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**Detailed Clinical Model Specification**

**Miscellaneous Detailed Clinical Models  
Version 1.1**

20 November 2011

Approved for External Release

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## Document Information

### Document owner

#### Document Owner

The National Clinical Terminology and Information Service

### Change history

Version	Date	Comments
1.0	23 Aug 2011	Initial public release. The document is created in accordance with archetypes from <a href="#">NEHTA Clinical Knowledge Manager</a> <sup>1</sup> .
1.1	20 Nov 2011	This version of the specification is published primarily to remove the Record Review Detailed Clinical Model and include the Requested Service Detailed Clinical Model.

### Related documents

Name	Version/Release Date
<a href="#">NEHTA Acronyms, Abbreviations &amp; Glossary of Terms</a>	Version 1.2, Issued 25 May 2005
<a href="#">Participation Data Specification</a>	Version 3.2, Issued 20 July 2011

### Included Detailed Clinical Models

This specification contains the following Detailed Clinical Models:

1. Clinical Synopsis, version 4.1
2. Exclusion Statement, version 1.0
3. Medical History Item, version 1.0
4. Recommendations (Instruction), version 2.0
5. Referral Detail, version 1.0
6. Requested Service (Action), version 4.0

<sup>1</sup> <http://dcm.nehta.org.au/ckm>

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# Acknowledgements

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- Standards Australia;
- Members of the Australian DataTypes Project;
- Australian Institute of Health and Welfare; and
- Ocean Informatics.

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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 National E-Health Transition Authority (NEHTA) 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 NEHTA and to realise the benefits derived from Level 4 (semantic) interoperability<sup>1</sup> in the Australian healthcare setting.

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

It is reasonably technical in nature and expects the audience to be familiar with the language of health data specification and have some familiarity with health information standards and specifications. Definitions and examples are provided to clarify relevant terminology usage and intent.

## 1.3 Background

There are several e-health priority areas to be addressed by NEHTA specifications. One area of priority is identification of the data to be communicated and its structure. NEHTA is 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 jurisdiction and clinician identified priorities;
- Specifically to suit the Australian model for a shared electronic health record (EHR);
- To define collections of related information, e.g. event summaries, data groups, data elements;
- To allow for expansion and extension as electronic systems mature;
- So they are human readable (with information enhanced by the hierarchical structure);
- Incorporating clinical examples of use to enhance utility and adoption; and
- To provide a set of clinical terminologies, specific to the requirements of the Australian healthcare system.

Whilst the Personally Controlled Electronic Health Record (PCEHR) System is referred to in these documents, the implementation of the PCEHR System is not dealt with here.

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<sup>1</sup>Level 4 interoperability is described in [\[WALJ2005a\]](#).

## 1.4 Terminology

NEHTA, through the National Clinical Terminology and Information Service (NCTIS), 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.

The Systematized Nomenclature of Medicine - Clinical Terms<sup>®</sup> (SNOMED CT<sup>® 2</sup>) has been recommended by NEHTA and endorsed by the Australian, state and territory governments as the preferred clinical terminology for Australia, and is now freely available for e-health software developers to use in their Australian products under International Health Terminology Standards Development Organisation (IHTSDO) licensing arrangements.

While NEHTA's achievement of a national standard clinical terminology is based on SNOMED CT as the foundational resource, local variations and customisation of terms relevant to the Australian healthcare sector will be incorporated. SNOMED CT Australian Release (SNOMED CT-AU) is the Australian extension to SNOMED CT; the integrated national release of SNOMED CT for implementation in Australian deployed clinical IT systems. NEHTA is also developing the Australian Medicines Terminology (AMT) as the designated clinical terminology for medicines available in Australia. The AMT will provide a consistent approach to the identification and naming of medicines, to support medicines management and activity across the Australian healthcare domain. The AMT will be integrated with SNOMED CT-AU in the near 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 and complement the SNOMED CT concept model. For further information regarding terminology and the development of reference sets please visit <http://www.nehta.gov.au/our-work/clinical-terminology> and direct your questions or feedback to [terminologies@nehta.gov.au](mailto:terminologies@nehta.gov.au).

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<sup>2</sup>SNOMED CT<sup>®</sup> is a registered trademark of the International Health Terminology Standards Development Organisation.

# 2 Clinical Synopsis Detailed Clinical Model

This chapter describes version 4.1 of the Clinical Synopsis Detailed Clinical Model.

## 2.1 Purpose

The clinical synopsis contains summary information or comments about the clinical management of the patient, and the prognosis of diagnoses/ problems identified during the healthcare encounter. It may also include health-related information pertinent to the patient, and a clinical interpretation of relevant investigations and observations performed on the patient (including pathology and diagnostic imaging).

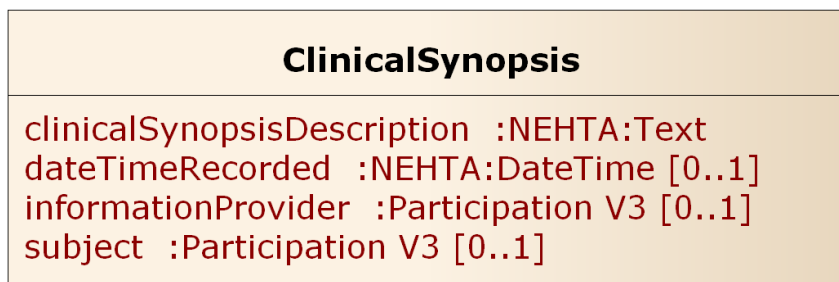
## 2.2 Use

Used by the healthcare provider to describe additional information such as interpretation and the subject of care's understanding of the health care event that are not captured by other structured or unstructured information components pertinent to that health care event.

## 2.3 Misuse

Used in place of other individual data items.

## 2.4 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.

## 2.5 CLINICAL SYNOPSIS

### Identification

<b>Label</b>	CLINICAL SYNOPSIS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-15513
<b>OID</b>	1.2.36.1.2001.1001.101.102.15513




### Definition

<b>Definition</b>	The clinical synopsis contains summary information or comments about the clinical management of the patient, and the prognosis of diagnoses/ problems identified during the healthcare encounter. It may also include health-related information pertinent to the patient, and a clinical interpretation of relevant investigations and observations performed on the patient (including pathology and diagnostic imaging).
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Clinical Comment Clinical Note Clinical Summary Clinical Management Summary
<b>Scope</b>	Narrative information is captured or entered here by a healthcare provider from the focus of a healthcare provider, carer, subject of care and/or others unrelated to the subject of care.
<b>Scope Source</b>	NEHTA



### Usage

<b>Conditions of Use</b>	Used by the healthcare provider to describe additional information such as interpretation and the subject of care's understanding of the health care event that are not captured by other structured or unstructured information components pertinent to that health care event.
<b>Conditions of Use Source</b>	NEHTA
<b>Misuse</b>	Used in place of other individual data items.

