Health & Care Information Model:

nl.nfu.Patient-v2.0.1

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Better health
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Nictiz

Content

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1. nl.nfu.Patient-v2.0.1

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	14-6-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	NFU
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.0.1
DCM::KeywordList	Patient, zorgverlener, contact
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.nfu.Patient
DCM::PublicationDate	1-4-2015
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	22-5-2015
DCM::Superseeds	
DCM::Version	2.0.1
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)
-

Publicatieversie 1.1 (01-07-2013)
Bevat: ZIB-33.

Publicatieversie 2.0 (01-04-2015)
Bevat: ZIB-62, ZIB-67, ZIB-96, ZIB-97, ZIB-98, ZIB-99, ZIB-100, ZIB-102, ZIB-121, ZIB-257, ZIB-258, ZIB-259, ZIB-260, ZIB-261, ZIB-262, ZIB-303, ZIB-308, ZIB-349, ZIB-350, ZIB-351, ZIB-353.

Incl. algemene wijzigingsverzoeken:
ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 2.0.1 (22-05-2015)
Bevat: ZIB-385, ZIB-374.

1.2 Concept

A person who receives medical care.

1.3 MindMap

1.4 Purpose

Recording relevant information to identify the patient for administrative purposes and process support.

1.5 Patient Population

1.6 Evidence Base

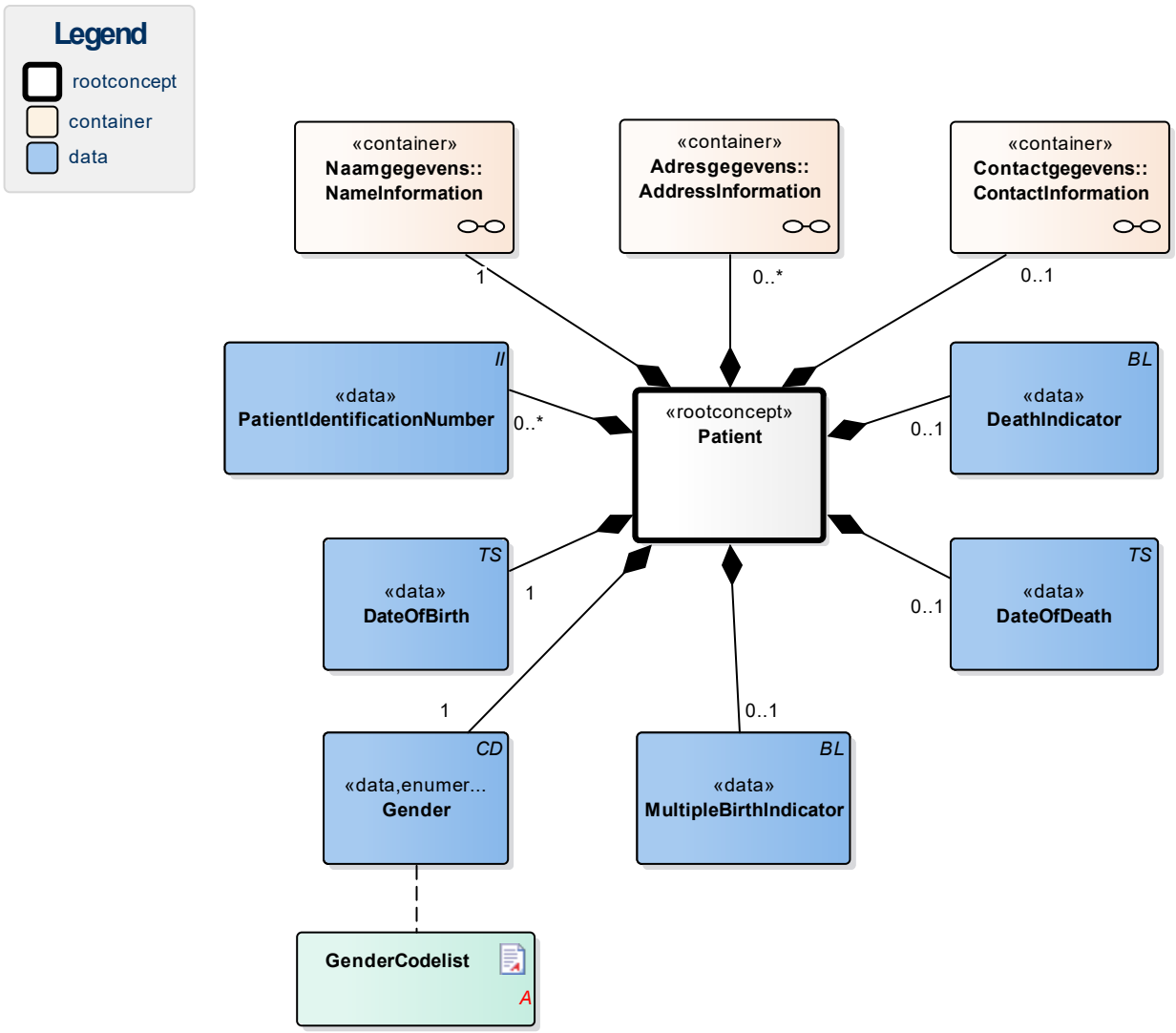
The name and address information is based on the information set of the Municipal Personal Records Database (GBA) and on the Dutch Implementation Guide: HL7v3 Basic Components.

