

Structured Content Specification

PCEHR Dispense Record Version 1.0

9 May 2013

Approved for External Release

National E-Health Transition Authority Ltd

Level 25 56 Pitt Street Sydney NSW 2000 Australia www.nehta.gov.au

Disclaimer

NEHTA makes the information and other material ("Information") in this document available in good faith but without any representation or warranty as to its accuracy or completeness. NEHTA cannot accept any responsibility for the consequences of any use of the Information. As the Information is of a general nature only, it is up to any person using or relying on the Information to ensure that it is accurate, complete and suitable for the circumstances of its use.

Security

The content of this document is confidential. The information contained herein must only be used for the purpose for which it is supplied and must not be disclosed other than explicitly agreed in writing with NEHTA.

Copyright © 2013 National E-Health Transition Authority Ltd. (NEHTA)

This document contains information which is protected by copyright. All Rights Reserved. No part of this work may be reproduced or used in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems—without the permission of NEHTA. All copies of this document must include the copyright and other information contained on this page.

ii v 1.0

nehta Document Information

Document Information

Document owner

Document Owner

The National Clinical Terminology and Information Service

Change history

Version	Date	Comments
1.0	30 Nov 2012	Initial short-form release.
1.0	9 May 2013	First full-form release.

Related documents

Name	Version/Release Date
Participation Data Specification	Version 3.2, Issued 20 July 2011
Therapeutic Goods Act 1989 - Section 3	Issued 1989

This page is intentionally left blank.

iv v 1.0

Table of Contents

1.	Introduction	
	1.1. Document Purpose	
	1.2. Intended Audience	1
	1.3. Document Scope	1
2.	PCEHR Dispense Record Structured Document	3
	2.1. Purpose	3
	2.2. PCEHR DISPENSE RECORD	4
	2.3. SUBJECT OF CARE	7
	2.4. DOCUMENT AUTHOR	9
	2.5. DateTime Authored	
	2.6. HEALTHCARE FACILITY	
	2.7. PCEHR Dispense Record Instance Identifier	
	2.8. DISPENSER	
	2.9. Source Record Identifier	
3.	Dispense Item Detailed Clinical Model	
•	3.1. Purpose	
	3.2. Use	
	3.3. Misuse	
	3.4. MEDICATION ACTION	
	3.5. Therapeutic Good Identification	
	3.6. Medicines Terminology	
	3.7. Additional Therapeutic Good Detail	
	3.8. Additional Therapeutic Good Detail	
	3.9. Additional Therapeutic Good Detail	
	3.10. Medication Action Instructions	
	3.11. Formula	
	3.12. CHEMICAL DESCRIPTION OF MEDICATION	
	3.13. Form	
	3.14. Medication Form Reference Set	
	3.15. AMOUNT OF MEDICATION	
	3.16. Quantity Description	
	3.17. Medication Action Comment	
	3.18. Brand Substitution Occurred	
	3.19. Number of this Dispense	
	3.20. Maximum Number of Repeats	
	3.21. Administrative Manufacturer Code	
	3.22. Administrative Manufacturer Code Values	
	3.23. Administrative System Identifier	
	3.24. Medication Action DateTime	
	3.25. Medication Action Instance Identifier	
	3.26. LINK	
	3.27. Link Nature	
	3.28. Link Nature Values	
	3.29. Link Role	
	3.30. Link Role Values	
,	3.31. Link Target	
	UML Class Diagrams	
	eference List	
	Mapping from Requirements	
	Known Issues	
C.	Specification Guide for Use	
	C.1. Overview	
	C.2. The Structured Content Specification Metamodel	
	Context	
	Content	63

Section	
Data Group	63
Participation	
Choice	63
Data Element	64
Value Domain	64
C.3. Icon Legend	64
Metadata Types Legend	
Data Types Legend	65
Keywords Legend	69
Obligation Legend	70
C.4. Information Model Specification Parts Legends	71
Data Hierarchy	71
Chapter Name	71
Identification Section Legend	72
Definition Section Legend	72
Value Domain Section Legend	73
Usage Section Legend	73
Relationships Section Legend	74
Index	75

nehta Introduction

1 Introduction

This document is a Structured Content Specification (SCS) for the PCEHR Dispense Record. It specifies the information structure of NEHTA-compliant records about therapeutic good dispense events.

Appendix C: Specification Guide for Use provides definitional details on data type constraints applied to data elements defined in the SCS. It also provides important information on how to read and use the SCS best. Therefore, it is an essential compendium for better understanding of the SCS.

NEHTA values your questions and comments about this document. Please direct your questions or feedback to clinicalinformation@nehta.gov.au.

1.1 Document Purpose

This document describes the Structured Content Specification for the PCEHR Dispense Record.

The content within this document provides reviewers (software development teams, architects, designers, clinicians and informatics researchers) with the necessary information (or references to information held outside this document) to evaluate and assess the clinical suitability of NEHTA-endorsed specifications for the electronic transfer of PCEHR Dispense Records.

It is also a key input to the PCEHR Dispense Record CDA Implementation Guide [NEHT2012n], which describes how to implement NEHTA-compliant PCEHR Dispense Records using the HL7 Clinical Document Architecture [HL7CDAR2].

1.2 Intended Audience

This document is aimed at software development teams, architects, designers, clinicians and informatics researchers who are responsible for the delivery of clinical applications, infrastructure components and messaging interfaces, and also for those who wish to evaluate the clinical suitability of NEHTA-endorsed specifications.

1.3 Document Scope

This document specifies the essential clinical data groups and elements to be captured in a PCEHR Dispense Record exchange and the constraints that should be applied. Its scope is aligned to the document Concept of Operations: Relating to the introduction of a Personally Controlled Electronic Health Record System [DHA2011b].

This is not a guide to implementing any specific messaging standard.

This page is intentionally left blank.

2 PCEHR Dispense Record Structured Document

2.1 Purpose

To support the display of basic details of a dispense record in the PCEHR system.

2.2 PCEHR DISPENSE RECORD

Identification

Label PCEHR DISPENSE RECORD

Metadata Type Structured Document

Identifier SD-16765

OID 1.2.36.1.2001.1001.101.100.16765

Definition

Definition The record of a dispense event tailored for the PCEHR system.

Definition Source NEHTA

Synonymous Names

Data Hierarchy

	PCEHR DISPENSE RECORD			
CONTE	ITEXT			
	8	SUBJECT OF CARE	11	
	8	DOCUMENT AUTHOR	11	
	7 th	DateTime Authored	11	
	7 th	DateTime Health Event Started	00	
	7 th	DateTime Health Event Ended	00	
	8	Dispensing Organisation (HEALTHCARE FACILITY)	11	
	46 X 89 X	PCEHR Dispense Record Instance Identifier	11	
		LINK	00	
	46 X 8 9 X A	Detailed Clinical Model Identifier	00	
	8	DISPENSER	11	
	46 X 89 3A	Identifier of Original Dispense Record (Source Record Identifier)	11	