## Data Hierarchy

	CLINICAL SYNOPSIS	
	Clinical Synopsis Description	1..1
	DateTime Recorded	0..1

---

		INFORMATION PROVIDER	0..1
		SUBJECT	0..1

## 2.6 Clinical Synopsis Description

### Identification

<b>Label</b>	Clinical Synopsis Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15582
<b>OID</b>	1.2.36.1.2001.1001.101.103.15582

### Definition


<b>Definition</b>	The clinical synopsis, written in free text.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Clinical Summary Description
<b>Notes</b>	The description may include a summary of the issues/problems, management strategies, outcomes/progress and possible prognosis.
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>Admitted for elective bronchoscopy for assessment of left lingular and bibasal pneumonia. No focal endobronchial pathology identified. No evidence of malignancy and no pathogens isolated on bronchial brushings and washings.</li> <li>3/52 ago involved in a rear end motor vehicle accident, mid-velocity impact-complaining of neck pain, dizziness, nausea and difficulties concentrating. Disturbed sleep. No spinal cord signs.</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CLINICAL SYNOPSIS	1..1

## 2.7 DateTime Recorded

### Identification

<b>Label</b>	DateTime Recorded
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15511
<b>OID</b>	1.2.36.1.2001.1001.101.103.15511

### Definition


<b>Definition</b>	The date or date and time when the clinical synopsis recording was made.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>2004-03-31</li> <li>2004-03</li> <li>2004</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CLINICAL SYNOPSIS	0..1



## 2.8 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296
<b>External Identifier</b>	AS4846-2006

### Definition


<b>Definition</b>	Details pertinent to the identification of a healthcare provider individual who is reporting the clinical synopsis information.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have a fixed value of "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	CLINICAL SYNOPSIS	0..1

## 2.9 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual about who the clinical synopsis was written.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have a fixed value of "Subject".</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CLINICAL SYNOPSIS	0..1

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# 3 Recommendation Detailed Clinical Model

This chapter describes version 2.0 of the Recommendations (Instruction) Detailed Clinical Model.

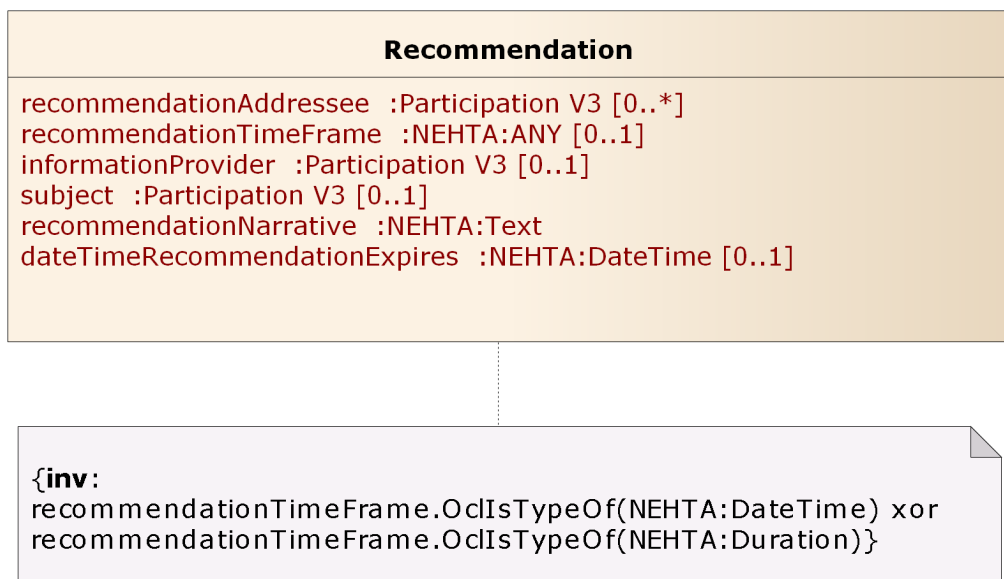
## 3.1 Purpose

To capture a recommendation, such as from a referee or specialist to a recipient health care provider regarding the management of the patient.

## 3.2 Use

Often used in a letter from a specialist to the referring health care provider.

## 3.3 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.

## 3.4 RECOMMENDATION









### Identification

<b>Label</b>	RECOMMENDATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-20116
<b>OID</b>	1.2.36.1.2001.1001.101.102.20116

### Definition

<b>Definition</b>	Recommendation by a clinician to a recipient health care provider regarding the management of the patient.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Data Hierarchy

 RECOMMENDATION		
	Addressee ( <a href="#">RECOMMENDATION ADDRESSEE</a> )	0..*
 	Time Frame ( <a href="#">Recommendation Time Frame</a> )	0..1
	<a href="#">INFORMATION PROVIDER</a>	0..1
	<a href="#">SUBJECT</a>	0..1
	<a href="#">Recommendation Narrative</a>	1..1
	<a href="#">DateTime Recommendation Expires</a>	0..1

## 3.5 RECOMMENDATION ADDRESSEE

### Identification

<b>Label</b>	Addressee
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition

<b>Definition</b>	The person who the recommendation is aimed at and/or who should follow up on the action.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is a person and the types of sources include:</p> <ul style="list-style-type: none"> <li>• the clinician; and</li> <li>• a healthcare provider</li> </ul>


### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Recommendation Addressee".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	0..*

## 3.6 Recommendation Time Frame

### Identification

<b>Label</b>	Time Frame
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16586
<b>OID</b>	1.2.36.1.2001.1001.101.103.16586

### Definition


<b>Definition</b>	The time or time period for which the recommendation applies.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime Duration

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	0..1

## 3.7 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	Details pertinent to the identification of the source of the information about the recommendation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Information Provider”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	0..1

## 3.8 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual upon whom the procedure is (to be) performed.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	0..1

## 3.9 Recommendation Narrative

### Identification

<b>Label</b>	Recommendation Narrative
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16587
<b>OID</b>	1.2.36.1.2001.1001.101.103.16587

### Definition


<b>Definition</b>	A textual narrative describing what the Recommendation instruction is about.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	1..1

## 3.10 DateTime Recommendation Expires

### Identification

<b>Label</b>	DateTime Recommendation Expires
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16588
<b>OID</b>	1.2.36.1.2001.1001.101.103.16588

### Definition


<b>Definition</b>	The date and, optionally, time after which the Recommendation instruction is no longer effective or in force.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	RECOMMENDATION	0..1



# 4 Exclusion Statement Detailed Clinical Model

This chapter describes version 1.0 of the Exclusion Statement Detailed Clinical Model.

## 4.1 Purpose

To positively record the absence or exclusion of any clinical findings or evaluations within the health record.