The information for the legally required verification of a social security number provided by the SBV-Z also follows GBA specifications.

Furthermore, the AZR (AWBZ-wide healthcare registration) data set used in AWBZ healthcare served as a base in determining the set.

Use of patient and personal details must follow the Personal Data Protection Act. This law prohibits processing non-essential personal data and mandates decent and reasonable processing of obtained personal data (Kohnstamm, 2006). Patient data recorded in (electronic) patient records or in digital messages must be handled in the context of the Personal Data Protection Act. Furthermore, healthcare centers must meet the Information Security NEN 7510 standard. Observance of the PDPA is monitored by the Dutch Data Protection Authority (CBP). The CBP and the Healthcare Inspectorate (IGZ) are jointly responsible for monitoring information security in healthcare (CBP, IGZ, 2008).
For those reasons, some personal data, seen in some countries as administrative data, are not included in this building block but in the building blocks for the Social Anamnesis.

1.7 Information Model



«rootconcept»	Patient	
Definitie	Root concept of the Patient building block. This root concept contains all data elements of the Patient building block.	
Datatype		
DCM::ConceptId	NL-CM:0.1.1	
Opties		

«data»	PatientIdentificationNumber	
Definitie	The patient's identification number. In transfer situations, use of the social security number (BSN) must comply with the Use of Social Security Numbers in Healthcare Act (Wbsn-z). In other situations, other number systems can be used, such as internal hospital patient numbers for example.	
Datatype	II	
DCM::AssigningAuthority	Burgerservicenummer	OID: 2.16.840.1.113883.2.4.6.3
DCM::ConceptId	NL-CM:0.1.7	
DCM::ExampleValue	111222333	
Opties		

«data»	DateOfBirth
Definitie	Patient's date of birth. The date of birth is mandatory for a patient. A vague

	date (such as only the year) is permitted.	
Datatype	TS	
DCM::ConceptId	NL-CM:0.1.10	
DCM::DefinitionCode	SNOMED CT: 184099003 Date of birth	
DCM::ExampleValue	22-03-1999	
Opties		

«data»	Gender	
Definitie	Patient's administrative gender.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.9	
DCM::DefinitionCode	SNOMED CT: 263495000 Gender	
DCM::ExampleValue	Female	
DCM::ValueSet	GenderCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.1
Opties		

«data»	MultipleBirthIndicator	
Definitie	An indication stating whether the patient is of a multiple birth.	
Datatype	BL	
DCM::ConceptId	NL-CM:0.1.31	
DCM::ExampleValue	Nee	
Opties		