CONTENT						
		Dispen	se Item (I	MEDICATION ACTION)	11	1
		001011001	Therape	eutic Good Identification	11	1
		T	Therape	Therapeutic Good Strength (Additional Therapeutic Good Detail)		1
		T	Therape	eutic Good Generic Name (Additional Therapeutic Good Detail)	01	1
		T	Addition	nal Dispensed Item Description (Additional Therapeutic Good Detail)	01	1
		T	Label In	nstruction (Medication Action Instructions)	01	1
		T	Formula	a	01	1
		•	Ingredie	ents and Form (CHEMICAL DESCRIPTION OF MEDICATION)	01	1
				ACTIVE INGREDIENT	00	€
			001011001	Form	11	1
				INACTIVE INGREDIENT	00	€
		001011001	Reason	r (Reason for Action)	00	€
		•	Quantity	y Dispensed (AMOUNT OF MEDICATION)	01	1
			312	Quantity	00	€
			001011001	Dose Unit	00	€
			T	Quantity Description	11	1
		T	Comme	ent (Medication Action Comment)	01	1
		123	Sequen	nce Number	00	€
			Adminis	estration (MEDICATION ADMINISTRATION)	00	€
		4	Brand S	Substitution Occurred	01	1
		T	Batchid	(Batch Identifier)	00	€
		7°	Date of	Expiry (Expiry Date)	00	€
		8	DISPEN	NSED TO	00	€

v 1.0 5

123	Number of this Dispense		01
123	Maximum Number of Repeats		01
001011001	Claim Category		00
001011001	Administrative Item Code		00
001011001	PBS Manufacturer Code (Administrative Manufacturer Co	de)	01
T	Unique Pharmacy Prescription Number (Administrative Sy	/stem Identifier)	01
8	INFORMATION PROVIDER		00
8	SUBJECT		00
7"	DateTime of Dispense Event (Medication Action DateTime	e)	11
46 XX	Dispense Item Identifier (Medication Action Instance Identifier)	tifier)	11
	Prescription Item Link (LINK)		01
	Link Nature		11
	Link Role		11
	Prescription Item Identifier (Link Target)		11
4600	Detailed Clinical Model Identifier		00

2.3 SUBJECT OF CARE

Identification

SUBJECT OF CARE Label

Metadata Type **Data Group** Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition The person the therapeutic good is for. The intended recipient of the dispensed item. **Definition Source NEHTA**

Synonymous Names

Patient

Notes The Subject of Care's Medicare card number is recorded in ENTITLEMENT, not

in Entity Identifier.

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 C: Specification Guide for Use.

Additional obligation and occurrence constraints:

- Participation Period is PROHIBITED.
- LOCATION OF PARTICIPATION is PROHIBITED.
- Entity Identifier is ESSENTIAL.
- · Relationship to Subject of Care is PROHIBITED.
- EMPLOYMENT DETAIL is **PROHIBITED**.
- DEMOGRAPHIC DATA is ESSENTIAL.
- Sex is ESSENTIAL.
- DATE OF BIRTH DETAIL is ESSENTIAL.
- DATE OF DEATH DETAIL is **PROHIBITED**.
- · Source of Death Notification is PROHIBITED.
- Mother's Original Family Name is PROHIBITED.

	Country of Birth is PROHIBITED .
	State/Territory of Birth is PROHIBITED .
	Qualifications is PROHIBITED .
	Other additional constraints:
	 Participation Type SHALL have an implementation-specific value equivalent to "Subject of Care".
	Role SHALL have an implementation-specific value equivalent to "Patient".
	The value of one Entity Identifier SHALL be an Australian IHI.
	 AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.
	 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.4 DOCUMENT AUTHOR

Identification

Label DOCUMENT AUTHOR

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition The healthcare provider who wrote the original dispense record.

Definition Source NEHTA

Synonymous

Names

Author

Notes It is intended that Role will have an implementation-specific value equivalent to

"Pharmacist" or a similar occupation.

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 C: *Specification Guide for Use*.

Additional obligation and occurrence constraints:

- Participation Period is PROHIBITED.
- · LOCATION OF PARTICIPATION is PROHIBITED.
- Entity Identifier is ESSENTIAL.
- Relationship to Subject of Care is PROHIBITED.
- EMPLOYMENT DETAIL is PROHIBITED.
- DEMOGRAPHIC DATA is PROHIBITED.
- ENTITLEMENT is **PROHIBITED**.

Other additional constraints:

- Participation Type SHALL have an implementation-specific value equivalent to "Document Author".
- Role SHOULD have a value chosen from 1220.0 ANZSCO Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 -METeOR 350899 [ABS2006]. 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.
	The value of one Entity Identifier SHALL be an Australian HPI-I.
	 AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.
	 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.5 DateTime Authored

Identification

Label DateTime Authored

Metadata Type Data Element Identifier DE-20105

OID 1.2.36.1.2001.1001.101.103.20105

Definition

Definition	The date or date and time when the original dispense record was written.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Examples Please see DateTime in Appendix C, Specification Guide for Use for examples and usage information on specifying a date and/or time.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.6 HEALTHCARE FACILITY

Identification

Label Dispensing Organisation

Metadata Type Data Group Identifier DG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition	The organisation that the dispenser is working for when they dispense the item.
Definition Source	NEHTA
Synonymous Names	
Notes	It is intended that Role will have an implementation-specific value equivalent to "Pharmacy" or similar.

Usage

Conditions of Use	This is a reuse of the <i>PARTICIPATION</i> 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 C: Specification Guide for Use.
	Additional obligation and occurrence constraints:
	Participation Period is PROHIBITED .
	LOCATION OF PARTICIPATION is PROHIBITED .
	Entity Identifier is ESSENTIAL.
	Qualifications is PROHIBITED .
	Other additional constraints:
	 Participation Type SHALL have an implementation-specific value equivalent to "Facility".
	The value of one Entity Identifier SHOULD be an Australian HPI-O.
	One ADDRESS SHALL have an Address Purpose value of "Business".
	 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as an ORGANISATION.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.7 PCEHR Dispense Record Instance Identifier

Identification

Label PCEHR Dispense Record Instance Identifier

Metadata Type Data Element
Identifier DE-16785

OID 1.2.36.1.2001.1001.101.103.16785

Definition

Definition A globally unique identifier for each instance of a PCEHR Dispense Record.

Definition Source NEHTA

Synonymous Names

Data Type UniqueIdentifier

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.8 DISPENSER

Identification

LabelDISPENSERMetadata TypeData GroupIdentifierDG-10296

OID 1.2.36.1.2001.1001.101.102.10296

Definition

Definition	The healthcare provider who made the therapeutic good available.
Definition Source	NEHTA
Synonymous Names	
Notes	It is intended that Role will have an implementation-specific value equivalent to "Pharmacist" or a similar occupation.

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 C: *Specification Guide for Use*.

Additional obligation and occurrence constraints:

- Participation Period is PROHIBITED.
- · LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is ESSENTIAL.
- Relationship to Subject of Care is PROHIBITED.
- EMPLOYMENT DETAIL is PROHIBITED.
- DEMOGRAPHIC DATA is PROHIBITED.
- ENTITLEMENT is **PROHIBITED**.

Other additional constraints:

- Participation Type SHALL have an implementation-specific value equivalent to "Performer".
- Role SHOULD have a value chosen from 1220.0 ANZSCO Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 -METeOR 350899 [ABS2006]. 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.
	The value of one Entity Identifier SHALL be an Australian HPI-I.
	 AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.
	 PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

2.9 Source Record Identifier

Identification

Label Identifier of Original Dispense Record

Metadata Type Data Element Identifier DE-16782

OID 1.2.36.1.2001.1001.101.103.16782

Definition

Definition
The identifier assigned by the source of the original dispense record to that original dispense record.

Definition Source
Synonymous
Names
Data Type
UniqueIdentifier

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

This page is intentionally left blank.

3 Dispense Item Detailed Clinical Model

This chapter describes a reuse of version 4.0 of the Medication Action Detailed Clinical Model.

