



Medicare Repositories Detailed Clinical Model Specification Version 1.2

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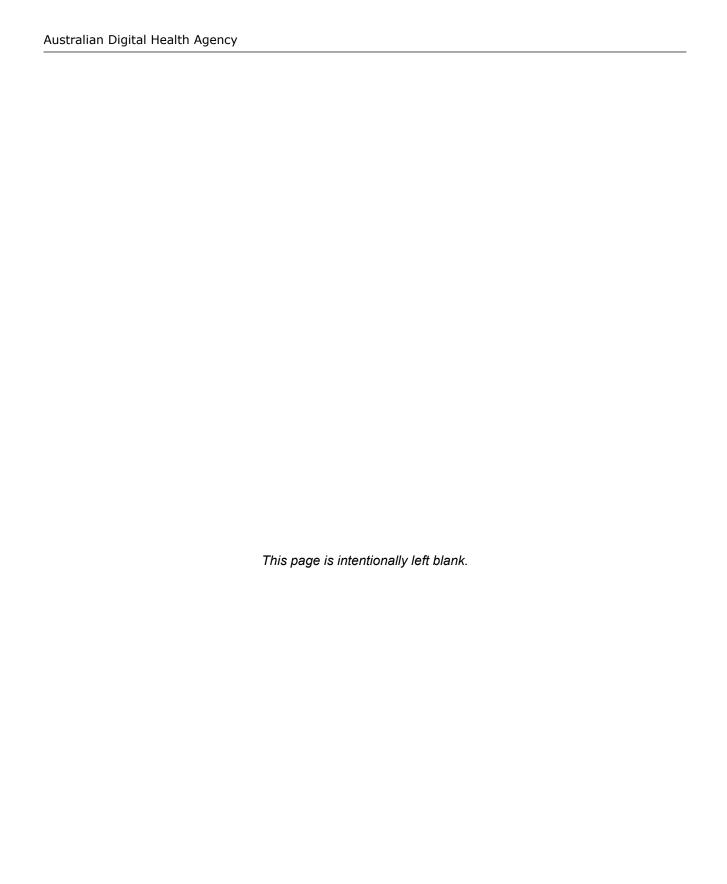
Related Documents

Name	Version/Release Date
Participation Data Specification	Version 3.2, Issued 20 July 2011

Included Detailed Clinical Models

This specification contains the following detailed clinical models:

- ACD Custodian Entry, version 1.1
- · Australian Organ Donor Register Entry, version 1.1
- Medicare/DVA Funded Service, version 1.1
- · Pharmaceutical Benefit Item, version 1.1
- · Vaccine Cancellation Reason, version 1.1



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1 Introduction

1.1 Purpose and Scope

This detailed clinical model (DCM) specification forms part of a suite of data specifications that the Australian Digital Health Agency (the Agency) is developing for the Australian health informatics community. The suite comprises specifications for a range of health topics (represented as data groups), which are considered to be the most critical to support the work programme given to the Agency and to realise the benefits derived from Level 4 (semantic) interoperability¹ in the Australian healthcare setting.

We value your questions and comments about this document. Please direct your questions or feedback to help@digitalhealth.gov.au.

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. Definitions and examples are provided to clarify relevant terminology, usage, and intent.

1.3 Background

One area of priority for us is the identification of digital health data to be communicated and its structure. We are addressing this through data specifications, which detail the data elements (logically grouped) and their associated value domains.

Data specifications need to be independent of messaging formats. They are concerned with providing an information framework in which to achieve semantic interoperability.

Data specifications have been developed based on priorities identified by jurisdictions and clinicians, incorporating clinical examples of use to enhance utility and adoption. These specifications are intended to:

- suit the Australian model for a shared electronic health record;
- define collections of related information, e.g. event summaries, data groups, data elements;
- be human readable (with information enhanced by the hierarchical structure);
- provide a set of clinical terminologies specific to the requirements of the Australian healthcare system; and
- allow for expansion and extension as electronic systems mature.

While the My Health Record system is referred to in these documents, implementation within the system is not dealt with here.

1.4 Terminology

Our National Clinical Terminology Service (NCTS) is defining a national approach to clinical terminology. Consistent and accurate articulation and interpretation of clinical terms is critical to the process of safe exchange.

¹ Level 4 interoperability is described in The Value Of Health Care Information Exchange And Interoperability [WALJ2005a].

We recommend the SNOMED CT as the preferred clinical terminology for Australia and this has been endorsed by the Australian, state and territory governments. SNOMED CT is considered to be the most comprehensive multilingual health terminology in the world. It is owned, maintained and distributed by the International Health Terminology Standards Development Organisation (IHTSDO).

Our NCTS is the Australian National Release Centre for SNOMED CT and is also responsible for managing, developing and distributing national clinical terminologies, such as SNOMED CT Australian Release (SNOMED CT-AU), the Australian Medicines Terminology (AMT), and related tools and services.

SNOMED CT-AU provides local variations and customisation of terms relevant to the Australian healthcare community. It includes the international resources, along with all Australian-developed terminology for implementation in Australian clinical information technology systems. The AMT provides a consistent approach to the identification and naming of medicines, and supports medicines management and activity across the Australian healthcare domain. The AMT is now included within SNOMED CT-AU, with even closer integration planned for the future.

Reference sets listed as value domains within this document have been developed taking into account data element and data group definitions, as well as how they align with and complement the SNOMED CT concept model.

SNOMED CT-AU has been available for software developers to use in their Australian products since 1 July 2006. It is updated monthly and is freely available under a dual licensing arrangement – namely the SNOMED CT Affiliate License and Australian National Terminology License.

For further information regarding terminology and the development of reference sets, please visit http://www.healthterminologies.gov.au. Email help@digitalhealth.gov.au with questions or feedback.

2 ACD Custodian Entry Detailed Clinical Model

This chapter describes version 1.1 of the ACD Custodian Entry Detailed Clinical Model.

2.1 Purpose

To record details about the custodian of the individual's advance care directive (ACD).

2.2 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

informationProvider: Participation V3 [0..1] subject: Participation V3 [0..1] acdCustodianEntryInstanceIdentifier: DH:UniqueIdentifier [0..1] detailedClinicalModelIdentifier: DH:UniqueIdentifier 0..* RelatedInformation linkNature: DH:CodedText linkRole: DH:CodeableText [0..1] target: LnkOrUI «interface» LnkOrUI {abstract}

DH:Link

value: string [0..1]

DH:UniqueIdentifier

root: string [0..1]
extension: string [0..1]
displayable: boolean [0..1]
identifierName: string [0..1]
scope: IdentifierScope [0..1]

reliability: IdentifierReliability [0..1]

Figure 2.1. ACD Custodian Entry data hierarchy

2.3 ACD CUSTODIAN ENTRY

Identification

Label ACD CUSTODIAN ENTRY

Metadata Type Data Group Identifier DG-16690

OID 1.2.36.1.2001.1001.101.102.16690

Definition

Definition Details pertaining to the custodian of the individual's advance care directive.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

ACD CI	ACD CUSTODIAN ENTRY			
8	INFORM	MATION PROVIDER	01	
8	SUBJE	SUBJECT		
46 XV 895A	ACD Cu	ACD Custodian Entry Instance Identifier 0.		
•	RELATE	RELATED INFORMATION 0		
	001011001	Link Nature	11	
	001011001	Link Role	01	
	4674	Target	11	
46 XV 89 A	Detailed	d Clinical Model Identifier	11	

2.4 INFORMATION PROVIDER

Identification

Label INFORMATION PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition Details pertinent to the identification of the source of the information about the custodian

of the advance care directive.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes

This does not have to be a person and, in particular, does not have to be a healthcare

provider. Types of sources include:

· the subject of care;

• a subject of care agent, e.g. parent, guardian;

· the clinician; and

· a device or software.

Usage

Conditions of Use

This **SHALL NOT** be used unless the provider of the information is not the *Composer/Author* of the enclosing Structured Document.

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

• Participation Type **SHALL** have an implementation-specific fixed value equivalent to "Information Provider".

 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON or as a DEVICE.

Conditions of Use Source

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	ACD CUSTODIAN ENTRY	01

2.5 SUBJECT

Identification

LabelSUBJECTMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition	Person or organisation legally responsible for an individual's advance care directive.
Definition Source	Australian Digital Health Agency
Synonymous Names	Subject of the ACD

Usage

Conditions of Use	This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].
	The following constraints are additional to those specified in <i>Participation Data Specification</i> [NEHT2011v]. Constraints are explained in Appendix B, <i>Specification Guide for Use</i> .
	Additional obligation and occurrence constraints:
	LOCATION OF PARTICIPATION is PROHIBITED .
	ADDRESS is ESSENTIAL.
	ELECTRONIC COMMUNICATION DETAIL is ESSENTIAL.
	DEMOGRAPHIC DATA is PROHIBITED .
	ENTITLEMENT is PROHIBITED .
	Qualifications is PROHIBITED .
	Other additional constraints:
	 Participation Type SHALL have an implementation-specific value of equivalent to "ACD Custodian".
	 Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 [ABS2009]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available MAY be used.
	• PERSON OR ORGANISATION OR DEVICE SHALL NOT be instantiated as a DEVICE.
Conditions of Use Source	Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	ACD CUSTODIAN ENTRY	01

2.6 ACD Custodian Entry Instance Identifier

Identification

Label ACD Custodian Entry Instance Identifier

Metadata Type Data Element Identifier DE-16691

OID 1.2.36.1.2001.1001.101.103.16691

Definition

Definition A globally unique object identifier for each ACD Custodian Entry administration entry.

Definition Source Australian Digital Health Agency

Synonymous Names

Context A document can have multiple instances as it passes through its life cycle of creation,

revisions before it is first sent, and revised versions after it is first sent. The value of this data element enables systems to identify all instances of a document uniquely, thus enabling efficient storage, query and audit trail of information about a subject of care.

Context Source Australian Digital Health Agency

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
•	ACD CUSTODIAN ENTRY	01

2.7 RELATED INFORMATION

Identification

Label RELATED INFORMATION

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition Information held elsewhere that is relevant to this instance of a data component.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes Items of related information include, but are not limited to, documents, parts of documents,

images and web pages.

"Elsewhere" includes elsewhere in the same document.

1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.

Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.

When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the *Related Information* data group should be used.

The document or other data component instance containing the *Related Information* data group is called the *source*. The related information is called the *target*.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	ACD CUSTODIAN ENTRY	0*

Children

Data Type	Name	Occurrences
001011001	Link Nature	11

Data Type	Name	Occurrences
001011001	Link Role	01
46 XA	Target	11

2.8 Link Nature

Identification

Label Link Nature **Metadata Type** Data Element **Identifier** DE-16698

OID 1.2.36.1.2001.1001.101.103.16698

Definition

Definition The general semantic category of the relationship between this instance of this detailed

clinical model (DCM), i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes This is one of two attributes that together communicate the semantics of the relationship

between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and

receiver.

Data Type CodedText

Value Domain Link Nature Values

Usage

Examples 1) is related to

2) is confirmed by or authorised by

3) is related to the same problem or health issue

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

2.9 Link Nature Values

Identification

Label Link Nature Values

Metadata Type Value Domain Identifier VD-16698

OID 1.2.36.1.2001.1001.101.104.16698

External LINK NATURE

Identifier

Definition

Definition Set of values for the general semantic category of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

The permissible values are those specified in Termlist LINK NATURE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]. They are listed here.

LINK-A0, is related to A generic category for any Link, the details of which

will be given by the value of Link Role.

LINK-B0, is confirmed by or

authorised by

The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a

single [DCM instance or document].

LINK-C0, is related to the same problem or health issue

The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.

LINK-D0, is related to the same care plan, act or episode

The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both

might be related milestones.

LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.
-------------------------------------	---

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Nature	11

2.10 Link Role

Identification

LabelLink RoleMetadata TypeData ElementIdentifierDE-16699

OID 1.2.36.1.2001.1001.101.103.16699

Definition

Definition The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This is one of two attributes that together communicate the semantics of the relationship

between the source and target DCMs. This attribute provides for a specific description

of the actual role played by the target in relation to the source.

This attribute may be populated from any suitable terminology, and therefore might support

human readership better than interoperable automated processing.

Data Type CodeableText
Value Domain Link Role Values

Usage

Examples 1) unspecified link

2) suggests

3) endorses

4) evidence for

5) outcome

6) is documented by

7) excerpts

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	01

2.11 Link Role Values

Identification

LabelLink Role ValuesMetadata TypeValue DomainIdentifierVD-16699

OID 1.2.36.1.2001.1001.101.104.16699

External LINK_ROLE

Identifier

Definition

Definition Set of values for the detailed semantic description of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Context These values are used within the context of the value of the Link Nature data element.