«data»	DeathIndicator	
Definitie	An indication stating whether the patient has died.	
Datatype	BL	
DCM::ConceptId	NL-CM:0.1.32	
DCM::ExampleValue	Nee	
Opties		

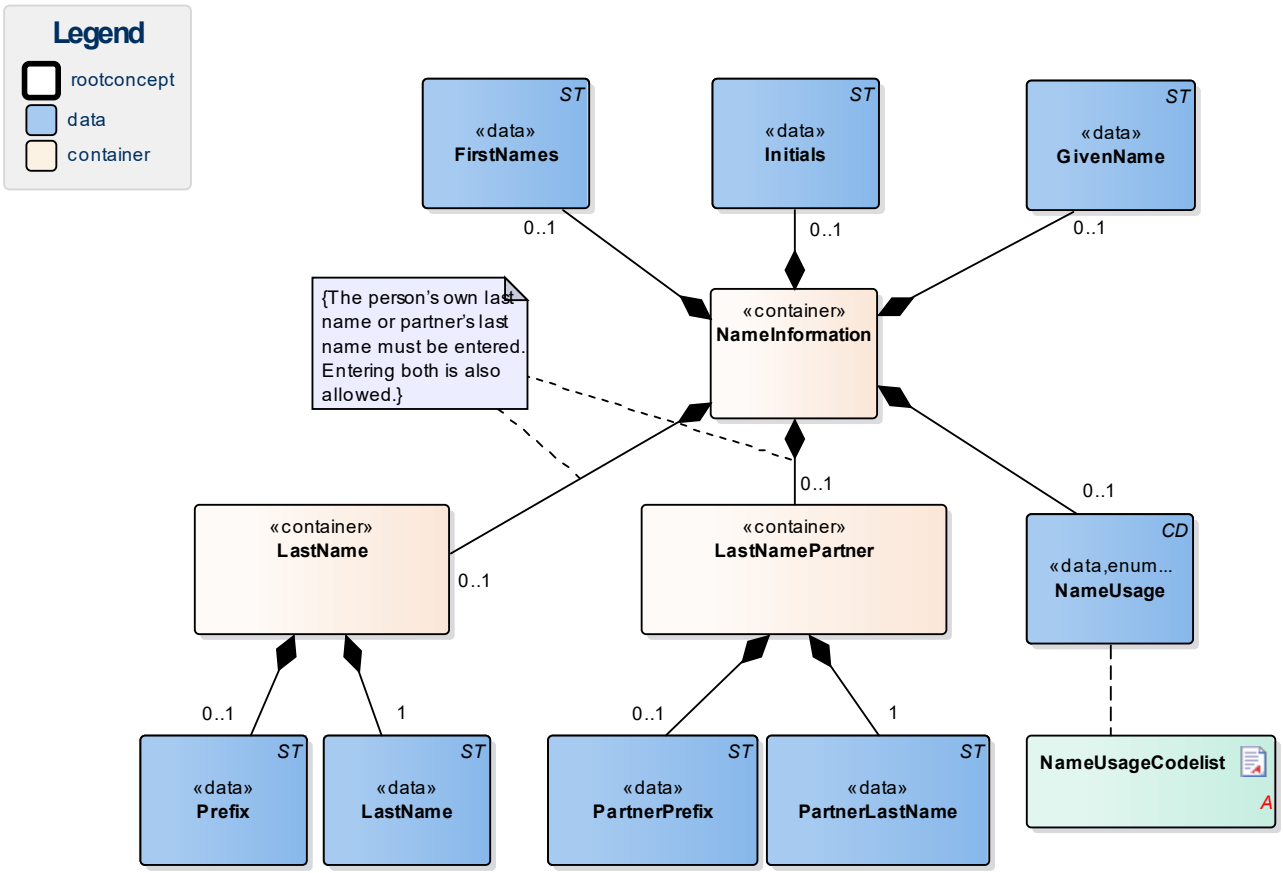
«data»	DateOfDeath	
Definitie	The date on which the patient died. A 'vague' date, such as only the year, is permitted.	
Datatype	TS	
DCM::ConceptId	NL-CM:0.1.33	
Opties		