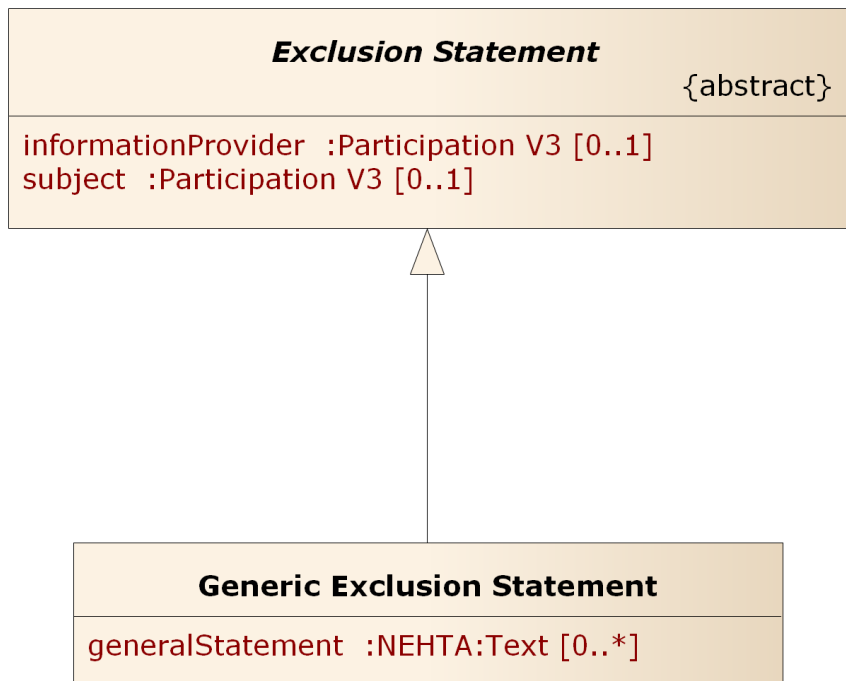
## 4.2 Use

Use to record the positive exclusion or absence of clinical findings or evaluations within the health record. This detailed clinical model (DCM) avoids the need to use terminology to express negation about any item within the health record. Specialisations of this DCM will capture specific and more detailed information about common exclusions, such as problems or diagnoses. This DCM has been deliberately kept simple and open in order to capture simple statements about anything that may be usefully recorded as absent or excluded within the health record.

## 4.3 Misuse

Do not use to record the exclusion or absence of adverse reactions, problems, diagnoses or interventions - use specific specialisations of this DCM.

## 4.4 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.

## 4.5 EXCLUSION STATEMENT





### Identification

<b>Label</b>	EXCLUSION STATEMENT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16134
<b>OID</b>	1.2.36.1.2001.1001.101.102.16134

### Definition

<b>Definition</b>	Statements that need to be positively asserted about the absence or exclusion of data values.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	

### Data Hierarchy

	EXCLUSION STATEMENT	
	General Statement	0..*
	INFORMATION PROVIDER	0..1
	SUBJECT	0..1

## 4.6 General Statement

### Identification

<b>Label</b>	General Statement
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16135
<b>OID</b>	1.2.36.1.2001.1001.101.103.16135

### Definition


<b>Definition</b>	A general statement about the absence or exclusion of data values.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Context</b>	Any information that is needed to be explicitly recorded as being absent or excluded within the record.
<b>Context Source</b>	openEHR Foundation
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	EXCLUSION STATEMENT	0..*

## 4.7 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	Details pertinent to the identification of the source of the information about the procedure.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	EXCLUSION STATEMENT	0..1

## 4.8 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual upon whom the procedure is (to be) performed.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	EXCLUSION STATEMENT	0..1



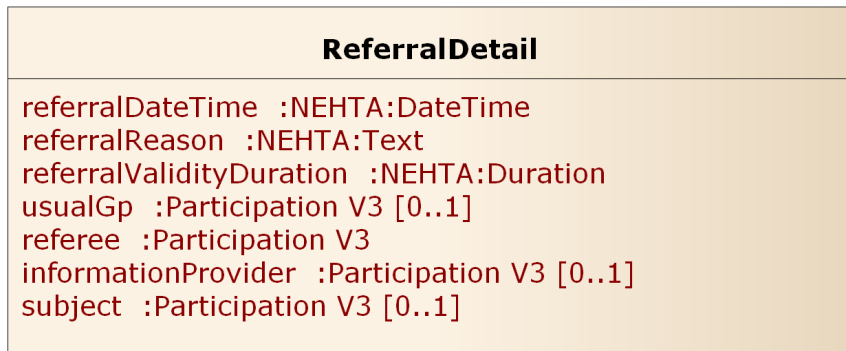
# 5 Referral Detail Detailed Clinical Model

This chapter describes version 1.0 of the Referral Detail Detailed Clinical Model.

## 5.1 Purpose

Specific information about the clinical referral.

## 5.2 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.

## 5.3 REFERRAL DETAIL









### Identification

<b>Label</b>	REFERRAL DETAIL
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16347
<b>OID</b>	1.2.36.1.2001.1001.101.102.16347

### Definition

<b>Definition</b>	Specific information about the clinical referral.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Data Hierarchy

 REFERRAL DETAIL		
	Referral DateTime	1..1
	Referral Reason	1..1
	Referral Validity Duration	1..1
	USUAL GP	0..1
	REFEREE	1..1
	INFORMATION PROVIDER	0..1
	SUBJECT	0..1

## 5.4 Referral DateTime

### Identification

<b>Label</b>	Referral DateTime
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16620
<b>OID</b>	1.2.36.1.2001.1001.101.103.16620

### Definition


<b>Definition</b>	The date/time when the Referral document was sent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REFERRAL DETAIL</a>	1..1

## 5.5 Referral Reason

### Identification

<b>Label</b>	Referral Reason
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-20118
<b>OID</b>	1.2.36.1.2001.1001.101.103.20118

### Definition


<b>Definition</b>	A narrative of the reasons for the referral, including the presenting problems, clinical presentation, etc.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Context</b>	It <b>SHALL</b> be used to communicate to the referee information about the reasons for the referral, which may include information about the problems/issues experienced by the subject of care as identified by the referrer.
<b>Context Source</b>	NEHTA
<b>Notes</b>	<p>This data element complements the structured information contained in the referral specification. It is used by the referrer to communicate the reasons for referral and any synopsis of clinical information about the patient that is relevant to the referral, such as chief complaints, presenting problems and key physical examination findings, etc.</p> <p>The content in this data item may vary from a single line in simple cases to many paragraphs for more complex circumstances.</p>
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1. To rule out ischaemic heart disease.</li> <li>2. To rule out organic brain lesions.</li> <li>3. Thank you for seeing this 14 year old schoolboy who fell whilst playing football at school yesterday. On examination he has a swollen painful R ankle and cannot weight bear on it today. I suspect he has a fracture of his Right Tibia and fibula.</li> <li>4. Thank you for seeing this 43 year old lady who has had 2 episodes of cholecystitis in the last month. She is currently well.</li> </ol> <p>Ultrasound of her abdomen done at the Public Hospital Emergency Department shows she has gall stones. She has Private Cover and wishes to see you to consider cholecystectomy at the Private Hospital.</p>
-----------------	--