They provide greater specificity and may be selected more for human readership than

for interoperable automated processing.

Context Source Australian Digital Health Agency

link

Value Domain

Source ISO 13606-3:2009

Values SHOULD be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].

Values MAY be from any suitable terminology.

Some values from Termlist LINK_ROLE in ISO 13606-3:2009 Health informatics Electronic health record communication - Part 3: Reference archetypes and term lists

[ISO2009a] are:

LINK-A1, unspecified The term is used when no semantic information is available for

this Link in the EHR system from which the EXTRACT has been created.

LINK-A2, suggests The interpretation expressed in the target component is a possible

cause or outcome of the findings documented in the source

component.

LINK-B1, endorses The interpretation expressed in the source component provides

confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.

LINK-C3, evidence for The observation or interpretation documented in the source

component provides confirmatory evidence of the interpretation

expressed in the target component.

LINK-D1, outcome The clinical situation documented in the target component is the

direct outcome of the situation documented in the source

component.

LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

Usage

Conditions of Use	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value SHALL be used from <i>Link Nature Values</i> .
Conditions of Use Source	ISO 13606-3:2009

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Role	11

2.12 Target

Identification

Label Target

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The "linked to" or identified information.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Link

UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Link, and Uniqueldentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

2.13 Detailed Clinical Model Identifier

Identification

Label Detailed Clinical Model Identifier

Metadata Type Data Element Identifier DE-16693

OID 1.2.36.1.2001.1001.101.103.16693

Definition

Definition The Agency OID for the concept represented by this Detailed Clinical Model.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Conditions of The value of this item is fixed and SHALL be the default value.

Use

Conditions of Australian Digital Health Agency

Use Source

Examples

Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Default Value 1.2.36.1.2001.1001.101.102.16690

Relationships

Data Type	Name	Occurrences (child within parent)
	ACD CUSTODIAN ENTRY	11

3 Australian Organ Donor Register Entry Detailed Clinical Model

This chapter describes version 1.1 of the Australian Organ Donor Register Entry Detailed Clinical Model.

3.1 Purpose

To record within the Australian Organ Donor Register (AODR) information about an individual's organ and tissue donation decisions.

3.2 Use

Use to record or update information in the AODR about an individual's organ or tissue donation decisions.

3.3 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

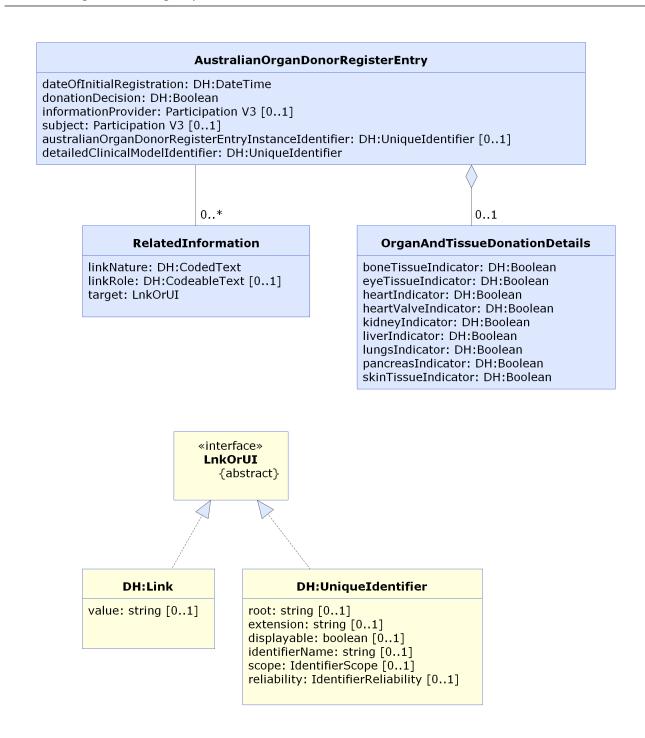


Figure 3.1. Australian Organ Donor Register data hierarchy

3.4 AUSTRALIAN ORGAN DONOR REGISTER ENTRY

Identification

Label AUSTRALIAN ORGAN DONOR REGISTER ENTRY

Metadata Type Data Group Identifier DG-16652

OID 1.2.36.1.2001.1001.101.102.16652

Definition

Definition Information about an individual's organ and tissue donation decisions, for use within the

Australian Organ Donor Register (AODR).

Definition Source Australian Digital Health Agency

Synonymous Names

Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

AUSTR	AUSTRALIAN ORGAN DONOR REGISTER ENTRY				
7 th	Date of Initial Registration		11		
*	Donation Decision		11		
ORGAN AND TISSUE DONATION DETAILS		N AND TISSUE DONATION DETAILS	01		
	*	Bone Tissue Indicator	11		
	*	Eye Tissue Indicator	11		
	*	Heart Indicator	11		
	*	Heart Valve Indicator	11		
	4	Kidney Indicator	11		
	4	Liver Indicator	11		

	1	1		
		4	Lungs Indicator	11
		*	Pancreas Indicator	11
		4	Skin Tissue Indicator	11
INFORMATION		INFOR	MATION PROVIDER	01
	SUBJECT		СТ	01
	46 XV 89 A			01
	•			0*
		001011001	Link Nature	11
		001011001	Link Role	01
		45 1	Target	11
	46 XV 893A	Detailed	d Clinical Model Identifier	11

3.5 Date of Initial Registration

Identification

Label Date of Initial Registration

Metadata Type Data Element Identifier DE-16655

OID 1.2.36.1.2001.1001.101.103.16655

Definition

Definition The date that the individual first registered their organ or tissue donation decision in the

Australian Organ Donation Register.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type DateTime

Usage

Examples Please see DateTime in Appendix B, Specification Guide for Use for examples and usage

information on specifying a date or time (or both).

Relationships

Data Type	Namo	Occurrences (child within parent)	
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	11	

3.6 Donation Decision

Identification

Label **Donation Decision Metadata Type** Data Element Identifier DE-16657

OID 1.2.36.1.2001.1001.101.103.16657

Definition

The individual's decision about donation. **Definition**

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This is set to true if the individual wishes to register a decision to donate suitable organs

and tissue for transplantation. It is set to false if the individual wishes to register a decision

to not donate any organs or tissue for transplantation.

Data Type Boolean

Usage

Conditions of If the value of this data element is "true", then the ORGAN AND TISSUE DONATION Use

DETAILS data group SHALL be present.

If the value is "false", then the ORGAN AND TISSUE DONATION DETAILS data group

SHALL NOT be present.

Conditions of Use Source

Australian Digital Health Agency

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)	
•	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	11	

3.7 ORGAN AND TISSUE DONATION DETAILS

Identification

Label ORGAN AND TISSUE DONATION DETAILS

Metadata Type Data Group Identifier DG-16660

OID 1.2.36.1.2001.1001.101.102.16660

Definition

Definition A list of organs and/or tissues for transplantation that the individual has consented to

donate

Definition Source Australian Digital Health Agency

Synonymous Names

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	01

Children

Data Type	Name	Occurrences
4	Bone Tissue Indicator	11
*	Eye Tissue Indicator	11
4	Heart Indicator	11
*	Heart Valve Indicator	11
*	Kidney Indicator	11
*	Liver Indicator	11
4	Lungs Indicator	11
4	Pancreas Indicator	11

Data Type	Name	Occurrences
*	Skin Tissue Indicator	11

3.8 Bone Tissue Indicator

Identification

Label Bone Tissue Indicator

Metadata Type Data Element Identifier DE-16661

OID 1.2.36.1.2001.1001.101.103.16661

Definition

Definition Whether or not the individual has decided to be a bone tissue donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.9 Eye Tissue Indicator

Identification

Label Eye Tissue Indicator

Metadata Type Data Element Identifier DE-16662

OID 1.2.36.1.2001.1001.101.103.16662

Definition

Definition Whether or not the individual has decided to be an eye tissue (cornea) donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.10 Heart Indicator

Identification

LabelHeart IndicatorMetadata TypeData ElementIdentifierDE-16663

OID 1.2.36.1.2001.1001.101.103.16663

Definition

Definition Whether or not the individual has decided to be a heart organ donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, *Specification Guide for Use* for examples and usage information for Boolean.

Relationships

	ata ype	Name	Occurrences (child within parent)
•		ORGAN AND TISSUE DONATION DETAILS	11

3.11 Heart Valve Indicator

Identification

Label Heart Valve Indicator

Metadata Type Data Element Identifier DE-16664

OID 1.2.36.1.2001.1001.101.103.16664

Definition

Definition Whether or not the individual has decided to be a heart valve donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

	ata ype	Name	Occurrences (child within parent)
•		ORGAN AND TISSUE DONATION DETAILS	11

3.12 Kidney Indicator

Identification

LabelKidney IndicatorMetadata TypeData ElementIdentifierDE-16665

OID 1.2.36.1.2001.1001.101.103.16665

Definition

Definition Whether or not the individual has decided to be a kidney organ donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Typ	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.13 Liver Indicator

Identification

LabelLiver IndicatorMetadata TypeData ElementIdentifierDE-16666

OID 1.2.36.1.2001.1001.101.103.16666

Definition

Definition Whether or not the individual has decided to be a liver organ donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, *Specification Guide for Use* for examples and usage information for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.14 Lungs Indicator

Identification

LabelLungs IndicatorMetadata TypeData ElementIdentifierDE-16667

OID 1.2.36.1.2001.1001.101.103.16667

Definition

Definition Whether or not the individual has decided to be a lung organ donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.15 Pancreas Indicator

Identification

Label Pancreas Indicator

Metadata Type Data Element

Identifier DE-16668

OID 1.2.36.1.2001.1001.101.103.16668

Definition

Definition Whether or not the individual has decided to be a pancreas organ donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.16 Skin Tissue Indicator

Identification

Label Skin Tissue Indicator

Metadata Type Data Element Identifier DE-16669

OID 1.2.36.1.2001.1001.101.103.16669

Definition

Definition Whether or not the individual has decided to be a skin tissue donor.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Type	Name	Occurrences (child within parent)
	ORGAN AND TISSUE DONATION DETAILS	11

3.17 INFORMATION PROVIDER

Identification

Label INFORMATION PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition Details pertinent to the identification of the source of the information about the individual's

donation decisions within the Australian Organ Donor Register.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes

This does not have to be a person and, in particular, does not have to be a healthcare

provider. Types of sources include:

· the subject of care;

• a subject of care agent, e.g. parent, guardian;

· the clinician; and

· a device or software.

Usage

Conditions of Use

This **SHALL NOT** be used unless the provider of the information is not the *Composer/Author* of the enclosing structured document.

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

• Participation Type **SHALL** have an implementation-specific fixed value equivalent to "Information Provider".

 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON or as a DEVICE.

Conditions of Use Source

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	01

3.18 SUBJECT

Identification

LabelSUBJECTMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition
The individual about whom the organ and tissue donation decision information is being recorded.

Definition Source
Synonymous
Names
Scope
Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing structured document is assumed.

Scope Source
Australian Digital Health Agency

Usage

This SHALL NOT be used unless the subject of the information is not the Subject of Care of the enclosing structured document.

This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].

The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Participation Type SHALL have an implementation-specific fixed value of equivalent to "Subject".

PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	01

3.19 Australian Organ Donor Register Entry Instance Identifier

Identification

Label Australian Organ Donor Register Entry Instance Identifier

Metadata Type Data Element Identifier DE-16636

OID 1.2.36.1.2001.1001.101.103.16636

Definition

Definition A globally unique identifier for each instance of an *Australian Organ Donor Register Entry*

administration entry.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This data element is intended for machine/system use only and hence need not be

displayed on documents.

Data Type UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	01

3.20 RELATED INFORMATION

Identification

Label RELATED INFORMATION

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition Information held elsewhere that is relevant to this instance of a data component.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes Items of related information include, but are not limited to, documents, parts of documents,

images and web pages.

"Elsewhere" includes elsewhere in the same document.

1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.

Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.

When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the *Related Information* data group should be used.

The document or other data component instance containing the *Related Information* data group is called the *source*. The related information is called the *target*.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	0*

Children

Data Type	Name	Occurrences
001011001	Link Nature	11

Data Type	Name	Occurrences
001011001	Link Role	01
46 24	Target	11

3.21 Link Nature

Identification

Label Link Nature **Metadata Type** Data Element Identifier DE-16698

OID 1.2.36.1.2001.1001.101.103.16698

Definition

Definition The general semantic category of the relationship between this instance of this detailed

clinical model (DCM), i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes This is one of two attributes that together communicate the semantics of the relationship

between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and

receiver.