3.1 Purpose

The recording of activities undertaken with regard to a medicine, vaccine or other therapeutic good, and linking to the instruction if appropriate.

3.2 Use

For recording the planning, issuing of a prescription, dispensing, administration, cessation, suspension, completion of a medicine, vaccine or other therapeutic good. This will usually be in response to a medication order but may be administered immediately without an order at times, thus requiring recording of the administration alone (e.g. in an emergency situation). Such a record may be made to indicate the administration of a dose, dispensing of a certain quantity or as a record of ceasing a medication. The state of the medication instruction is altered by the action taken as indicated in the pathway definition.

There is a date and time at which this action took place (as there is for all actions) and use of this DCM indicates that some action has actually occurred.

3.3 Misuse

Use when recording an instruction or order (use Medication Instruction DCM).

3.4 MEDICATION ACTION

Identification

LabelDispense ItemMetadata TypeData GroupIdentifierDG-16210

OID 1.2.36.1.2001.1001.101.102.16210

Definition

Definition Details of the dispensing and supply of a therapeutic good, including its use by a

subject of care and related information.

Definition Source NEHTA

Synonymous Names

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	PCEHR DISPENSE RECORD	11

Children

Data Type	Name	Occurrences
001011001	Therapeutic Good Identification	11
T	Therapeutic Good Strength (Additional Therapeutic Good Detail)	01
T	Therapeutic Good Generic Name (Additional Therapeutic Good Detail)	01
T	Additional Dispensed Item Description (Additional Therapeutic Good Detail)	01
T	Label Instruction (Medication Action Instructions)	01
T	Formula	01
	Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	01
001011001	Reason (Reason for Action)	00

Data Type	Name	Occurrences
•	Quantity Dispensed (AMOUNT OF MEDICATION)	01
T	Comment (Medication Action Comment)	01
123	Sequence Number	00
	Administration (MEDICATION ADMINISTRATION)	00
*	Brand Substitution Occurred	01
T	Batchid (Batch Identifier)	00
7°2	Date of Expiry (Expiry Date)	00
8	DISPENSED TO	00
123	Number of this Dispense	01
123	Maximum Number of Repeats	01
001011001	Claim Category	00
001011001	Administrative Item Code	00
001011001	PBS Manufacturer Code (Administrative Manufacturer Code)	01
T	Unique Pharmacy Prescription Number (Administrative System Identifier)	01
8	INFORMATION PROVIDER	00
8	SUBJECT	00
7 th	DateTime of Dispense Event (Medication Action DateTime)	11
46 XV 8 9 5 A	Dispense Item Identifier (Medication Action Instance Identifier)	11
	Prescription Item Link (LINK)	01
46 XV 8 9 = A	Detailed Clinical Model Identifier	00

v 1.0 21

3.5 Therapeutic Good Identification

Identification

Label Therapeutic Good Identification

Metadata Type Data Element Identifier DE-10194

OID 1.2.36.1.2001.1001.101.103.10194

Definition

Definition	The medicine, vaccine or other therapeutic good that was the focus of the action.
Definition Source	Therapeutic Goods Administration
Synonymous Names	Item Name
Context	This includes medications and medical devices. It includes drugs, appliances, dressings and reagents.
Context Source	NEHTA
Notes	Identifies a therapeutic good, which is broadly defined as a good which is represented in any way to be, or is likely to be taken to be, for therapeutic use (unless specifically excluded or included under Section 7 of the Therapeutic Goods Act 1989).
	Therapeutic use means use in or in connection with:
	 preventing, diagnosing, curing or alleviating a disease, ailment, defect or injury; or
	influencing, inhibiting or modifying a physiological process; or
	testing the susceptibility of persons to a disease or ailment; or
	influencing, controlling or preventing conception; or
	testing for pregnancy; or
	replacement or modification of parts of the anatomy.
	From [TGA1989a].
	The formal definition of a therapeutic good (from the Therapeutic Goods Act 1989) can be found at: [TGA1989a].
	If Therapeutic Good Identification contains a PBS Item Code, use the PBS Manufacturer Code data element to record the Manufacturer Code.
Data Type	CodeableText
Value Domain	Medicines Terminology

Usage

Conditions of Use	Where the therapeutic good can be identified by an AMT (Australian Medicines Terminology) concept, this SHALL be the AMT ConceptID and Preferred Term. For details see Medicines Terminology.
	When an AMT value is not available, a value from another registered code set MAY be used. The code set SHALL be publicly available. A registered code set is one that has been registered through the HL7 code set registration procedure with an appropriate object identifier (OID).
	For items without an AMT code (including some extemporaneous preparations), a text description is suitable. For a medication this SHALL include the name of the medication (brand name or generic name equivalent), strength and dose form, where appropriate.
Conditions of Use Source	NEHTA
Examples	Some examples of AMT ConceptID and their AMT Preferred Term are:
	1. 23641011000036102 paracetamol 500 mg + codeine phosphate 30 mg tablet
	2. 28329011000036108 paracetamol 500 mg + codeine phosphate 30 mg tablet, 20
	3. 13362011000036106 Panadeine Forte tablet: uncoated, 20 tablets
	4. 6647011000036101 Panadeine Forte (paracetamol 500 mg + codeine phosphate 30 mg) tablet: uncoated, 1 tablet
	5. 20138011000036107 Panadeine Forte tablet: uncoated, 20 tablets, blister pack
	6. 51295011000036108 bandage compression 10 cm x 3.5 m bandage: high stretch, 1 bandage
	7. 48667011000036100 Eloflex (2480) (bandage compression 10 cm x 3.5 m) bandage: high stretch, 1 bandage
	8. 926706011000036104 Engerix-B Paediatric 10 microgram/0.5 mL injection: suspension, 1 x 0.5 mL syringe
Misuse	Detailing the formula of a compounded (extemporaneous) medication.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	11

v 1.0 23

3.6 Medicines Terminology

Identification

Label Medicines Terminology

Metadata Type Value Domain Identifier VD-16115

OID 1.2.36.1.2001.1001.101.104.16115

Definition

Definition A set of values used to refer to medicines and other therapeutic goods.

Definition Source NEHTA

Notes An explanation of AMT concepts can be found in Australian

An explanation of AMT concepts can be found in Australian Medicines Terminology Editorial Rules (v2 model) [NEHT2011bs].

Prescribing and dispensing use different sets of values.

Value Domain

Source Austra Permissible The pe

Values

Australian Medicines Terminology

The permissible values are the members of the following seven AMT reference sets:

- 929360061000036106 | Medicinal product reference set
- 929360081000036101 | Medicinal product pack reference set |
- 929360071000036103 | Medicinal product unit of use reference set
- 929360021000036102 | Trade product reference set |
- 929360041000036105 | Trade product pack reference set
- 929360031000036100 | Trade product unit of use reference set |
- 929360051000036108 |Containered trade product pack reference set|

Different reference sets are allowed in the differing contexts of prescribing, dispensing and administering, as listed below.

Prescribing:

- 929360081000036101 | Medicinal product pack reference set |
- 929360071000036103 | Medicinal product unit of use reference set
- 929360041000036105 |Trade product pack reference set|
- 929360031000036100 | Trade product unit of use reference set |
- 929360051000036108 |Containered trade product pack reference set|

Dispensing:

- 929360041000036105 | Trade product pack reference set
- 929360031000036100 | Trade product unit of use reference set |
- 929360051000036108 |Containered trade product pack reference set|

Administering:

• 929360031000036100 | Trade product unit of use reference set |

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
001011001	Therapeutic Good Identification	11

3.7 Additional Therapeutic Good Detail

Identification

Label Therapeutic Good Strength

Metadata Type Data Element Identifier DE-16769

OID 1.2.36.1.2001.1001.101.103.16769

Definition

Definition Information concerning the strength of the Therapeutic Good.