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REFERRAL DETAIL	1..1

## 5.6 Referral Validity Duration

### Identification

<b>Label</b>	Referral Validity Duration
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16622
<b>OID</b>	1.2.36.1.2001.1001.101.103.16622

### Definition


<b>Definition</b>	The length of time the referral is valid from the date of the first patient/specialist encounter.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	It captures the valid duration of the referral which may be constrained by, e.g. Medicare funding policy.
<b>Data Type</b>	Duration

### Usage

Examples

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERRAL DETAIL	1..1

## 5.7 USUAL GP

### Identification

<b>Label</b>	USUAL GP
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition

<b>Definition</b>	A healthcare provider (person or organisation) nominated by the subject of care as being primarily responsible for their ongoing healthcare.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is a person and the types of sources include:</p> <ul style="list-style-type: none"> <li>• the clinician; and</li> <li>• a healthcare provider</li> </ul>


### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Usual GP".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REFERRAL DETAIL	0..1

## 5.8 REFEREE

### Identification

<b>Label</b>	REFEREE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The specialist to whom the subject of care is being referred.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Types of sources include: <ul style="list-style-type: none"> <li>• the clinician; and</li> <li>• a healthcare provider</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Referee".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REFERRAL DETAIL</a>	1..1

## 5.9 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	Details pertinent to the identification of the source of the information about the procedure.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REFERRAL DETAIL	0..1

## 5.10 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual upon whom the procedure is (to be) performed.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the subject of the procedure is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REFERRAL DETAIL	0..1

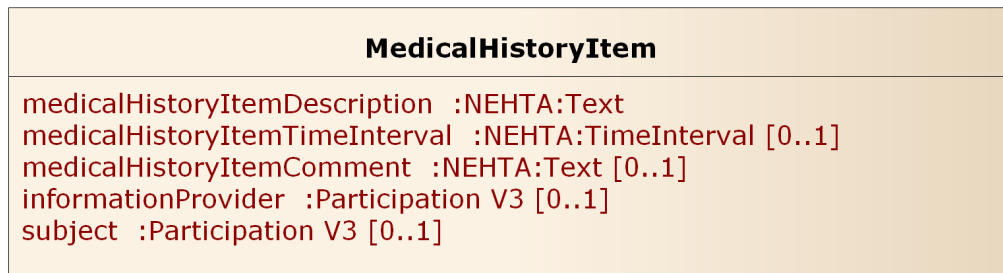
# 6 Medical History Item Detailed Clinical Model

This chapter describes version 1.0 of the Medical History Item Detailed Clinical Model.

## 6.1 Purpose

Allows recording of an entry in a medical history when it cannot be determined whether the entry is a Procedure or is a Problem/Diagnosis.

## 6.2 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.



## 6.3 MEDICAL HISTORY ITEM







### Identification

<b>Label</b>	MEDICAL HISTORY ITEM
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16627
<b>OID</b>	1.2.36.1.2001.1001.101.102.16627

### Definition

<b>Definition</b>	A medical history entry which cannot be categorised into one of the categories such as Procedure and Problem/Diagnosis.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Data Hierarchy

	MEDICAL HISTORY ITEM	
	Medical History Item Description	1..1
	Medical History Item Timeinterval	0..1
	Medical History Item Comment	0..1
	INFORMATION PROVIDER	0..1
	SUBJECT	0..1

## 6.4 Medical History Item Description

### Identification

<b>Label</b>	Medical History Item Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16628
<b>OID</b>	1.2.36.1.2001.1001.101.103.16628

### Definition


<b>Definition</b>	A description of the problem, diagnosis, intervention or other medical history item.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1. Hypercholesterolaemia.</li> <li>2. Left Total Knee Replacement.</li> <li>3. RLL pneumonia.</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	MEDICAL HISTORY ITEM	1..1

## 6.5 Medical History Item Timeinterval

### Identification

<b>Label</b>	Medical History Item Timeinterval
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16629
<b>OID</b>	1.2.36.1.2001.1001.101.103.16629

### Definition


<b>Definition</b>	The date range during which the item applied or occurred.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	TimeInterval

### Usage

Examples

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	MEDICAL HISTORY ITEM	0..1

## 6.6 Medical History Item Comment

### Identification

<b>Label</b>	Medical History Item Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16630
<b>OID</b>	1.2.36.1.2001.1001.101.103.16630

### Definition


<b>Definition</b>	Free text comments providing additional information relevant to the item in question.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	MEDICAL HISTORY ITEM	0..1

## 6.7 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	Details pertinent to the identification of the source of the information about the medical history item.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	MEDICAL HISTORY ITEM	0..1

## 6.8 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual about whom the medical history information is being recorded.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>This <b>SHALL NOT</b> be used unless the subject of the procedure is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Subject”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	MEDICAL HISTORY ITEM	0..1



# 7 Requested Service Detailed Clinical Model

This chapter describes version 4.0 of the Requested Service (Action) Detailed Clinical Model.

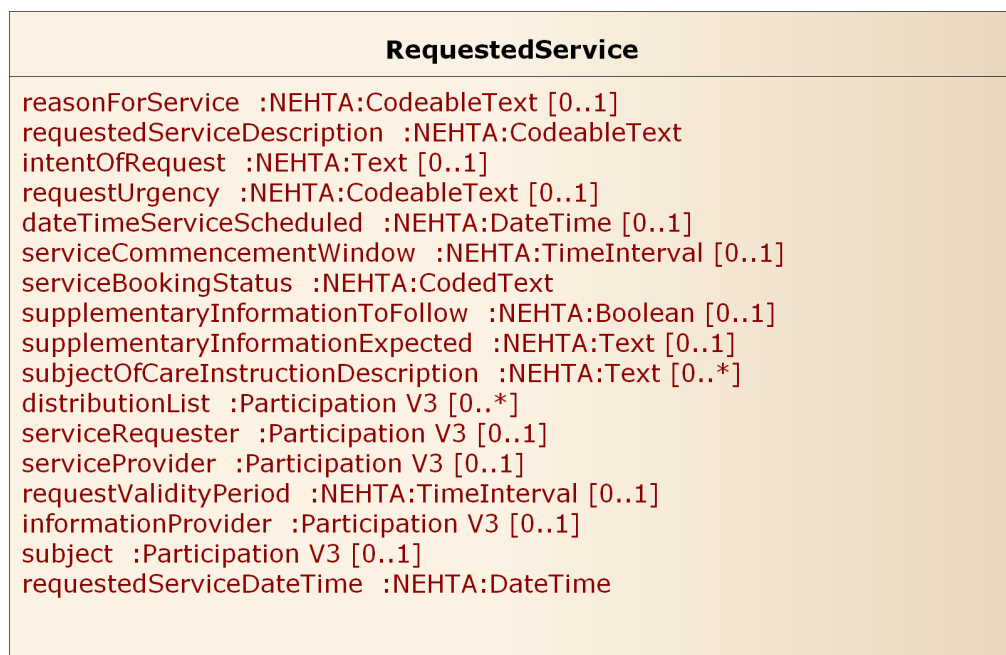
## 7.1 Purpose

To describe the types of service requested for, or provided to, the subject of care.