CodedText **Data Type**

Value Domain Link Nature Values

Usage

Examples 1) is related to

2) is confirmed by or authorised by

3) is related to the same problem or health issue

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

3.22 Link Nature Values

Identification

Label Link Nature Values

Metadata Type Value Domain Identifier VD-16698

OID 1.2.36.1.2001.1001.101.104.16698

External LINK NATURE

Identifier

Definition

Definition Set of values for the general semantic category of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

The permissible values are those specified in Termlist LINK NATURE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]. They are listed here.

LINK-A0, is related to A generic category for any Link, the details of which

will be given by the value of Link Role.

LINK-B0, is confirmed by or

authorised by

The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a

single [DCM instance or document].

LINK-C0, is related to the same

problem or health issue

The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.

LINK-D0, is related to the same

care plan, act or episode

The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both

might be related milestones.

LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information
	information.

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Nature	11

3.23 Link Role

Identification

LabelLink RoleMetadata TypeData ElementIdentifierDE-16699

OID 1.2.36.1.2001.1001.101.103.16699

Link Role Values

Definition

The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.

Definition Source

Synonymous
Names

Notes

This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.

This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.

Data Type

CodeableText

Usage

Value Domain

Examples
1) unspecified link
2) suggests
3) endorses
4) evidence for
5) outcome
6) is documented by
7) excerpts

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	01

3.24 Link Role Values

Identification

Label Link Role Values **Metadata Type** Value Domain Identifier VD-16699

OID 1.2.36.1.2001.1001.101.104.16699

External LINK ROLE

Identifier

Definition

Definition Set of values for the detailed semantic description of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Context These values are used within the context of the value of the Link Nature data element.

They provide greater specificity and may be selected more for human readership than

for interoperable automated processing.

Context Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

Values **SHOULD** be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].

Values MAY be from any suitable terminology.

Some values from Termlist LINK_ROLE in ISO 13606-3:2009 Health informatics -Electronic health record communication - Part 3: Reference archetypes and term lists

[ISO2009a] are:

LINK-A1, unspecified

link

The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been

created.

LINK-A2, suggests The interpretation expressed in the target component is a possible

cause or outcome of the findings documented in the source

component.

LINK-B1, endorses The interpretation expressed in the source component provides

> confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.

LINK-C3, evidence for The observation or interpretation documented in the source

component provides confirmatory evidence of the interpretation

expressed in the target component.

LINK-D1, outcome The clinical situation documented in the target component is the

direct outcome of the situation documented in the source

component.

LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

Usage

Conditions of	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a
Use	corresponding term in Link Nature Values, where that correspondence is indicated by
	the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory
	of term LINK-A0. If a term in this list is used for the Link Role data element, the
	appropriate corresponding value SHALL be used from Link Nature Values.
Conditions of Use Source	ISO 13606-3:2009

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Role	11

3.25 Target

Identification

Label Target

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The "linked to" or identified information.

Definition Source Australian Digital Health Agency

Synonymous

Names

Data Type Link

UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Link, and Uniqueldentifier.

Relationships

Data Type	Namo	Occurrences (child within parent)
	RELATED INFORMATION	11

3.26 Detailed Clinical Model Identifier

Identification

Label Detailed Clinical Model Identifier

Metadata Type Data Element Identifier DE-16693

OID 1.2.36.1.2001.1001.101.103.16693

Definition

Definition The Agency OID for the concept represented by this Detailed Clinical Model.

Definition Source Australian Digital Health Agency

Synonymous Names

Synonymous

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Conditions of The value of this item is fixed and SHALL be the default value.

Use

Conditions of Australian Digital Health Agency

Use Source

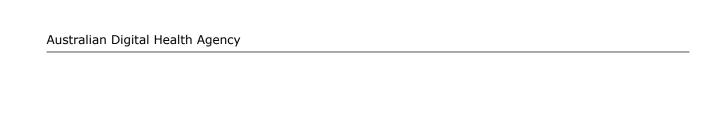
Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Default Value 1.2.36.1.2001.1001.101.102.16652

Relationships

Data Type	Name	Occurrences (child within parent)
	AUSTRALIAN ORGAN DONOR REGISTER ENTRY	11



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4 Medicare/DVA Funded Service Detailed Clinical Model

This chapter describes version 1.1 of the Medicare/DVA Funded Service Detailed Clinical Model.

4.1 Purpose

To record information about Medicare and the Department of Veterans' Affairs (DVA) funded services provided to an individual.

4.2 Use

Use to display or share, in the My Health Record system and related applications, information about Medicare and DVA funded services that have been provided to an individual.

4.3 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

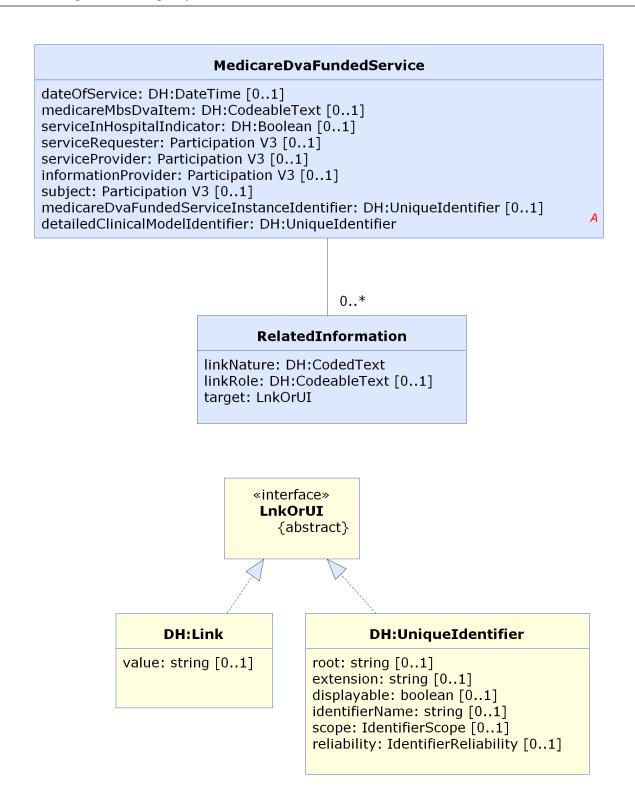


Figure 4.1. Medicare DVA Funded Services data hierarchy

4.4 MEDICARE/DVA FUNDED SERVICE

Identification

Label MEDICARE/DVA FUNDED SERVICE

Metadata Type Data Group Identifier DG-16639

OID 1.2.36.1.2001.1001.101.102.16639

Definition

Definition Information about healthcare services provided to an individual that were partially or fully

funded by Medicare or the Department of Veterans' Affairs.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This is the service for which funding was claimed and not necessarily the actual service

that was supplied.

Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

MEDICA	MEDICARE/DVA FUNDED SERVICE			
7 ^t	Date of Service	01		
001011001	Medicare MBS/DVA Item	01		
*	Service in Hospital Indicator	01		
8	SERVICE REQUESTER	01		
8	SERVICE PROVIDER	01		
8	INFORMATION PROVIDER	01		
8	SUBJECT	01		
46 XV 89 3 A	Medicare/DVA Funded Service Instance Identifier	01		
•	RELATED INFORMATION	0*		

Australian Digital Health Agency

	001011001	Link Nature	11
	001011001	Link Role	01
		Target	11
46 XV 895A	Detailed	I Clinical Model Identifier	11

4.5 Date of Service

Identification

LabelDate of ServiceMetadata TypeData ElementIdentifierDE-16640

OID 1.2.36.1.2001.1001.101.103.16640

Definition

Definition The recorded date the service was supplied.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type DateTime

Usage

Examples Please see DateTime in Appendix B, Specification Guide for Use for examples and usage

information on specifying a date or time (or both).

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.6 Medicare MBS/DVA Item

Identification

Label Medicare MBS/DVA Item

Metadata Type Data Element Identifier DE-16641

OID 1.2.36.1.2001.1001.101.103.16641

Definition

Definition The Medicare Benefits Schedule (MBS) or the Department of Veterans' Affairs item

number and a short description of the service provided.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes Please note that the item number and a short description of the service provided are both

mapped to this element.

Data Type CodeableText

Value Domain Medicare MBS/DVA Item Values

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for CodeableText.

Relationships

Data Type	Name	
	MEDICARE/DVA FUNDED SERVICE	01

4.7 Medicare MBS/DVA Item Values

Identification

Label Medicare MBS/DVA Item Values

Metadata Type Value Domain Identifier VD-16641

OID 1.2.36.1.2001.1001.101.104.16641

Definition

Definition A list of values that combine the item number and a short description of the service

provided, under either the Medicare or the Department of Veterans' Affairs benefits

schedule.

Definition Source Australian Digital Health Agency

Notes Medicare Benefits Schedule data files are available from

http://www.mbsonline.gov.au/internet/mbsonline/publishing.nsf/Content/downloads

(accessed 5 November 2014).

The Department of Veterans' Affairs values are derived from either the Dental and Allied

Health Fee Schedules available from

http://www.dva.gov.au/service_providers/Fee_schedules/Pages/Dental_and_Allied_Health.aspx

(accessed 5 November 2014) or the DVA Medical Fee Schedule available from

http://www.dva.gov.au/service providers/Fee schedules/GPs LMOs and Specialists/Pages/RMFS.aspx

(accessed 5 November 2014).

Value Domain

Source Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Medicare MBS/DVA Item	11

4.8 Service in Hospital Indicator

Identification

Label Service in Hospital Indicator

Metadata Type Data Element Identifier DE-16642

OID 1.2.36.1.2001.1001.101.103.16642

Definition

Definition Whether the service was provided in a hospital.

Definition Source Australian Digital Health Agency

Synonymous

Names

NotesThe value of this data element is "true" if the service was provided in a hospital.

Data Type Boolean

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Boolean.

Relationships

Data Гуре	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.9 SERVICE REQUESTER

Identification

Label SERVICE REQUESTER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition	Party that asks for or orders the provision of service.
Definition Source	Australian Digital Health Agency
Synonymous Names	

Usage

Conditions of Use

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is PROHIBITED.
- · Relationship to Subject of Care is PROHIBITED.
- DEMOGRAPHIC DATA is PROHIBITED.
- Employment Type is **PROHIBITED**.
- · Occupation is PROHIBITED.
- Position in Organisation is PROHIBITED.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is PROHIBITED.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value of equivalent to "Service Requester".
- Role SHOULD have a value chosen from 1220.0 ANZSCO Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 [ABS2009]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publicly available MAY be used.
- PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Conditions of Use Source

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.10 SERVICE PROVIDER

Identification

Label SERVICE PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition The individual who provided the service.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This item captures identification information of the healthcare provider who provided the service under the Medicare or the Department of Veterans' Affairs benefits schedule.

Usage

Conditions of Use

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is PROHIBITED.
- · Relationship to Subject of Care is PROHIBITED.
- DEMOGRAPHIC DATA is PROHIBITED.
- ENTITLEMENT is PROHIBITED.
- Qualifications is PROHIBITED.

Other additional constraints:

- Participation Type SHALL have an implementation-specific value equivalent to "Service Provider".
- Role **SHOULD** have a value chosen from 1220.0 ANZSCO Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 [ABS2009]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Conditions of Use Source

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.11 INFORMATION PROVIDER

Identification

Label INFORMATION PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition Details pertinent to the identification of the source of the information about the service.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes

This does not have to be a person and, in particular, does not have to be a healthcare

provider. Types of sources include:

· the subject of care;

· a subject of care agent, e.g. parent, guardian;

· the clinician; and

a device or software.

Usage

Conditions of This SHALL NOT be used unless the provider of the information is not the Use Composer/Author of the enclosing structured document.

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, *Specification Guide for Use*.

- Participation Type **SHALL** have an implementation-specific fixed value equivalent to "Information Provider".
- PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON or as a DEVICE.

Conditions of Use Source Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.12 SUBJECT

Identification

LabelSUBJECTMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition
The individual to whom the service was provided.

Australian Digital Health Agency

Synonymous
Names

Scope
Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing structured document is assumed.

Scope Source
Australian Digital Health Agency

Usage

This SHALL NOT be used unless the subject of the information is not the Subject of Care of the enclosing structured document.

This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].

The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Participation Type SHALL have an implementation-specific fixed value of equivalent to "Subject".

PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Conditions of Use Source

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	01

4.13 Medicare/DVA Funded Service Instance Identifier

Identification

Label Medicare/DVA Funded Service Instance Identifier

Metadata Type Data Element Identifier DE-16746

OID 1.2.36.1.2001.1001.101.103.16746

Definition

Definition A globally unique identifier for each instance of a *Medicare/DVA Funded Service*

administration entry.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Relationships

Da Ty _l		Name	Occurrences (child within parent)
e.e	!	MEDICARE/DVA FUNDED SERVICE	01

4.14 RELATED INFORMATION

Identification

Label RELATED INFORMATION

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition Information held elsewhere that is relevant to this instance of a data component.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes Items of related information include, but are not limited to, documents, parts of documents,

images and web pages.

"Elsewhere" includes elsewhere in the same document.

1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.

Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.

When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the *Related Information* data group should be used.

The document or other data component instance containing the *Related Information* data group is called the *source*. The related information is called the *target*.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	0*

Children

Data Type	Name	Occurrences
001011001	Link Nature	11

Data Type	Name	Occurrences
001011001	Link Role	01
46 XA	Target	11

4.15 Link Nature

Identification

LabelLink NatureMetadata TypeData ElementIdentifierDE-16698

OID 1.2.36.1.2001.1001.101.103.16698

Definition

DefinitionThe general semantic category of the relationship between this instance of this detailed

clinical model (DCM), i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous Names

Names

NotesThis is one of two attributes that together communicate the semantics of the relationship

between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and

receiver.

Data Type CodedText

Value Domain Link Nature Values

Usage

Examples 1) is related to

2) is confirmed by or authorised by

3) is related to the same problem or health issue

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

4.16 Link Nature Values

Identification

Label Link Nature Values

Metadata Type Value Domain
Identifier VD-16698

OID 1.2.36.1.2001.1001.101.104.16698

External LINK_NATURE

Identifier

Definition

Definition Set of values for the general semantic category of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

The permissible values are those specified in Termlist LINK_NATURE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]. They are listed here.

LINK-A0, is related to

A generic category for any Link, the details of which

will be given by the value of Link Role.

LINK-B0, is confirmed by or

authorised by

The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].

single [DCM instance or document].

LINK-C0, is related to the same problem or health issue

The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which

the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an

observation, a clinical indication or contraindication.

LINK-D0, is related to the same care plan, act or episode

The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both

might be related milestones.

LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Nature	11

4.17 Link Role

Identification

LabelLink RoleMetadata TypeData ElementIdentifierDE-16699

OID 1.2.36.1.2001.1001.101.103.16699

Definition

The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.

Definition Source

Synonymous
Names

Notes

This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.

This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.

human readership better than interoperable automated processing.

Data Type CodeableText
Value Domain Link Role Values

Usage

1) unspecified link
2) suggests
3) endorses
4) evidence for
5) outcome
6) is documented by
7) excerpts

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	01

4.18 Link Role Values

Identification

LabelLink Role ValuesMetadata TypeValue DomainIdentifierVD-16699

OID 1.2.36.1.2001.1001.101.104.16699

External LINK_ROLE

Identifier

Definition

Definition Set of values for the detailed semantic description of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Context These values are used within the context of the value of the Link Nature data element.

They provide greater specificity and may be selected more for human readership than

for interoperable automated processing.

Context Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

Values **SHOULD** be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].

Values MAY be from any suitable terminology.

Some values from Termlist LINK_ROLE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists

[ISO2009a] are:

LINK-A1, unspecified

link

The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been

created.

LINK-A2, suggests The interpretation expressed in the target component is a possible

cause or outcome of the findings documented in the source

component.

LINK-B1, endorses The interpretation expressed in the source component provides

confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.

LINK-C3, evidence for The observation or interpretation documented in the source

component provides confirmatory evidence of the interpretation

expressed in the target component.

LINK-D1, outcome The clinical situation documented in the target component is the

direct outcome of the situation documented in the source

component.

LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

Usage

Conditions of	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a
Use	corresponding term in Link Nature Values, where that correspondence is indicated by
	the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory
	of term LINK-A0. If a term in this list is used for the Link Role data element, the
	appropriate corresponding value SHALL be used from Link Nature Values.
Conditions of Use Source	ISO 13606-3:2009

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Role	11

4.19 Target

Identification

Label Target

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The "linked to" or identified information.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Link

UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Link, and Uniqueldentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

4.20 Detailed Clinical Model Identifier

Identification

Label Detailed Clinical Model Identifier

Metadata Type Data Element Identifier DE-16693

OID 1.2.36.1.2001.1001.101.103.16693

Definition

Definition The Agency OID for the concept represented by this Detailed Clinical Model.

Definition Source Australian Digital Health Agency

Synonymous Names

Synonymous

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Conditions of The value of this item is fixed and SHALL be the default value.

Use

Conditions of Australian Digital Health Agency

Use Source

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Default Value 1.2.36.1.2001.1001.101.102.16639

Relationships

Data Type	Name	Occurrences (child within parent)
	MEDICARE/DVA FUNDED SERVICE	11

5 Pharmaceutical Benefit Item Detailed Clinical Model

This chapter describes version 1.1 of the Pharmaceutical Benefit Item Detailed Clinical Model.

5.1 Purpose

To record information about pharmaceutical items prescribed and dispensed to an individual that were partially or fully funded under the Pharmaceutical Benefit Schedule (PBS) or Repatriation Pharmaceutical Benefits Scheme (RPBS).

5.2 Use

Use to display or share, in the My Health Record system and related applications, information about pharmaceutical items prescribed and dispensed to an individual.

5.3 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

PharmaceuticalBenefitItem pbsRpbsItemCode: DH:CodedText pbsRpbsManufacturerCode: DH:CodedText [0..1] pharmaceuticalItemBrand: DH:Text pharmaceuticalItemGenericName: DH:Text pharmaceuticalItemFormAndStrength: DH:Text dateOfSupply: DH:DateTime dateOfPrescribing: DH:DateTime quantity: DH:Quantity numberOfRepeats: DH:Integer informationProvider: Participation V3 [0..1] subject: Participation V3 [0..1] pharmaceuticalBenefitItemInstanceIdentifier: DH:UniqueIdentifier [0..1] detailedClinicalModelIdentifier: DH:UniqueIdentifier 0..* RelatedInformation linkNature: DH:CodedText linkRole: DH:CodeableText [0..1] target: LnkOrUI «interface» LnkOrUI {abstract} DH:Link DH:UniqueIdentifier value: string [0..1] root: string [0..1] extension: string [0..1] displayable: boolean [0..1] identifierName: string [0..1] scope: IdentifierScope [0..1] reliability: IdentifierReliability [0..1]

Figure 5.1. Pharmaceutical Benefit Item data hierarchy

5.4 PHARMACEUTICAL BENEFIT ITEM

Identification

Label PHARMACEUTICAL BENEFIT ITEM

Metadata Type Data Group Identifier DG-16674

OID 1.2.36.1.2001.1001.101.102.16674

Definition

Definition Information about pharmaceutical items prescribed and dispensed to an individual that

were partially or fully funded under the Pharmaceutical Benefit Scheme (PBS) or

Repatriation Pharmaceutical Benefits Scheme (RPBS).

Definition Source Australian Digital Health Agency

Synonymous Names

NotesThis is the pharmaceutical item for which funding was claimed and not necessarily the

actual pharmaceutical item that was supplied.

Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

PHARMACEUTICAL BENEFIT ITEM		
001011001	PBS/RPBS Item Code	11
001011001	PBS/RPBS Manufacturer Code	01
T	Brand (Pharmaceutical Item Brand)	11
T	Item Generic Name (Pharmaceutical Item Generic Name)	11
T	Item Form and Strength (Pharmaceutical Item Form and Strength)	11
7 ^t	Date of Supply	11
7 th	Date of Prescribing	11
	Quantity	11
123	Number of Repeats	11

8	INFORM	INFORMATION PROVIDER	
8	SUBJE	ст	01
Pharmaceutical Benefit Item Instance Identifier		ceutical Benefit Item Instance Identifier	01
•	RELATE	ED INFORMATION	0*
	001011001	Link Nature	11
	001011001	Link Role	01
	45 1	Target	11
46 XY 8 9 A	Detailed	d Clinical Model Identifier	11

5.5 PBS/RPBS Item Code

Identification

Label PBS/RPBS Item Code

Metadata Type Data Element Identifier DE-16062

OID 1.2.36.1.2001.1001.101.103.16062

Definition

Definition Administrative code and short description of the pharmaceutical item supplied.

Definition Source Australian Digital Health Agency

Synonymous

Names

NotesThis element is to be used to assist with claims processing.

This would typically be used for the PBS Scheduled Item Code, which is a Department

of Health allocated detailed code that specifies a medication use together with its funding.

Data Type CodedText

Value Domain PBS/RPBS Item Code Values

Usage

Examples 1) 1746X (paracetamol 500 mg tablet, 100)

2) 4657D (bandage compression 10 cm x 3.5 m bandage: high stretch, 1 bandage)

Relationships

Dat Typ	Namo	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.6 PBS/RPBS Item Code Values

Identification

Label PBS/RPBS Item Code Values

Metadata Type Value Domain VD-16645

OID 1.2.36.1.2001.1001.101.104.16645

Definition

Definition The set of item codes (and associated short descriptions) contained in the PBS Schedule

list.

Definition Source Australian Digital Health Agency

NotesThe codes recommended for PBS Schedule item code by the Department of Health are

available from http://www.pbs.gov.au/pbs/home (accessed 20 June 2014).

Value Domain

Source Department of Health, PBS Schedule item code.

Usage

Conditions of Use Values SHALL be codes recommended for PBS Schedule item code by the Department of Health.

Conditions of Use Source

Values SHALL be codes recommended for PBS Schedule item code by the Department of Health.

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	PBS/RPBS Item Code	11

5.7 PBS/RPBS Manufacturer Code

Identification

Label PBS/RPBS Manufacturer Code

Metadata Type Data Element Identifier DE-16675

OID 1.2.36.1.2001.1001.101.103.16675

Definition

Definition The PBS-assigned administrative code identifying the manufacturer of the pharmaceutical

item supplied.

Definition Source Australian Digital Health Agency

Synonymous

Names

NotesThis element is used to assist with claims processing.

Data Type CodedText

Value Domain PBS/RPBS Manufacturer Code Values

Usage

Examples 1) SW (sanofi-aventis Australia)

2) MH (Molnlycke Health Care)

Relationships

Da Ty _l	ta pe	Name	Occurrences (child within parent)
	!	PHARMACEUTICAL BENEFIT ITEM	01

5.8 PBS/RPBS Manufacturer Code Values

Identification

Label PBS/RPBS Manufacturer Code Values

Metadata Type Value Domain Identifier VD-16647

OID 1.2.36.1.2001.1001.101.104.16647

Definition

Definition The set of values derived from the PBS manufacturer code.

Definition Source Australian Digital Health Agency

NotesThe codes recommended for PBS manufacturer code by the Department of Health are

available from http://www.pbs.gov.au/pbs/home (accessed 20 June 2014).

Value Domain

Source Department of Health, PBS manufacturer code.

Usage

Conditions of Use Values SHALL be codes recommended for PBS manufacturer code by the Department of Health.

Conditions of Use Source Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	PBS/RPBS Manufacturer Code	11

5.9 Pharmaceutical Item Brand

Identification

Label Brand

Metadata Type Data Element Identifier DE-16703

OID 1.2.36.1.2001.1001.101.103.16703

Definition

Definition The brand of the pharmaceutical item supplied.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Text

Usage

Examples 1) Amoxil (Trade Product of Medicinal Product Amoxycillin)

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.10 Pharmaceutical Item Generic Name

Identification

Label Item Generic Name

Metadata Type Data Element Identifier DE-16676

OID 1.2.36.1.2001.1001.101.103.16676

Definition

Definition The generic name of the item supplied.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Text

Usage

Examples 1) Amoxycillin

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.11 Pharmaceutical Item Form and Strength

Identification

Label Item Form and Strength

Metadata Type Data Element Identifier DE-16677

OID 1.2.36.1.2001.1001.101.103.16677

Definition

Definition The form and strength of the item supplied.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Text

Usage

Examples 1) Capsules 500mg

Relationships

[Data Type	Name	Occurrences (child within parent)
		PHARMACEUTICAL BENEFIT ITEM	11

5.12 Date of Supply

Identification

LabelDate of SupplyMetadata TypeData ElementIdentifierDE-16678

OID 1.2.36.1.2001.1001.101.103.16678

Definition

Definition The recorded date the pharmaceutical item was supplied.

Definition Source Australian Digital Health Agency

Synonymous

Names

NotesThis is essentially the date of dispense. The PBS system does not record the date the

item was actually collected by patient.