Definition Source NEHTA

Synonymous Names

Data Type

Usage

Conditions of This SHALL NOT contradict the value of the *Therapeutic Good Identification* data element.

Conditions of NEHTA

Use Source

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.8 Additional Therapeutic Good Detail

Identification

Label Therapeutic Good Generic Name

Metadata Type Data Element Identifier DE-16769

OID 1.2.36.1.2001.1001.101.103.16769

Definition

Definition	The generic name of the Therapeutic Good.
Definition Source	NEHTA
Synonymous Names	
Data Type	

Usage

Conditions of	This SHALL NOT contradict the value of the Therapeutic Good Identification data
Use	element.
Conditions of Use Source	NEHTA
Examples	

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.9 Additional Therapeutic Good Detail

Identification

Label Additional Dispensed Item Description

Metadata Type Data Element Identifier DE-16769

OID 1.2.36.1.2001.1001.101.103.16769

Definition

Definition Extra information about the therapeutic good.

Definition Source NEHTA

Synonymous Names

Data Type

Usage

Conditions of This SHALL NOT contradict the value of the *Therapeutic Good Identification* data element.

Conditions of NEHTA

Use Source Examples

Relationships

Parents

Data Type	Name	
	Dispense Item (MEDICATION ACTION)	01

3.10 Medication Action Instructions

Identification

LabelLabel InstructionMetadata TypeData ElementIdentifierDE-16109

OID 1.2.36.1.2001.1001.101.103.16109

Definition

Definition Any instructions given to the subject of care or carer at the time of the dispense event.

Definition Source NEHTA

Synonymous Names

Data Type Text

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
%	Dispense Item (MEDICATION ACTION)	01

3.11 Formula

Identification

LabelFormulaMetadata TypeData ElementIdentifierDE-16272

OID 1.2.36.1.2001.1001.101.103.16272

Definition

Definition The recipe for compounding a medicine.

Definition Source NEHTA

Synonymous Names

Data Type Text

Usage

1. Salicylic Acid 2% in White Soft Paraffin to 100g:

Salicylic Acid 2g

White Soft Paraffin to 100g

Misuse

Describing off-the-shelf medications.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.12 CHEMICAL DESCRIPTION OF MEDICATION

Identification

Label Ingredients and Form

Metadata Type Data Group Identifier DG-16408

OID 1.2.36.1.2001.1001.101.102.16408

Definition

Definition	Detailed information about the ingredient(s) including form and strength.
Definition Source	NEHTA
Synonymous Names	

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

Children

Data Type	Name	Occurrences
	ACTIVE INGREDIENT	00
001011001	Form	11
	INACTIVE INGREDIENT	00

3.13 Form

Identification

Label Form

Metadata Type Data Element Identifier DE-10186

OID 1.2.36.1.2001.1001.101.103.10186

Definition

Definition The formulation or presentation of the overall substance.

Definition Source NEHTA

Synonymous Manufactured Form

Names Dose Form

NotesForm is used to specify a characteristic of a product as it is manufactured or

formulated for dispensing. The form the medication takes when actually administered may vary somewhat from the manufactured form. Tablets may be soluble. Such tablets may or may not be actually dissolved into a solution prior to administration. Similarly with powders and liquids. If it is critical for the care of the patient to differentiate the manufactured form from the administered form, then this should be done via correct labelling and patient instructions. See *Subject of*

Care Instructions and Cautionary Advice.

Data Type CodeableText

Value Domain Medication Form Reference Set

Usage

Examples 1. Tablet

2. Capsule

3. Oral drops

4. Effervescent powder

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	11

3.14 Medication Form Reference Set

Identification

Label Medication Form Reference Set

Metadata Type Value Domain Identifier VD-16618

OID 1.2.36.1.2001.1001.101.104.16618

External SNOMED CT-AU Concept Id: 32570621000036105

Identifier

Definition

Definition The set of values for the medication form.

Definition Source NEHTA

Value Domain

Source SNOMED CT-AU

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
001011001	Form	11

3.15 AMOUNT OF MEDICATION

Identification

Label Quantity Dispensed

Metadata Type Data Group Identifier DG-16423

OID 1.2.36.1.2001.1001.101.102.16423

Definition

Definition The quantity of medicine, vaccine or other therapeutic good that was dispensed.

Definition Source NEHTA

Synonymous Names

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

Children

Data Type	Name	Occurrences
312	Quantity	00
001011001	Dose Unit	00
T	Quantity Description	11

3.16 Quantity Description

Identification

Label Quantity Description

Metadata Type Data Element Identifier DE-16525

OID 1.2.36.1.2001.1001.101.103.16525

Definition

Definition Free text description of the amount which may consist of the quantity and dose unit.

Definition Source NEHTA

Synonymous Names

Data Type Text

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Quantity Dispensed (AMOUNT OF MEDICATION)	11

3.17 Medication Action Comment

Identification

LabelCommentMetadata TypeData ElementIdentifierDE-16044

OID 1.2.36.1.2001.1001.101.103.16044

Definition

Definition Any additional information that may be needed to ensure the continuity of supply, proper use, or appropriate medication management.

Definition Source Synonymous

Names Data Type

Data Type Text

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.18 Brand Substitution Occurred

Identification

Label Brand Substitution Occurred

Metadata Type Data Element Identifier DE-16064

OID 1.2.36.1.2001.1001.101.103.16064

Definition

Definition
A different brand of the same medicine, vaccine or other therapeutic good was substituted for the one nominated in the order.

Definition Source
NEHTA
Synonymous
Names
Data Type
Boolean

Usage

Examples	
Misuse	Using this data element for therapeutic substitution.
	Using this data element for medical appliances.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.19 Number of this Dispense

Identification

Label Number of this Dispense

Metadata Type **Data Element Identifier** DE-16106

OID 1.2.36.1.2001.1001.101.103.16106

Definition

Definition A numeric value that represents the dispense number or sequence number that has been reached for a therapeutic good prescribed with repeats. This count

includes the first dispense. It has the value "1" when there are no repeats.

Definition Source NEHTA

Synonymous Names

Notes Each prescribed item logically possesses a pre-determined number of times it

may be dispensed; the number is "1" (for the original prescription) + the maximum

number of repeats.

This data element (Number of this Dispense) indicates which dispensing of the item is being attempted by the dispense act that this dispense record documents.

Its value is one more than the number of times the prescribed item has successfully been dispensed prior to this dispensing.

Its value increments by one each time a dispense act is successfully completed.

The value of this term is one more than the commonly used term "number this

repeat".

Data Type Integer

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.20 Maximum Number of Repeats

Identification

Label Maximum Number of Repeats

Metadata Type Data Element Identifier DE-10169

OID 1.2.36.1.2001.1001.101.103.10169

Definition

DefinitionThe number of times the supply of the prescribed item may be repeated under the terms of the prescription.

Definition Source NEHTA

Synonymous Names

Notes Note that the initial supply under the prescription is not counted as a repeat.

PBS and RPBS items specify a maximum number of permitted repeats within the Schedules. This number must not be exceeded on a prescription without the

appropriate authorisation.