## 7.2 Misuse

Using to specify medication prescriptions.

## 7.3 UML Class Diagram



The figure represents the data hierarchy of the Detailed Clinical Model as 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.

## 7.4 REQUESTED SERVICE

### Identification

<b>Label</b>	REQUESTED SERVICE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16636
<b>OID</b>	1.2.36.1.2001.1001.101.102.16636










### Definition










<b>Definition</b>	Describes the types of service requested for, or provided to, the subject of care.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Arranged Service
<b>Notes</b>	<p>This item does not include details of specific medication prescriptions or diagnostic test orders made by current providers (at the time of discharge).</p> <p>If the service provision has not been confirmed, the service date or provider may not be recorded.</p>

### Usage

<b>Misuse</b>	Use to specify medication prescriptions or diagnostic test requests.
---------------	--

## Data Hierarchy

 REQUESTED SERVICE		
	Reason for Service	0..1
	Requested Service Description	1..1
	Intent of Request	0..1
	Request Urgency	0..1
	DateTime Service Scheduled	0..1
	Service Commencement Window	0..1
	Service Booking Status	1..1
	Supplementary Information to Follow	0..1

	Supplementary Information Expected	0..1
	Subject of Care Instruction Description	0..*
	DISTRIBUTION LIST	0..*
	SERVICE REQUESTER	0..1
	SERVICE PROVIDER	0..1
	Request Validity Period	0..1
	INFORMATION PROVIDER	0..1
	SUBJECT	0..1
	Requested Service DateTime	1..1

## 7.5 Reason for Service

### Identification

<b>Label</b>	Reason for Service
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-20172
<b>OID</b>	1.2.36.1.2001.1001.101.103.20172

### Definition

<b>Definition</b>	Describes a clinical reason for a service being requested or received.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Reason for Requesting Service Service Reason
<b>Context</b>	In the context of a discharge summary, this data component captures information about reasons for requesting services (by the healthcare provider) to be provided to the subject of care after discharge from the healthcare facility.
<b>Context Source</b>	NEHTA
<b>Notes</b>	Captures information about reasons for requesting admission if the subject of care was referred to the organisation, or for requesting services (by the healthcare provider) to be provided to the subject of care after discharge from the healthcare facility.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Examples</b>	
-----------------	--

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.6 Requested Service Description

### Identification

<b>Label</b>	Requested Service Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-20117
<b>OID</b>	1.2.36.1.2001.1001.101.103.20117

### Definition

<b>Definition</b>	Describes the service arranged for, or provided to, the subject of care.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Service Requested Arranged Service Description
<b>Context</b>	For use in a healthcare setting.  Used to identify diagnostic, clinical procedures or clinical management requested by the healthcare provider to be undertaken on or provided to the subject of care.
<b>Context Source</b>	NEHTA
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>  In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.  When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1. Elective orthopaedic surgery for TKR</li> <li>2. Dialysis</li> <li>3. Adjustment of heart failure/hypertensive medications</li> <li>4. Adjust INR to therapeutic range, etc.</li> </ol>
-----------------	---

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	1..1



## 7.7 Intent of Request

### Identification

<b>Label</b>	Intent of Request
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16126
<b>OID</b>	1.2.36.1.2001.1001.101.103.16126

### Definition


<b>Definition</b>	The purpose for which the referrer made the request.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

#### Examples

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.8 Request Urgency

### Identification

<b>Label</b>	Request Urgency
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16128
<b>OID</b>	1.2.36.1.2001.1001.101.103.16128

### Definition


<b>Definition</b>	An assessment of the criticality of a rapid response.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1. Emergency</li> <li>2. Urgent</li> <li>3. Routine</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 7.9 DateTime Service Scheduled

### Identification

<b>Label</b>	DateTime Service Scheduled
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16054
<b>OID</b>	1.2.36.1.2001.1001.101.103.16054

### Definition


<b>Definition</b>	The datetime at which the arranged service is scheduled to be provided to the subject of care.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.10 Service Commencement Window

### Identification

<b>Label</b>	Service Commencement Window
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-20173
<b>OID</b>	1.2.36.1.2001.1001.101.103.20173

### Definition


<b>Definition</b>	The datetime or date range at or during which the arranged service is scheduled to be provided to the subject of care.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Service Commences
<b>Notes</b>	Specifies the range of time within which the requesting provider is expecting the arranged service to be provided to the subject of care.
<b>Data Type</b>	TimeInterval

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.11 Service Booking Status

### Identification

<b>Label</b>	Service Booking Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16056
<b>OID</b>	1.2.36.1.2001.1001.101.103.16056

### Definition


<b>Definition</b>	An indication of the booking status of the arranged service.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Service Booking Status Values</a>

### Usage

Examples

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REQUESTED SERVICE</a>	1..1

## 7.12 Service Booking Status Values

### Identification

<b>Label</b>	Service Booking Status Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16055
<b>OID</b>	1.2.36.1.2001.1001.101.104.16055

### Definition


<b>Definition</b>	The set of values that indicate the booking status of the arranged service.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	HL7 v3 CDA: Act.moodCode.
<b>Permissible Values</b>	<p>APT Appointment</p> <p>ARQ Appointment Request</p> <p>EVN Event</p> <p>INT Intent</p> <p>PRMS Promise</p> <p>PRP Proposal</p> <p>RQO Request</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Service Booking Status</a>	1..1

## 7.13 Supplementary Information to Follow

### Identification

<b>Label</b>	Supplementary Information to Follow
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16129
<b>OID</b>	1.2.36.1.2001.1001.101.103.16129

### Definition


<b>Definition</b>	A flag indicating whether or not there will be any further information sent in support of this request.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	True indicates that additional information has been identified and will be forwarded when available e.g. incomplete pathology test results.
<b>Data Type</b>	Boolean

### Usage

Examples

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.14 Supplementary Information Expected

### Identification

<b>Label</b>	Supplementary Information Expected
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16130
<b>OID</b>	1.2.36.1.2001.1001.101.103.16130

### Definition


<b>Definition</b>	Details of the nature of supplementary information that is to follow.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	1. X-ray image of left ankle.
-----------------	-------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1



## 7.15 Subject of Care Instruction Description

### Identification

<b>Label</b>	Subject of Care Instruction Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-10146
<b>OID</b>	1.2.36.1.2001.1001.101.103.10146

### Definition


<b>Definition</b>	Describes the instructions/advice and information that have been given to the subject of care from a healthcare provider in relation to the requested service.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Patient Instructions
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	1. Bring post-op instruction materials and any old private x-rays.
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..*