Data Type DateTime

Usage

Please see DateTime in Appendix B, Specification Guide for Use for examples and usage

information on specifying a date or time (or both).

Relationships

	ata ype	Name	Occurrences (child within parent)
•		PHARMACEUTICAL BENEFIT ITEM	11

5.13 Date of Prescribing

Identification

Label Date of Prescribing

Metadata Type Data Element Identifier DE-16679

OID 1.2.36.1.2001.1001.101.103.16679

Definition

Definition The date the pharmaceutical item was prescribed.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type DateTime

Usage

Examples Please see DateTime in Appendix B, Specification Guide for Use for examples and usage

information on specifying a date or time (or both).

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.14 Quantity

Identification

Label Quantity

Metadata Type Data Element Identifier DE-10145

OID 1.2.36.1.2001.1001.101.103.10145

Definition

Definition The number of doses or the physical amount of the therapeutic good.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Quantity

Usage

Examples 1) 20 capsules

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.15 Number of Repeats

Identification

Label Number of Repeats

Metadata Type Data Element
Identifier DE-10169

OID 1.2.36.1.2001.1001.101.103.10169

Definition

Definition The number of repeats of the prescription that have been authorised by the prescriber

for a given medication.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Integer

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Integer.

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11

5.16 INFORMATION PROVIDER

Identification

Label INFORMATION PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition Details pertinent to the identification of the source of the information about the

pharmaceutical item.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes

This does not have to be a person and, in particular, does not have to be a healthcare

provider. Types of sources include:

· the subject of care;

• a subject of care agent, e.g. parent, guardian;

· the clinician; and

· a device or software.

Usage

Conditions of Use

This **SHALL NOT** be used unless the provider of the information is not the *Composer/Author* of the enclosing structured document.

This is a reuse of the *PARTICIPATION* data group, which is described in *Participation Data Specification [NEHT2011v]*.

The following constraints are additional to those specified in *Participation Data Specification* [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

• Participation Type **SHALL** have an implementation-specific fixed value equivalent to "Information Provider".

 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON or as a DEVICE.

Conditions of Use Source

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	01

5.17 SUBJECT

Identification

LabelSUBJECTMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition The individual to whom the pharmaceutical item was prescribed and dispensed.

Definition Source Australian Digital Health Agency

Synonymous Names

Scope Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing structured document is assumed.

Scope Source Australian Digital Health Agency

Usage

This SHALL NOT be used unless the subject of the information is not the Subject of Care of the enclosing structured document.

This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].

The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Participation Type SHALL have an implementation-specific fixed value of equivalent to "Subject".

PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Conditions of Use Source

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	01

5.18 Pharmaceutical Benefit Item Instance Identifier

Identification

Label Pharmaceutical Benefit Item Instance Identifier

Metadata Type Data Element Identifier DE-16747

OID 1.2.36.1.2001.1001.101.103.16747

Definition

Definition A globally unique identifier for each instance of a *Pharmaceutical Benefit Item*

administration entry.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
~	PHARMACEUTICAL BENEFIT ITEM	01

5.19 RELATED INFORMATION

Identification

Label RELATED INFORMATION

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition Information held elsewhere that is relevant to this instance of a data component.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes Items of related information include, but are not limited to, documents, parts of documents,

images and web pages.

"Elsewhere" includes elsewhere in the same document.

1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.

or other logical groupings of items.

Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.

When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the *Related Information* data group should be used.

The document or other data component instance containing the *Related Information* data group is called the *source*. The related information is called the *target*.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	0*

Children

Data Type	Name	Occurrences
001011001	Link Nature	11

Data Type	Name	Occurrences
001011001	Link Role	01
46 XA	Target	11

5.20 Link Nature

Identification

Label Link Nature **Metadata Type** Data Element Identifier DE-16698

OID 1.2.36.1.2001.1001.101.103.16698

Definition

Definition The general semantic category of the relationship between this instance of this detailed

clinical model (DCM), i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This is one of two attributes that together communicate the semantics of the relationship

> between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and

receiver.

CodedText **Data Type**

Value Domain Link Nature Values

Usage

Examples 1) is related to

2) is confirmed by or authorised by

3) is related to the same problem or health issue

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

5.21 Link Nature Values

Identification

Label Link Nature Values

Metadata Type Value Domain Identifier VD-16698

OID 1.2.36.1.2001.1001.101.104.16698

External LINK NATURE

Identifier

Definition

Definition Set of values for the general semantic category of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

The permissible values are those specified in Termlist LINK NATURE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]. They are listed here.

LINK-A0, is related to A generic category for any Link, the details of which

will be given by the value of Link Role.

LINK-B0, is confirmed by or

authorised by

The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a

single [DCM instance or document].

LINK-C0, is related to the same

problem or health issue

The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.

LINK-D0, is related to the same

care plan, act or episode

The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both

might be related milestones.

LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.
-------------------------------------	---

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Nature	11

5.22 Link Role

Identification

LabelLink RoleMetadata TypeData ElementIdentifierDE-16699

OID 1.2.36.1.2001.1001.101.103.16699

Definition

Definition

(i.e. the source), and the target DCM instance or target document.

Definition Source

Synonymous
Names

Notes

This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.

This attribute may be populated from any suitable terminology, and therefore might support

The detailed semantic description of the relationship between this instance of this DCM

human readership better than interoperable automated processing.

Data Type CodeableText
Value Domain Link Role Values

Usage

Examples
1) unspecified link
2) suggests
3) endorses
4) evidence for
5) outcome

6) is documented by

7) excerpts

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	01

5.23 Link Role Values

Identification

LabelLink Role ValuesMetadata TypeValue DomainIdentifierVD-16699

OID 1.2.36.1.2001.1001.101.104.16699

External LINK_ROLE

Identifier

Definition

Definition Set of values for the detailed semantic description of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Context These values are used within the context of the value of the Link Nature data element.

They provide greater specificity and may be selected more for human readership than

for interoperable automated processing.

Context Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Values SHOULD be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].

Values MAY be from any suitable terminology.

Some values from Termlist LINK_ROLE in ISO 13606-3:2009 Health informatics Electronic health record communication - Part 3: Reference archetypes and term lists
[ISO2009a] are:

LINK-A1, unspecified The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been

created.

LINK-A2, suggests The interpretation expressed in the target component is a possible

cause or outcome of the findings documented in the source

component.

LINK-B1, endorses The interpretation expressed in the source component provides

confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.

LINK-C3, evidence for The observation or interpretation documented in the source

component provides confirmatory evidence of the interpretation

expressed in the target component.

LINK-D1, outcome The clinical situation documented in the target component is the

direct outcome of the situation documented in the source

component.

LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

Usage

Conditions of	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a
Use	corresponding term in Link Nature Values, where that correspondence is indicated by
	the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory
	of term LINK-A0. If a term in this list is used for the Link Role data element, the
	appropriate corresponding value SHALL be used from Link Nature Values.
Conditions of Use Source	ISO 13606-3:2009

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Role	11

5.24 Target

Identification

Label Target

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The "linked to" or identified information.

Definition Source Australian Digital Health Agency

Synonymous

Names

Data Type Link

UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Link, and Uniqueldentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

5.25 Detailed Clinical Model Identifier

Identification

Label Detailed Clinical Model Identifier

Metadata Type Data Element Identifier DE-16693

OID 1.2.36.1.2001.1001.101.103.16693

Definition

Definition The Agency OID for the concept represented by this Detailed Clinical Model.

Definition Source Australian Digital Health Agency

Synonymous Names

200

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Conditions of The value of this item is fixed and SHALL be the default value.

Use

Conditions of Australian Digital Health Agency

Use Source

Examples

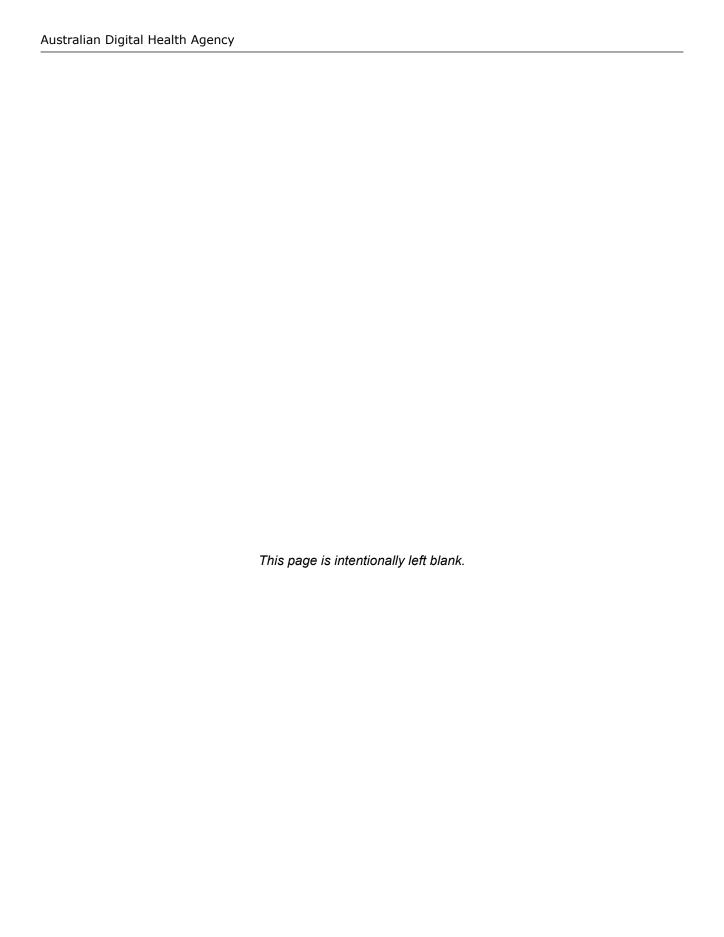
Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Default Value 1.2.36.1.2001.1001.101.102.16674

Relationships

Data Type	Name	Occurrences (child within parent)
	PHARMACEUTICAL BENEFIT ITEM	11



6 Vaccine Cancellation Reason Detailed Clinical Model

This chapter describes version 1.1 of the Vaccine Cancellation Reason Detailed Clinical Model.

6.1 Purpose

Used within the Australian Childhood Immunisation Register to give details of the reasons surrounding the cancellation of a vaccine administration, due to either the individual's natural immunity to the vaccine antigen or medical contraindication to the vaccine.

6.2 Use

To be used in conjunction with the *Medication Action* DCM, which provides the details of the vaccine administration.

6.3 Misuse

This DCM is not intended to be used outside the context of the Australian Childhood Immunisation Register.

6.4 UML Class Diagram

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

VaccineCancellationReason

vaccineCancellationReasonType: DH:CodedText [0..1] vaccineCancellationReasonPeriod: DH:TimeInterval [0..1] vaccineCancellationReasonComment: DH:Text [0..1]

informationProvider: Participation V3 [0..1]

subject: Participation V3 [0..1]

vaccineCancellationReasonInstanceIdentifier: DH:UniqueIdentifier [0..1]

detailedClinicalModelIdentifier: DH:UniqueIdentifier

0..*

RelatedInformation

linkNature: DH:CodedText

linkRole: DH:CodeableText [0..1]

target: LnkOrUI

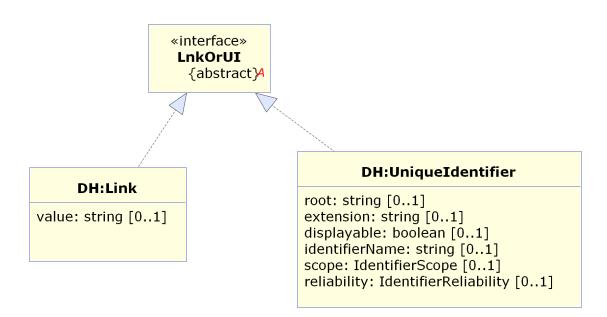


Figure 6.1. Vaccine Cancellation Reason data hierarchy

6.5 VACCINE CANCELLATION REASON

Identification

Label VACCINE CANCELLATION REASON

Metadata Type Data Group Identifier DG-16748

OID 1.2.36.1.2001.1001.101.102.16748

Definition

Definition	Details of the conditions that prevented the vaccination.
Definition Source	Australian Digital Health Agency
Synonymous Names	

Usage

Conditions of	The VACCINE CANCELLATION REASON data group SHOULD include at least the
Use	Type data element and Period data element.
Conditions of Use Source	Australian Digital Health Agency

Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

VACCINE CANCELLATION REASON		
001011001	Type (Vaccine Cancellation Reason Type)	01
	Period (Vaccine Cancellation Reason Period)	01
T	Comment (Vaccine Cancellation Reason Comment)	01
8	INFORMATION PROVIDER	01
8	SUBJECT	01
46 XY 895A	Vaccine Cancellation Reason Instance Identifier	01
•	RELATED INFORMATION	0*

Australian Digital Health Agency

	001011001	Link Nature	11
	001011001	Link Role	01
	45%	Target	11
46 XV 895A	Detailed	I Clinical Model Identifier	11

6.6 Vaccine Cancellation Reason Type

Identification

Label Type

Metadata Type Data Element Identifier DE-16756

OID 1.2.36.1.2001.1001.101.103.16756

Definition

Definition A coded description of the condition that prevented the vaccination.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes There are only two expected values to this data element, namely natural immunity and

medical contraindication.