«document»	GenderCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.0.1.1	
Opties		

GeslachtCodelijst	**OID:** **2.16.840.1.113883.2.4.3.11.60.40.2.0.1.1**

Concept Name	Concept Code	CodeSystem	CodeSystem OID	Description
Undifferentiated	UN	AdministrativeGender	2.16.840.1.113883.5.1	Ongedifferentieerd
Male	M	AdministrativeGender	2.16.840.1.113883.5.1	Man
Female	F	AdministrativeGender	2.16.840.1.113883.5.1	Vrouw
Unknown	UNK	NullFlavors	2.16.840.1.113883.5.1008	Onbekend

1.7.1 Naamgegevens



«container»	NameInformation	
Definitie	Container of the NameInformation concept. This container contains all data elements of the NameInformation concept.	
Datatype		
DCM::ConceptId	NL-CM:0.1.6	
Opties		

«data»	FirstNames	
Definitie	The person's official first names.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.26	
DCM::ExampleValue	Johanna Petronella Maria	

Opties	

«data»	Initials	
Definitie	The person’s initials.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.35	
DCM::ExampleValue	J.P.M.	
Opties		

«data»	GivenName	
Definitie	The name normally used to address the person.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.27	
DCM::ExampleValue	Jo	
Opties		

«data»	NameUsage	
Definitie	This concept indicates the last name or order of last names with which the person is to be addressed.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.34	
DCM::ExampleValue	Geslachtsnaam partner gevolgd door eigen geslachtsnaam	
DCM::ValueSet	NameUsageCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.6
Opties		

«container»	LastName	
Definitie	Container of the LastName concept. This container contains all data elements of the LastName concept.	
Datatype		
DCM::ConceptId	NL-CM:0.1.36	
Opties		

«data»	Prefix	
Definitie	Prefix to the person’s own last name.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.38	
DCM::ExampleValue	van	
Opties		

«data»	LastName	
Definitie	Last name, given at birth.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.24	
DCM::ExampleValue	Putten	
Opties		

«container»	LastNamePartner	
Definitie	Container of the LastNamePartner concept. This container contains all data elements of the LastNamePartner concept.	
Datatype		
DCM::ConceptId	NL-CM:0.1.37	
Opties		