## 7.16 DISTRIBUTION LIST

### Identification

<b>Label</b>	DISTRIBUTION LIST
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	A list of participants who have been sent copies of the document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Recipient”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or ORGANISATION.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REQUESTED SERVICE</a>	0..*

## 7.17 SERVICE REQUESTER

### Identification

<b>Label</b>	SERVICE REQUESTER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The requester (individual or organisation) that has arranged the provision of the service.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Referred by Provider Referred by

### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Service Requester”.</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or ORGANISATION.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REQUESTED SERVICE</a>	0..1

## 7.18 SERVICE PROVIDER

### Identification

<b>Label</b>	SERVICE PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition

<b>Definition</b>	The provider (individual or organisation) that has been arranged to provide the service.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Referred to Provider Referred to


### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">B: Specification Guide for Use</a>.</p> <p>Additional obligation and occurrence constraints where the service provider is an individual (PERSON OR ORGANISATION OR DEVICE is instantiated as a PERSON):</p> <ul style="list-style-type: none"> <li>Entity Identifier is <b>ESSENTIAL</b>.</li> <li>ADDRESS is <b>ESSENTIAL</b>.</li> <li>Relationship to Subject of Care is <b>PROHIBITED</b>.</li> <li>DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> <li>ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints where the service provider is a person (PERSON OR ORGANISATION OR DEVICE is instantiated as a PERSON):</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Service Provider".</li> <li>Role <b>SHALL</b> have a value chosen from <a href="#">1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006]</a>.</li> <li>The value of Entity Identifier <b>SHALL</b> be an Australian HPI-I.</li> </ul>
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<b>Conditions of Use Source</b>	<ul style="list-style-type: none"> <li>• AUSTRALIAN OR INTERNATIONAL ADDRESS <b>SHALL</b> be instantiated as an AUSTRALIAN ADDRESS.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul> <p>Additional obligation and occurrence constraints when the service provider is an organisation (PERSON OR ORGANISATION OR DEVICE is instantiated as a ORGANISATION):</p> <ul style="list-style-type: none"> <li>• Entity Identifier is <b>ESSENTIAL</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other additional constraints when the service provider is an organisation (PERSON OR ORGANISATION OR DEVICE is instantiated as a ORGANISATION):</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Service Provider”.</li> <li>• Role <b>SHALL</b> have a value representing the type of Facility e.g. Hospital, Clinic.</li> <li>• The value of Entity Identifier <b>SHALL</b> be an Australian HPI-O.</li> <li>• AUSTRALIAN OR INTERNATIONAL ADDRESS <b>SHALL</b> be instantiated as an AUSTRALIAN ADDRESS.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a ORGANISATION.</li> </ul>
	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.19 Request Validity Period

### Identification

<b>Label</b>	Request Validity Period
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16132
<b>OID</b>	1.2.36.1.2001.1001.101.103.16132

### Definition


<b>Definition</b>	The period during which the request is valid.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This may be open-ended.
<b>Data Type</b>	TimeInterval

### Usage

<b>Examples</b>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.20 INFORMATION PROVIDER

### Identification

<b>Label</b>	INFORMATION PROVIDER
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	Details pertinent to the identification of the source of the information about the procedure.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not necessarily have to be a person and, in particular, not a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software</li> </ul>

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1



## 7.21 SUBJECT

### Identification

<b>Label</b>	SUBJECT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition


<b>Definition</b>	The individual upon whom the procedure is (to be) performed.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, subject of the enclosing Structured Document is assumed.
<b>Scope Source</b>	NEHTA

### Usage

<b>Conditions of Use</b>	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	0..1

## 7.22 Requested Service DateTime

### Identification

<b>Label</b>	Requested Service DateTime
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16635
<b>OID</b>	1.2.36.1.2001.1001.101.103.16635

### Definition


<b>Definition</b>	The point in time at which the Requested Service action is completed.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	For a request to supply a service, this is the date and, optionally, time of the request.  For supply of a service, this is the date and, optionally, time of completion of supply.
<b>Data Type</b>	DateTime

### Usage

#### Examples

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	REQUESTED SERVICE	1..1

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# Appendix A. Known Issues

This appendix lists known issues with this specification at the time of publishing. NEHTA is working on solutions to these issues, and we encourage comments to further assist with the development of these solutions.

Reference	Description
Data Hierarchy	Only the parts of these 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.
Exclusion Statement	The Exclusion Statement DCMs are the subject of ongoing development and review and may well change in the future.
Requested Service - Distribution List	This approach to distribution lists is deprecated; distribution lists are managed in the CDA IG. This data component will be removed in the next release of the <i>Requested Service</i> DCM.

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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 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.

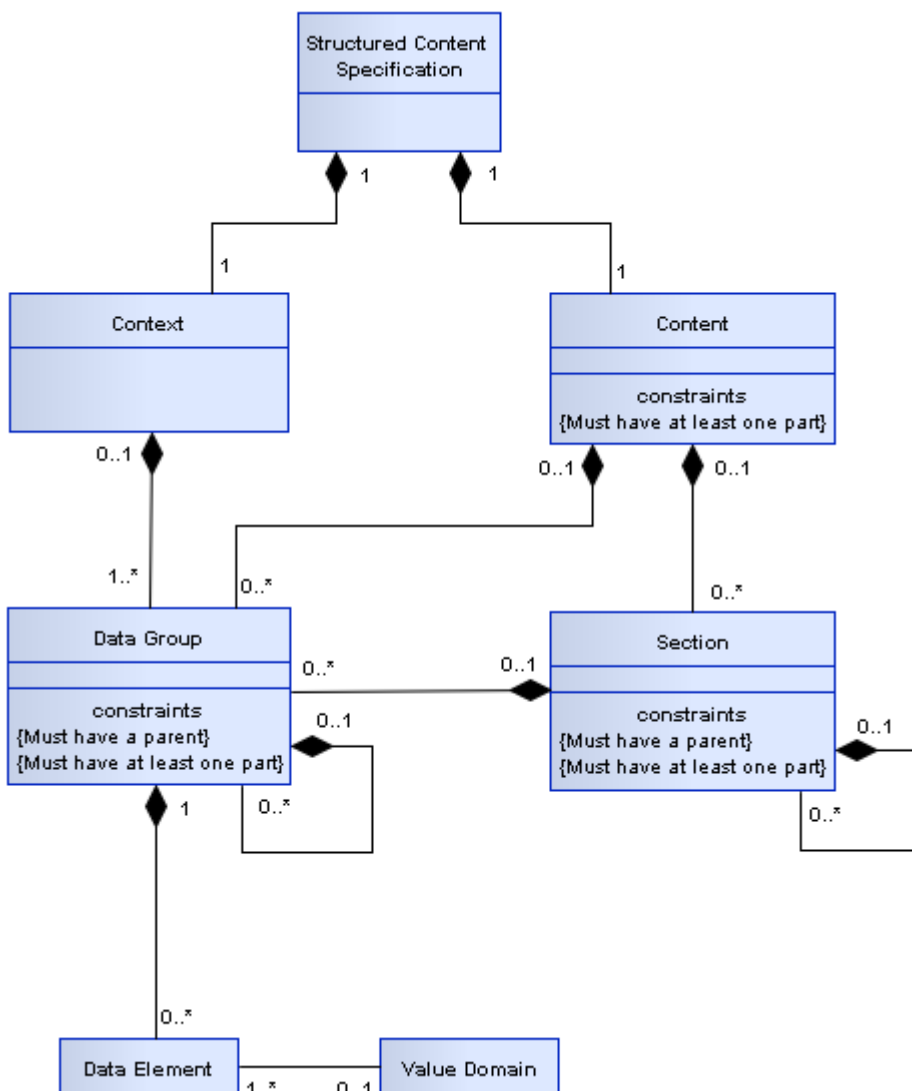
Each DCM specifies all of the data components required for any use of a clinical concept, for instance an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks which are trimmed to size for use in the construction of SCSs.

