Participant

Model Specification

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Approved for external use

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Key Information

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Related Documents

Name	Version/Release Date
Australian Base Profiles Implementation Guide	v1.0.0 (Ballot October 2018), Issued 12 October 2018
FHIR	Release 3 (STU), Issued 19 April 2017

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Acknowledgements

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1 Introduction

1.1 Purpose and scope

This specification establishes a set of base models to support identifying and describing various entities involved in healthcare: people, organisations, devices, etc. Participants are a fundamental concept and are used extensively in specifications.

A base model defines the fundamental concepts that form a conforming representation for that concept. Base models provide options, anticipating the needs of a variety of applications, and will be used to support the modelling of the exchange of clinical content in specific scenarios via derived models [ISO1998a].

A derived model (i.e. a profile) will contain requirements that are more specific and limited in scope than those of the base model to which it conforms. While the capabilities and behaviour specified in a derived model will always be valid in terms of the base model, a derived model may exclude some valid optional capabilities and optional behaviour permitted in those base models [ISO1998a]. A derived model may also define an extension for a particular application where the need has not been anticipated or it is a requirement limited to a very specific application that is not appropriate for use in other applications.

Future versions of base models may include extensions that originated in a derived model and have been evaluated as being appropriate in a variety of applications. It is expected that the set of base models will be expanded upon in future versions of this specification.

This specification does not constitute technical implementation guidance.

1.2 Intended audience

This document is intended to be read by jurisdictional information and communication technology (ICT) managers, clinicians involved in clinical information system specifications, software architects and developers, and implementers of clinical information systems in various healthcare settings.

This is a technical document; the audience should be familiar with the language of health data specification and also have some familiarity with health information standards and specifications.

1.3 Background and relationship to other specifications

Work was undertaken in conjunction with HL7 Australia to address extant issues on the Agency's *Participation Data Specification [DH2017a]* and to improve alignment between Agency models and HL7 standards. This specification is the outcome of that work and supersedes *Participation Data Specification [DH2017a]*.

Wherever possible, material in this specification is based on existing standards. All efforts have been made to minimise divergence from the HL7 Australia profiles of HL7 International standards to provide for system interoperability and compatibility with other profiles. Issues of an editorial nature in the source material (such as spelling or punctuation errors) are intentionally reproduced.

Reference has been made to international and Australian standards, and to standards from Health Level Seven. The following standard is referred to in the text in such a way that some or all of its content constitutes requirements for the purposes of this specification: FHIR Release 3 (STU) [HL7FHIR3].

1.4 Model presentation and structure

This section describes how the content of the base models are presented in this specification. Other representations of these base models exist as FHIR Release 3 (STU) [HL7FHIR3] profiles but are not described in this specification. This specification presents each model in a hierarchical structure with a logical view of the content.

The following describes the fields used to present the logical view of the models included in this specification.

Hierarchy

The hierarchy provides a logical view of the model as a tree structure in a hierarchical table. Each row contains information about a single element. The top level row contains two occupied cells: Name of the base element of the underlying resource, and the Type (see below).

Each following row contains three occupied cells: Name of the child element in the underlying resource, Cardinality (see below), and the Type (see below). An element with the Cardinality of 0..0 has the name of the element presented with a strike through.

Sample

Device				DomainResource[1]
	identifier		0..*	Identifier[2]
	udi		0..1	BackboneElement[3]
		deviceIdentifier	0..1	string[4]
		~~jurisdiction~~	0..0	uri[5]

Model Identification

Title	Name of model
URI	Unique identifier of the model

Identification

Name	The name of the element in the resource [HL7FHIR3].
Type	Identification of whether this is the base element for a resource (see Resource[6]) or an element that is part of the resource (see Element[7]).
Identifier	An Agency-assigned internal identifier for the purposes of this specification that uniquely identifies an element in the model hierarchy.

Definition

Description	A description of the element [HL7FHIR3].
Description Source	The authoritative source for the Description.
Alternate Names	Alternate names for this element.
Alternate Names Source	The authoritative source for the Alternate Names statement.
Type	The type of the element (hyperlinked to the definition of the type) [HL7FHIR3]. This may be expressed as a type that is further constrained by a model, e.g. HumanName[8] as Base HumanName.
Type Source	The authoritative source for the Type.

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[1] http://hl7.org/fhir/STU3/domainresource.html
[2] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[3] http://hl7.org/fhir/STU3/backboneelement.html
[4] http://hl7.org/fhir/STU3/datatypes.html#string
[5] http://hl7.org/fhir/STU3/datatypes.html#uri
[6] http://hl7.org/fhir/STU3/resource.html
[7] http://hl7.org/fhir/STU3/element.html
[8] http://hl7.org/fhir/STU3/datatypes.html#HumanName

Cardinality	The lower and upper bounds on how many times this element is allowed to appear in the resource [HL7FHIR3].
Cardinality Source	The authoritative source for the Cardinality.
Notes	Additional information about the use of the model element provided by the original source of the model element.
Notes Source	The authoritative source for the Notes statement.

Usage

Constraints	Details about constraints (also known as 'invariants') that are applied to the element [HL7FHIR3].
Constraints Source	The authoritative source for the Constraints.

Terminology Binding

Terminology Binding	The value set name (hyperlinked to the definition of the value set), followed by the terminology binding strength (hyperlinked to the definition of the binding strength) [HL7FHIR3].
Terminology Binding Source	The authoritative source for the terminology binding of the element.

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2 Base Device

This chapter describes version 1.0.0 of the *Base Device* model. This model is derived from the [AU Base Device](#)[1] profile of FHIR Release 3 (STU) [Device](#)[2].

2.1 Base Device

Purpose

To provide a base model for the concept of a device, defining fundamental concepts that form a conforming representation of a device.

Use

To be used as a base model from which to further derive models for specific usage scenarios in an Australian context and where it is desirable to provide some constraint to support unique identification of the device.

As described in FHIR Release 3 (STU) [HL7FHIR3], Device is used to track non-consumable manufactured materials through the healthcare process. It includes implants, large instruments, non-medical things (including software), and containers. Devices have many purposes, including stock control, locating devices, and tracking implants.

Model Identification

Title	Base Device
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/device-dh-base

Hierarchy

Device					DomainResource[3]
	identifier			0..*	Identifier[4]
	udi			0..1	BackboneElement[5]
		deviceIdentifier		0..1	string[6]
		name		0..1	string[7]
		jurisdiction		0..1	uri[8]
		carrierHRF		0..1	string[9]
		carrierAIDC		0..1	base64Binary[10]
		issuer		0..1	uri[11]

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[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-device.html
[2] http://hl7.org/fhir/STU3/device.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[5] http://hl7.org/fhir/STU3/backboneelement.html
[6] http://hl7.org/fhir/STU3/datatypes.html#string
[7] http://hl7.org/fhir/STU3/datatypes.html#string
[8] http://hl7.org/fhir/STU3/datatypes.html#uri
[9] http://hl7.org/fhir/STU3/datatypes.html#string
[10] http://hl7.org/fhir/STU3/datatypes.html#base64Binary
[11] http://hl7.org/fhir/STU3/datatypes.html#uri

		entryType	0..1	code[12]
	status		0..1	code[13]
	type		0..1	CodeableConcept[14]
	lotNumber		0..1	string[15]
	manufacturer		0..1	string[16]
	manufactureDate		0..1	dateTime[17]
	expirationDate		0..1	dateTime[18]
	model		0..1	string[19]
	version		0..1	string[20]
	patient		0..1	Reference[21](Patient[22] as Base Patient)
	owner		0..1	Reference[23](Organization[24] as Base Organization)
	contact		0..*	ContactPoint[25]
	location		0..1	Reference[26](Location[27])
	url		0..1	uri[28]
	note		0..*	Annotation[29]
	safety		0..*	CodeableConcept[30]

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[12] http://hl7.org/fhir/STU3/datatypes.html#code
[13] http://hl7.org/fhir/STU3/datatypes.html#code
[14] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[15] http://hl7.org/fhir/STU3/datatypes.html#string
[16] http://hl7.org/fhir/STU3/datatypes.html#string
[17] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[18] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[19] http://hl7.org/fhir/STU3/datatypes.html#string
[20] http://hl7.org/fhir/STU3/datatypes.html#string
[21] http://hl7.org/fhir/STU3/references.html
[22] http://hl7.org/fhir/STU3/patient.html
[23] http://hl7.org/fhir/STU3/references.html
[24] http://hl7.org/fhir/STU3/organization.html
[25] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[26] http://hl7.org/fhir/STU3/references.html
[27] http://hl7.org/fhir/STU3/location.html
[28] http://hl7.org/fhir/STU3/datatypes.html#uri
[29] http://hl7.org/fhir/STU3/datatypes.html#Annotation
[30] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept

2.2 Device

Identification

Name	Device
Type	Resource
Identifier	Device

Definition

Description	This resource identifies an instance or a type of a manufactured item that is used in the provision of healthcare without being substantially changed through that activity. The device may be a medical or non-medical device.
Description Source	HL7 [HL7FHIR3]
Type	DomainResource[31]
Type Source	HL7 [HL7FHIR3]
Notes	Medical devices include durable (reusable) medical equipment, implantable devices, as well as disposable equipment used for diagnostic, treatment, and research for healthcare and public health. Non-medical devices may include items such as a machine, cellphone, computer, application, etc.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-dev-01: The device SHALL at least have an identifier or a unique device identifier name or a type
Constraints Source	Australian Digital Health Agency

Relationships

Children

Name	Occurrences	Type
identifier	0..*	Identifier[32]
udi	0..1	BackboneElement[33]
status	0..1	code[34]
type	0..1	CodeableConcept[35]
lotNumber	0..1	string[36]
manufacturer	0..1	string[37]
manufactureDate	0..1	dateTime[38]

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[31] http://hl7.org/fhir/STU3/domainresource.html
[32] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[33] http://hl7.org/fhir/STU3/backboneelement.html
[34] http://hl7.org/fhir/STU3/datatypes.html#code
[35] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[36] http://hl7.org/fhir/STU3/datatypes.html#string
[37] http://hl7.org/fhir/STU3/datatypes.html#string
[38] http://hl7.org/fhir/STU3/datatypes.html#dateTime

Name	Occurrences	Type
expirationDate	0..1	dateTime[39]
model	0..1	string[40]
version	0..1	string[41]
patient	0..1	Reference[42](Patient[43] as Base Patient)
owner	0..1	Reference[44](Organization[45] as Base Organization)
contact	0..*	ContactPoint[46]
location	0..1	Reference[47](Location[48])
url	0..1	uri[49]
note	0..*	Annotation[50]
safety	0..*	CodeableConcept[51]

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[39] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[40] http://hl7.org/fhir/STU3/datatypes.html#string
[41] http://hl7.org/fhir/STU3/datatypes.html#string
[42] http://hl7.org/fhir/STU3/references.html
[43] http://hl7.org/fhir/STU3/patient.html
[44] http://hl7.org/fhir/STU3/references.html
[45] http://hl7.org/fhir/STU3/organization.html
[46] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[47] http://hl7.org/fhir/STU3/references.html
[48] http://hl7.org/fhir/STU3/location.html
[49] http://hl7.org/fhir/STU3/datatypes.html#uri
[50] http://hl7.org/fhir/STU3/datatypes.html#Annotation
[51] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept

2.3 identifier

Identification

Name	identifier
Type	Element
Identifier	Device.identifier

Definition

Description	Unique instance identifiers assigned to a device by manufacturers other organizations or owners.
Description Source	HL7 [HL7FHIR3]
Alternate Names	Serial Number
Alternate Names Source	HL7 [HL7FHIR3]
Type	Identifier[52]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier. The barcode string from a barcode present on a device label or package may identify the instance, include names given to the device in local usage, or may identify the type of device. If the identifier identifies the type of device, Device.type element should be used. For UDI, this element corresponds to the variable portion of the UDI that identifies the serial number of a specific device.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-dev-01: The device SHALL at least have an identifier or a unique device identifier name or a type
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..*	DomainResource[53]

---

[52] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[53] http://hl7.org/fhir/STU3/domainresource.html