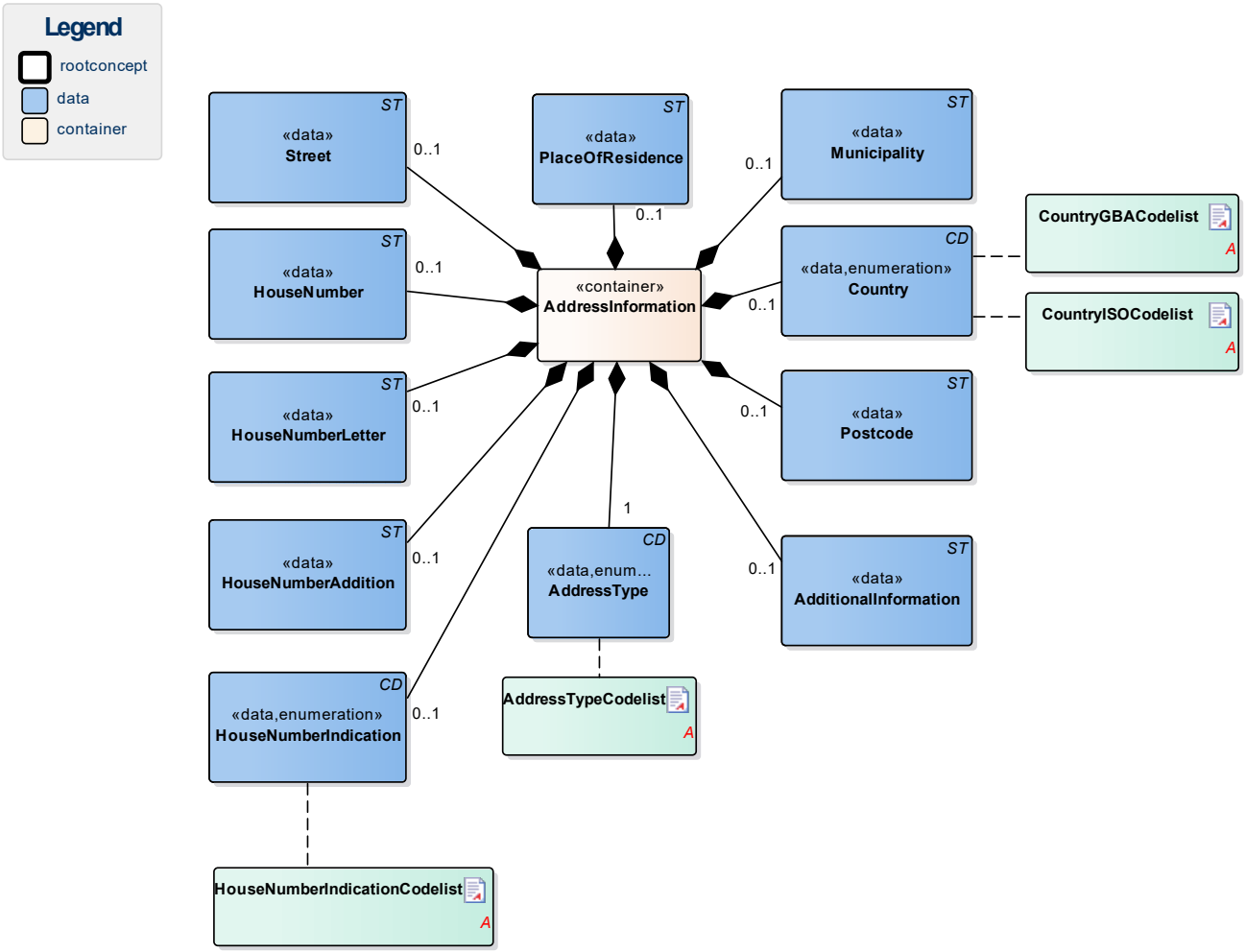
«data»	PartnerPrefix	
Definitie	Prefix to the partner's last name.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.39	
DCM::ExampleValue	van der	
Opties		

«data»	PartnerLastName	
Definitie	Partner's last name, given at birth.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.25	
DCM::ExampleValue	Giessen	
Opties		

«document»	NameUsageCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.6	
Opties		

NaamgebruikCodelijst	**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.6**			
Concept Name	**Concept Code**	**CodeSystem**	**CodeSystem OID**	**Description**
Eigen geslachtsnaam	NL1	NaamGebruik	2.16.840.1.113883.2.4.3.11.60.101.5.4	Eigen geslachtsnaam
Geslachtsnaam partner	NL2	NaamGebruik	2.16.840.1.113883.2.4.3.11.60.101.5.4	Geslachtsnaam partner
Geslachtsnaam partner gevolgd door eigen geslachtsnaam	NL3	NaamGebruik	2.16.840.1.113883.2.4.3.11.60.101.5.4	Geslachtsnaam partner gevolgd door eigen geslachtsnaam
Eigen geslachtsnaam gevolgd door geslachtsnaam partner	NL4	NaamGebruik	2.16.840.1.113883.2.4.3.11.60.101.5.4	Eigen geslachtsnaam gevolgd door geslachtsnaam partner
Unknown	UNK	NullFlavors	2.16.840.1.113883.5.1008	Onbekend

1.7.2 Adresgegevens



«container»	AddressInformation	
Definitie	Container of the AddressInformation concept. This container contains all data elements of the AddressInformation concept.	
Datatype		
DCM::ConceptId	NL-CM:0.1.4	
Opties		