A null flavour supported by the underlying implementation may be used for this data

element, if the reason is unknown or unsupported.

Data Type CodedText

Value Domain Vaccine Cancellation Reason Type Values

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for CodedText.

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	01

6.7 Vaccine Cancellation Reason Type Values

Identification

Label Vaccine Cancellation Reason Type Values

Metadata Type Value Domain Identifier VD-16755

OID 1.2.36.1.2001.1001.101.104.16755

Definition

Definition The codes for specifying the reasons for vaccine cancellation.

Definition Source Australian Digital Health Agency

Value Domain

Source
Australian Digital Health Agency

Permissible Values

1, Natural Immunity
The subject has developed a natural immunity to the antigen

2, Medical Contraindication
The subject displayed contraindications to administering the vaccine

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Type (Vaccine Cancellation Reason Type)	11

6.8 Vaccine Cancellation Reason Period

Identification

Label Period

Metadata Type Data Element Identifier DE-16757

OID 1.2.36.1.2001.1001.101.103.16757

Definition

Definition The time period in which either the natural immunity or medical contraindication that

prevented vaccination (as denoted in the value of Type data element) took place.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type TimeInterval

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for TimeInterval.

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	01

6.9 Vaccine Cancellation Reason Comment

Identification

LabelCommentMetadata TypeData ElementIdentifierDE-15595

OID 1.2.36.1.2001.1001.101.103.15595

Definition

Definition Additional narrative about the conditions preventing the vaccination not captured in other fields.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Text

Usage

Please see Appendix B, *Specification Guide for Use* for examples and usage information for Text.

Relationships

Da Ty _l		Name	Occurrences (child within parent)
	•	VACCINE CANCELLATION REASON	01

6.10 INFORMATION PROVIDER

Identification

Label INFORMATION PROVIDER

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition
Definition Source
Australian Digital Health Agency

Synonymous
Names

Notes
This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:

the subject of care;
a subject of care agent, e.g. parent, guardian;
the clinician; and
a device or software.

Usage

Conditions of Use	This SHALL NOT be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing structured document.
	This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].
	The following constraints are additional to those specified in <i>Participation Data Specification</i> [NEHT2011v]. Constraints are explained in Appendix B, <i>Specification Guide for Use</i> .
	 Participation Type SHALL have an implementation-specific value equivalent to "Information Provider".
	 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON or as a DEVICE.
Conditions of Use Source	Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	01

6.11 SUBJECT

Identification

LabelSUBJECTMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition The individual about whom the vaccine cancellation information is being recorded.

Definition Source Australian Digital Health Agency

Synonymous Names

Scope Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing structured document is assumed.

Scope Source Australian Digital Health Agency

Usage

This SHALL NOT be used unless the subject of the information is not the Subject of Care of the enclosing structured document.

This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].

The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B, Specification Guide for Use.

Participation Type SHALL have an implementation-specific value equivalent to "Subject".

PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.

Australian Digital Health Agency

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	01

6.12 Vaccine Cancellation Reason Instance Identifier

Identification

Label Vaccine Cancellation Reason Instance Identifier

Metadata Type Data Element Identifier DE-16751

OID 1.2.36.1.2001.1001.101.103.16751

Definition

Definition A globally unique identifier for each instance of a *Vaccine Cancellation Reason* evaluation.

Definition Source Australian Digital Health Agency

Synonymous Names

Notes This data element is intended for machine or system use only and hence need not

be displayed on documents.

Data Type UniqueIdentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	01

6.13 RELATED INFORMATION

Identification

Label RELATED INFORMATION

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition Information held elsewhere that is relevant to this instance of a data component.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes Items of related information include, but are not limited to, documents, parts of documents,

images and web pages.

"Elsewhere" includes elsewhere in the same document.

1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.

or ourse regress group rige or normer

Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.

When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the *Related Information* data group should be used.

The document or other data component instance containing the *Related Information* data group is called the *source*. The related information is called the *target*.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	0*

Children

Data Type	Name	Occurrences
001011001	Link Nature	11

Data Type	Name	Occurrences
001011001	Link Role	01
46 1	Target	11

6.14 Link Nature

Identification

Label Link Nature **Metadata Type** Data Element Identifier DE-16698

1.2.36.1.2001.1001.101.103.16698 OID

Definition

Definition The general semantic category of the relationship between this instance of this detailed

clinical model (DCM), i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Synonymous

Names

Notes This is one of two attributes that together communicate the semantics of the relationship

between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and

receiver.

Data Type CodedText

Value Domain Link Nature Values

Usage

Examples 1) is related to

2) is confirmed by or authorised by

3) is related to the same problem or health issue

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

6.15 Link Nature Values

Identification

Label Link Nature Values

Metadata Type Value Domain
Identifier VD-16698

OID 1.2.36.1.2001.1001.101.104.16698

External LINK_NATURE

Identifier

Definition

Definition Set of values for the general semantic category of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

The permissible values are those specified in Termlist LINK_NATURE in ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]. They are listed here.

LINK-A0, is related to

A generic category for any Link, the details of which

will be given by the value of Link Role.

LINK-B0, is confirmed by or

authorised by

The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].

single [DCM instance or document].

LINK-C0, is related to the same problem or health issue

The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.

LINK-D0, is related to the same care plan, act or episode

The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both

might be related milestones.

LINK-E0, is a related documentation	The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.
-------------------------------------	---

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Nature	11

6.16 Link Role

Identification

LabelLink RoleMetadata TypeData ElementIdentifierDE-16699

OID 1.2.36.1.2001.1001.101.103.16699

Definition

Definition

(i.e. the source), and the target DCM instance or target document.

Definition Source

Synonymous
Names

Notes

This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.

This attribute may be populated from any suitable terminology, and therefore might support

The detailed semantic description of the relationship between this instance of this DCM

human readership better than interoperable automated processing.

Data Type CodeableText
Value Domain Link Role Values

Usage

1) unspecified link
2) suggests
3) endorses
4) evidence for
5) outcome
6) is documented by
7) excerpts

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	01

6.17 Link Role Values

Identification

Label Link Role Values **Metadata Type** Value Domain Identifier VD-16699

OID 1.2.36.1.2001.1001.101.104.16699

External LINK ROLE

Identifier

Definition

Definition Set of values for the detailed semantic description of the relationship between this instance

of this DCM, i.e. the source, and the target DCM instance or target document.

Definition Source Australian Digital Health Agency

Context These values are used within the context of the value of the Link Nature data element.

They provide greater specificity and may be selected more for human readership than

for interoperable automated processing.

Context Source Australian Digital Health Agency

Value Domain

Source ISO 13606-3:2009

Permissible Values

Values **SHOULD** be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].

Values MAY be from any suitable terminology.

Some values from Termlist LINK_ROLE in ISO 13606-3:2009 Health informatics -Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a] are:

LINK-A1, unspecified The term is used when no semantic information is available for link

this Link in the EHR system from which the EXTRACT has been

created.

LINK-A2, suggests The interpretation expressed in the target component is a possible

cause or outcome of the findings documented in the source

component.

LINK-B1, endorses The interpretation expressed in the source component provides

> confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.

LINK-C3, evidence for The observation or interpretation documented in the source

component provides confirmatory evidence of the interpretation

expressed in the target component.

LINK-D1, outcome The clinical situation documented in the target component is the

direct outcome of the situation documented in the source

component.

LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

Usage

Conditions of Use	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string "LINK-". For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value SHALL be used from <i>Link Nature Values</i> .
Conditions of Use Source	ISO 13606-3:2009

Relationships

Data Type	Name	Occurrences (child within parent)
001011001	Link Role	11

6.18 Target

Identification

Label Target

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The "linked to" or identified information.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type Link

Uniqueldentifier

Usage

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for Link, and Uniqueldentifier.

Relationships

Data Type	Name	Occurrences (child within parent)
	RELATED INFORMATION	11

6.19 Detailed Clinical Model Identifier

Identification

Label Detailed Clinical Model Identifier

Metadata Type Data Element Identifier DE-16693

OID 1.2.36.1.2001.1001.101.103.16693

Definition

Definition The Agency OID for the *Vaccine Cancellation Reason* concept represented by this DCM.

Definition Source Australian Digital Health Agency

Synonymous Names

Data Type UniqueIdentifier

Usage

Conditions of The value of this item is fixed and **SHALL** be the default value.

Use

Conditions of Australian Digital Health Agency
Use Source

Examples Please see Appendix B, Specification Guide for Use for examples and usage information

for UniqueIdentifier.

Default Value 1.2.36.1.2001.1001.101.102.16748

Relationships

Data Type	Name	Occurrences (child within parent)
	VACCINE CANCELLATION REASON	11

Appendix A. Known Issues

This appendix lists known issues with this specification at the time of publishing. We are working on solutions to these issues and encourage comments to help us develop these solutions.

Reference	Description
Links to external resources	Certain combinations of web browsers and PDF readers have problems opening URL links (usually found in reference sections) that span more than one line.
Data Hierarchies	Only the parts of these detailed clinical models (DCMs) required for current structured content specifications have been mapped to HL7 CDA. Mapping the remaining parts to CDA may reveal inconsistencies in the data hierarchies, requiring normative change.
Information Provider	The constraints have not been updated to align with those in more recent DCMs.



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Appendix B. Specification Guide for Use

B.1 Overview

Each detailed clinical model (DCM) and structured content specification (SCS) is designed to be a shared basis for data interpretation. It specifies rigorous business and technical definitions of data that systems may need to share. It is intended to be a logical specification of the data to be persisted within or communicated between systems. It is also the foundation for the compliance, conformance, and declaration process. Our CDA implementation guides are guides to the implementation of HL7 CDA R2 messages based upon these DCMs and SCSs.

Each DCM specifies all of the data components required for any use of a clinical concept; for instance, an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks, which are trimmed to size for use in the construction of SCSs.

Each SCS describes a template of a Structured Document. It specifies the data for a single type of clinical document or information exchange, such as a discharge summary. It is assembled using DCMs that have been constrained to eliminate data components not relevant to the particular context. For example, *Procedure* in a discharge summary uses only some of the data components required by *Procedure* in a specialist report.

B.2 The Structured Content Specification Metamodel

Our metamodel for structured content specifications (see Figure 1) is used to specify the overall structure of a structured content specification. The structure is a tree, so every item in the tree, other than the root node, has a parent node. For an SCS, the root node is a Structured Document. For a DCM, the root node is a Data Group.

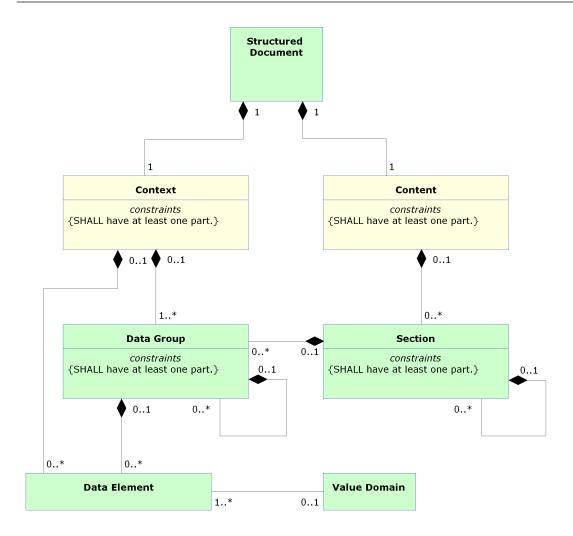


Figure 1: SCS Metamodel

There are two main items used to organise information within an SCS as follows:

Context: This contains information related to the overall context of the document.

Content: This contains information that changes between different SCSs, but is always structured as shown in Figure 1, and consists of the following data components:

- Section
- · Data Group
- · Data Element
- · Value Domain

These data components are described in more detail below.

Structured Document

A structured document is a collection of health information about a subject of care that is relevant to the ongoing care of that person. They are composed of one or more data groups and data elements that are organised into

sections. Examples of structured documents are *Discharge Summary*, *Shared Health Summary*, and *Advance Care Directive Custodian Record*.