2.4 udi

Identification

Name	udi
Type	Element
Identifier	Device.udi

Definition

Description	Unique Device Identifier (UDI) assigned to device label or package.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[54]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	UDI may identify an unique instance of a device, or it may only identify the type of the device.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-dev-01: The device SHALL at least have an identifier or a unique device identifier name or a type
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[55]

Children

Name	Occurrences	Type
deviceIdentifier	0..1	string[56]
name	0..1	string[57]
jurisdiction	0..1	uri[58]
carrierHRF	0..1	string[59]
carrierAIDC	0..1	base64Binary[60]

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[54] http://hl7.org/fhir/STU3/backboneelement.html
[55] http://hl7.org/fhir/STU3/domainresource.html
[56] http://hl7.org/fhir/STU3/datatypes.html#string
[57] http://hl7.org/fhir/STU3/datatypes.html#string
[58] http://hl7.org/fhir/STU3/datatypes.html#uri
[59] http://hl7.org/fhir/STU3/datatypes.html#string
[60] http://hl7.org/fhir/STU3/datatypes.html#base64Binary

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Name	Occurrences	Type
issuer	0..1	uri[61]
entryType	0..1	code[62]

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[61] http://hl7.org/fhir/STU3/datatypes.html#uri
[62] http://hl7.org/fhir/STU3/datatypes.html#code

2.5 deviceIdentifier

Identification

Name	deviceIdentifier
Type	Element
Identifier	Device.udi.deviceIdentifier

Definition

Description	The device identifier (DI) is a mandatory, fixed portion of a UDI that identifies the labeler and the specific version or model of a device.
Description Source	HL7 [HL7FHIR3]
Alternate Names	DI
Alternate Names Source	HL7 [HL7FHIR3]
Type	string[63]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[64]

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[63] http://hl7.org/fhir/STU3/datatypes.html#string
[64] http://hl7.org/fhir/STU3/backboneelement.html

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2.6 name

Identification

Name	name
Type	Element
Identifier	Device.udi.name

Definition

Description	Name of device as used in labeling or catalog.
Description Source	HL7 [HL7FHIR3]
Alternate Names	Brand Name
Alternate Names Source	HL7 [HL7FHIR3]
Type	string[65]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[66]

---

[65] http://hl7.org/fhir/STU3/datatypes.html#string
[66] http://hl7.org/fhir/STU3/backboneelement.html

2.7 jurisdiction

Identification

Name	jurisdiction
Type	Element
Identifier	Device.udi.jurisdiction

Definition

Description	The identity of the authoritative source for UDI generation within a jurisdiction. All UDIs are globally unique within a single namespace. with the appropriate repository uri as the system.
Description Source	HL7 [HL7FHIR3]
Type	uri[67]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[68]

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[67] http://hl7.org/fhir/STU3/datatypes.html#uri
[68] http://hl7.org/fhir/STU3/backboneelement.html

2.8 carrierHRF

Identification

Name	carrierHRF
Type	Element
Identifier	Device.udi.carrierHRF

Definition

Description	The full UDI carrier as the human readable form (HRF) representation of the barcode string as printed on the packaging of the device.
Description Source	HL7 [HL7FHIR3]
Alternate Names	Human Readable Form
Alternate Names Source	HL7 [HL7FHIR3]
Type	string[69]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[70]

---

[69] http://hl7.org/fhir/STU3/datatypes.html#string
[70] http://hl7.org/fhir/STU3/backboneelement.html

2.9 carrierAIDC

Identification

Name	carrierAIDC
Type	Element
Identifier	Device.udi.carrierAIDC

Definition

Description	The full UDI carrier of the Automatic Identification and Data Capture (AIDC) technology representation of the barcode string as printed on the packaging of the device - E.g a barcode or RFID.
Description Source	HL7 [HL7FHIR3]
Alternate Names	Automatic Identification and Data Capture
Alternate Names Source	HL7 [HL7FHIR3]
Type	base64Binary[71]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[72]

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[71] http://hl7.org/fhir/STU3/datatypes.html#base64Binary
[72] http://hl7.org/fhir/STU3/backboneelement.html

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2.10 issuer

Identification

Name	issuer
Type	Element
Identifier	Device.udi.issuer

Definition

Description	Organization that is charged with issuing UDIs for devices.
Description Source	HL7 [HL7FHIR3]
Alternate Names	Barcode System
Alternate Names Source	HL7 [HL7FHIR3]
Type	uri[73]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[74]

---

[73] http://hl7.org/fhir/STU3/datatypes.html#uri
[74] http://hl7.org/fhir/STU3/backboneelement.html

2.11 entryType

Identification

Name	entryType
Type	Element
Identifier	Device.udi.entryType

Definition

Description	A coded entry to indicate how the data was entered.
Description Source	HL7 [HL7FHIR3]
Type	code[75]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Supports a way to distinguish hand entered from machine read data.
Notes Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	UDIEntryType[76] (required[77])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
udi	0..1	BackboneElement[78]

---

[75] http://hl7.org/fhir/STU3/datatypes.html#code
[76] http://hl7.org/fhir/STU3/valueset-udi-entry-type.html
[77] http://hl7.org/fhir/STU3/terminologies.html#required
[78] http://hl7.org/fhir/STU3/backboneelement.html

2.12 status

Identification

Name	status
Type	Element
Identifier	Device.status

Definition

Description	Status of the Device availability.
Description Source	HL7 [HL7FHIR3]
Type	code[79]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	FHIRDeviceStatus[80] (required[81])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[82]

---

[79] http://hl7.org/fhir/STU3/datatypes.html#code
[80] http://hl7.org/fhir/STU3/valueset-device-status.html
[81] http://hl7.org/fhir/STU3/terminologies.html#required
[82] http://hl7.org/fhir/STU3/domainresource.html

2.13 type

Identification

Name	type
Type	Element
Identifier	Device.type

Definition

Description	Code or identifier to identify a kind of device.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[83]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-dev-01: The device SHALL at least have an identifier or a unique device identifier name or a type
Constraints Source	Australian Digital Health Agency

Terminology Binding

Terminology Binding	FHIR Device Types [84](extensible[85])
Terminology Binding Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[86]

---

[83] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[84] http://hl7.org/fhir/STU3/valueset-device-kind.html
[85] http://hl7.org/fhir/STU3/terminologies.html#extensible
[86] http://hl7.org/fhir/STU3/domainresource.html

2.14 lotNumber

Identification

Name	lotNumber
Type	Element
Identifier	Device.lotNumber

Definition

Description	Lot number assigned by the manufacturer.
Description Source	HL7 [HL7FHIR3]
Type	string[87]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[88]

---

[87] http://hl7.org/fhir/STU3/datatypes.html#string
[88] http://hl7.org/fhir/STU3/domainresource.html

2.15 manufacturer

Identification

Name	manufacturer
Type	Element
Identifier	Device.manufacturer

Definition

Description	A name of the manufacturer.
Description Source	HL7 [HL7FHIR3]
Type	string[89]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[90]

---

[89] http://hl7.org/fhir/STU3/datatypes.html#string
[90] http://hl7.org/fhir/STU3/domainresource.html

2.16 manufactureDate

Identification

Name	manufactureDate
Type	Element
Identifier	Device.manufactureDate

Definition

Description	The date and time when the device was manufactured.
Description Source	HL7 [HL7FHIR3]
Type	dateTime[91]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[92]

---

[91] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[92] http://hl7.org/fhir/STU3/domainresource.html

2.17 expirationDate

Identification

Name	expirationDate
Type	Element
Identifier	Device.expirationDate

Definition

Description	The date and time beyond which this device is no longer valid or should not be used (if applicable).
Description Source	HL7 [HL7FHIR3]
Type	dateTime[93]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[94]

---

[93] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[94] http://hl7.org/fhir/STU3/domainresource.html

2.18 model

Identification

Name	model
Type	Element
Identifier	Device.model

Definition

Description	The "model" is an identifier assigned by the manufacturer to identify the product by its type. This number is shared by the all devices sold as the same type.
Description Source	HL7 [HL7FHIR3]
Type	string[95]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[96]

---

[95] http://hl7.org/fhir/STU3/datatypes.html#string
[96] http://hl7.org/fhir/STU3/domainresource.html

2.19 version

Identification

Name	version
Type	Element
Identifier	Device.version

Definition

Description	The version of the device, if the device has multiple releases under the same model, or if the device is software or carries firmware.
Description Source	HL7 [HL7FHIR3]
Type	string[97]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[98]

---

[97] http://hl7.org/fhir/STU3/datatypes.html#string
[98] http://hl7.org/fhir/STU3/domainresource.html

2.20 patient

Identification

Name	patient
Type	Element
Identifier	Device.patient

Definition

Description	Patient information, If the device is affixed to a person.
Description Source	HL7 [HL7FHIR3]
Type	Reference[99](Patient[100] as Base Patient)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[101]

---

[99] http://hl7.org/fhir/STU3/references.html
[100] http://hl7.org/fhir/STU3/patient.html
[101] http://hl7.org/fhir/STU3/domainresource.html

2.21 owner

Identification

Name	owner
Type	Element
Identifier	Device.owner

Definition

Description	An organization that is responsible for the provision and ongoing maintenance of the device.
Description Source	HL7 [HL7FHIR3]
Type	Reference[102](Organization[103] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[104]

---

[102] http://hl7.org/fhir/STU3/references.html
[103] http://hl7.org/fhir/STU3/organization.html
[104] http://hl7.org/fhir/STU3/domainresource.html

Approved for external use

2.22 contact

Identification

Name	contact
Type	Element
Identifier	Device.contact

Definition

Description	Contact details for an organization or a particular human that is responsible for the device.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[105]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..*	DomainResource[106]

---

[105] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[106] http://hl7.org/fhir/STU3/domainresource.html

2.23 location

Identification

Name	location
Type	Element
Identifier	Device.location

Definition

Description	The place where the device can be found.
Description Source	HL7 [HL7FHIR3]
Type	Reference[107](Location[108])
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..*	DomainResource[109]

---

[107] http://hl7.org/fhir/STU3/references.html
[108] http://hl7.org/fhir/STU3/location.html
[109] http://hl7.org/fhir/STU3/domainresource.html

2.24 url

Identification

Name	url
Type	Element
Identifier	Device.url

Definition

Description	A network address on which the device may be contacted directly.
Description Source	HL7 [HL7FHIR3]
Type	uri[110]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..1	DomainResource[111]

---

[110] http://hl7.org/fhir/STU3/datatypes.html#uri
[111] http://hl7.org/fhir/STU3/domainresource.html

2.25 note

Identification

Name	note
Type	Element
Identifier	Device.note

Definition

Description	Descriptive information, usage information or implantation information that is not captured in an existing element.
Description Source	HL7 [HL7FHIR3]
Type	Annotation[112]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..*	DomainResource[113]

---

[112] http://hl7.org/fhir/STU3/datatypes.html#Annotation
[113] http://hl7.org/fhir/STU3/domainresource.html

2.26 safety

Identification

Name	safety
Type	Element
Identifier	Device.safety

Definition

Description	Provides additional safety characteristics about a medical device. For example devices containing latex.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[114]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	DeviceSafety[115] (example[116])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Device	0..*	DomainResource[117]

---

[114] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[115] http://hl7.org/fhir/STU3/valueset-device-safety.html
[116] http://hl7.org/fhir/STU3/terminologies.html#example
[117] http://hl7.org/fhir/STU3/domainresource.html

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3 Base Organization

This chapter describes version 1.0.0 of the *Base Organization* model. This model is derived from the [AU Base Organisation](#)[1] profile of FHIR Release 3 (STU) [Organization](#)[2].

3.1 Base Organization

Purpose

To provide a base model for the concept of an organisation, defining fundamental concepts that form a conforming representation of an organisation.

Use

To be used as a base model from which to further derive models for specific usage scenarios in an Australian context and where it is desirable to provide some constraint to support unique identification of the organisation.

As described in FHIR Release 3 (STU) [HL7FHIR3], Organization is used to identify an organisation responsible and account-able for the care, and references appear throughout the clinical record. An organisation is a legal entity that may operate at multiple locations.