When a prescription for a PBS medicine asks for repeat supplies, the pharmacist

shall prepare a Repeat Authorisation Form to be attached to the

"Pharmacist/Subject of Care" copy. An exception to this is when the prescription is marked "Regulation 24", where all repeats are supplied at once with the original prescription. A similar exception is permitted for RPBS prescriptions endorsed with "hardship conditions apply". The Repeat Authorisation is to be detailed in a

separate Structured Document Template.

Data Type Integer

Usage

Examples

Default Value 0

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.21 Administrative Manufacturer Code

Identification

Label PBS Manufacturer Code

Metadata Type Data Element Identifier DE-16648

OID 1.2.36.1.2001.1001.101.103.16648

Definition

Definition Administrative code of the manufacturer of the pharmaceutical item supplied.

Definition Source NEHTA

Synonymous Names

Notes If Therapeutic Good Identification contains an AMT code, this will be empty. If

Therapeutic Good Identification contains a PBS Item Code, this may contain a

PBS Manufacturer Code.

Data Type CodeableText

Value Domain Administrative Manufacturer Code Values

Usage

Conditions of This SHALL NOT have a value if the value of Therapeutic Good Identification encodes the manufacturer.

Conditions of

NEHTA

Use Source Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	01

3.22 Administrative Manufacturer Code Values

Identification

Label Australian PBS Manufacturer Code

Metadata Type Value Domain VD-16647

External 1.2.36.1.2001.1005.23

Identifier

OID 1.2.36.1.2001.1001.101.104.16647

Definition

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

Definition Source NEHTA

Value Domain

Source Department of Health and Ageing, PBS manufacturer code.

Relationships

Parents

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

3.23 Administrative System Identifier

Identification

Label Unique Pharmacy Prescription Number

Metadata Type Data Element Identifier DE-16786

OID 1.2.36.1.2001.1001.101.103.16786

Definition

Definition A sequential number assigned by a pharmacy to identify for Medicare dispense

events by that pharmacy.

Definition Source NEHTA

Synonymous Names

Data Type Text

Usage

Use

Conditions of The value SHOULD be unique. The value MAY be not unique.

Conditions of Use Source

NEHTA

Examples 1. Australian Pharmacy Approval Number

2. Australian Unique Pharmacy Prescription Number

Relationships

Parents

Da Ty	ata /pe	Name	Occurrences (child within parent)
	%	Dispense Item (MEDICATION ACTION)	01

3.24 Medication Action DateTime

Identification

Label DateTime of Dispense Event

Metadata Type Data Element Identifier DE-16591

OID 1.2.36.1.2001.1001.101.103.16591

Definition

Definition The point in time at which the *Medication Action* is completed.

Definition Source NEHTA

Synonymous
Names

Data Type DateTime

Usage

Examples Please see DateTime in Appendix C, Specification Guide for Use for examples

and usage information on specifying a date and/or time.

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	11

3.25 Medication Action Instance Identifier

Identification

Label Dispense Item Identifier

Metadata Type Data Element Identifier DE-16637

OID 1.2.36.1.2001.1001.101.103.16637

Definition

Definition A globally unique identifier for each instance of *Medication Action* action.

Definition Source NEHTA

Synonymous Names

Data Type UniqueIdentifier

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Dispense Item (MEDICATION ACTION)	11

3.26 LINK

Identification

Label Prescription Item Link

Metadata Type Data Group Identifier DG-16692

OID 1.2.36.1.2001.1001.101.102.16692

Definition

Definition A link to the Prescription Item that authorised the dispensing of the therapeutic

good which this Dispense Event describes.

Definition Source NEHTA

Synonymous Names

Relationships

Parents

	ata pe	Name	Occurrences (child within parent)
€	%	Dispense Item (MEDICATION ACTION)	01

Children

Data Type	Name	Occurrences
001011001	Link Nature	11
001011001	Link Role	11
46 XV	Prescription Item Identifier (Link Target)	11

3.27 Link Nature

Identification

LabelLink NatureMetadata TypeData ElementIdentifierDE-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

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

Definition Source NEHTA

Synonymous Names

Notes This is one of two attributes which together communicate the semantics of the

relationship between the source and target DCMs. 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

Conditions of This SHALL be LINK-B0 ("is confirmed by or authorised by").

Use

Conditions of Use Source

Examples

NEHTA

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Prescription Item Link (LINK)	11

3.28 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

Definition

Definition The 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 NEHTA

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], 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

Parents

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

3.29 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 NEHTA Synonymous Names Notes** This is one of two attributes which 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

Conditions of Use	This SHALL be LINK-B3 ("permits (sanctions, authorises)").
Conditions of Use Source	NEHTA
Examples	

Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Prescription Item Link (LINK)	11

3.30 Link Role Values

Identification

LabelLink Role ValuesMetadata TypeValue DomainIdentifierVD-16699

OID 1.2.36.1.2001.1001.101.104.16699

Definition

Definition The 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 NEHTA

Context These values are used within the context of values from *Link Role*. They provide

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

interoperable automated processing.

Context Source NEHTA

Value Domain

Source	ISO 13606-3:2009		
Permissible Values	Values SHOULD be from Termlist LINK_ROLE in ISO 13606-3:2009 [ISO2009a].		
values	Values MAY be from any suitable terminology.		
		mlist LINK_ROLE in ISO 13606-3:2009 Health informatics ord communication - Part 3: Reference archetypes and term	
	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 Use	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a sub-category of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string "LINK-" e.g. 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

Parents

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

3.31 Link Target

Identification

Label Prescription Item Identifier

Metadata Type Data Element Identifier DE-16700

OID 1.2.36.1.2001.1001.101.103.16700

Definition

Definition The *Prescription Item Identifier* of the Prescription Item which authorised the

dispensing of the therapeutic good which this Dispense Event describes.

Definition Source NEHTA

Synonymous Names

Data Type UniqueIdentifier

Usage

Examples

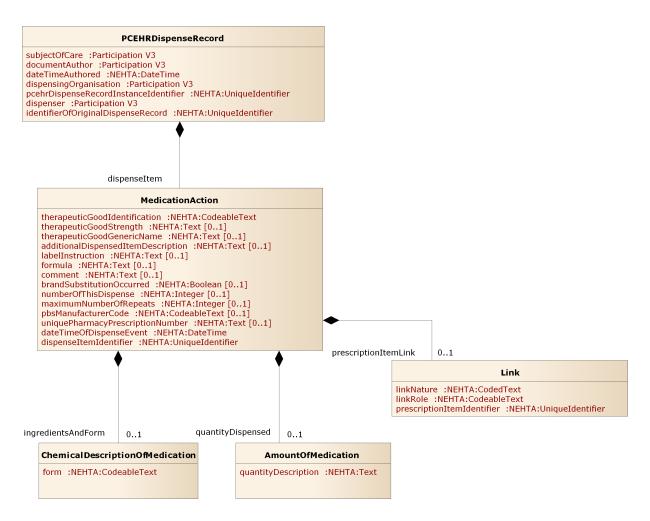
Relationships

Parents

Data Type	Name	Occurrences (child within parent)
	Prescription Item Link (LINK)	11

4 UML Class Diagrams

The following figure presents 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 names are represented as association role names. Association role names are only displayed if they differ from the associated class name. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.



UML class diagram of the Physical Measurements data hierarchy (top level sections).