«data»	Street	
Definitie	Street name of the address.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.12	
DCM::ExampleValue	1e Jacob van Campenstr	
Opties		

«data»	HouseNumber	
Definitie	House number of the address.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.13	
DCM::ExampleValue	15	
Opties		

«data»	HouseNumberLetter

Definitie	A letter following the house number as assigned by the municipal authorities.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.40	
DCM::ExampleValue	E	
Opties		

«data»	HouseNumberAddition	
Definitie	The letters or signs needed to locate the mailbox, in addition to the house number and letter.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.41	
DCM::ExampleValue	Twee hoog achter	
DCM::ExampleValue	Rood	
Opties		

«data»	HouseNumberIndication	
Definitie	The indication used for addresses which do not consist of the usual street name and house number.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.42	
DCM::ValueSet	HouseNumberIndicationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.7
Opties		

«data»	Postcode	
Definitie	Postcode of the address. In Dutch addresses, preferably use the postcode from the Postcode table (OID: 2.16.840.1.113883.2.4.4.15).	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.15	
DCM::ExampleValue	1012 NX	
Opties		

«data»	PlaceOfResidence	
Definitie	A geographically determined area which forms part of the municipal area. For Dutch places of residence, preferably use the name from the GBA, table 33 (OID: 2.16.840.1.113883.2.4.6.14).	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.14	
DCM::ExampleValue	Hoogmade	
Opties		

«data»	Municipality	
Definitie	Municipality of residence. For Dutch municipalities, preferably use the name from the GBA, table 33 (OID: 2.16.840.1.113883.2.4.6.14).	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.16	

DCM::ExampleValue	Kaag en Braassem	
Opties		

«data»	Country	
Definitie	Country in which the address is located.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.17	
DCM::ExampleValue	Nederland	
DCM::ValueSet	CountryISOCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.8
DCM::ValueSet	CountryGBACodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.9
Opties		

«data»	AdditionalInformation	
Definitie	Extra information such as the building name, building number, entrance, route number.	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.28	
DCM::ExampleValue	Huis Zon en Licht	
Opties		

«data»	AddressType	
Definitie	The type of address in question, such as a home address or mailing address.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.11	
DCM::ExampleValue	Officieel adres	
DCM::ValueSet	AddressTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.2
Opties		

«document»	CountryGBACodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.9	
Opties		

LandGBACodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.9**
Codes	Coding Syst. Name	Coding System OID
Alle waarden	GBA Tabel 34 (Landentabel)	2.16.840.1.113883.2.4.4.16.34

«document»	CountryISOCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.8	
Opties		

LandISOCodelijst	**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.8**

Codes	Coding Syst. Name	Coding System OID
Alle waarden	ISO 3166-1 (alpha-2)	1.0.3166.1.2.2