Model Identification

Title	Base Organization
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/organization-dh-base

Hierarchy

Organization			DomainResource[3]
	identifier	0..*	Identifier[4]
	active	0..1	boolean[5]
	type	0..*	CodeableConcept[6]
	name	0..1	string[7]
	alias	0..*	string[8]
	telecom	0..*	ContactPoint[9]
	address	0..*	Address[10]
	partOf	0..1	Reference[11](Organization[12] as Base Organization)

---

[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-organisation.html
[2] http://hl7.org/fhir/STU3/organization.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[5] http://hl7.org/fhir/STU3/datatypes.html#boolean
[6] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[7] http://hl7.org/fhir/STU3/datatypes.html#string
[8] http://hl7.org/fhir/STU3/datatypes.html#string
[9] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[10] http://hl7.org/fhir/STU3/datatypes.html#address
[11] http://hl7.org/fhir/STU3/references.html
[12] http://hl7.org/fhir/STU3/organization.html

		contact		0..*	BackboneElement[13]
			purpose	0..1	CodeableConcept[14]
			name	0..1	HumanName[15] as Base HumanName
			telecom	0..*	ContactPoint[16]
			address	0..1	Address[17]

---

[13] http://hl7.org/fhir/STU3/backboneelement.html
[14] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[15] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[16] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[17] http://hl7.org/fhir/STU3/datatypes.html#address

3.2 Organization

Identification

Name	Organization
Type	Resource
Identifier	Organization

Definition

Description	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.
Description Source	HL7 [HL7FHIR3]
Type	DomainResource[18]
Type Source	HL7 [HL7FHIR3]

Usage

Constraints	org-1: The organization SHALL at least have a name or an id, and possibly more than one
Constraints Source	HL7 [HL7FHIR3]

Relationships

Children

Name	Occurrences	Type
identifier	0..*	Identifier[19]
active	0..1	boolean[20]
type	0..*	CodeableConcept[21]
name	0..1	string[22]
alias	0..*	string[23]
telecom	0..*	ContactPoint[24]
address	0..*	Address[25]
partOf	0..1	Reference[26](Organization[27] as Base Organization)
contact	0..*	BackboneElement[28]

---

[18] http://hl7.org/fhir/STU3/domainresource.html
[19] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[20] http://hl7.org/fhir/STU3/datatypes.html#boolean
[21] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[22] http://hl7.org/fhir/STU3/datatypes.html#string
[23] http://hl7.org/fhir/STU3/datatypes.html#string
[24] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[25] http://hl7.org/fhir/STU3/datatypes.html#address
[26] http://hl7.org/fhir/STU3/references.html
[27] http://hl7.org/fhir/STU3/organization.html
[28] http://hl7.org/fhir/STU3/backboneelement.html

3.3 identifier

Identification

Name	identifier
Type	Element
Identifier	Organization.identifier

Definition

Description	Identifier for the organization that is used to identify the organization across multiple disparate systems.
Description Source	HL7 [HL7FHIR3]
Type	Identifier[29]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier. Organizations are known by a variety of ids. Some institutions maintain several, and most collect identifiers for exchange with other organizations concerning the organization.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	org-1: The organization SHALL at least have a name or an id, and possibly more than one
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[30]

---

[29] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[30] http://hl7.org/fhir/STU3/domainresource.html

3.4 active

Identification

Name	active
Type	Element
Identifier	Organization.active

Definition

Description	Whether the organization's record is still in active use.
Description Source	HL7 [HL7FHIR3]
Type	boolean[31]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Default is true. This active flag is not intended to be used to mark an organizations as temporarily closed or under construction. Instead the Location(s) within the Organization should have the suspended status. If further details of the reason for the suspension are required, then an extension on this element should be used.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..1	DomainResource[32]

---

[31] http://hl7.org/fhir/STU3/datatypes.html#boolean
[32] http://hl7.org/fhir/STU3/domainresource.html

3.5 type

Identification

Name	type
Type	Element
Identifier	Organization.type

Definition

Description	The kind(s) of organization that this is.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[33]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	OrganizationType [34] (example[35])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[36]

---

[33] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[34] http://hl7.org/fhir/STU3/valueset-organization-type.html
[35] http://hl7.org/fhir/STU3/terminologies.html#example
[36] http://hl7.org/fhir/STU3/domainresource.html

3.6 name

Identification

Name	name
Type	Element
Identifier	Organization.name

Definition

Description	A name associated with the organization.
Description Source	HL7 [HL7FHIR3]
Type	string[37]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	org-1: The organization SHALL at least have a name or an id, and possibly more than one
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..1	DomainResource[38]

---

[37] http://hl7.org/fhir/STU3/datatypes.html#string
[38] http://hl7.org/fhir/STU3/domainresource.html

3.7 alias

Identification

Name	alias
Type	Element
Identifier	Organization.alias

Definition

Description	A list of alternate names that the organization is known as, or was known as in the past.
Description Source	HL7 [HL7FHIR3]
Type	string[39]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[40]

---

[39] http://hl7.org/fhir/STU3/datatypes.html#string
[40] http://hl7.org/fhir/STU3/domainresource.html

3.8 telecom

Identification

Name	telecom
Type	Element
Identifier	Organization.telecom

Definition

Description	A contact detail for the organization.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[41]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	org-3: The telecom of an organization can never be of use 'home'
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[42]

---

[41] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[42] http://hl7.org/fhir/STU3/domainresource.html

3.9 address

Identification

Name	address
Type	Element
Identifier	Organization.address

Definition

Description	An address for the organization.
Description Source	HL7 [HL7FHIR3]
Type	Address[43]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	org-2: An address of an organization can never be of use 'home'
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[44]

---

[43] http://hl7.org/fhir/STU3/datatypes.html#address
[44] http://hl7.org/fhir/STU3/domainresource.html

3.10 partOf

Identification

Name	partOf
Type	Element
Identifier	Organization.partOf

Definition

Description	The organization of which this organization forms a part.
Description Source	HL7 [HL7FHIR3]
Type	Reference[45](Organization[46] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..1	DomainResource[47]

---

[45] http://hl7.org/fhir/STU3/references.html
[46] http://hl7.org/fhir/STU3/organization.html
[47] http://hl7.org/fhir/STU3/domainresource.html

3.11 contact

Identification

Name	contact
Type	Element
Identifier	Organization.contact

Definition

Description	Contact for the organization for a certain purpose.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[48]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Organization	0..*	DomainResource[49]

Children

Name	Occurrences	Type
purpose	0..1	CodeableConcept[50]
name	0..1	HumanName[51] as Base HumanName
telecom	0..*	ContactPoint[52]
address	0..1	Address[53]

---

[48] http://hl7.org/fhir/STU3/backboneelement.html
[49] http://hl7.org/fhir/STU3/domainresource.html
[50] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[51] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[52] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[53] http://hl7.org/fhir/STU3/datatypes.html#address

3.12 purpose

Identification

Name	purpose
Type	Element
Identifier	Organization.contact.purpose

Definition

Description	Indicates a purpose for which the contact can be reached.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[54]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	ContactEntityType[55] (extensible[56])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[57]

---

[54] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[55] http://hl7.org/fhir/STU3/valueset-contactentity-type.html
[56] http://hl7.org/fhir/STU3/terminologies.html#extensible
[57] http://hl7.org/fhir/STU3/backboneelement.html

3.13 name

Identification

Name	name
Type	Element
Identifier	Organization.contact.name

Definition

Description	A name associated with the contact.
Description Source	HL7 [HL7FHIR3]
Type	HumanName[58] as Base HumanName
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[59]

---

[58] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[59] http://hl7.org/fhir/STU3/backboneelement.html

3.14 telecom

Identification

Name	telecom
Type	Element
Identifier	Organization.contact.telecom

Definition

Description	A contact detail (e.g. a telephone number or an email address) by which the party may be contacted.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[60]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..*	BackboneElement[61]

---

[60] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[61] http://hl7.org/fhir/STU3/backboneelement.html

3.15 address

Identification

Name	address
Type	Element
Identifier	Organization.contact.address

Definition

Description	Visiting or postal addresses for the contact.
Description Source	HL7 [HL7FHIR3]
Type	Address[62]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[63]

---

[62] http://hl7.org/fhir/STU3/datatypes.html#address
[63] http://hl7.org/fhir/STU3/backboneelement.html

4 Base Patient

This chapter describes version 1.0.0 of the *Base Patient* model. This model is derived from the [AU Base Patient](#)[1] profile of FHIR Release 3 (STU) [Patient](#)[2].

4.1 Base Patient

Purpose

To provide a base exchange model for the concept of a patient, defining fundamental concepts that form a conforming representation of a patient.

Use

To be used as a base model from which to further derive models for specific exchange usage scenarios in an Australian context and where it is desirable to provide some constraint to support unique identification of the patient.

As described in FHIR Release 3 (STU) [HL7FHIR3], Patient is used to represent the recipient of healthcare. This concept is not always referred to as a patient - other words such as client, customer, and resident are commonly used. The representation of the patient includes basic demographics and next of kin information.

Model Identification

Title	Base Patient
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/patient-dh-base

Hierarchy

Patient			DomainResource[3]
	birthPlace	0..1	Address[4]
	indigenous-status	0..1	Coding[5]
	closing-the-gap-registration	0..1	boolean[6]
	patient-mothersMaidenName	0..1	string[7]
	identifier	0..*	Identifier[8]
	active	0..1	boolean[9]
	name	0..*	HumanName[10] as Base HumanName
	telecom	0..*	ContactPoint[11]

---

[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-patient.html
[2] http://hl7.org/fhir/STU3/patient.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#address
[5] http://hl7.org/fhir/STU3/datatypes.html#Coding
[6] http://hl7.org/fhir/STU3/datatypes.html#boolean
[7] http://hl7.org/fhir/STU3/datatypes.html#string
[8] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[9] http://hl7.org/fhir/STU3/datatypes.html#boolean
[10] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[11] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint

			Card.	Type
	gender		0..1	code[12]
	birthDate		0..1	date[13]
		date-accuracy-indicator	0..1	Coding[14]
		birthTime	0..1	dateTime[15]
	deceased		0..1	boolean[16] dateTime[17]
		date-accuracy-indicator	0..1	Coding[18]
	address		0..*	Address[19]
	maritalStatus		0..1	CodeableConcept[20]
	multipleBirth		0..1	boolean[21] integer[22]
	~~photo~~		0..0	Attachment[23]
	contact		0..*	BackboneElement[24]
		relationship	0..*	CodeableConcept[25]
		name	0..1	HumanName[26] as Base HumanName
		telecom	0..*	ContactPoint[27]
		address	0..1	Address[28]
		gender	0..1	code[29]
		organization	0..1	Reference[30](Organization[31] as Base Organization)
		period	0..1	Period[32]
	communication		0..*	BackboneElement[33]
		language	1..1	CodeableConcept[34]
		preferred	0..1	boolean[35]
	generalPractitioner		0..*	Reference[36](Practitioner[37] as Base Practitioner | Organization[38] as Base Organization)
	managingOrganization		0..1	Reference[39](Organization[40] as Base Organization)

[12] http://hl7.org/fhir/STU3/datatypes.html#code
[13] http://hl7.org/fhir/STU3/datatypes.html#date
[14] http://hl7.org/fhir/STU3/datatypes.html#Coding
[15] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[16] http://hl7.org/fhir/STU3/datatypes.html#boolean
[17] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[18] http://hl7.org/fhir/STU3/datatypes.html#Coding
[19] http://hl7.org/fhir/STU3/datatypes.html#address
[20] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[21] http://hl7.org/fhir/STU3/datatypes.html#boolean
[22] http://hl7.org/fhir/STU3/datatypes.html#integer
[23] http://hl7.org/fhir/STU3/datatypes.html#Attachment
[24] http://hl7.org/fhir/STU3/backboneelement.html
[25] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[26] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[27] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[28] http://hl7.org/fhir/STU3/datatypes.html#address
[29] http://hl7.org/fhir/STU3/datatypes.html#code
[30] http://hl7.org/fhir/STU3/references.html
[31] http://hl7.org/fhir/STU3/organization.html
[32] http://hl7.org/fhir/STU3/datatypes.html#Period
[33] http://hl7.org/fhir/STU3/backboneelement.html
[34] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[35] http://hl7.org/fhir/STU3/datatypes.html#boolean
[36] http://hl7.org/fhir/STU3/references.html
[37] http://hl7.org/fhir/STU3/practitioner.html
[38] http://hl7.org/fhir/STU3/organization.html
[39] http://hl7.org/fhir/STU3/references.html
[40] http://hl7.org/fhir/STU3/organization.html