This page is intentionally left blank.

nehta Reference List

Reference List

[ABS2006] Australian Bureau Of Statistics, September 2006, 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899, accessed 15 March 2010. http://www.abs.gov.au/ausstats/abs@.nsf/mf/1220.0 [DHA2011b] Australian Department of Health and Ageing and National E-Health Transition Authority Ltd, 9 September 2011, Concept of Operations: Relating to the introduction of a Personally Controlled Electronic Health Record System, Version 1.0, accessed 15 November 2012. http://www.yourhealth.gov.au/internet/yourhealth/publishing.nsf/Content/-PCEHRS-Intro-toc [HL7CDAR2] Health Level Seven, Inc., January 2010, HL7 Clinical Document Architecture, Release 2, accessed 18 November 2010. http://www.hl7.org/implement/standards/cda.cfm [ISO2009a] International Organization for Standardization, 14 Jan 2009, ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists, Edition 1 (Monolingual), accessed 20 June 2012. https://infostore.saiglobal.com/store/Details.aspx?ProductID=1092099 [NEHT2007b] National E-Health Transition Authority, 24 September 2007, Interoperability Framework, Version 2.0. http://www.nehta.gov.au/connecting-australia/ehealth-interoperability [NEHT2010c] National E-Health Transition Authority, September 2010, Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification, Version 1.0, accessed 1 February 2013. http://www.nehta.gov.au/component/docman/doc_download/-1121-data-types-in-nehta-specifications-v10 [NEHT2011bs] National E-Health Transition Authority, 23 December 2011, Australian Medicines Terminology Editorial Rules (v2 model), Version 4.0, accessed 23 October 2012. http://www.nehta.gov.au/component/docman/doc download/-1410-nctis-editorial-rules-v2-model-australian-medicines-terminology National E-Health Transition Authority, To be published, Medication Instruction And [NEHT2011bt] Action Detailed Clinical Model Specification, Version 2.2. [NEHT2011v] National E-Health Transition Authority, 20 July 2011, Participation Data Specification, Version 3.2, accessed 20 September 2012. http://www.nehta.gov.au/component/docman/doc_download/-1341-participation-data-specification-v32 [NEHT2012n] National E-Health Transition Authority, To be published, PCEHR Dispense Record CDA Implementation Guide, Version 1.0. [RFC1521] Network Working Group, 1993, RFC1521 - MIME (Multipurpose Internet Mail Extensions) Part One, accessed 07 June 2010. http://www.fags.org/rfcs/rfc1521.html Network Working Group, 1997, RFC2119 - Key words for use in RFCs to Indicate [RFC2119] Requirement Levels, accessed 13 April 2010. http://www.fags.org/rfcs/rfc2119.html Standards Australia, 2006, AS 4846 (2006) - Healthcare Provider Identification, ac-[SA2006a] cessed 12 November 2009. http://infostore.saiglobal.com/store/Details.aspx?ProductID=318554

[SA2006b] Standards Australia, 2006, AS 5017 (2006) - Healthcare Client Identification, ac-

cessed 12 November 2009.

http://infostore.saiglobal.com/store/Details.aspx?ProductID=320426

[TGA1989a] Commonwealth of Australia, 1989, Therapeutic Goods Act 1989 - Section 3.

http://www.austlii.edu.au/au/legis/cth/consol_act/tga1989191/-

s3.html#therapeutic_goods

Appendix A. Mapping from Requirements

Mapping from data items presumed to be available in source systems to SCS data items

Data Item	SCS Data Element	Comment
Subject of Care	Subject of Care	
	Document Author	This data element is essential in all SCSs.
	DateTime Authored	This data element is essential in all SCSs.
Dispenser	Dispenser	
Dispensing Organisation	Dispensing Organisation (Healthcare Facility)	
Dispense Record Identifier	PCEHR Dispense Record Instance Identifier	
	Identifier of Original Dispense Record (Source Record Identifier)	The original dispense record is distinct from this PCEHR Dispense Record, so the identifiers must be distinct.
Dispense Item	Dispense Item (Medication Action)	
Dispense Item Identifier	Dispense Item. Dispense Item Identifier (Medication Action Instance Identifier)	
DateTime of Dispense Event	Dispense Item.DateTime of Dispense Event (Medication Action DateTime)	
Prescription Item Identifier	Dispense Item.Prescription Item Link.Prescription Item Identifier (Link Target)	
Therapeutic Good Identification	Dispense Item.Therapeutic Good Identification	
Extemporaneous Description	Dispense Item.Formula	
Quantity Dispensed	Dispense Item.Quantity Dispensed.Quantity Description	
Brand Substitution Occurred	Dispense Item.Brand Substitution Occurred	

Data Item	SCS Data Element	Comment
Maximum Number of Repeats	Dispense Item.Maximum Number of Repeats	
Number of this Dispense	Dispense Item.Number of this Dispense	
Label Instruction	Dispense Item.Label Instruction (Medication Action Instructions)	
Comment	Dispense Item.Comment (Medication Action Comment)	
Medication Form	Dispense Item.Ingredients and Form.Form	
Item Strength	Dispense Item.Therapeutic Good Strength (Additional Therapeutic Good Detail)	
Item Generic Name	Dispense Item.Therapeutic Good Generic Name (Additional Therapeutic Good Detail)	
PBS Item Code	Dispense Item.Therapeutic Good Identification	
PBS Manufacturer Code	Dispense Item.PBS Manufacturer Code (Administrative Manufacturer Code)	
Additional Dispensed Item Description	Dispense Item.Additional Dispensed Item Description (Additional Therapeutic Good Detail)	
UPPN	Dispense Item.Unique Pharmacy Prescription Number (Administrative System Identifier)	

nehta Known Issues

Appendix B. Known Issues

Reference	Description
Links to external resources	If a link (usually in the references section) spans across several lines, certain combinations of PDF reader and web browser have problems opening it.
No requirements	There are no written requirements for this document. However, it was constructed using the Detailed Clinical Model for Medication Action (which is used for many PCEHR structured document specifications).
Medication Action DCM v4.0	Version 4.0 of Medication Action Detailed Clinical Model has not yet been published.
Unique Pharmacy Prescription Number	This is only meaningful when used together with the Pharmacy Approval Number assigned by Medicare Australia. The Pharmacy Approval Number is recorded in the Entitlement Number data element of the Dispensing Organisation. Any extract of the Dispense Item must include that information from the document context to be meaningful.

This page is intentionally left blank.

Appendix C. Specification Guide for Use

C.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 which 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 conformance, compliance and accreditation testing of implemented systems. NEHTA's 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 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.

C.2 The Structured Content Specification Metamodel

The NEHTA Structured Content Specification Metamodel (see Figure 1) is used to specify the overall structure of a Structured Content Specification.

A DCM can be regarded as a Data Group with no parent.

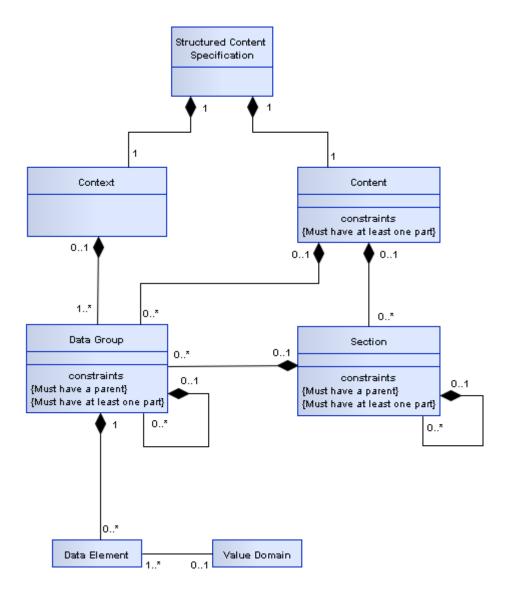


Figure 1: SCS Metamodel

There are two main components 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, and consists of the following components:

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

These components are described in more detail below.

