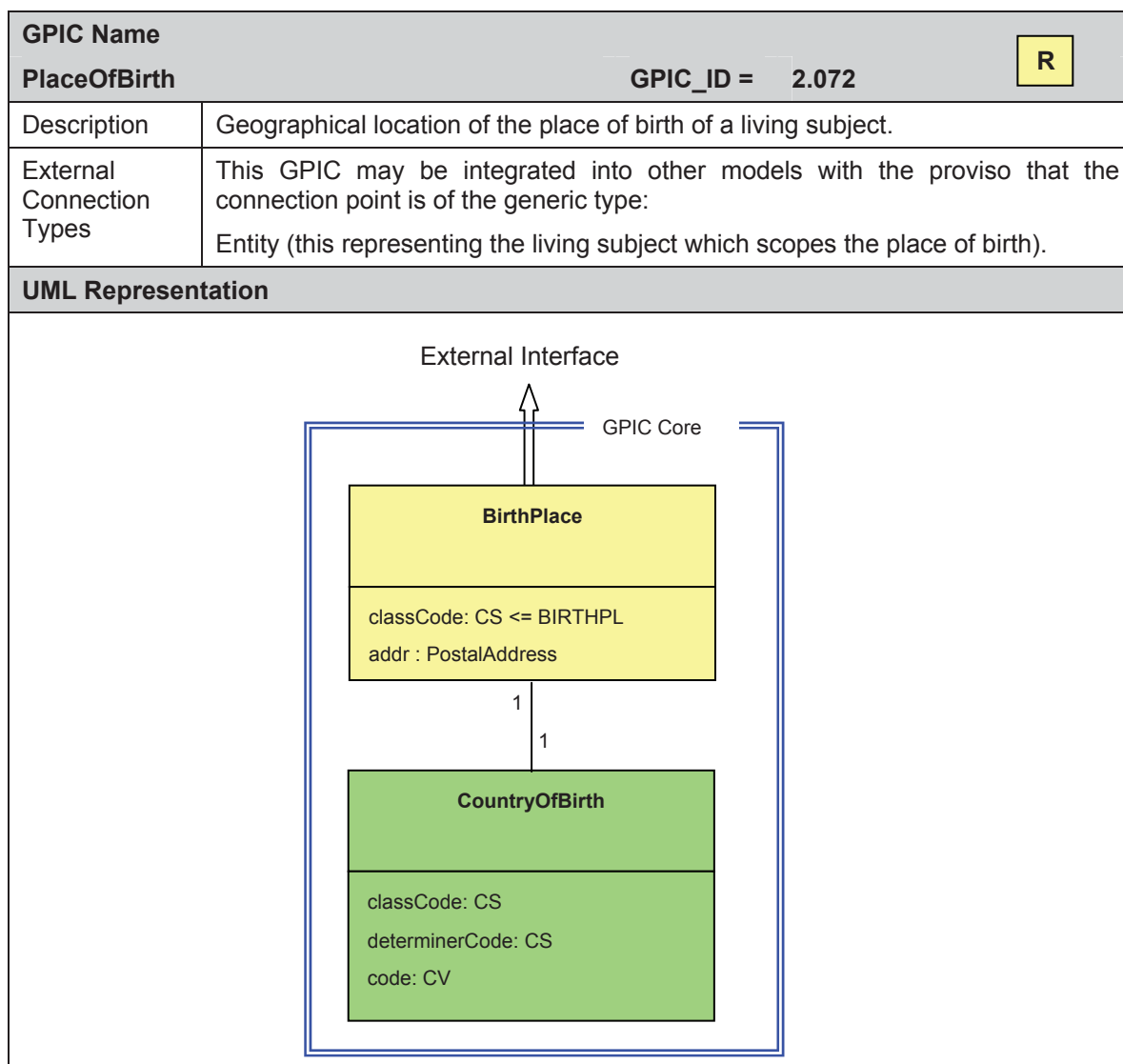
GPIC Name	
LanguageCommunication	GPIC_ID = 2.007
Description	Language communication capabilities for a person or group of persons.
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: Entity (limited to person or organisation).
Notes	This language communication GPIC may be associated with a particular person, for example a patient, related person or healthcare professional, OR with a group of persons within an organisation. In this latter case, the GPIC may be associated with the organisation although it strictly represents the language abilities of persons within the organisation.
UML Representation	
	