4.2 Patient

Identification

Name	Patient
Type	Resource
Identifier	Patient

Definition

Description	Demographics and other administrative information about an individual receiving care or other health-related services.
Description Source	HL7 Australia [HL7AUBIG]
Alternate Names	SubjectOfCare
	Client
	Resident
Alternate Names Source	HL7 [HL7FHIR3]
Type	DomainResource[41]
Type Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-pat-03: The patient SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Children

Name	Occurrences	Type
birthPlace	0..1	Address[42]
indigenous-status	0..1	Coding[43]
closing-the-gap-registration	0..1	boolean[44]
patient-mothersMaidenName	0..1	string[45]
identifier	0..*	Identifier[46]
active	0..1	boolean[47]
name	0..*	HumanName[48] as Base HumanName

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[41] http://hl7.org/fhir/STU3/domainresource.html
[42] http://hl7.org/fhir/STU3/datatypes.html#address
[43] http://hl7.org/fhir/STU3/datatypes.html#Coding
[44] http://hl7.org/fhir/STU3/datatypes.html#boolean
[45] http://hl7.org/fhir/STU3/datatypes.html#string
[46] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[47] http://hl7.org/fhir/STU3/datatypes.html#boolean
[48] http://hl7.org/fhir/STU3/datatypes.html#HumanName

Name	Occurrences	Type
telecom	0..*	ContactPoint[49]
gender	0..1	code[50]
birthDate	0..1	date[51]
deceased	0..1	boolean[52] dateTime[53]
address	0..*	Address[54]
maritalStatus	0..1	CodeableConcept[55]
multipleBirth	0..1	boolean[56] integer[57]
~~photo~~	0..0	Attachment[58]
contact	0..*	BackboneElement[59]
communication	0..*	BackboneElement[60]
generalPractitioner	0..*	Reference[61](Practitioner[62] as Base Practitioner | Organization[63] as Base Organization)
managingOrganization	0..1	Reference[64](Organization[65] as Base Organization)

---

[49] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[50] http://hl7.org/fhir/STU3/datatypes.html#code
[51] http://hl7.org/fhir/STU3/datatypes.html#date
[52] http://hl7.org/fhir/STU3/datatypes.html#boolean
[53] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[54] http://hl7.org/fhir/STU3/datatypes.html#address
[55] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[56] http://hl7.org/fhir/STU3/datatypes.html#boolean
[57] http://hl7.org/fhir/STU3/datatypes.html#integer
[58] http://hl7.org/fhir/STU3/datatypes.html#Attachment
[59] http://hl7.org/fhir/STU3/backboneelement.html
[60] http://hl7.org/fhir/STU3/backboneelement.html
[61] http://hl7.org/fhir/STU3/references.html
[62] http://hl7.org/fhir/STU3/practitioner.html
[63] http://hl7.org/fhir/STU3/organization.html
[64] http://hl7.org/fhir/STU3/references.html
[65] http://hl7.org/fhir/STU3/organization.html

4.3 birthPlace

Identification

Name	address
Type	Element
Identifier	Patient.birthPlace

Definition

Description	The registered place of birth of the patient.
Description Source	HL7 Australia [HL7AUBIG]
Type	Address[66]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[67]

---

[66] http://hl7.org/fhir/STU3/datatypes.html#address
[67] http://hl7.org/fhir/STU3/domainresource.html

4.4 indigenous-status

Identification

Name	indigenous-status
Type	Element
Identifier	Patient.indigenous-status

Definition

Description	National Health Data Dictionary (NHDD) based indigenous status for a patient.
Description Source	HL7 Australia [HL7AUBIG]
Type	Coding[68]
Type Source	HL7 Australia [HL7AUBIG]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]
Notes	An indicator of identification as an Aboriginal and/or Torres Strait Islander.
Notes Source	Australian Institute of Health and Welfare [AIHW2009]

Terminology Binding

Terminology Binding	Australian Indigenous Status[69] (required[70])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[71]

---

[68] http://hl7.org/fhir/STU3/datatypes.html#Coding
[69] https://healthterminologies.gov.au/fhir/ValueSet/australian-indigenous-status-1
[70] http://hl7.org/fhir/STU3/terminologies.html#required
[71] http://hl7.org/fhir/STU3/domainresource.html

4.5 closing-the-gap-registration

Identification

Name	closing-the-gap-registration
Type	Element
Identifier	Patient.closing-the-gap-registration

Definition

Description	Closing the Gap registration indicator for an Australian patient.
Description Source	HL7 Australia [HL7AUBIG]
Type	boolean[72]
Type Source	HL7 Australia [HL7AUBIG]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]
Notes	An indicator of whether the patient is eligible for a Closing the Gap (CTG) co-payment.
Notes Source	Australian Institute of Health and Welfare [AIHW2009]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[73]

---

[72] http://hl7.org/fhir/STU3/datatypes.html#boolean
[73] http://hl7.org/fhir/STU3/domainresource.html

4.6 patient-mothersMaidenName

Identification

Name	patient-mothersMaidenName
Type	Element
Identifier	Patient.patient-mothersMaidenName

Definition

Description	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.
Description Source	HL7 Australia [HL7AUBIG]
Type	string[74]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[75]

---

[74] http://hl7.org/fhir/STU3/datatypes.html#string
[75] http://hl7.org/fhir/STU3/domainresource.html

4.7 identifier

Identification

Name	identifier
Type	Element
Identifier	Patient.identifier

Definition

Description	An identifier for this patient.
Description Source	HL7 [HL7FHIR3]
Type	Identifier[76]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier. Patients are almost always assigned specific numerical identifiers.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-pat-03: The patient SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[77]

---

[76] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[77] http://hl7.org/fhir/STU3/domainresource.html

4.8 active

Identification

Name	active
Type	Element
Identifier	Patient.active

Definition

Description	Whether this patient record is in active use.
Description Source	HL7 [HL7FHIR3]
Type	boolean[78]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Default is true. If a record is inactive, and linked to an active record, then future patient/record updates should occur on the other patient.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[79]

---

[78] http://hl7.org/fhir/STU3/datatypes.html#boolean
[79] http://hl7.org/fhir/STU3/domainresource.html

4.9 name

Identification

Name	name
Type	Element
Identifier	Patient.name

Definition

Description	A name associated with the individual.
Description Source	HL7 [HL7FHIR3]
Type	HumanName[80] as Base HumanName
Type Source	Australian Digital Health Agency
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-pat-03: The patient SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[81]

---

[80] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[81] http://hl7.org/fhir/STU3/domainresource.html

4.10 telecom

Identification

Name	telecom
Type	Element
Identifier	Patient.telecom

Definition

Description	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[82]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[83]

---

[82] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[83] http://hl7.org/fhir/STU3/domainresource.html

4.11 gender

Identification

Name	gender
Type	Element
Identifier	Patient.gender

Definition

Description	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.
Description Source	HL7 [HL7FHIR3]
Type	code[84]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	The gender may not match the biological sex as determined by genetics, or the individual's preferred identification.
Notes Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	AdministrativeGender[85] (required[86])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[87]

---

[84] http://hl7.org/fhir/STU3/datatypes.html#code
[85] http://hl7.org/fhir/STU3/valueset-administrative-gender.html
[86] http://hl7.org/fhir/STU3/terminologies.html#required
[87] http://hl7.org/fhir/STU3/domainresource.html

4.12 birthDate

Identification

Name	birthDate
Type	Element
Identifier	Patient.birthDate

Definition

Description	The date of birth for the individual.
Description Source	HL7 [HL7FHIR3]
Type	date[88]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-pat-0: If there is a birth time its date SHALL be the birth date
Constraints Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[89]

Children

Name	Occurrences	Type
date-accuracy-indicator	0..1	Coding[90]
birthTime	0..1	dateTime[91]

---

[88] http://hl7.org/fhir/STU3/datatypes.html#date
[89] http://hl7.org/fhir/STU3/domainresource.html
[90] http://hl7.org/fhir/STU3/datatypes.html#Coding
[91] http://hl7.org/fhir/STU3/datatypes.html#dateTime

4.13 date-accuracy-indicator

Identification

Name	date-accuracy-indicator
Type	Element
Identifier	Patient.birthDate.date-accuracy-indicator

Definition

Description	General date accuracy indicator coding.
Description Source	HL7 Australia [HL7AUBIG]
Type	Coding[92]
Type Source	HL7 Australia [HL7AUBIG]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]
Notes	In some circumstances, systems may only capture date or datetime data that has unknown or estimated parts. This coding establishes the accuracy of the day, month and year parts.
Notes Source	HL7 Australia [HL7AUBIG]

Terminology Binding

Terminology Binding	Date Accuracy Indicator[93] (required[94])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
birthDate	0..1	date[95]

---

[92] http://hl7.org/fhir/STU3/datatypes.html#Coding
[93] https://healthterminologies.gov.au/fhir/ValueSet/date-accuracy-indicator-1
[94] http://hl7.org/fhir/STU3/terminologies.html#required
[95] http://hl7.org/fhir/STU3/datatypes.html#date

4.14 birthTime

Identification

Name	birthTime
Type	Element
Identifier	Patient.birthDate.birthTime

Definition

Description	The time of day that the Patient was born.
Description Source	HL7 [HL7FHIR3]
Type	dateTime[96]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]
Notes	This includes the date to ensure that the timezone information can be communicated effectively.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-pat-0: If there is a birth time its date SHALL be the birth date
Constraints Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
birthDate	0..1	date[97]

---

[96] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[97] http://hl7.org/fhir/STU3/datatypes.html#date

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4.15 deceased

Identification

Name	deceased
Type	Element
Identifier	Patient.deceased

Definition

Description	Indicates if the individual is deceased or not.
Description Source	HL7 [HL7FHIR3]
Type	boolean[98]
	dateTime[99]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	The date-accuracy-indicator only applies when deceased is of type dateTime.
Notes Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[100]

Children

Name	Occurrences	Type
date-accuracy-indicator	0..1	Coding[101]

---

[98] http://hl7.org/fhir/STU3/datatypes.html#boolean
[99] http://hl7.org/fhir/STU3/datatypes.html#dateTime
[100] http://hl7.org/fhir/STU3/domainresource.html
[101] http://hl7.org/fhir/STU3/datatypes.html#Coding

4.16 date-accuracy-indicator

Identification

Name	date-accuracy-indicator
Type	Element
Identifier	Patient.deceased.date-accuracy-indicator

Definition

Description	General date accuracy indicator coding.
Description Source	HL7 Australia [HL7AUBIG]
Type	Coding[102]
Type Source	HL7 Australia [HL7AUBIG]
Cardinality	0..1
Cardinality Source	HL7 Australia [HL7AUBIG]
Notes	In some circumstances, systems may only capture date or datetime data that has unknown or estimated parts. This coding establishes the accuracy of the day, month and year parts.
Notes Source	HL7 Australia [HL7AUBIG]

Terminology Binding

Terminology Binding	Date Accuracy Indicator[103] (required[104])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
deceased	0..1	dateTime[105]

---

[102] http://hl7.org/fhir/STU3/datatypes.html#Coding
[103] https://healthterminologies.gov.au/fhir/ValueSet/date-accuracy-indicator-1
[104] http://hl7.org/fhir/STU3/terminologies.html#required
[105] http://hl7.org/fhir/STU3/datatypes.html#dateTime

4.17 address

Identification

Name	address
Type	Element
Identifier	Patient.address

Definition

Description	Addresses for the individual.
Description Source	HL7 [HL7FHIR3]
Type	Address[106]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[107]

---

[106] http://hl7.org/fhir/STU3/datatypes.html#address
[107] http://hl7.org/fhir/STU3/domainresource.html