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

The Content contains a collection of personal information and health information pertinent to a subject of care which 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 other sections, data groups, or both. It is an organising container that gives the reader a clue as to the expected content. The primary purpose of a section is to organise information in a manner that is suitable for the primary purpose for which it is collected, and to provide 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 and/or data elements. 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 NEHTA interoperability framework [NEHT2007b]. 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.

[NEHT2011v] defines the full Participation specification.

Choice

Choice represents a decision to be made at run-time between a disjunctive mandatory set of data groups 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.

Whilst 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 components and therefore, the same value domain can be referred to by different data elements in different contexts. Value domains are often specified as a reference set. A reference set (or a subset) is a constrained list of SNOMED CT-AU, AMT or LOINC concepts that are appropriate to a particular context. It is noted that 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 by either specifying a lower and/or upper bound on the range of permissible values or else 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/terminology reference sets. The table below provides some examples of value domains.

Data Element	Data Type	Example	of Value Domain	
Sex	CodedText	[SA2006a] and [SA2006b] derive their values from METeOR 270263 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 which references concepts Bronchitis' (Concept ID: 32398004).	
Therapeutic Good Identification	CodeableText	An AMT reference set which 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 which references concepts such as 'Cholesterol [Moles/volume] in Serum or Plasma' (ID: 14647-2).		

Table 1: Value Domain Examples

C.3 Icon Legend

These legends describe all icons that are used within the various NEHTA information specifications.

Metadata Types Legend

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

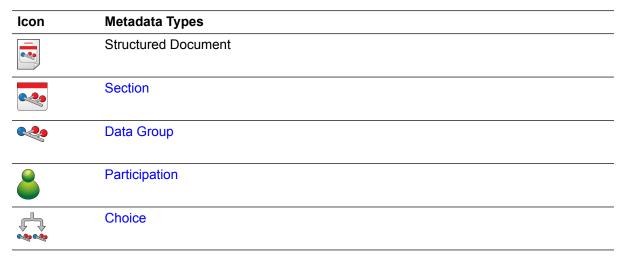


Table 2: Metadata Types Legend

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 [NEHT2010c].

Icon	Data type	Explanation
4	Boolean	A primitive data type, sometimes called the logical data type, having one of two values: <i>true</i> and <i>false</i> . Many systems represent true as <i>non-zero</i> (often
	(ISO 21090: BL)	1, or -1) and false as zero.
		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; a flexible data type to support various ways of holding text, both free text and coded text. Commonly used to support compliance for early adopters of the Structured Content Specifications. Whilst 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 a recognition that it may not be possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) or that there may be competing code sets in existence. Note that within exchange specifications and/or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

Usage/Examples

- AIHW Separation Mode specifies the status at separation of a person from an organisation. An early adopter MAY 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 components 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

[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

(ISO 21090: TS)

Used for specifying a single date and/or time. Has the ability to indicate a level of precision, but not whether the date/time is estimated. String representations of known dates **SHALL** conform to the nonextended format within the **ISO 21090-2011** standard, i.e. YYYYMMDDHHMMSS.UUUU[+]-ZZzz.

Usage/Examples

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone which is 5 hours behind Coordinated Universal Time (UTC): 19990531132000-0500.



Duration

(ISO 21090: PQ.TIME) The period of time during which something continues. Consists of a value and a unit which 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



Any

(ISO 21090: ANY) Represents a data element where the data type to be used is conditional upon another data component. The values that can be required will vary considerably depending on the context. Note that this is an abstract data type that is the basis for all data types and **SHOULD NOT** be used in an actual implementation.



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

(ISO 21090: INT)

The mathematical data type comprising the exact integral values (according to [NEHT2010c]).

Usage/Examples

- 1
- -50
- 125



Link

(ISO 21090: TEL) This is 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/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

(ISO 21090: PQ)

Used for recording many real world measurements and observations. Includes the magnitude value and the units.

Usage/Examples

- · 100 centimetres
- 25.5 grams



QuantityRatio

(ISO 21090: RTO) The relative magnitudes of two *Quantity* values (usually expressed as a quotient).

Usage/Examples

- 25 mg/500 ml
- · 200 mmol per litre



QuantityRange

(ISO 21090: IVL)

Two *Quantity* values that define the minimum and maximum values, 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 defined by not including a minimum and/or a maximum quantity value.

Usage/Examples

- · -20 to 100 Celsius
- 30-50 mg
- >10 kg



Real

(ISO 21090: REAL) A computational approximation to the standard mathematical concept of real numbers. These are often called floating-point numbers.

Usage/Examples

- 1.075
- -325.1
- 3.14157



Text

(ISO 21090: ST)

Character strings (with optional language). Unless otherwise constrained by an implementation, can be any combination of alpha, numeric or symbols from the Unicode character set. Sometimes 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

(ISO 21090:TS)

An interval in time, with (optionally) a start date/time and (optionally) an end date/time and/or a duration/width.

Usage/Examples

- 01/01/2008 31/12/2008
- 1:30 a.m. 6:00 p.m., duration/width = 16.5 hours



UniqueIdentifier

A general unique value 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) [SA2006a] and AS 5017 (2006) [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 as such.
- 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 Uniqueldentifier data type:

- 1. The root attribute SHALL be used.
- 2. 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

IHIs, HPI-Is, HPI-Os and patient hospital medical record numbers are examples of identifiers that **MAY** be carried by this data type.

Table 3: Data Types Legend

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 [RFC2119].

The following table defines these keywords

Keyword	Interpretation	
SHALL	This word, or the term 'required', means that the definition is an absolute requirement of the specification.	
SHOULD	This word, or the adjective 'recommended', means that there MAY exist valid reasons in particular circumstances to ignore a particular component, but the full implications SHALL be understood and carefully weighed before choosing a different course.	

MAY	This word, or the adjective 'optional', means that a component is truly optional. One implementer may choose to include the component because a particular implementation requires it, or because the implementer determines that it enhances the implementation while another implementer may omit the same 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 definition is an absolute prohibition of the specification.
SHOULD NOT	This phrase, or the phrase 'not recommended' 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.

Table 4: Keywords Legend

Obligation Legend

Obligation in DCMs or SCSs specifies whether or not a data component **SHALL** be populated in the logical record architecture of a message. NEHTA intends that all data components will be implemented.

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

The following table defines the obligations.

Keyword	Interpretation		
ESSENTIAL	Indicates that the data component is considered a mandatory component of information and SHALL be populated.		
	Usage/Examples:		
	The Participant 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 component of information and MAY be populated.		
	Usage/Examples:		
	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	Indicates that the data component is considered a forbidden component of information and SHALL NOT be populated.		
	Usage/Examples:		
	Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role SHALL NOT be completed.		

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 as **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 populated.

Table 5: Obligations Legend

Where **ESSENTIAL** child data components are contained within **OPTIONAL** parent data components, the child data components only need to be populated when the parent is populated.

C.4 Information Model Specification Parts Legends

This section illustrates the format and parts used to define each section, data group and data element within NEHTA's information model specifications and identifies when each part is applicable.

Data Hierarchy

The top-level component contains a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one 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 and description of the 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.

The right-hand side of the data hierarchy may contain 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 components are obligatory to implement.

In an SCS a component may be prohibited, that is, it occurs in the referenced DCM but it **SHALL NOT** be included in documents created according to the SCS. This is represented by a multiplicity range of 0..0, the text of the entry is also in a strike through font and it has a grey background.

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.