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.

## B.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

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 or 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 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, *Date Time 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 or upper bound (or both) 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.

**Table 1: Value Domain Examples**

Data Element	Data Type	Example of Value Domain										
Sex	CodedText	[SA2006a] and [SA2006b] derive their values from METeOR 270263 which includes values such as: <table border="1" data-bbox="614 1279 1343 1509"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>3</td> <td>Intersex or Indeterminate</td> </tr> <tr> <td>9</td> <td>Not Stated/Inadequately Described</td> </tr> </tbody> </table>	Value	Meaning	1	Male	2	Female	3	Intersex or Indeterminate	9	Not Stated/Inadequately Described
Value	Meaning											
1	Male											
2	Female											
3	Intersex or Indeterminate											
9	Not Stated/Inadequately Described											
Diagnosis	CodeableText	A SNOMED CT-AU reference set which references concepts such as '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).										






## B.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**

Icon	Metadata Types
	Structured Document
	Section
	Data Group
	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 [\[NEHT2010c\]](#).

**Table 3: Data Types Legend**

Icon	Data type	Explanation
	Boolean (ISO 21090: BL)	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 1, or -1) and false as <i>zero</i> .
		<p><b>Usage/Examples</b></p> <ul style="list-style-type: none"> <li>An actual value entered by a user might be “yes” or could be chosen by a mouse click on an icon such as <input checked="" type="checkbox"/>.</li> </ul>



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. 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 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 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 or time (or both). Has the ability to indicate a level of precision, but not whether the date or 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.
		<b>Usage/Examples</b>
		<ul style="list-style-type: none"> <li>• 3 hours</li> <li>• 6 months</li> <li>• 1 year</li> </ul>
	Any (ISO 21090: ANY)	Represents a data element where the data type to be used is conditional on 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 <b>SHOULD NOT</b> 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).
		<b>Usage/Examples</b>
		<ul style="list-style-type: none"> <li>• JPEG images</li> <li>• HTML documents</li> <li>• <a href="#">[RFC1521]</a> MIME types</li> </ul>
	Integer (ISO 21090: INT)	The mathematical data type comprising the exact integral values (according to <a href="#">[NEHT2010c]</a> ).
		<b>Usage/Examples</b>
		<ul style="list-style-type: none"> <li>• 1</li> <li>• -50</li> <li>• 125</li> </ul>
	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.
		<b>Usage/Examples</b>
		<ul style="list-style-type: none"> <li>• 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 – <i>http://www.google.com</i>.</li> <li>• 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 <i>C:\Documents and Settings\GuestUser\MyDocuments\letter.doc</i></li> </ul>

	Quantity (ISO 21090: PQ)	Used for recording many real world measurements and observations. Includes the magnitude value and the units.
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 100 centimetres</li> <li>• 25.5 grams</li> </ul>		
	QuantityRatio (ISO 21090: RTO)	The relative magnitudes of two <i>Quantity</i> values (usually expressed as a quotient).
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 25 mg/500 ml</li> <li>• 200 mmol per litre</li> </ul>		
	QuantityRange (ISO 21090: IVL)	Two <i>Quantity</i> 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.
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• -20 to 100 Celsius</li> <li>• 30-50 mg</li> <li>• &gt;10 kg</li> </ul>		
	Real (ISO 21090: REAL)	A computational approximation to the standard mathematical concept of real numbers. These are often called floating-point numbers.
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 1.075</li> <li>• -325.1</li> <li>• 3.14157</li> </ul>		
	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.
<b>Usage/Examples</b>		
“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.
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 01/01/2008 – 31/12/2008</li> <li>• 1:30 a.m. – 6:00 p.m., duration/width = 16.5 hours</li> </ul>		



**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 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.
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.

## 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.

**Table 4: Keywords Legend**

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

<b>MAY</b>	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 <b>SHALL</b> 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 <b>SHALL</b> be prepared to interoperate with another implementation that does not include the option (except of course, for the feature the option provides).
<b>SHALL NOT</b>	This phrase means that the statement is an absolute prohibition of the specification.
<b>SHOULD NOT</b>	This phrase, or the phrase ‘not recommended’ means that there <b>MAY</b> exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications <b>SHOULD</b> be understood and the case carefully weighed before implementing any behaviour described with this label.

## 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.

**Table 5: Obligations Legend**

Keyword	Interpretation
<b>ESSENTIAL</b>	Indicates that the data component is considered a mandatory component of information and <b>SHALL</b> be populated.  <b>Usage/Examples:</b>  The Participant component for a Subject of Care <b>SHALL</b> include an Entity Identifier data component in order to hold the IHI.
<b>OPTIONAL</b>	Indicates that the data component is not considered a mandatory component of information and <b>MAY</b> be populated.  <b>Usage/Examples:</b>  This is only needed when a DCM incorrectly asserts that a data component is <b>ESSENTIAL</b> . It will be used with a note stating that the DCM needs revision.
<b>PROHIBITED</b>	Indicates that the data component is considered a forbidden component of information and <b>SHALL NOT</b> be populated.  <b>Usage/Examples:</b>  Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role <b>SHALL NOT</b> be completed.



---

<b>CONDITIONAL</b>	<p>Indicates that a data component is considered <b>ESSENTIAL</b> only on satisfaction of a given condition. Individual data components specify the obligation of the data component when the condition is not met.</p> <p>When a condition is met, the data component is considered to be <b>ESSENTIAL</b> and <b>SHALL</b> be populated.</p> <p>When a condition is not met, the data component may be considered as <b>PROHIBITED</b>, or the data component may be considered <b>OPTIONAL</b>.</p> <p><b>Usage/Examples:</b></p> <p>Within a Pathology Result Report, the <i>Specimen Detail</i> data group is <b>ESSENTIAL</b> if the requested test is to be performed on a specimen, otherwise it <b>SHALL NOT</b> be populated.</p>
--------------------	---

---

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.