4.18 maritalStatus

Identification

Name	maritalStatus
Type	Element
Identifier	Patient.maritalStatus

Definition

Description	This field contains a patient's most recent marital (civil) status.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[108]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Marital Status Codes[109] (extensible[110])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[111]

---

[108] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[109] http://hl7.org/fhir/STU3/valueset-marital-status.html
[110] http://hl7.org/fhir/STU3/terminologies.html#extensible
[111] http://hl7.org/fhir/STU3/domainresource.html

4.19 multipleBirth

Identification

Name	multipleBirth
Type	Element
Identifier	Patient.multipleBirth

Definition

Description	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).
Description Source	HL7 [HL7FHIR3]
Type	boolean[112]
	integer[113]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[114]

---

[112] http://hl7.org/fhir/STU3/datatypes.html#boolean
[113] http://hl7.org/fhir/STU3/datatypes.html#integer
[114] http://hl7.org/fhir/STU3/domainresource.html

4.20 contact

Identification

Name	contact
Type	Element
Identifier	Patient.contact

Definition

Description	A contact party (e.g. guardian, partner, friend) for the patient.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[115]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	pat-1: SHALL at least contain a contact's details or a reference to an organization
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[116]

Children

Name	Occurrences	Type
relationship	0..*	CodeableConcept[117]
name	0..1	HumanName[118] as Base HumanName
telecom	0..*	ContactPoint[119]
address	0..1	Address[120]
gender	0..1	code[121]
organization	0..1	Reference[122](Organization[123] as Base Organization)

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[115] http://hl7.org/fhir/STU3/backboneelement.html
[116] http://hl7.org/fhir/STU3/domainresource.html
[117] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[118] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[119] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[120] http://hl7.org/fhir/STU3/datatypes.html#address
[121] http://hl7.org/fhir/STU3/datatypes.html#code
[122] http://hl7.org/fhir/STU3/references.html
[123] http://hl7.org/fhir/STU3/organization.html

Name	Occurrences	Type
period	0..1	Period[124]

---

[124] http://hl7.org/fhir/STU3/datatypes.html#Period

4.21 relationship

Identification

Name	relationship
Type	Element
Identifier	Patient.contact.relationship

Definition

Description	The nature of the relationship between the patient and the contact person.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[125]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Contact Relationship Type[126] (extensible[127])
Terminology Binding Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..*	BackboneElement[128]

---

[125] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[126] https://healthterminologies.gov.au/fhir/ValueSet/contact-relationship-type-1
[127] http://hl7.org/fhir/STU3/terminologies.html#extensible
[128] http://hl7.org/fhir/STU3/backboneelement.html

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4.22 name

Identification

Name	name
Type	Element
Identifier	Patient.contact.name

Definition

Description	A name associated with the contact person.
Description Source	HL7 [HL7FHIR3]
Type	HumanName[129] as Base HumanName
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Contact persons need to be identified by name, but it is uncommon to need details about multiple other names for that contact person.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	pat-1: SHALL at least contain a contact's details or a reference to an organization
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[130]

---

[129] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[130] http://hl7.org/fhir/STU3/backboneelement.html

4.23 telecom

Identification

Name	telecom
Type	Element
Identifier	Patient.contact.telecom

Definition

Description	A contact detail for the person, e.g. a telephone number or an email address.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[131]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	pat-1: SHALL at least contain a contact's details or a reference to an organization
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..*	BackboneElement[132]

---

[131] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[132] http://hl7.org/fhir/STU3/backboneelement.html

4.24 address

Identification

Name	address
Type	Element
Identifier	Patient.contact.address

Definition

Description	Address for the contact person.
Description Source	HL7 [HL7FHIR3]
Type	Address[133]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	pat-1: SHALL at least contain a contact's details or a reference to an organization
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[134]

---

[133] http://hl7.org/fhir/STU3/datatypes.html#address
[134] http://hl7.org/fhir/STU3/backboneelement.html

4.25 gender

Identification

Name	gender
Type	Element
Identifier	Patient.contact.gender

Definition

Description	Administrative Gender - the gender that the contact person is considered to have for administration and record keeping purposes.
Description Source	HL7 [HL7FHIR3]
Type	code[135]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	AdministrativeGender[136] (required[137])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[138]

---

[135] http://hl7.org/fhir/STU3/datatypes.html#code
[136] http://hl7.org/fhir/STU3/valueset-administrative-gender.html
[137] http://hl7.org/fhir/STU3/terminologies.html#required
[138] http://hl7.org/fhir/STU3/backboneelement.html

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4.26 organization

Identification

Name	organization
Type	Element
Identifier	Patient.contact.organization

Definition

Description	Organization on behalf of which the contact is acting or for which the contact is working.
Description Source	HL7 [HL7FHIR3]
Type	Reference[139](Organization[140] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	pat-1: SHALL at least contain a contact's details or a reference to an organization
Constraints Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[141]

---

[139] http://hl7.org/fhir/STU3/references.html
[140] http://hl7.org/fhir/STU3/organization.html
[141] http://hl7.org/fhir/STU3/backboneelement.html

4.27 period

Identification

Name	period
Type	Element
Identifier	Patient.contact.period

Definition

Description	The period during which this contact person or organization is valid to be contacted relating to this patient.
Description Source	HL7 [HL7FHIR3]
Type	Period[142]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
contact	0..1	BackboneElement[143]

---

[142] http://hl7.org/fhir/STU3/datatypes.html#Period
[143] http://hl7.org/fhir/STU3/backboneelement.html

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4.28 communication

Identification

Name	communication
Type	Element
Identifier	Patient.communication

Definition

Description	Languages which may be used to communicate with the patient about his or her health.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[144]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[145]

Children

Name	Occurrences	Type
language	1..1	CodeableConcept[146]
preferred	0..1	boolean[147]

---

[144] http://hl7.org/fhir/STU3/backboneelement.html
[145] http://hl7.org/fhir/STU3/domainresource.html
[146] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[147] http://hl7.org/fhir/STU3/datatypes.html#boolean

4.29 language

Identification

Name	language
Type	Element
Identifier	Patient.communication.language

Definition

Description	The language which can be used to communicate with the patient about his or her health. The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. "en" for English, or "en-US" for American English versus "en-EN" for England English.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[148]
Type Source	HL7 [HL7FHIR3]
Cardinality	1..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Common Languages in Australia[149] (extensible[150])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	1..1	DomainResource[151]

---

[148] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[149] https://healthterminologies.gov.au/fhir/ValueSet/common-languages-australia-1
[150] http://hl7.org/fhir/STU3/terminologies.html#extensible
[151] http://hl7.org/fhir/STU3/domainresource.html

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4.30 preferred

Identification

Name	preferred
Type	Element
Identifier	Patient.communication.preferred

Definition

Description	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).
Description Source	HL7 [HL7FHIR3]
Type	boolean[152]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	This language is specifically identified for communicating healthcare information.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
communication	0..1	BackboneElement[153]

---

[152] http://hl7.org/fhir/STU3/datatypes.html#boolean
[153] http://hl7.org/fhir/STU3/backboneelement.html

4.31 generalPractitioner

Identification

Name	generalPractitioner
Type	Element
Identifier	Patient.generalPractitioner

Definition

Description	Patient's nominated care provider.
Description Source	HL7 [HL7FHIR3]
Type	Reference[154](Practitioner[155] as Base Practitioner | Organization[156] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This may be the primary care provider (in a GP context), or it may be a patient nominated care manager in a community/disablity setting, or even organization that will provide people to perform the care provider roles. It is not to be used to record Care Teams, these should be in a CareTeam resource that may be linked to the CarePlan or EpisodeOfCare resources.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..*	DomainResource[157]

---

[154] http://hl7.org/fhir/STU3/references.html
[155] http://hl7.org/fhir/STU3/practitioner.html
[156] http://hl7.org/fhir/STU3/organization.html
[157] http://hl7.org/fhir/STU3/domainresource.html

4.32 managingOrganization

Identification

Name	managingOrganization
Type	Element
Identifier	Patient.managingOrganization

Definition

Description	Organization that is the custodian of the patient record.
Description Source	HL7 [HL7FHIR3]
Type	Reference[158](Organization[159] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Patient	0..1	DomainResource[160]

---

[158] http://hl7.org/fhir/STU3/references.html
[159] http://hl7.org/fhir/STU3/organization.html
[160] http://hl7.org/fhir/STU3/domainresource.html

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5 Base Practitioner

This chapter describes version 1.0.0 of the *Base Practitioner* model. This model is derived from the [AU Base Practitioner](#)[1] profile of FHIR Release 3 (STU) [Practitioner](#)[2].

5.1 Base Practitioner

Purpose

To provide a base exchange model for the concept of a practitioner, defining fundamental concepts that form a conforming representation of a practitioner.

Use

To be used as a base model from which to further derive models for specific exchange usage scenarios in an Australian context and where it is desirable to provide some constraint to support unique identification of the practitioner.

As described in FHIR Release 3 (STU) [HL7FHIR3], Practitioner is used to identify and describe any person directly or in-directly involved in the provision of care, including doctors, nurses, clerical staff, specialist support staff, etc.

Model Identification

Title	Base Practitioner
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/practitioner-dh-base

Hierarchy

Practitioner			[DomainResource](#)[3]
	identifier	0..*	[Identifier](#)[4]
	active	0..1	[boolean](#)[5]
	name	0..*	[HumanName](#)[6] as Base HumanName
	telecom	0..*	[ContactPoint](#)[7]
	address	0..*	[Address](#)[8]
	gender	0..1	[code](#)[9]
	birthDate	0..1	[date](#)[10]
	~~photo~~	0..0	[Attachment](#)[11]
	qualification	0..*	[BackboneElement](#)[12]

---

[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-practitioner.html
[2] http://hl7.org/fhir/STU3/practitioner.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[5] http://hl7.org/fhir/STU3/datatypes.html#boolean
[6] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[7] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[8] http://hl7.org/fhir/STU3/datatypes.html#address
[9] http://hl7.org/fhir/STU3/datatypes.html#code
[10] http://hl7.org/fhir/STU3/datatypes.html#date
[11] http://hl7.org/fhir/STU3/datatypes.html#Attachment
[12] http://hl7.org/fhir/STU3/backboneelement.html

		identifier	0..*	Identifier[13]
		code	1..1	CodeableConcept[14]
		period	0..1	Period[15]
		issuer	0..1	Reference[16](Organization[17] as Base Organization)
	communication		0..*	CodeableConcept[18]

---

[13] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[14] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[15] http://hl7.org/fhir/STU3/datatypes.html#Period
[16] http://hl7.org/fhir/STU3/references.html
[17] http://hl7.org/fhir/STU3/organization.html
[18] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept

5.2 Practitioner

Identification

Name	Practitioner
Type	Resource
Identifier	Practitioner

Definition

Description	A person who is directly or indirectly involved in the provisioning of healthcare.
Description Source	HL7 [HL7FHIR3]
Type	DomainResource[19]
Type Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-prac-01: The practitioner SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Children

Name	Occurrences	Type
identifier	0..*	Identifier[20]
active	0..1	boolean[21]
name	0..*	HumanName[22] as Base HumanName
telecom	0..*	ContactPoint[23]
address	0..*	Address[24]
gender	0..1	code[25]
birthDate	0..1	date[26]
~~photo~~	0..0	Attachment[27]
qualification	0..*	BackboneElement[28]
communication	0..*	CodeableConcept[29]

---

[19] http://hl7.org/fhir/STU3/domainresource.html
[20] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[21] http://hl7.org/fhir/STU3/datatypes.html#boolean
[22] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[23] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[24] http://hl7.org/fhir/STU3/datatypes.html#address
[25] http://hl7.org/fhir/STU3/datatypes.html#code
[26] http://hl7.org/fhir/STU3/datatypes.html#date
[27] http://hl7.org/fhir/STU3/datatypes.html#Attachment
[28] http://hl7.org/fhir/STU3/backboneelement.html
[29] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept

5.3 identifier

Identification

Name	identifier
Type	Element
Identifier	Practitioner.identifier

Definition

Description	An identifier that applies to this person in this role.
Description Source	HL7 [HL7FHIR3]
Type	Identifier[30]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-prac-01: The practitioner SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[31]