Label	A suggested display name for the component. (Source NEHTA.)	
Metadata Type	The type of the component, e.g. section, data group or data element. (Source NEHTA.)	
Identifier	A NEHTA assigned internal identifier of the concept represented by the component. (Source NEHTA.)	
OID	An object identifier that uniquely identifies the concept represented by the data component. (Source NEHTA.)	
External Identifier	An identifier of the concept represented by the data component that is assigned by an organisation other than NEHTA. (Source NEHTA.)	

Table 6: Identification Section Legend

Definition Section Legend

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

Definition	The meaning, description and/or explanation of the data component. (Source NEHTA.)
	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. (Source NEHTA.)
	Implementers MAY prefer to use synonymous names to refer to the component in specific contexts.
Scope	Situations in which the data component may be used, i.e. the extent and capacity within which this data component may be used, including the circumstances under which the collection of specified data is required or recommended.
	For example, Medication Instruction (data group) has a scope which includes all prescribable therapeutic goods, both medicines and non-medicines.
	This attribute is not relevant to data elements or value domains. (Source NEHTA.)
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. (Source NEHTA.)
Assumptions	Suppositions and notions used in defining the data component. (Source NEHTA.)

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. (Source NEHTA.)		
Notes Source	The authoritative source for the Notes statement.		
Data Type	The data type of the data element, e.g. DateTime or Text. (Source NEHTA.)		
	The Data type is applicable only to data elements.		
	The valid data types are specified in the Data Types Legend.		
Value Domain	The name and identifier of the terminologies, code sets and classifications to define the data element value range, or a statement describing what value to use in the absence of a defined value domain for the related data element. 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. (Source NEHTA.)		
	The Value Domain is applicable only to CodedText and CodeableText data elements.		

Table 7: Definition Section Legend

Value Domain Section Legend

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

Source	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.	
Permissible Values	List of permissible values in the value domain.	

Table 8: Value Domain Section Legend

Usage Section Legend

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

Examples	One or more demonstrations of the data that is catered for by the data element. (Source NEHTA.)
	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, an indicative example is provided.
	Implementation guides MAY contain specific examples for how data elements SHALL be populated and how they relate to each other.

	The Value Domain is applicable only to CodedText and CodeableText data elements.
Conditions of Use	Prerequisites, provisos and/or restrictions for use of the component. (Source NEHTA.)
Conditions of Use Source	The authoritative source for the Conditions of Use statement.
Misuse	Incorrect, inappropriate and/or wrong uses of the component. (Source NEHTA.)
Default Value	A common denomination, or at least a usable denomination, from the Value Domain where available and/or applicable, typically assigned at the creation of an instance of the component. (Source NEHTA.)

Table 9: Usage Section Legend

Relationships Section Legend

The Relationships section specifies the cardinality and conditionality between parent and child data components. Note that if no components in either table have any conditions, then the condition column will be omitted for that table.

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

Data Type	Name	Occurrences	Condition
Icon illustrating the Metadata type or Data type	Child Component Name	The minimum and maximum number of instances of the component described on this page that SHALL occur.	The conditions that SHALL be met to include this child data element. Only applicable for elements with a Conditional obligation.

Table 10: Children Legend

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

Data Type	Name	Occurrences (child within parent)	Condition
Icon illustrating the Metadata or Data type	Parent Component Name	The minimum and maximum number of instances of the component described on this page that SHALL occur.	The conditions that SHALL be met to include the data element. Only applicable for elements with a Conditional obligation.

Table 11: Parent Legend

nehta Index

Number of this Dispense, 38

Index	PCEHR Dispense Record Instance Identifier, 14 Quantity Description, 35
_	Source Record Identifier, 17
A	Therapeutic Good Identification, 22
Additional Dispensed Item Description, 28	Data Group
Additional Therapeutic Good Detail, 26, 27, 28	AMOUNT OF MEDICATION, 34
Administrative Manufacturer Code, 40	CHEMICAL DESCRIPTION OF MEDICATION,
Administrative Manufacturer Code Values, 41	31
Administrative System Identifier, 42	DG-10296, 7, 9, 12, 15
AMOUNT OF MEDICATION, 34	DG-16210, 20
Australian PBS Manufacturer Code, 41	DG-16408, 31
_	DG-16423, 34
В	DG-16692, 45
Brand Substitution Occurred, 37	DISPENSER, 15
	DOCUMENT AUTHOR, 9
C	HEALTHCARE FACILITY, 12
CHEMICAL DESCRIPTION OF MEDICATION, 31	LINK, 45
Comment, 36	MEDICATION ACTION, 20
- · · · · · · · · · · · · · · · · · · ·	SUBJECT OF CARE, 7
D	DateTime Authored, 11
Data Element	DateTime of Dispense Event, 43
Additional Therapeutic Good Detail, 26, 27, 28	Dispense Item, 20
Administrative Manufacturer Code, 40	Dispense Item Identifier, 44
Administrative System Identifier, 42	DISPENSER, 15
Brand Substitution Occurred, 37	Dispensing Organisation, 12
DateTime Authored, 11	DOCUMENT AUTHOR, 9
DE-10169, 39	_
DE-10186, 32	F
DE-10194, 22	Form, 32
DE-16044, 36	Formula, 30
DE-16064, 37	
DE-16106, 38	Н
DE-16109, 29	HEALTHCARE FACILITY, 12
DE-16272, 30	
DE-16525, 35	I
DE-16591, 43	Identifier of Original Dispense Record, 17
DE-16637, 44	Ingredients and Form, 31
DE-16648, 40	g . • • • • • • • • • • • • • • • • • • •
DE-16698, 46	L
DE-16699, 49	Label Instruction, 29
DE-16700, 52	LINK, 45
DE-16769, 26, 27, 28	Link Nature, 46
DE-16782, 17	Link Nature Values, 47
DE-16785, 14	Link Role, 49
DE-16786, 42	Link Role Values, 50
DE-20105, 11	Link Target, 52
Form, 32	3 - 9 - 9
Formula, 30	M
Link Nature, 46	Maximum Number of Repeats, 39
Link Role, 49	MEDICATION ACTION, 20
Link Target, 52	Medication Action Comment, 36
Maximum Number of Repeats, 39	Medication Action DateTime, 43
Medication Action Comment, 36 Medication Action DateTime, 43	Medication Action Instance Identifier, 44
Medication Action Date Time, 43 Medication Action Instance Identifier, 44	Medication Action Instructions, 29
Medication Action Instance identifier, 44 Medication Action Instructions, 29	Medication Form Reference Set, 33
Modication Action matructions, 23	

Medicines Terminology, 24

N

Number of this Dispense, 38

P

PBS Manufacturer Code, 40 PCEHR DISPENSE RECORD, 4 PCEHR Dispense Record Instance Identifier, 14 Prescription Item Identifier, 52 Prescription Item Link, 45

Q

Quantity Description, 35 Quantity Dispensed, 34

S

Source Record Identifier, 17 Structured Document PCEHR DISPENSE RECORD, 4 SD-16765, 4 SUBJECT OF CARE, 7

T

Therapeutic Good Generic Name, 27 Therapeutic Good Identification, 22 Therapeutic Good Strength, 26

U

Unique Pharmacy Prescription Number, 42

V

Value Domain

VD-16699, 50

Administrative Manufacturer Code Values, 41 Link Nature Values, 47 Link Role Values, 50 Medication Form Reference Set, 33 Medicines Terminology, 24 VD-16115, 24 VD-16618, 33 VD-16647, 41 VD-16698, 47

76