## B.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 **SHALL** be implemented.

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.

**Table 6: Identification Section Legend**

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

## Definition Section Legend

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

**Table 7: Definition Section Legend**

<b>Definition</b>	The meaning, description or explanation of the data component. (Source NEHTA.)
<b>Definition Source</b>	The authoritative source for the Definition statement.
<b>Synonymous Names</b>	A list of any names the data component <b>MAY</b> also be known as. (Source NEHTA.)
<b>Scope</b>	Implementers <b>MAY</b> prefer to use synonymous names to refer to the component in specific contexts.
<b>Scope Source</b>	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.
<b>Context</b>	For example, Medication Instruction (data group) has a scope which includes all prescribable therapeutic goods, both medicines and non-medicines.
<b>Context</b>	This attribute is not relevant to data elements or value domains. (Source NEHTA.)
<b>Context</b>	The authoritative source for the Scope statement.
<b>Context</b>	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.

<b>Assumptions</b>	For example, Street Name has a context of Address. (Source NEHTA.) Suppositions and notions used in defining the data component. (Source NEHTA.)
<b>Assumptions Source</b>	The authoritative source for the Assumptions statement.
<b>Notes</b>	Informative text that further describes the data component, or assists in the understanding of how the data component can be used. (Source NEHTA.)
<b>Notes Source</b>	The authoritative source for the Notes statement.
<b>Data Type</b>	The data type of the data element, e.g. DateTime or Text. (Source NEHTA.)  The data type is applicable only to data elements.
<b>Value Domain</b>	The valid data types are specified in the <a href="#">Data Types Legend</a> .  The name and identifier of the terminologies, code sets and classifications to define the data element value range, or a statement describing what values 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 <b>SHALL</b> be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.  When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated. (Source NEHTA.)  The Value Domain is applicable only to CodedText and CodeableText data elements.

## Value Domain Section Legend

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

### Table 8: Value Domain Section Legend

<b>Source</b>	The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.
<b>Version Number</b>	Version number of the value domain source.
<b>Permissible Values</b>	List of permissible values in the value domain.

## Usage Section Legend

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

### Table 9: Usage Section Legend

<b>Examples</b>	One or more demonstrations of the data that is catered for by the data element. (Source NEHTA.)
-----------------	---

	<p>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.</p> <p>Implementation guides <b>MAY</b> contain specific examples for how data elements <b>SHALL</b> be populated and how they relate to each other.</p> <p>The Value Domain is applicable only to CodedText and CodeableText data elements.</p>
<b>Conditions of Use</b>	Prerequisites, provisos or restrictions for use of the component. (Source NEHTA.)
<b>Conditions of Use Source</b>	The authoritative source for the Conditions of Use statement.
<b>Misuse</b>	Incorrect, inappropriate or wrong uses of the component. (Source NEHTA.)
<b>Default Value</b>	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 component. (Source NEHTA.)

## 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 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.

**Table 11: Parent Legend**

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

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

**Table 10: Children Legend**

Data Type	Name	Occurrences	Condition
The 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 <b>SHALL</b> occur.	The conditions that <b>SHALL</b> be met to include this child data element. Only applicable for elements with a conditional obligation.

# Appendix C. Change History

## C.1 Changes Introduced in this Version

### General

---

The *Record Review* DCM has been removed from this specification.

---

The *Requested Service* DCM has been added to this specification.

---

A sentence introducing the version of each DCM has been added to each Detailed Clinical Model chapter.

---

The UML Class Diagrams and explanative text have been moved (and those chapters deleted) into their respective DCM chapters, e.g. Chapter 2 Clinical Synopsis Detailed Clinical Model.

---

The structure of the tables within the relationships sections of each data component has been modified to remove the condition column and change the title of the “Occurrences” column in the Parents table to “Occurrences (child within parent)”.

---

All instances of “have a fixed value of” have been replaced with “have an implementation-specific value equivalent to”.

---

### Preliminary Pages

---

Added the section “Included Detailed Clinical Models” to provide identification of the version of each DCM included in this specification.

---

Corrected “Australian Institute of Health & Welfare” to “Australian Institute of Health and Welfare”.

---

### Section 1 Introduction

---

This chapter has been revised through editorial review, a number of editorial and typographical errors have been corrected.

---

Added footnote to 1.1 Purpose and Scope to provide a reference defining the concept “Level 4 (semantic) interoperability”.

---

### Chapter 2 Clinical Synopsis Detailed Clinical Model

---

Corrected “provide” to “provider” in 2.2 Use.

---

The Clinical Synopsis UML Class Diagram has been moved to this chapter; its presentation and explanative text has been revised.

---

### Chapter 3 Recommendation Detailed Clinical Model

---

Corrected “managment” to “management” in 3.1 Purpose.

---

The Recommendations UML Class Diagram has been moved to this chapter; its presentation and explanative text has been revised.

---

Corrected “managment” to “management” in the definition of [RECOMMENDATION](#).

---

---

## Chapter 4 Exclusion Statement Detailed Clinical Model

---

The Exclusion Statement UML Class Diagram has been moved to this chapter; its presentation and explanative text has been revised.

---

## Chapter 5 Referral Detail Detailed Clinical Model

---

The Referral Detail UML Class Diagram has been moved to this chapter; its presentation and explanative text has been revised.

---

[Referral Reason](#) has been amended:

- a. The definition has been slightly reworded
  - b. The context has been revised
  - c. Two notes have been added
  - d. Two examples have been added
- 

The definition of [USUAL GP](#) has been amended primarily to replace specific terms, e.g. “medical practitioner” with “healthcare provider”.

---

## Chapter 6 Medical History Item Detailed Clinical Model

---

The Medical History Item UML Class Diagram has been moved to this chapter; its presentation and explanative text has been revised.

---

## Chapter 7 Requested Service Detailed Clinical Model

---

This is a new chapter added to this specification to publish the Requested Service DCM.

---

## Appendix A Known Issues

---

Added an entry for Requested Service - Distribution List.

Corrected wording of the data hierarchy entry.

---

## Appendix B Guide for Use

---

This appendix has been revised through editorial review, a number of editorial and typographical errors have been corrected.

---

In 'Value Domain' in B.2 “To Be Advised” replaced with “Individual Pathology Test Result Name”.

---

Added 'Obligation Legend' in B.3.

---

Reworked 'Data Hierarchy' in B.4 to explain 'Core Requirement'.

---

Reworked 'Relationships Section Legend' in B.4 to include further explanative text, and improved tables.

---

## Appendix C Change History

---

This is a new appendix included to provide detailed information of the changes between the previous version of this specification and the current version of this specification.

---

### Reference List

---

This chapter has been moved to after the appendices.

---

Added an entry for the Australian and New Zealand Standard Classification of Occupations.

---

Added an entry for reference cited in footnote added to section 1.1.

---

Added an entry for NEHTA Interoperability Framework.

---

Corrected the titles of AS 4846 and AS 5017.

---

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