---

[30] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[31] http://hl7.org/fhir/STU3/domainresource.html

5.4 active

Identification

Name	active
Type	Element
Identifier	Practitioner.active

Definition

Description	Whether this practitioner's record is in active use.
Description Source	HL7 [HL7FHIR3]
Type	boolean[32]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Default is true. If the practitioner is not in use by one organization, then it should mark the period on the PractitonerRole with an end date (even if they are active) as they may be active in another role.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..1	DomainResource[33]

---

[32] http://hl7.org/fhir/STU3/datatypes.html#boolean
[33] http://hl7.org/fhir/STU3/domainresource.html

5.5 name

Identification

Name	name
Type	Element
Identifier	Practitioner.name

Definition

Description	The name(s) associated with the practitioner.
Description Source	HL7 [HL7FHIR3]
Type	HumanName[34] as Base HumanName
Type Source	Australian Digital Health Agency
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-prac-01: The practitioner SHALL at least have an identifier or a name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[35]

---

[34] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[35] http://hl7.org/fhir/STU3/domainresource.html

5.6 telecom

Identification

Name	telecom
Type	Element
Identifier	Practitioner.telecom

Definition

Description	A contact detail for the practitioner, e.g. a telephone number or an email address.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[36]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[37]

---

[36] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[37] http://hl7.org/fhir/STU3/domainresource.html

5.7 address

Identification

Name	address
Type	Element
Identifier	Practitioner.address

Definition

Description	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.
Description Source	HL7 [HL7FHIR3]
Type	Address[38]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[39]

---

[38] http://hl7.org/fhir/STU3/datatypes.html#address
[39] http://hl7.org/fhir/STU3/domainresource.html

5.8 gender

Identification

Name	gender
Type	Element
Identifier	Practitioner.gender

Definition

Description	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.
Description Source	HL7 [HL7FHIR3]
Type	code[40]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	AdministrativeGender[41] (required[42])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..1	DomainResource[43]

---

[40] http://hl7.org/fhir/STU3/datatypes.html#code
[41] http://hl7.org/fhir/STU3/valueset-administrative-gender.html
[42] http://hl7.org/fhir/STU3/terminologies.html#required
[43] http://hl7.org/fhir/STU3/domainresource.html

5.9 birthDate

Identification

Name	birthDate
Type	Element
Identifier	Practitioner.birthDate

Definition

Description	The date of birth for the practitioner.
Description Source	HL7 [HL7FHIR3]
Type	date[44]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..1	DomainResource[45]

---

[44] http://hl7.org/fhir/STU3/datatypes.html#date
[45] http://hl7.org/fhir/STU3/domainresource.html

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5.10 qualification

Identification

Name	qualification
Type	Element
Identifier	Practitioner.qualification

Definition

Description	Qualifications obtained by training and certification.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[46]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[47]

Children

Name	Occurrences	Type
identifier	0..*	Identifier[48]
code	1..1	CodeableConcept[49]
period	0..1	Period[50]
issuer	0..1	Reference[51](Organization[52] as Base Organization)

---

[46] http://hl7.org/fhir/STU3/backboneelement.html
[47] http://hl7.org/fhir/STU3/domainresource.html
[48] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[49] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[50] http://hl7.org/fhir/STU3/datatypes.html#Period
[51] http://hl7.org/fhir/STU3/references.html
[52] http://hl7.org/fhir/STU3/organization.html

5.11 identifier

Identification

Name	identifier
Type	Element
Identifier	Practitioner.qualification.identifier

Definition

Description	An identifier that applies to this person's qualification in this role.
Description Source	HL7 [HL7FHIR3]
Type	Identifier[53]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
qualification	0..*	BackboneElement[54]

---

[53] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[54] http://hl7.org/fhir/STU3/backboneelement.html

5.12 code

Identification

Name	code
Type	Element
Identifier	Practitioner.qualification.code

Definition

Description	Coded representation of the qualification.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[55]
Type Source	HL7 [HL7FHIR3]
Cardinality	1..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	v2 table 0360, Version 2.7[56] (example[57])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
qualification	1..1	BackboneElement[58]

---

[55] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[56] http://hl7.org/fhir/v2/0360/2.7/index.html
[57] http://hl7.org/fhir/STU3/terminologies.html#example
[58] http://hl7.org/fhir/STU3/backboneelement.html

5.13 period

Identification

Name	period
Type	Element
Identifier	Practitioner.qualification.period

Definition

Description	Period during which the qualification is valid.
Description Source	HL7 [HL7FHIR3]
Type	Period[59]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
qualification	0..1	BackboneElement[60]

---

[59] http://hl7.org/fhir/STU3/datatypes.html#Period
[60] http://hl7.org/fhir/STU3/backboneelement.html

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5.14 issuer

Identification

Name	issuer
Type	Element
Identifier	Practitioner.qualification.issuer

Definition

Description	Organization that regulates and issues the qualification.
Description Source	HL7 [HL7FHIR3]
Type	Reference[61](Organization[62] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
qualification	0..1	BackboneElement[63]

---

[61] http://hl7.org/fhir/STU3/references.html
[62] http://hl7.org/fhir/STU3/organization.html
[63] http://hl7.org/fhir/STU3/backboneelement.html

5.15 communication

Identification

Name	communication
Type	Element
Identifier	Practitioner.communication

Definition

Description	A language the practitioner is able to use in patient communication.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[64]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Common Languages in Australia[65] (extensible[66])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
Practitioner	0..*	DomainResource[67]

---

[64] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[65] https://healthterminologies.gov.au/fhir/ValueSet/common-languages-australia-1
[66] http://hl7.org/fhir/STU3/terminologies.html#extensible
[67] http://hl7.org/fhir/STU3/domainresource.html

6 Base PractitionerRole

This chapter describes version 1.0.0 of the *Base PractitionerRole* model. This model is derived from the [AU Base Practitioner Role](#)[1] profile of FHIR Release 3 (STU) [PractitionerRole](#)[2].

6.1 Base PractitionerRole

Purpose

To provide a base model for the concept of a practitioner role, defining fundamental concepts that form a conforming representation of a practitioner role.

Use

To be used as a base model from which to further derive models for specific usage scenarios in an Australian context.

As described in FHIR Release 3 (STU) [HL7FHIR3], PractitionerRole is used to identify and describe the roles, location and types of services that practitioners are able to provide for an organization. A PractitionerRole is associated with at most one Practitioner.

Model Identification

Title	Base PractitionerRole
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/practitionerrole-dh-base

Hierarchy

PractitionerRole			[DomainResource](#)[3]
	identifier	0..*	[Identifier](#)[4]
	active	0..1	[boolean](#)[5]
	period	0..1	[Period](#)[6]
	practitioner	0..1	[Reference](#)[7]([Practitioner](#)[8] as Base Practitioner)
	organization	0..1	[Reference](#)[9]([Organization](#)[10] as Base Organization)
	code	0..*	[CodeableConcept](#)[11]
	specialty	0..*	[CodeableConcept](#)[12]

---

[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-practitionerrole.html
[2] http://hl7.org/fhir/STU3/practitionerrole.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[5] http://hl7.org/fhir/STU3/datatypes.html#boolean
[6] http://hl7.org/fhir/STU3/datatypes.html#Period
[7] http://hl7.org/fhir/STU3/references.html
[8] http://hl7.org/fhir/STU3/practitioner.html
[9] http://hl7.org/fhir/STU3/references.html
[10] http://hl7.org/fhir/STU3/organization.html
[11] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[12] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept

	location		0..*	Reference[13](Location[14])
	healthcareService		0..*	Reference[15](HealthcareService[16])
	telecom		0..*	ContactPoint[17]
	availableTime		0..*	BackboneElement[18]
		daysOfWeek	0..*	code[19]
		allDay	0..1	boolean[20]
		availableStartTime	0..1	time[21]
		availableEndTime	0..1	time[22]
	notAvailable		0..*	BackboneElement[23]
		description	1..1	string[24]
		during	0..1	Period[25]
	availabilityExceptions		0..1	string[26]

---

[13] http://hl7.org/fhir/STU3/references.html
[14] http://hl7.org/fhir/STU3/location.html
[15] http://hl7.org/fhir/STU3/references.html
[16] http://hl7.org/fhir/STU3/healthcareservice.html
[17] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[18] http://hl7.org/fhir/STU3/backboneelement.html
[19] http://hl7.org/fhir/STU3/datatypes.html#code
[20] http://hl7.org/fhir/STU3/datatypes.html#boolean
[21] http://hl7.org/fhir/STU3/datatypes.html#time
[22] http://hl7.org/fhir/STU3/datatypes.html#time
[23] http://hl7.org/fhir/STU3/backboneelement.html
[24] http://hl7.org/fhir/STU3/datatypes.html#string
[25] http://hl7.org/fhir/STU3/datatypes.html#Period
[26] http://hl7.org/fhir/STU3/datatypes.html#string

6.2 PractitionerRole

Identification

Name	PractitionerRole
Type	Resource
Identifier	PractitionerRole

Definition

Description	A specific set of Roles/Locations/specialties/services that a practitioner may perform at an organization for a period of time.
Description Source	HL7 [HL7FHIR3]
Type	DomainResource[27]
Type Source	HL7 [HL7FHIR3]

Relationships

Children

Name	Occurrences	Type
identifier	0..*	Identifier[28]
active	0..1	boolean[29]
period	0..1	Period[30]
practitioner	0..1	Reference[31](Practitioner[32] as Base Practitioner)
organization	0..1	Reference[33](Organization[34] as Base Organization)
code	0..*	CodeableConcept[35]
specialty	0..*	CodeableConcept[36]
location	0..*	Reference[37](Location[38])
healthcareService	0..*	Reference[39](HealthcareService[40])
telecom	0..*	ContactPoint[41]
availableTime	0..*	BackboneElement[42]
notAvailable	0..*	BackboneElement[43]

---

[27] http://hl7.org/fhir/STU3/domainresource.html
[28] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[29] http://hl7.org/fhir/STU3/datatypes.html#boolean
[30] http://hl7.org/fhir/STU3/datatypes.html#Period
[31] http://hl7.org/fhir/STU3/references.html
[32] http://hl7.org/fhir/STU3/practitioner.html
[33] http://hl7.org/fhir/STU3/references.html
[34] http://hl7.org/fhir/STU3/organization.html
[35] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[36] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[37] http://hl7.org/fhir/STU3/references.html
[38] http://hl7.org/fhir/STU3/location.html
[39] http://hl7.org/fhir/STU3/references.html
[40] http://hl7.org/fhir/STU3/healthcareservice.html
[41] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[42] http://hl7.org/fhir/STU3/backboneelement.html
[43] http://hl7.org/fhir/STU3/backboneelement.html

Name	Occurrences	Type
availabilityExceptions	0..1	string[44]

6.3 identifier

Identification

Name	identifier
Type	Element
Identifier	PractitionerRole.identifier

Definition

Description	Business identifiers for practitioner in a role.
Description Source	HL7 Australia [HL7AUBIG]
Type	Identifier[45]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[46]

---

[45] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[46] http://hl7.org/fhir/STU3/domainresource.html

6.4 active

Identification

Name	active
Type	Element
Identifier	PractitionerRole.active

Definition

Description	Whether this practitioner's record is in active use.
Description Source	HL7 [HL7FHIR3]
Type	boolean[47]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Default is true. If the practitioner is not in use by one organization, then it should mark the period on the PractitonerRole with an end date (even if they are active) as they may be active in another role.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[48]

---

[47] http://hl7.org/fhir/STU3/datatypes.html#boolean
[48] http://hl7.org/fhir/STU3/domainresource.html

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6.5 period

Identification

Name	period
Type	Element
Identifier	PractitionerRole.period

Definition

Description	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.
Description Source	HL7 [HL7FHIR3]
Type	Period[49]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[50]

---

[49] http://hl7.org/fhir/STU3/datatypes.html#Period
[50] http://hl7.org/fhir/STU3/domainresource.html

6.6 practitioner

Identification

Name	practitioner
Type	Element
Identifier	PractitionerRole.practitioner

Definition

Description	Practitioner that is able to provide the defined services for the organation.
Description Source	HL7 [HL7FHIR3]
Type	Reference[51](Practitioner[52] as Base Practitioner)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[53]

---

[51] http://hl7.org/fhir/STU3/references.html
[52] http://hl7.org/fhir/STU3/practitioner.html
[53] http://hl7.org/fhir/STU3/domainresource.html

6.7 organization

Identification

Name	organization
Type	Element
Identifier	PractitionerRole.organization

Definition

Description	The organization where the Practitioner performs the roles associated.
Description Source	HL7 [HL7FHIR3]
Type	Reference[54](Organization[55] as Base Organization)
Type Source	Australian Digital Health Agency
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[56]

---

[54] http://hl7.org/fhir/STU3/references.html
[55] http://hl7.org/fhir/STU3/organization.html
[56] http://hl7.org/fhir/STU3/domainresource.html

6.8 code

Identification

Name	code
Type	Element
Identifier	PractitionerRole.code

Definition

Description	Roles which this practitioner is authorized to perform for the organization.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[57]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Australian and New Zealand Standard Classification of Occupations[58] (preferred[59]) or Practitioner Role[60] (preferred[61])[1]
Terminology Binding Source	Australian Digital Health Agency

[1]Note: The source representation of this terminology binding in AU Base Practitioner Role [http://hl7.org.au/fhir/base2018Oct/-StructureDefinition-au-practitionerrole.html] is an optional slice on the coding [http://hl7.org/fhir/STU3/datatypes.html#Coding] part of the code element. In the representation of the model presented in this specification it is normalised as a preferred binding.