9.1.3.2 Language Communication GPIC Core Class

LanguageCommunication			
Description	Language communication capabilities for a person or group of persons, showing the languages with which the person(s) can communicate, the mode of communication (speak, read, write, sign), the proficiency in that communication, and the person's (persons') preference.		
HL7 Class	RIM	LanguageCommunication	
Attributes	O	Type	Description
languageCode	M	CV	A code indicating the language being communicated by the person(s) (e.g. Spanish, Italian, German).
modeCode	O	CS	A code depicting the method of expression of the language VALUES: — ESGN = expressed signed — ESP = expressed spoken — EWR = expressed written — RSGN = received signed — RSP = received spoken — RWR = received written
preferenceInd	O	BL	An indication of whether or not the language is one preferred by the person(s) for the indicated mode.
proficiencyLevelCode	O	CS	A code classifying the level of proficiency in the language. VALUES: — E = excellent — F = fair — G = good — P = poor

9.1.4 Place of Birth

9.1.4.1 General description



9.1.4.2 Place Of Birth GPIC Core Class

PlaceOfBirth R			
Description	Provides any relevant details of a living subject's place of birth except a code representing the country of birth.		
HL7 Class	RIM	Role	
Related Class		Type of Relationship	Cardinality
CountryOfBirth		Association	1
Attributes	O	Type	Description
classCode	M	CS	Fixed value = BIRTHPL
addr	O	PostalAddress	Specifies the place where the living subject was born. This will generally be limited to a region, town or city. A country may be included here as text but should also be included as a code in the class CountryOfBirth. NOTE If this attribute is not included then a valid country code should be included in the class CountryOfBirth.

CountryOfBirth E			
Description	Identifies as a code the country where a living subject was born.		
HL7 Class	RIM	Entity	
Related Class		Type of Relationship	Cardinality
PlaceOfBirth		Association	1
Attributes	O	Type	Description
classCode	M	CS	Fixed value = LIV (living subject).
determinerCode	M	CS	Fixed value: INST (instance of).
code	M	CV	Code representing the place of birth.

9.1.5 Residence Information

9.1.5.1 General description

GPIC Name	
ResidenceInformation	GPIC_ID = 2.073 R
Description	Residence information about a person who is a non-citizen of the country where healthcare services are being requested or provided.
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: Entity (the person that is the subject of this residence information).
UML Representation	
The UML diagram shows a 'GPIC Core' box containing two classes: 'ResidenceInformation' (yellow) and 'CountryOfOrigin' (green). 'ResidenceInformation' has attributes 'classCode: CS <= CIT' and 'effectiveTime: TS'. 'CountryOfOrigin' has attributes 'classCode: CS', 'determinerCode: CS', and 'code: CV'. A 1-to-1 association connects them. Above the core is an 'External Interface' box with a double line and an arrow pointing to the core. <pre> classDiagram class GPIC_Core { class ResidenceInformation { classCode: CS <= CIT effectiveTime: TS } class CountryOfOrigin { classCode: CS determinerCode: CS code: CV } ResidenceInformation "1" -- "1" CountryOfOrigin } class External_Interface { } GPIC_Core --> External_Interface </pre>	

9.1.5.2 Immigrant Information GPIC Core Class

ResidenceInformation R			
Description	Provides any relevant details of a person's status regarding the basis for continuing residence and/or basis for claiming healthcare services.		
HL7 Class	RIM	Role	
Related Class		Type of Relationship	Cardinality
CountryOfOrigin		Association	1
Attributes	O	Type	Description
classCode	M	CS	Fixed value = CIT (citizen).
effectiveTime	O	TS	Date at which the person entered the country.
code	O	CV	Code indicating either: legal basis for continuing residence, basis for claiming healthcare services. NOTE Which of the above two are utilise will depend upon the particular context and will be reflected in the coding scheme used to provide the code values.
certificateText	O	ED	Allows electronic versions of E111 or other certification documents to be included.