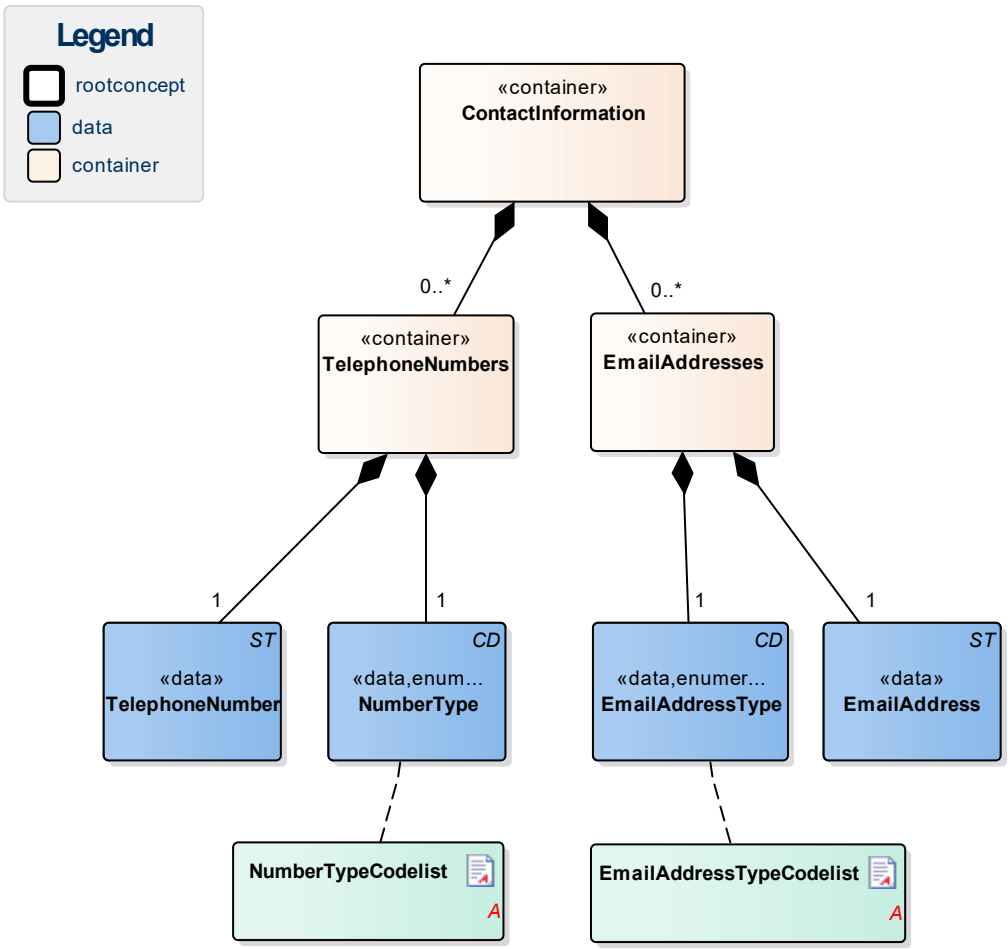
«document»	HouseNumberIndicationCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.7	
Opties		

AanduidingBijNummerCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.7	
ConceptName	**Code**	**Code System**	**Code System OID**	**Description**
Tegenover	to	AanduidingBijHuisnummer	2.16.840.1.113883.2.4.3.11.60.101.5.3	Tegenover
Bij	by	AanduidingBijHuisnummer	2.16.840.1.113883.2.4.3.11.60.101.5.3	Bij

«document»	AddressTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.2	
Opties		

AdresSoortCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.2	
ConceptName	**Code**	**Code System**	**Code System OID**	**Description**
Postal Addres	PST	AddressUse	2.16.840.1.113883.5.1119	Postadres
Primary Home	HP	AddressUse	2.16.840.1.113883.5.1119	Officieel adres
Visit Address	PHYS	AddressUse	2.16.840.1.113883.5.1119	Woon-/verblijfadres
Tempory Address	TMP	AddressUse	2.16.840.1.113883.5.1119	Tijdelijk adres
Work Place	WP	AddressUse	2.16.840.1.113883.5.1119	Werkadres
Vacation Home	HV	AddressUse	2.16.840.1.113883.5.1119	Vakantie adres

1.7.3 Contactgegevens



«container»	ContactInformation
Definitie	Container of the ContactInformation concept. This container contains all data elements of the ContactInformation concept.
Datatype	
DCM::ConceptId	NL-CM:0.1.5
Opties	

«container»	TelephoneNumbers
Definitie	Container of the TelephoneNumbers concept. This container contains all data elements of the TelephoneNumbers concept.
Datatype	
DCM::ConceptId	NL-CM:0.1.21
Opties	

«data»	TelephoneNumber
Definitie	The patient's telephone number.
Datatype	ST
DCM::ConceptId	NL-CM:0.1.23
DCM::ExampleValue	+31612341234
Opties	

«data»	NumberType
Definitie	NumberType indicates whether the number is a landline, temporary, work or mobile telephone number.