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[62]

---

[57] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[58] https://healthterminologies.gov.au/fhir/ValueSet/anzsco-1
[59] http://hl7.org/fhir/STU3/terminologies.html#preferred
[60] https://healthterminologies.gov.au/fhir/ValueSet/practitioner-role-1
[61] http://hl7.org/fhir/STU3/terminologies.html#preferred
[62] http://hl7.org/fhir/STU3/domainresource.html

6.9 specialty

Identification

Name	specialty
Type	Element
Identifier	PractitionerRole.specialty

Definition

Description	Specific specialty of the practitioner.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[63]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	Provider Specialties (SNOMED)[64] (preferred[65])[1]
Terminology Binding Source	HL7 Australia [HL7AUBIG]

[1]Note: The source representation of this terminology binding in AU Base Practitioner Role [http://hl7.org.au/fhir/base2018Oct/-StructureDefinition-au-practitionerrole.html] is an optional slice on the coding [http://hl7.org/fhir/STU3/datatypes.html#Coding] part of the specialty element. In the representation of the model presented in this specification it is normalised as a preferred binding.

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[66]

---

[63] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[64] http://build.fhir.org/ig/hl7au/au-fhir-base/Valueset-snomed-practitioner-role.html
[65] http://hl7.org/fhir/STU3/terminologies.html#preferred
[66] http://hl7.org/fhir/STU3/domainresource.html

6.10 location

Identification

Name	location
Type	Element
Identifier	PractitionerRole.location

Definition

Description	The location(s) at which this practitioner provides care.
Description Source	HL7 [HL7FHIR3]
Type	Reference[67](Location[68])
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[69]

---

[67] http://hl7.org/fhir/STU3/references.html
[68] http://hl7.org/fhir/STU3/location.html
[69] http://hl7.org/fhir/STU3/domainresource.html

6.11 healthcareService

Identification

Name	healthcareService
Type	Element
Identifier	PractitionerRole.healthcareService

Definition

Description	The list of healthcare services that this worker provides for this role's Organization/Location(s).
Description Source	HL7 [HL7FHIR3]
Type	Reference[70](HealthcareService[71])
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[72]

---

[70] http://hl7.org/fhir/STU3/references.html
[71] http://hl7.org/fhir/STU3/healthcareservice.html
[72] http://hl7.org/fhir/STU3/domainresource.html

6.12 telecom

Identification

Name	telecom
Type	Element
Identifier	PractitionerRole.telecom

Definition

Description	Contact details that are specific to the role/location/service.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[73]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[74]

---

[73] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[74] http://hl7.org/fhir/STU3/domainresource.html

6.13 availableTime

Identification

Name	availableTime
Type	Element
Identifier	PractitionerRole.availableTime

Definition

Description	A collection of times that the Service Site is available.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[75]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[76]

Children

Name	Occurrences	Type
daysOfWeek	0..*	code[77]
allDay	0..1	boolean[78]
availableStartTime	0..1	time[79]
availableEndTime	0..1	time[80]

---

[75] http://hl7.org/fhir/STU3/backboneelement.html
[76] http://hl7.org/fhir/STU3/domainresource.html
[77] http://hl7.org/fhir/STU3/datatypes.html#code
[78] http://hl7.org/fhir/STU3/datatypes.html#boolean
[79] http://hl7.org/fhir/STU3/datatypes.html#time
[80] http://hl7.org/fhir/STU3/datatypes.html#time

6.14 daysOfWeek

Identification

Name	daysOfWeek
Type	Element
Identifier	PractitionerRole.availableTime.daysOfWeek

Definition

Description	Indicates which days of the week are available between the start and end Times.
Description Source	HL7 [HL7FHIR3]
Type	code[81]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	DaysOfWeek[82] (required[83])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
availableTime	0..*	BackboneElement[84]

---

[81] http://hl7.org/fhir/STU3/datatypes.html#code
[82] http://hl7.org/fhir/STU3/valueset-days-of-week.html
[83] http://hl7.org/fhir/STU3/terminologies.html#required
[84] http://hl7.org/fhir/STU3/backboneelement.html

6.15 allDay

Identification

Name	allDay
Type	Element
Identifier	PractitionerRole.availableTime.allDay

Definition

Description	Is this always available? (hence times are irrelevant) e.g. 24 hour service.
Description Source	HL7 [HL7FHIR3]
Type	boolean[85]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
availableTime	0..1	BackboneElement[86]

---

[85] http://hl7.org/fhir/STU3/datatypes.html#boolean
[86] http://hl7.org/fhir/STU3/backboneelement.html

6.16 availableStartTime

Identification

Name	availableStartTime
Type	Element
Identifier	PractitionerRole.availableTime.availableStartTime

Definition

Description	The opening time of day. Note: If the AllDay flag is set, then this time is ignored.
Description Source	HL7 [HL7FHIR3]
Type	time[87]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
availableTime	0..1	BackboneElement[88]

---

[87] http://hl7.org/fhir/STU3/datatypes.html#time
[88] http://hl7.org/fhir/STU3/backboneelement.html

6.17 availableEndTime

Identification

Name	address
Type	Element
Identifier	PractitionerRole.availableTime.availableEndTime

Definition

Description	The closing time of day. Note: If the AllDay flag is set, then this time is ignored.
Description Source	HL7 [HL7FHIR3]
Type	time[89]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
availableTime	0..1	BackboneElement[90]

---

[89] http://hl7.org/fhir/STU3/datatypes.html#time
[90] http://hl7.org/fhir/STU3/backboneelement.html

6.18 notAvailable

Identification

Name	notAvailable
Type	Element
Identifier	PractitionerRole.notAvailable

Definition

Description	The HealthcareService is not available during this period of time due to the provided reason.
Description Source	HL7 [HL7FHIR3]
Type	BackboneElement[91]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..*	DomainResource[92]

Children

Name	Occurrences	Type
description	1..1	string[93]
during	0..1	boolean[94]

---

[91] http://hl7.org/fhir/STU3/backboneelement.html
[92] http://hl7.org/fhir/STU3/domainresource.html
[93] http://hl7.org/fhir/STU3/datatypes.html#string
[94] http://hl7.org/fhir/STU3/datatypes.html#boolean

6.19 description

Identification

Name	description
Type	Element
Identifier	PractitionerRole.notAvailable.description

Definition

Description	The reason that can be presented to the user as to why this time is not available.
Description Source	HL7 [HL7FHIR3]
Type	string[95]
Type Source	HL7 [HL7FHIR3]
Cardinality	1..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
notAvailable	1..1	BackboneElement[96]

---

[95] http://hl7.org/fhir/STU3/datatypes.html#string
[96] http://hl7.org/fhir/STU3/backboneelement.html

6.20 during

Identification

Name	during
Type	Element
Identifier	PractitionerRole.notAvailable.during

Definition

Description	Service is not available (seasonally or for a public holiday) from this date.
Description Source	HL7 [HL7FHIR3]
Type	Period[97]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
notAvailable	0..1	BackboneElement[98]

---

[97] http://hl7.org/fhir/STU3/datatypes.html#Period
[98] http://hl7.org/fhir/STU3/backboneelement.html

6.21 availabilityExceptions

Identification

Name	availabilityExceptions
Type	Element
Identifier	PractitionerRole.availabilityExceptions

Definition

Description	A description of site availability exceptions, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as details in the available Times and not available Times.
Description Source	HL7 [HL7FHIR3]
Type	string[99]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
PractitionerRole	0..1	DomainResource[100]

---

[99] http://hl7.org/fhir/STU3/datatypes.html#string
[100] http://hl7.org/fhir/STU3/domainresource.html

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7 Base RelatedPerson

This chapter describes version 1.0.0 of the *Base RelatedPerson* model. This model is derived from the [AU Base Related-Person](#)[1] profile of FHIR Release 3 (STU) [RelatedPerson](#)[2].

7.1 Base RelatedPerson

Purpose

To provide a base exchange model for the concept of a related person, defining fundamental concepts that form a conforming representation of a related person.

Use

To be used as a base model from which to further derive models for specific exchange usage scenarios in an Australian context and where it is desirable to provide some constraint to support unique identification of the related person.

As described in FHIR Release 3 (STU) [HL7FHIR3], RelatedPerson is used to describe individuals who are related to the patient who are involved in the healthcare process, beyond merely being next of kin - they may sign documents, administer medications, be the source of information, or simply provide care by chance at an accident.

Model Identification

Title	Base RelatedPerson
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/relatedperson-dh-base

Hierarchy

RelatedPerson			[DomainResource](#)[3]
	identifier	0..*	[Identifier](#)[4]
	active	0..1	[boolean](#)[5]
	patient	1..1	[Reference](#)[6]([Patient](#)[7] as Base Patient)
	relationship	0..1	[CodeableConcept](#)[8]
	name	0..*	[HumanName](#)[9] as Base HumanName
	telecom	0..*	[ContactPoint](#)[10]
	gender	0..1	[code](#)[11]
	birthDate	0..1	[date](#)[12]

---

[1] http://hl7.org.au/fhir/base2018Oct/StructureDefinition-au-relatedperson.html
[2] http://hl7.org/fhir/STU3/relatedperson.html
[3] http://hl7.org/fhir/STU3/domainresource.html
[4] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[5] http://hl7.org/fhir/STU3/datatypes.html#boolean
[6] http://hl7.org/fhir/STU3/references.html
[7] http://hl7.org/fhir/STU3/patient.html
[8] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[9] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[10] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[11] http://hl7.org/fhir/STU3/datatypes.html#code
[12] http://hl7.org/fhir/STU3/datatypes.html#date

	address	0..*	Address[13]
	~~photo~~	0..0	Attachment[14]
	period	0..1	Period[15]

---

[13] http://hl7.org/fhir/STU3/datatypes.html#address
[14] http://hl7.org/fhir/STU3/datatypes.html#Attachment
[15] http://hl7.org/fhir/STU3/datatypes.html#Period

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7.2 RelatedPerson

Identification

Name	RelatedPerson
Type	Resource
Identifier	RelatedPerson

Definition

Description	Information about a person that is involved in the care for a patient, but who is not the target of healthcare, nor has a formal responsibility in the care process.
Description Source	HL7 [HL7FHIR3]
Type	DomainResource[16]
Type Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-relper-01: The related person SHALL at least have a name, an identifier or a relationship with the patient
Constraints Source	Australian Digital Health Agency

Relationships

Children

Name	Occurrences	Type
identifier	0..*	Identifier[17]
active	0..1	boolean[18]
patient	1..1	Reference[19](Patient[20] as Base Patient)
relationship	0..1	CodeableConcept[21]
name	0..*	HumanName[22] as Base HumanName
telecom	0..*	ContactPoint[23]
gender	0..1	code[24]
birthDate	0..1	date[25]
address	0..*	Address[26]
~~photo~~	0..0	Attachment[27]