Context

The purpose of the context is to identify and classify the document and to provide subjects of care and involved healthcare providers with the information related to the relevant healthcare events.

Content

Content contains a collection of personal information and health information pertinent to a subject of care that is derived from the healthcare event described in the document. The detail is organised into one or more data groups, which are optionally grouped into sections.

Section

A section is composed of data groups, other sections, or both. It is an organising container that cues the reader about expected content. A section organises information in a manner suitable for the primary purpose for which it is collected and provides a way to navigate through the data components within the document, thereby enabling more efficient querying. It is recommended that the section support safe reuse for secondary purposes, e.g. clinical coding or inclusion in a summarised form in an electronic health record. A section is context-specific to the document in which it resides.

Data Group

Each data group is used to represent one concept. A data group consists of other data groups, data elements, or both. Some data groups are reused across DCMs.

Every instance of a data group **SHALL** have at least one child data component instantiated.

Participation

Participation is a special case of a data group that is based on a data group template, which is reused throughout the DCMs and SCSs. Participations are an amalgam of the Actors (see below) operating within a defined healthcare domain and the Roles they are playing within that domain.

A Participant has been defined to align with the concepts of the Agency's *Interoperability Framework [NE-HT2007b]*. It equates to an *Entity* that is related to the action described in an SCS as an *Actor*. A Participant can be a human, an organisation, or an IT system.

Our Participation Data Specification [NEHT2011v] defines the full Participation specification.

Choice

Choice represents a selection, to be made at run-time, of a single member from a set of data groups, where the set is defined at design-time, i.e. one and only one member of the set is chosen for each instance of the choice.

For example, at design-time a healthcare provider provides a service, but it is not until run-time that a decision can be made as to whether the provider is a person or an organisation. Hence, when a healthcare provider *Participant* is instantiated, it will contain either an instance of the *Person* data group or an instance of the *Organisation* data group.

Data Element

A data element is the smallest named unit of information in the model that can be assigned a value. For example, DateTime of Observation and Observation Note. Data elements are bound to data types (see Data Types Legend). Some data elements are reused in different data groups.

While all data elements are constrained by their data type, some data elements are further constrained by value domains (see Value Domain below).

Value Domain

A value domain constrains the permissible values for a data element. The values are often a subset of values based on a generic data type.

Value domains are reusable items, therefore the same value domain can be referred to by different data elements in different contexts. Value domains are often specified with reference to a *reference set*. A reference set is a constrained list of SNOMED CT-AU concepts that are appropriate to a particular context or use. Since many of these reference sets have been developed specifically for the context in which they appear, it is recommended that an assessment of fitness for purpose be undertaken before using any of the reference sets in another context.

Value domains constrain either by specifying a lower or upper bound (or both) on the range of permissible values or by specifying a finite set of prescribed values. Such a set of prescribed values can be specified directly within the definition of the data element, or in a separate but associated specification, or else by reference to one or more vocabulary or terminology reference sets. The table below provides some examples of value domains.

Table 1: Value Domain Examples

Data Element	Data Type	Example	of Value Domain	
Sex	CodedText	Standards Australia AS 4846 (2006) – Health Care Provider Identification [SA2006a] and Standards Australia AS 5017 (2006) – Health Care Client Identification [SA2006b] derive their values from METeOR 287316, which includes values such as:		
		Value	Meaning	
		1	Male	
		2	Female	
		3	Intersex or Indeterminate	
		9	Not Stated/Inadequately Described	
Diagnosis	CodeableText		ED CT-AU reference set that references concepts such hitis" (Concept ID: 32398004).	
Therapeutic Good Identification	CodeableText	An AMT reference set that references concepts such as "Ibuprofen Blue (Herron) (ibuprofen 200 mg) tablet: film-coated, 1 tablet" (Concept ID: 54363011000036107).		
Individual Pathology Test Result Name	CodeableText	A LOINC subset that references concepts such as "Cholesterol [Moles/volume] in Serum or Plasma" (ID: 14647-2).		

B.3 Icon Legend

These legends describe all icons that are used in the Agency's DCMs and SCSs.

Metadata Types Legend

The following table explains each of the icons used to represent the metadata types within DCMs and SCSs.

Table 2: Metadata Types Legend

Icon	Metadata Types
	Structured Document
	Section
	Data Group
8	Participation
	Choice

Data Types Legend

The following table explains each of the icons used to represent the data types bound to each data element in the SCSs. These data types are a profile of the **ISO 21090-2011** data types as specified in *Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification [NEHT2010c]*.

Table 3: Data Types Legend

Icon	Data type	Explanation
	Any (ISO 21090: ANY)	Use of this icon indicates that instances of the data element can be of any concrete data type. There are no limitations on the data type of the data element.
	(**************************************	The values that can be required will vary considerably depending on the context. This is an abstract data type that is the basis for all data types and SHOULD NOT be used in an actual implementation.
4	Boolean	A data type, sometimes called the logical data type, having one of the two values: <i>true</i> and <i>false</i> .
	(ISO 21090: BL)	Many systems represent true as <i>non-zero</i> (often 1, or -1) and false as <i>zero</i> .
		Usage/Examples
		• An actual value entered by a user might be "yes" or could be chosen by a mouse click on an icon such as ✓.



CodeableText

(ISO 21090: CD)

Coded text *with* exceptions; supports various ways of holding text, both free text and coded text.

Often used to support compliance for early adopters of the structured content specifications.

While it is recommended that the values in this data type come from the bound value domain, it allows other value domains to also be used (with or without translations to the bound value domain) or free text alternatives. This is useful when it is not possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) and when there are competing code sets in existence. Note that within exchange specifications or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

Usage/Examples

- The Australian Institute of Health and Welfare (AIHW) defines a data element concept Episode of admitted patient care-separation mode (the status at separation of a subject of care and the place to which they are released). An early adopter could have a similar concept (coded or otherwise) that maps to this data element but does not strictly comply with the AIHW values.
- A SNOMED CT-AU coded/complex expression that embodies single or multiple concepts. The SNOMED CT-AU concepts behind these CodeableText data elements are specified in the structured content specification value domains.



CodedText

(ISO 21090: CD)

Coded text *without* exceptions; text with code mappings. Values in this data type **SHALL** come from the bound value domain, with no exceptions.

Often used for reference sets with only a small number of applicable values, e.g. Gender and Document Status.

Usage/Examples

Standards Australia AS 5017 (2006) – Health Care Client Identification [SA2006b] specifies the following value domain representing a type of address:

Value	Meaning
1	Business
2	Mailing or Postal
3	Temporary Accommodation
4	Residential (permanent)
9	Not Stated/Unknown/Inadequately Described



DateTime

A single date, optionally with a time of day.

(ISO 21090: TS)

Has the ability to indicate a level of precision, but not whether the date or time is estimated. Cannot represent a time alone.

String representations of known dates **SHALL** conform to the format within the **ISO 21090-2011** standard without the use of extensions, i.e. YYYY[MM[DD[HH[MM[SS[.U[U[U]]]]]]]]+|-ZZzz].

Usage/Examples

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone that is 10 hours ahead of Coordinated Universal Time (UTC): 19990531132000+1000.



Duration

The period of time during which something continues.

(ISO 21090: PQ.TIME)

Consists of a value and a unit that represents the time value, e.g. hours, months.

Compound durations are not allowed, e.g. 10 days 3 weeks 5 hours.

Usage/Examples

- · 3 hours
- · 6 months
- 1 year



EncapsulatedData

(ISO 21090: ED)

Data that is primarily intended for human interpretation or for further machine processing outside the scope of this specification. This includes unformatted or formatted written language, multimedia data, or structured information as defined by a different standard (e.g. XML signatures).

Usage/Examples

- JPEG images
- · HTML documents
- [RFC1521] MIME types



Integer

The mathematical data type comprising the exact integral values.

(ISO 21090: INT)

Usage/Examples

- 1
- -50
- 125



Link

(ISO 21090: TEL)

A general link, reference or pointer to an object, data or application that exists logically or is stored electronically in a computer system.

Usage/Examples

- URL (Uniform Resource Locator) the World Wide Web address of a site on the internet, such as the URL for the Google internet search engine – http://www.google.com.
- An absolute or relative path within a file or directory structure e.g. in the Windows operating system, the "link" or absolute path to a particular letter could be C:\Documents and Settings\GuestUser\MyDocuments\letter.doc



Quantity

A magnitude value with a unit of measurement.

(ISO 21090: PQ)

This is used for recording many real world measurements and observations. As the default unit of measure is 1, even counts of items can be recorded with *Quantity*.

Usage/Examples

- · 100 centimetres
- 25.5 grams
- · 3 per month



QuantityRange

A range of Quantity values.

(ISO 21090: IVL)

It may be identified using a combination of an optional minimum Quantity and an optional maximum Quantity (i.e. lower and upper bounds).

This is typically used for defining the valid range of values for a particular measurement or observation. Unbounded quantity ranges can be identified by not including a minimum or a maximum Quantity value.

Usage/Examples

- -20 to 100 Celsius
- 30-50 mg
- >10 kg
- 2-3 hours



QuantityRatio

A relative magnitude of two Quantity values.

(ISO 21090: RTO) Usually recorded as numerator and denominator.

Usage/Examples

- 25 mg / 500 ml
- 200 mmol per litre



Real

A computational approximation to the standard mathematical concept of real numbers.

(ISO 21090: REAL)

These are often called floating-point numbers.

Usage/Examples

- 1.075
- -325.1
- 3.14157



Text

(ISO 21090: ST)

A character string (with optional language) containing any combination of alpha, numeric, or symbols from the Unicode character set. Also referred to as free text.

Usage/Examples

"The patient is a 37 year old man who was referred for cardiac evaluation after complaining of occasional palpitations, racing heart beats and occasional dizziness."



TimeInterval

An interval in time.

(ISO 21090:IVL)

It is identified using a combination of an optional start DateTime, an optional end DateTime, and an optional Duration.

Usage/Examples

- 20080101+1000 20081231+1000
- 200801010130+1000 200801011800+1000
- 200801010130+1000, duration=16.5 hours



UniqueIdentifier

A unique value used to identify a physical or virtual object or concept.

(ISO 21090: II)

In using this data type, the attributes of the UniqueIdentifier data type **SHOULD** be populated from the identifiers as defined in *AS 4846 (2006) – Health Care Provider Identification [SA2006a]* and *AS 5017 (2006) – Health Care Client Identification [SA2006b]* as follows:

- root: a globally unique object identifier that identifies the combination of geographic area, issuer and type. If no such globally unique object identifier exists, it SHALL be created.
- extension: a unique identifier within the scope of the root that is directly equivalent to the identifier designation element.
- identifierName: a human readable name for the namespace represented by the
 root that is populated with the issuer or identifier type values, or a concatenation
 of both, as appropriate. The content of this attribute is not intended for machine
 processing and SHOULD NOT be used for that purpose.
- identifierScope: the geographic span or coverage that applies to or constrains
 the identifier. It is directly equivalent to the geographic area element. The content
 of this attribute is not intended for machine processing and SHOULD NOT be
 used as such.

Also, the following constraints apply on the UniqueIdentifier data type:

- 1) The root attribute SHALL be used.
- For an Entity Identifier, the *root* attribute SHALL be an OID that consists of a node in a hierarchically assigned namespace, formally defined using the ITU-T's ASN.1 standard.
- 3) For an Entity Identifier, the *root* attribute **SHALL NOT** be a UUID.
- 4) The extension attribute SHALL be used.

Usage/Examples

Australian health identifiers (e.g. IHI, HPI-I and HPI-O) and patient hospital medical record numbers are examples of identifiers that may be carried by data elements of this data type.

Keywords Legend

Where used in this document and in DCMs and SCSs, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** are to be interpreted as described in *Key Words for Use in RFCs to Indicate Requirement Levels [RFC2119]*. Our specifications use the terms **SHALL** in place of "MUST" and **SHALL NOT** in place of "MUST NOT". The key word definitions in RFC 2119, adjusted to remove the key words not used in the Agency specifications, are presented in the following table.

Table 4: Keywords Legend

Keyword	Definition
SHALL	This word means that the statement is an absolute requirement of the specification.
SHOULD	This word means that there may exist valid reasons in particular circumstances to ignore a particular data component, but the full implications must be understood and carefully weighed before choosing a different course.