Datatype	CD	
DCM::ConceptId	NL-CM:0.1.22	
DCM::ExampleValue	Mobiel telefoonnummer	
DCM::ValueSet	NumberTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.3
Opties		

«container»	EmailAddresses	
Definitie	Container of the E-mailAddresses concept. This container contains all data elements of the E-mailAddresses concept.	
Datatype		
DCM::ConceptId	NL-CM:0.1.18	
Opties		

«data»	EmailAddress	
Definitie	The patient's e-mail address	
Datatype	ST	
DCM::ConceptId	NL-CM:0.1.20	
Opties		

«data»	EmailAddressType	
Definitie	E-mailAddressType indicates whether it is a private or business e-mail address.	
Datatype	CD	
DCM::ConceptId	NL-CM:0.1.19	
DCM::ExampleValue	Zakelijk e-mailadres	
DCM::ValueSet	EmailAddressTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.4
Opties		

«document»	NumberTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.3	
Opties		

NummerSoortCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.3**	
ConceptName	**Code**	**Code System**	**Code System OID**	**Description**
Primary Home	HP	AddressUse	2.16.840.1.113883.5.1119	Telefoonnummer thuis
Tempory Address	TMP	AddressUse	2.16.840.1.113883.5.1119	Tijdelijk telefoonnummer
Work Place	WP	AddressUse	2.16.840.1.113883.5.1119	Zakelijk telefoonnummer
Mobile Contact	MC	AddressUse	2.16.840.1.113883.5.1119	Mobiel telefoonnummer
Pager	PG	AddressUse	2.16.840.1.113883.5.1119	Pieper

«document»	EmailAddressTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.0.1.4	
Opties		

EmailSoortCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.4	
ConceptName	**Code**	**Code System**	**Code System OID**	**Description**
Primary Home	HP	AddressUse	2.16.840.1.113883.5.1119	Privé e-mailadres
Work Place	WP	AddressUse	2.16.840.1.113883.5.1119	Zakelijk e-mailadres

1.8 Example Instances

Patiënt	
Naamgegevens	
PatiëntIdentificatienummer	111222333
Achternaam	Putten
Voorvoegsels	van
AchternaamPartner	Giessen
VoorvoegselsPartner	van der
Voornamen	Johanna Petronella Maria
Initialen	J.P.M.
Roepnaam	Jo
Geslacht	Vrouw
Geboortedatum	28-04-1934
MeerlingIndicator	Ja
OverlijdensIndicator	Nee
DatumOverlijden	
Adresgegevens*	
Straat	1e Jacob van Campenstr
Huisnummer	15
Woonplaats	Hoogmade
Gemeente	Kaag en Braassem
Postcode	1012 NX
AdresSoort	Woon-/verblijfadres
Land	Nederland
Adresgegevens*	
Straat	Stationsstraat
Huisnummer	11
Woonplaats	Alphen aan den Rijn
Gemeente	
Postcode	2406 AB
AdresSoort	Officieel adres
Land	
Telefoonnummers*	
Telefoonnummer	+31611234567
NummerSoort	Mobiel telefoonnummer
EmailAdressen*	
EmailAdres	giesput@myweb.nl
EmailSoort	Privé e-mailadres

* Meer dan één adres, telefoonnummer en email adres is mogelijk

1.9 Instructions

If both a name and an identification number are given, the name must match the name registered under that identification number, for verification purposes.

1.10 Interpretation

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1. DCM Patientgegevens V0.91. [Online] Beschikbaar op: http://www.nictiz.nl/uploaded/FILES/htmlcontent/dcm/Nictiz/DCMPatientgegevens_V_0.91loNL.pdf [Geraadpleegd: 23 februari 2015].

2. Implementatiehandleiding HL7v3 Basiscomponenten, Stichting HL7 Nederland [Online] Beschikbaar op: http://www.hl7.nl/images/downloads/Implementatiehandleiding%20HL7v3%20Basiscomponenten%20%202.3NL_secure.pdf [Geraadpleegd: 23 februari 2015].

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

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