---

[16] http://hl7.org/fhir/STU3/domainresource.html
[17] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[18] http://hl7.org/fhir/STU3/datatypes.html#boolean
[19] http://hl7.org/fhir/STU3/references.html
[20] http://hl7.org/fhir/STU3/patient.html
[21] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[22] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[23] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[24] http://hl7.org/fhir/STU3/datatypes.html#code
[25] http://hl7.org/fhir/STU3/datatypes.html#date
[26] http://hl7.org/fhir/STU3/datatypes.html#address
[27] http://hl7.org/fhir/STU3/datatypes.html#Attachment

Name	Occurrences	Type
period	0..1	Period[28]

7.3 identifier

Identification

Name	identifier
Type	Element
Identifier	RelatedPerson.identifier

Definition

Description	Identifier for a person within a particular scope.
Description Source	HL7 [HL7FHIR3]
Type	Identifier[29]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	This is a business identifer, not a resource identifier. People are known by a variety of ids. Some institutions maintain several, and most collect identifiers for exchange with other organizations concerning the patient. Examples are national person identifier and local identifier.
Notes Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-relper-01: The related person SHALL at least have a name, an identifier or a relationship with the patient
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..*	DomainResource[30]

---

[29] http://hl7.org/fhir/STU3/datatypes.html#Identifier
[30] http://hl7.org/fhir/STU3/domainresource.html

7.4 active

Identification

Name	active
Type	Element
Identifier	RelatedPerson.active

Definition

Description	Whether this related person record is in active use.
Description Source	HL7 [HL7FHIR3]
Type	boolean[31]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]
Notes	Default is true. Need to be able to mark a related person record as not to be used, such as if it was created in error.
Notes Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..1	DomainResource[32]

---

[31] http://hl7.org/fhir/STU3/datatypes.html#boolean
[32] http://hl7.org/fhir/STU3/domainresource.html

7.5 patient

Identification

Name	patient
Type	Element
Identifier	RelatedPerson.patient

Definition

Description	The patient this person is related to.
Description Source	HL7 [HL7FHIR3]
Type	Reference[33](Patient[34] as Base Patient)
Type Source	Australian Digital Health Agency
Cardinality	1..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	1..1	DomainResource[35]

---

[33] http://hl7.org/fhir/STU3/references.html
[34] http://hl7.org/fhir/STU3/patient.html
[35] http://hl7.org/fhir/STU3/domainresource.html

7.6 relationship

Identification

Name	relationship
Type	Element
Identifier	RelatedPerson.relationship

Definition

Description	The nature of the relationship between a patient and the related person.
Description Source	HL7 [HL7FHIR3]
Type	CodeableConcept[36]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-relper-01: The related person SHALL at least have a name, an identifier or a relationship with the patient
Constraints Source	Australian Digital Health Agency

Terminology Binding

Terminology Binding	Related Person Relationship Type[37] (extensible[38])
Terminology Binding Source	HL7 Australia [HL7AUBIG]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..1	DomainResource[39]

---

[36] http://hl7.org/fhir/STU3/datatypes.html#CodeableConcept
[37] https://healthterminologies.gov.au/fhir/ValueSet/related-person-relationship-type-1
[38] http://hl7.org/fhir/STU3/terminologies.html#extensible
[39] http://hl7.org/fhir/STU3/domainresource.html

7.7 name

Identification

Name	name
Type	Element
Identifier	RelatedPerson.name

Definition

Description	A name associated with the person.
Description Source	HL7 [HL7FHIR3]
Type	HumanName[40] as Base HumanName
Type Source	Australian Digital Health Agency
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-relper-01: The related person SHALL at least have a name, an identifier or a relationship with the patient
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..*	DomainResource[41]

---

[40] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[41] http://hl7.org/fhir/STU3/domainresource.html

7.8 telecom

Identification

Name	telecom
Type	Element
Identifier	RelatedPerson.telecom

Definition

Description	A contact detail for the person, e.g. a telephone number or an email address.
Description Source	HL7 [HL7FHIR3]
Type	ContactPoint[42]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..*	DomainResource[43]

---

[42] http://hl7.org/fhir/STU3/datatypes.html#ContactPoint
[43] http://hl7.org/fhir/STU3/domainresource.html

7.9 gender

Identification

Name	gender
Type	Element
Identifier	RelatedPerson.gender

Definition

Description	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.
Description Source	HL7 [HL7FHIR3]
Type	code[44]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	AdministrativeGender[45] (required[46])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..1	DomainResource[47]

---

[44] http://hl7.org/fhir/STU3/datatypes.html#code
[45] http://hl7.org/fhir/STU3/valueset-administrative-gender.html
[46] http://hl7.org/fhir/STU3/terminologies.html#required
[47] http://hl7.org/fhir/STU3/domainresource.html

7.10 birthDate

Identification

Name	birthDate
Type	Element
Identifier	RelatedPerson.birthDate

Definition

Description	The date on which the related person was born.
Description Source	HL7 [HL7FHIR3]
Type	date[48]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..1	DomainResource[49]

---

[48] http://hl7.org/fhir/STU3/datatypes.html#date
[49] http://hl7.org/fhir/STU3/domainresource.html

7.11 address

Identification

Name	address
Type	Element
Identifier	RelatedPerson.address

Definition

Description	Address where the related person can be contacted or visited.
Description Source	HL7 [HL7FHIR3]
Type	Address[50]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..*	DomainResource[51]

---

[50] http://hl7.org/fhir/STU3/datatypes.html#address
[51] http://hl7.org/fhir/STU3/domainresource.html

7.12 period

Identification

Name	period
Type	Element
Identifier	RelatedPerson.contact

Definition

Description	The period of time that this relationship is considered to be valid. If there are no dates defined, then the interval is unknown.
Description Source	HL7 [HL7FHIR3]
Type	Period[52]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
RelatedPerson	0..1	DomainResource[53]

---

[52] http://hl7.org/fhir/STU3/datatypes.html#Period
[53] http://hl7.org/fhir/STU3/domainresource.html

8 Base HumanName

This chapter describes version 1.0.0 of the *Base HumanName* model. This model is derived from FHIR Release 3 (STU) HumanName[1].

8.1 Base HumanName

Purpose

To provide a base model for the concept of a human name, defining fundamental concepts that form a conforming representation of a human name.

Use

This model is for use in an Australian context where some constraint on content is desirable to guarantee the quality of a human name.

Model Identification

Title	Base HumanName
URI	http://ns.electronichealth.net.au/ci/fhir/3.0/StructureDefinition/humanname-dh-base

Hierarchy

HumanName			Element[2]
	use	0..1	code[3]
	text	0..1	string[4]
	family	0..1	string[5]
	given	0..*	string[6]
	prefix	0..*	string[7]
	suffix	0..*	string[8]
	period	0..1	Period[9]

---

[1] http://hl7.org/fhir/STU3/datatypes.html#HumanName
[2] http://hl7.org/fhir/STU3/element.html
[3] http://hl7.org/fhir/STU3/datatypes.html#code
[4] http://hl7.org/fhir/STU3/datatypes.html#string
[5] http://hl7.org/fhir/STU3/datatypes.html#string
[6] http://hl7.org/fhir/STU3/datatypes.html#string
[7] http://hl7.org/fhir/STU3/datatypes.html#string
[8] http://hl7.org/fhir/STU3/datatypes.html#string
[9] http://hl7.org/fhir/STU3/datatypes.html#Period

8.2 HumanName

Identification

Name	HumanName
Type	Element
Identifier	HumanName

Definition

Description	A human's name with the ability to identify parts and usage.
Description Source	HL7 [HL7FHIR3]
Type	Element[10]
Type Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-humn-01: The name SHALL at least have text or a family name or a given name
Constraints Source	Australian Digital Health Agency

Relationships

Children

Name	Occurrences	Type
use	0..1	code[11]
text	0..1	string[12]
family	0..1	string[13]
given	0..*	string[14]
prefix	0..*	string[15]
suffix	0..*	string[16]
period	0..1	Period[17]

---

[10] http://hl7.org/fhir/STU3/element.html
[11] http://hl7.org/fhir/STU3/datatypes.html#code
[12] http://hl7.org/fhir/STU3/datatypes.html#string
[13] http://hl7.org/fhir/STU3/datatypes.html#string
[14] http://hl7.org/fhir/STU3/datatypes.html#string
[15] http://hl7.org/fhir/STU3/datatypes.html#string
[16] http://hl7.org/fhir/STU3/datatypes.html#string
[17] http://hl7.org/fhir/STU3/datatypes.html#Period

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8.3 use

Identification

Name	use
Type	Element
Identifier	HumanName.use

Definition

Description	Identifies the purpose for this name.
Description Source	HL7 [HL7FHIR3]
Type	code[18]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Terminology Binding

Terminology Binding	NameUse[19] (required[20])
Terminology Binding Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..1	Element[21]

---

[18] http://hl7.org/fhir/STU3/datatypes.html#code
[19] http://hl7.org/fhir/STU3/valueset-name-use.html
[20] http://hl7.org/fhir/STU3/terminologies.html#required
[21] http://hl7.org/fhir/STU3/element.html

8.4 text

Identification

Name	text
Type	Element
Identifier	HumanName.text

Definition

Description	A full text representation of the name.
Description Source	HL7 [HL7FHIR3]
Type	string[22]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-humn-01: The name SHALL at least have text or a family name or a given name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..1	Element[23]

---

[22] http://hl7.org/fhir/STU3/datatypes.html#string
[23] http://hl7.org/fhir/STU3/element.html

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8.5 family

Identification

Name	family
Type	Element
Identifier	HumanName.family

Definition

Description	The part of a name that links to the genealogy.
Description Source	HL7 [HL7FHIR3]
Type	string[24]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-humn-01: The name SHALL at least have text or a family name or a given name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..1	Element[25]

---

[24] http://hl7.org/fhir/STU3/datatypes.html#string
[25] http://hl7.org/fhir/STU3/element.html

8.6 given

Identification

Name	given
Type	Element
Identifier	HumanName.given

Definition

Description	Given name.
Description Source	HL7 [HL7FHIR3]
Type	string[26]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]

Usage

Constraints	inv-dh-humn-01: The name SHALL at least have text or a family name or a given name
Constraints Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..*	Element[27]

---

[26] http://hl7.org/fhir/STU3/datatypes.html#string
[27] http://hl7.org/fhir/STU3/element.html

8.7 prefix

Identification

Name	prefix
Type	Element
Identifier	HumanName.prefix

Definition

Description	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the start of the name.
Description Source	HL7 [HL7FHIR3]
Type	string[28]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	Prefix values can be populated as described in AS 4846:2014 Person and provider identification in healthcare, 4.4.2 Name Title.
Notes Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..*	Element[29]

---

[28] http://hl7.org/fhir/STU3/datatypes.html#string
[29] http://hl7.org/fhir/STU3/element.html

8.8 suffix

Identification

Name	suffix
Type	Element
Identifier	HumanName.suffix

Definition

Description	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the end of the name.
Description Source	HL7 [HL7FHIR3]
Type	string[30]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..*
Cardinality Source	HL7 [HL7FHIR3]
Notes	Suffix values can be populated as described in AS 4846:2014 Person and provider identification in healthcare, 4.5.3.2 Name Suffix.
Notes Source	Australian Digital Health Agency

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..*	Element[31]

---

[30] http://hl7.org/fhir/STU3/datatypes.html#string
[31] http://hl7.org/fhir/STU3/element.html

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8.9 period

Identification

Name	period
Type	Element
Identifier	HumanName.period

Definition

Description	Indicates the period of time when this name was valid for the named person.
Description Source	HL7 [HL7FHIR3]
Type	Period[32]
Type Source	HL7 [HL7FHIR3]
Cardinality	0..1
Cardinality Source	HL7 [HL7FHIR3]

Relationships

Parents

Name	Occurrences (child within parent)	Type
HumanName	0..1	Element[33]

---

[32] http://hl7.org/fhir/STU3/datatypes.html#Period
[33] http://hl7.org/fhir/STU3/element.html

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