MAY	This word means that a data component is truly optional. One implementer may choose to include the data component because a particular implementation requires it, or because the implementer determines that it enhances the implementation, while another implementer may omit the same data component. An implementation that does not include a particular option shall be prepared to interoperate with another implementation that does include the option, perhaps with reduced functionality. In the same vein, an implementation that does include a particular option shall be prepared to interoperate with another implementation that does not include the option (except of course, for the feature the option provides).
SHALL NOT	This phrase means that the statement is an absolute prohibition of the specification.
SHOULD NOT	This phrase means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

Obligation Legend

In DCMs and SCSs obligations on a data component specify whether or not it **SHALL** be populated in the logical record architecture of a message. We intend that all data components that are not **PROHIBITED** will be implemented.

Obligations in statements about values specify whether or not certain values are permitted.

Implementation guides specify the rules and formats for implementing and populating data components in specific messaging formats.

The following table defines the obligations.

Table 5: Obligations Legend

Keyword	Interpretation	
ESSENTIAL	Indicates that the data component is considered a mandatory item of information and SHALL be populated.	
	Usage/Examples:	
	The Participant data component for a Subject of Care SHALL include an Entity Identifier data component in order to hold the IHI.	
OPTIONAL	Indicates that the data component is not considered a mandatory item of information and MAY be populated.	
	Usage/Examples:	
	Such data components will be implemented, only inclusion and population are optional.	
	This is only needed when a DCM incorrectly asserts that a data component is ESSENTIAL . It will be used with a note stating that the DCM needs revision.	
PROHIBITED	On a data component this indicates that the data component is considered a forbidden item of information and SHALL NOT be included.	
	In a statement about values this indicates that the use of the specified values is considered forbidden and they SHALL NOT be used.	
	Usage/Examples:	
	Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role SHALL NOT be populated.	

CONDITIONAL

Indicates that a data component is considered **ESSENTIAL** only on satisfaction of a given condition. Individual data components specify the obligation of the data component when the condition is not met.

When a condition is met, the data component is considered to be **ESSENTIAL** and **SHALL** be populated.

When a condition is not met, the data component may be considered **PROHIBITED**, or the data component may be considered **OPTIONAL**.

Usage/Examples:

Within a Pathology Result Report, the *Specimen Detail* data group is **ESSENTIAL** if the requested test is to be performed on a specimen; otherwise it **SHALL NOT** be included.

Obligations follow the usual scope rules: where **ESSENTIAL** child data components are contained within **OP-TIONAL** parent data components, the child data components **SHALL NOT** be included when the parent is not included.

B.4 Exceptional Values

Occasionally a data element will have an exceptional value: an abnormal value (i.e. the value cannot be described using the expected set of values) or an absent value (i.e. no value is provided). Some abnormal values are only relevant to data elements of certain data types (e.g. positive infinity is relevant to numbers but not Booleans).

Unless otherwise specified, all data elements are permitted to have exceptional values. Constraints on the use of exceptional values are contained in the Exceptional Values row of the Usage section, except for instances of Participation, when they are in the Conditions of Use row. The most common statements constraining exceptional values are:

- · Absent values are PROHIBITED.
- · Abnormal values are PROHIBITED.

The commonly used implementation specifications ISO 21090 and HL7 CDA R2 use *nullFlavor* to manage abnormal and absent values.

The following table provides a classification of nullFlavor values as abnormal or absent.

Table 6: Classification of ISO 21090 nullFlavor values as absent or abnormal

Level	Code	Term	Abnormal	Absent
1	NI	No information		Absent
2	INV	Invalid	Abnormal	
3	OTH	Other	Abnormal	
4	PINF	Positive infinity	Abnormal	
4	NINF	Negative infinity	Abnormal	
3	UNC	Unencoded	Abnormal	
3	DER	Derived	Abnormal	
2	UNK	Unknown		Absent
3	ASKU	Asked but unknown		Absent
4	NAV	Temporarily unavailable		Absent
3	NASK	Not asked		Absent
3	QS	Sufficient quantity	Abnormal	

Level	Code	Term	Abnormal	Absent
3	TRC	Trace	Abnormal	
2	MSK	Masked		Absent
2	NA	Not applicable		Absent

B.5 Information Model Specification Parts Legends

This section illustrates the format and parts used to define each section, data group and data element within the Agency's DCMs and SCSs, and identifies when each part is applicable.

Chapter Name

Each section, data group, data element, value domain or choice has its own eponymous chapter. The chapter name is used in all data hierarchies.

Identification Section Legend

The following table illustrates the layout of the Identification section and describes the various parts of the section.

Table 7: Identification Section Legend

Label	A suggested display name for the data component.
Metadata Type	The type of the data component, e.g. section, data group or data element.
Identifier	An Agency-assigned internal identifier of the data component.
	Note that if one data component is used twice (e.g. <i>Therapeutic Good Identification</i> is used in both <i>Medication Instruction</i> and <i>Medication Action</i>), both uses of the data component will have the same identifier. A data component identifier identifies a data component, not a use of a data component.
OID	An object identifier equivalent to the data component identifier.
External Identifier	An identifier of the concept represented by the data component that is assigned by an organisation other than the Agency.

Definition Section Legend

The following table illustrates the layout of the Definition section and describes the various parts of the section.

Table 8: Definition Section Legend

Definition	The meaning, description or explanation of the data component.
	For data groups used in a particular context, the definition MAY be a refinement of the generic data group definition.
Definition Source	The authoritative source for the Definition statement.
Synonymous Names	A list of any names the data component may also be known as.

Implementers may prefer to use synonymous names to refer to the data component in

specific contexts.

Scope Situations in which the data component may be used, including the Scope circumstances

where specified data are required or recommended.

For example, Medication Instruction (data group) has a scope that includes all

prescribable therapeutic goods, both medicines and non-medicines.

This item is not relevant to data elements or value domains.

Scope Source The authoritative source for the Scope statement.

Context The environment in which the data component is meaningful, i.e. the circumstance,

purpose and perspective under which this data component is defined or used.

For example, Street Name has a context of Address.

This item is applicable only to data elements.

Assumptions Suppositions and notions used in defining the data component.

Assumptions Source

The authoritative source for the Assumptions statement.

Notes Informative text that further describes the data component, or assists in the

understanding of how the data component can be used.

Data Type The data type (or data types) of the data element, e.g. DateTime or Text.

The valid data types are specified in the Data Types Legend.

This item is applicable only to data elements.

Value Domain The name of the Value Domain used to define the range of values of the data element,

or a statement describing what values to use in the absence of a defined value domain

for the related data element.

The statement is:

In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and **SHALL** be publicly available.

When national standard code sets become available, they **SHALL** be used and the non-standard code sets **SHALL** be deprecated.

This item is applicable only to data elements with data type CodedText or CodeableText.

Data Hierarchy

The top-level data components (a Structured Document in an SCS or Data Groups in a DCM) contain a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one data component in another. Each entry contains at least three occupied cells. The left-most cell contains an icon to indicate the entry's data type. The next cell to the right contains the label of the data component (if the label is different from the name, the name is displayed in brackets after the label). The next cell to the right contains the multiplicity range for the data component.

If a row is shaded grey, this indicates that the data component **SHOULD NOT** be used. This will be because analysis of requirements either did not find reasons to use it or found reasons to not use it.

If the text in a row is in a strike through font and the multiplicity is 0..0, this indicates that the data component **SHALL NOT** be used. This will be because analysis of requirements found reasons to prohibit the use of it.

In some documents the right-hand side of the data hierarchy contains one or more columns under the heading "Core Requirement". Each column contains information for one document exchange scenario. A cell that is empty indicates that the data component on that row is **OPTIONAL** to implement. That is, software that creates documents made in conformance with this specification **MAY** exclude the data component, and software that reads documents made in conformance with this specification **MAY** ignore the data component. All other data components **SHALL** be implemented.

Sample SCS Data Hierarchy



Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

Items below with a grey background are data components that are included in the relevant detailed clinical model specification, but whose use is discouraged in this particular scenario.

	SPECIALIST LETTER							
CONTE	EXT							
	8	SUBJE	CT OF C	ARE	11			
	8	DOCUM	MENT AU	THOR	11			
		ENCOL	JNTER		11			
		7 th	DateTime Subject of Care Seen (DateTime Health Event Started)					
		7 (2)	DateTime Health Event Ended					
		8	HEALTHCARE FACILITY					
	46 XV 893A	Docume	Document Instance Identifier					
	•	RELATED INFORMATION			00			
	46 XV 89 3A	Document Type 11			11			
CONTE	ENT							
		RESPONSE DETAILS			11			
		•	Diagnosis (PROBLEM/DIAGNOSIS)		0*			
			001011001	Diagnosis Name (Problem/Diagnosis Identification)	11			
			T	Clinical Description	00			
	and mo	re						

Value Domain Section Legend

The following table illustrates the layout of the Value Domain section and describes the various parts of the section.

Table 9: Value Domain Section Legend

The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.

Version Number

Version number of the value domain source.

A specification of the permissible values in the value domain.

This may be a list of codes. (Each code is typically presented as a triple with code values, text equivalent, and description) for example:

1, Registered No result yet available.

This may be a conformance statement (e.g. "The permissible values are the members of the following seven AMT reference sets: ...").

Usage Section Legend

The following table illustrates the layout of the Usage section and describes the various parts of the section.

Table 10: Usage Section Legend

Examples	Sample values for the data element, with or without notes about sample values.	
	Where a data element has an associated value domain, examples representative of that domain are used where possible. Where the value domain is yet to be determined, indicative examples are provided.	
	Implementation guides may contain specific examples of how data elements may be populated and how they relate to each other.	
	This item is applicable only to data elements.	
Conditions of Use	Prerequisites, provisos or restrictions for use of the data component.	
Conditions of Use Source	The authoritative source for the Conditions of Use statement.	
Misuse	Incorrect, inappropriate or wrong uses of the data component.	
Default Value	A common denomination, or at least a usable denomination, from the Value Domain where available or applicable, typically assigned at the creation of an instance of the data component.	
Exceptional Values	A statement of limitations on the use of exceptional values, see Exceptional Values.	
	Unless otherwise specified, all data elements are permitted to have exceptional values. The most common statements constraining exceptional values are:	
	Abnormal values are PROHIBITED .	
	Absent values are PROHIBITED .	
	This item is applicable only to data elements.	

Relationships Section Legend

The Relationships section specifies the cardinality between parent and child data components.

The following table illustrates the layout of the Parent relationships table. Note that the occurrences in the relationships described by this table are from the parent to the child data component, i.e. from the data component listed in the table to the data component described by the section.

Table 11: Parent Legend

Data Type	Name	Occurrences (child within parent)
The icon illustrating the metadata type or data type.	Parent Data Component Name	The minimum and maximum number of instances of the data component described on this page that SHALL occur.

The following table illustrates the layout of the Children relationships table.

Table 12: Children Legend

Data Type	Name	Occurrences
The icon illustrating the metadata type or data type.	Child Data Component Name	The minimum and maximum number of instances of the data component described on this page that SHALL occur.

Appendix C. Change History

A summary of changes from one document version to the next. Changes to the change history are excluded.

C.1 Changes Since Version 1.1 - 18 December 2015

Generic changes

Various changes to rebrand the document from the National E-Health Transition Authority (NEHTA) to the Australian Digital Health Agency (the Agency):

- Definition Source, Scope Source, Context Source, Condition of Use Source and Value Domain Source updated from "NEHTA" to "Australian Digital Health Agency":
- references to "National E-Health Transition Authority" and "NEHTA" have been replaced with references to the "Australian Digital Health Agency" and "the Agency" respectively; and
- all NEHTA URLs have been updated to redirect to the Agency website.

Preliminary Pages

Document Information section has been changed to include the latest release details.

Chapter 1 Introduction

Various editorial changes to presentation and wording, including replacing the expression "PCEHR" with "My Health Record".

Chapter 2 ACD Custodian Entry Detailed Clinical Model

Rebranding changes.

Chapter 3 Australian Organ Donor Register Entry Detailed Clinical Model

Rebranding changes.

In 3.4 Australian Organ Donor Register Entry, the unused acronym AODR was removed.

Chapter 4 Medicare/DVA Funded Service Detailed Clinical Model

Rebranding changes including replacing the expression "PCEHR" with "My Health Record".

Chapter 5 Pharmaceutical Benefit Item Detailed Clinical Model

Rebranding changes including replacing the expression "PCEHR" with "My Health Record".

Chapter 6 Vaccine Cancellation Reason Detailed Clinical Model

Rebranding changes.

Appendix A. Known Issues

Various changes.

Appendix B. Specification Guide for Use

Various editorial changes.

Renamed the section B.4 "Abnormal and Absent Values" to "Exceptional Values" and updated explanatory text throughout accordingly.

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