CountryOfOrigin E			
Description	Identifies as a code the country from where the person came when entering the country. NOTE This may not be the immediately preceding country when a person has been in transit.		
HL7 Class	RIM	Entity	
Related Class		Type of Relationship	Cardinality
PlaceOfOrigin		Association	1
Attributes	O	Type	Description
classCode	M	CS	Fixed value = LIV (living subject)
determinerCode	M	CS	Fixed value: INST (instance of)
code	M	CV	Code representing the place of origin prior to entry

9.2 Organisation Related GPICs

9.2.1 Overview (informative)

This subclause contains GPICs that may be used to:

- describe an organisation;
- identify an organisation;
- describe a hierarchy of organisations;
- describe an organisation with some relationship with some other entity and the nature of the relationship (e.g. patient's insurer, device manufacturer);
- identify contact persons at an organisation.

For GPICs describing an organisation acting as healthcare organisations see:

- Healthcare Organisations (9.9).

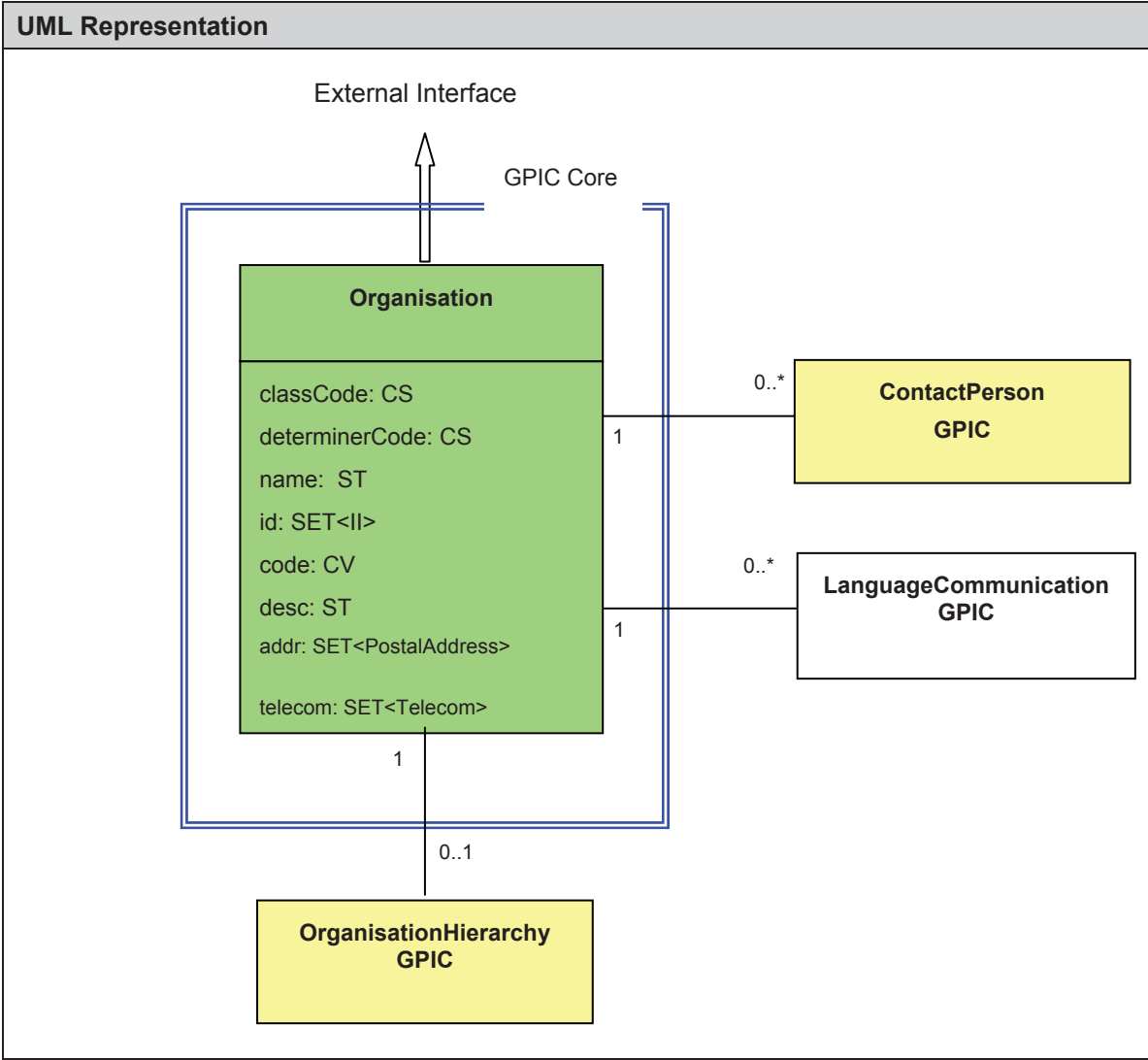
For GPICs describing organisations in other roles see:

- Subject of Care Related Party (9.5.3).

9.2.2 Organisation

9.2.2.1 General description

GPIC Name			E
Organisation		GPIC_ID = 2.008	
Description	Information about an organisation.		
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: Role.		
Examples	GP practice, district hospital, nursing home, cement factory, medicinal product supplier.		
Note	This GPIC will generally be used to describe a healthcare organisation but it may also be used for a non-healthcare organisation. If the need is to describe a healthcare organisation, see the HealthcareOrganisation GPIC.		



9.2.2.2 Organisation GPIC Core Class

Organisation				E
Description		Identifies and provides basic information about the organisation.		
HL7 Class	RIM	Organization		
Related GPIC (optional extensions)		Type of Relationship		Cardinality
OrganisationHierarchy		Association		0 or 1
ContactPerson		Association		0 to many
LanguageCommunication		Association		0 to many
Attributes		O	Type	Description
classCode		M	CS	Fixed value = ORG (organisation).

determinerCode	M	CS	VALUES: — INST (instance of) Used where a particular organisation is being described — KIND Used where a class or type of organisation is being specified.
name	O	ST	A name that is commonly used as a descriptor for the organisation. NOTE Should be provided in all cases where the determinerCode = INST.
id	O	SET<II>	Identifiers for the organisation.
code	O	CV	Nature of business or specialty of the organisation. EXAMPLES Nursing home, pathology department.
desc	O	ST	Free text description of the organisation.
addr	O	SET<PostalAddress>	Addresses associated with the organisation.
telecom	O	SET<Telecom>	Telephone, fax, URL, etc associated with the organisation.

9.2.2.3 Organisation GPIC Extensions (informative)

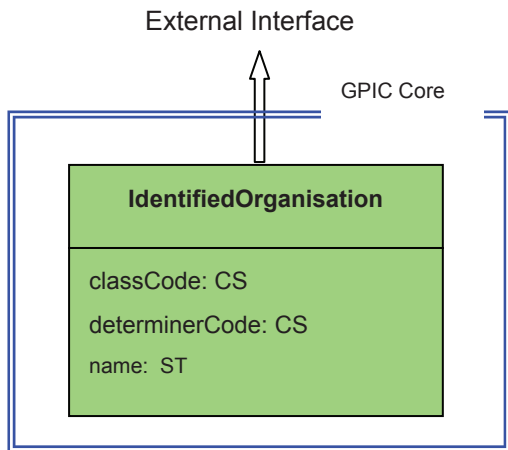
OrganisationHierarchy GPIC (2.008) R	
Description	Identification of an organisation which acts as a parent or containing organisation to the one described above.
Occurrences	Each instance of the Organisation GPIC may be associated with zero or one instance of OrganisationHierarchy GPIC.
Notes	The OrganisationHierarchy GPIC is recursive, thus allowing the parent organisation to refer to its parent organisation. The parent organisation may only be referred to by name and identifier, not by its full information such as address, telecommunication numbers, etc.

ContactPerson GPIC (2.012) R	
Description	Information about a person who is a contact point at the organisation.
Occurrences	Each instance of the Organisation GPIC may be associated with zero to many instances of ContactPerson GPIC.

LanguageCommunication GPIC (2.007)

Description	Information about the language(s) and associated mode(s) of communication provided by the organisation.
Occurrences	Each instance of the Organisation GPIC may be associated with zero to many instances of LanguageCommunication GPIC.
Examples	Urdu speaker, German speaker, English sign.

9.2.3 Identified Organisation**9.2.3.1 General description**

GPIC Name		E
IdentifiedOrganisation		GPIC_ID = 2.009
Description	Information that provides a means of identifying an organisation.	
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: — Role.	
Use	This GPIC identifies the organisation only by name and/or by identifier. This GPIC may be used where this level of identification is all that is required or where there is a hierarchy of organisation, e.g. Pathology Department, St. Mary's Hospital and only one level is required to contain full address, telecommunication and other organisational details.	
UML Representation		
External Interface  GPIC Core		

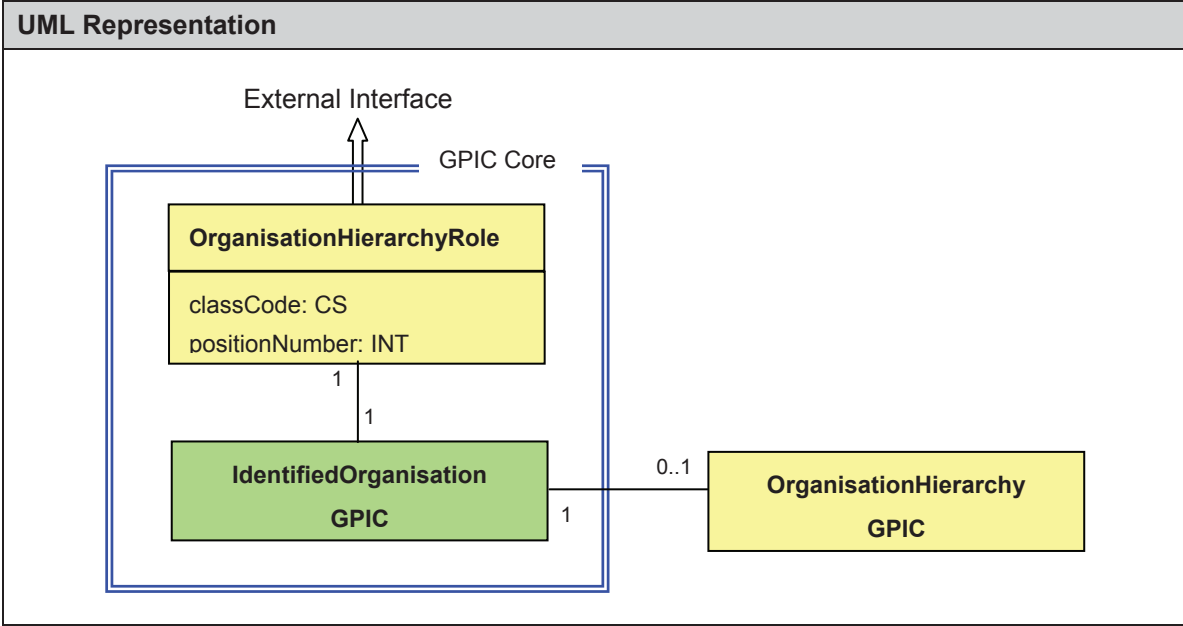
9.2.3.2 Identified Organisation GPIC Core Classes

IdentifiedOrganisation E			
Description	Identifies and provides basic identification information about the organisation.		
HL7 RIM Class	Organization		
Note	The organisation shall be identified either by a name (if this is sufficient in a given communication environment) or by an agreed identifier, or both.		
Attributes	O	Type	Description
classCode	M	CS	Fixed value = ORG (organisation).
determinerCode	M	CS	Fixed value = INST (instance of).
name	O	ST	A name that is commonly used as a descriptor for the organisation.
id	O	II	Identifier for the organisation.

9.2.4 Organisation Hierarchy

9.2.4.1 General description

GPIC Name R		
OrganisationHierarchy	GPIC_ID =	2.010
Description	A description of a nested set of identified organisations.	
External Connection Types	This GPIC may be integrated into other models with the proviso that the connection point is of the generic type: Entity limited to an instance of one of the following: — Organisation GPIC OR — IdentifiedOrganisation GPIC OR — the IdentifiedOrganisation GPIC within an instance of the OrganisationHierarchy GPIC.	
Example	Haematology Department, (within) Hope Hospital, (within) Salford Healthcare NHS Trust	



9.2.4.2 Organisation Hierarchy GPIC Core Classes

OrganisationHierarchyRole					R
Description		Provides a link between an organisation and its parent organisation.			
HL7 Class	RIM	Role			
Related GPIC			Type of Relationship	Cardinality	
IdentifiedOrganisation			Association	1	
Attributes	O	Type	Description		
classCode	M	CS	Fixed value = ROL (role)		
positionNumber	O	INT	May be used to denote a hierarchical level.		

IdentifiedOrganisation GPIC (2.009)					E
Description		Identifies and provides basic identification information about the organisation.			
Related Class			Type of Relationship	Cardinality	
OrganisationHierarchyRole			Association	1	
Related GPIC (optional extension)			Type of Relationship	Cardinality	
OrganisationHierarchy			Association	0 or 1	