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**Detailed Clinical Model Specification**

**Physical Examination Findings**

**Version 1.0**

4 September 2013

Approved for External Use

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## Document Information

### Document owner

**Document Owner**

The National Clinical Terminology and Information Service

### Change history

Version	Date	Comments
1.0	4 Sep 2013	Initial public release.

### 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. Physical Examination Findings, version 1.0

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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 Physical Examination Findings Detailed Clinical Model

This chapter describes version 1.0 of the Physical Examination Findings Detailed Clinical Model.

## 2.1 Purpose

For recording a narrative description and clinical interpretation of the findings observed during the overall physical examination of a subject of care, and to provide a framework in which to nest situation specific data groups, each of which will enable specific aspects of the physical examination to be recorded in detail.

## 2.2 Use

Use to record a narrative description of the findings observed during the overall physical examination of a subject of care.

Use to incorporate the narrative descriptions of clinical findings within existing or legacy clinical systems into a structured format, using the *Findings Description* data element.

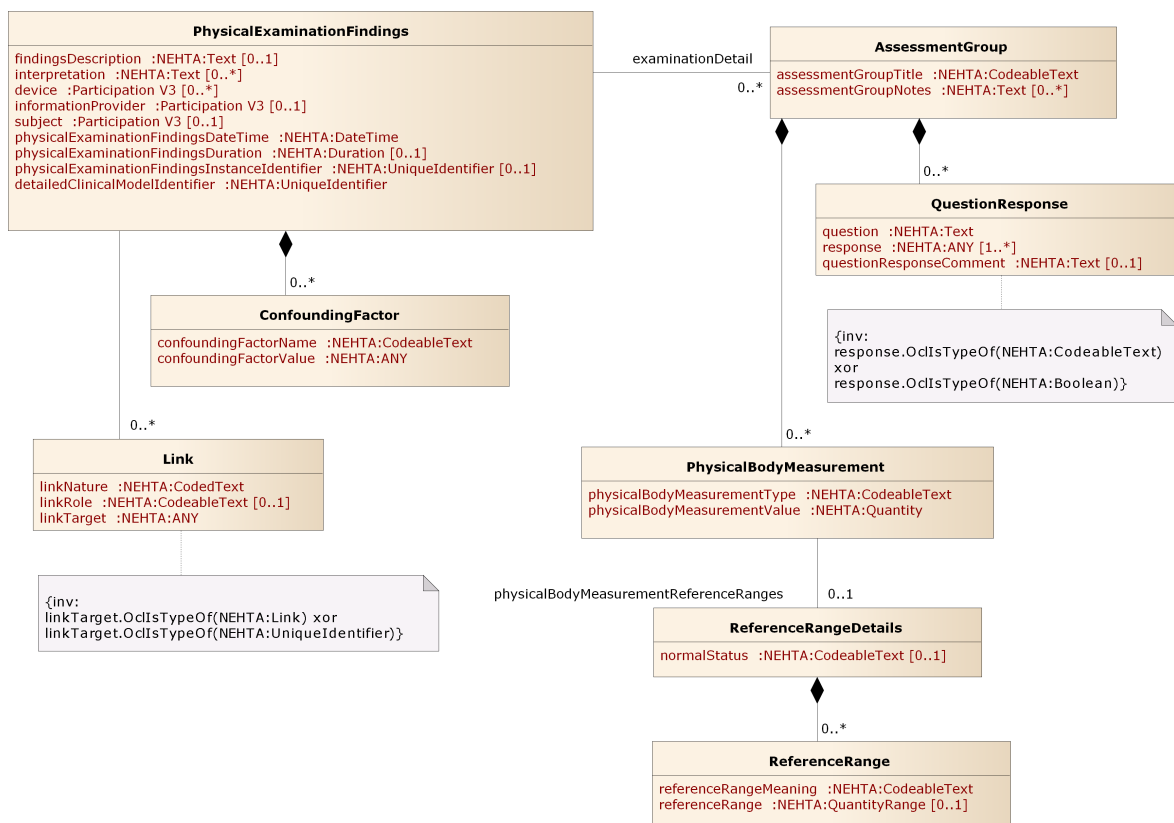
The use of this DCM is not limited to clinical examination findings performed by a clinician and can be used for recording observations of physical changes by a non-clinician or carer, especially within the *Findings Description* data element.

Use as a container to provide a common, queryable DCM in which situation-specific data groups can be nested. Examples of situation-specific data groups include those that detail the inspection, palpation, auscultation, percussion and movement of body systems or anatomical structures.

## 2.3 Misuse

Not to be used for recording history-taking observations - use specific DCMs and data groups. Not to be used to record stand-alone clinical observations - use specific DCMs and data groups, for example *Body Weight*.

## 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 PHYSICAL EXAMINATION FINDINGS













### Identification






















<b>Label</b>	PHYSICAL EXAMINATION FINDINGS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16911
<b>OID</b>	1.2.36.1.2001.1001.101.102.16911

### Definition

<b>Definition</b>	Findings observed during the physical examination of a subject.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Examination Physical Exam Findings

### Data Hierarchy

		PHYSICAL EXAMINATION FINDINGS		
		Description ( <a href="#">Findings Description</a> )		0..1
		Examination Detail ( <a href="#">ASSESSMENT GROUP</a> )		0..*
			Assessment Group Title	1..1
		PHYSICAL BODY MEASUREMENT		0..*
			Physical Body Measurement Type	1..1
			Physical Body Measurement Value	1..1
		Physical Body Measurement Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )		0..1
			Normal Status	0..1
		REFERENCE RANGE		0..*
			Reference Range Meaning	1..1
			Reference Range	0..1

		QUESTION RESPONSE	0..*
		Question	1..1
		Response	1..*
		Comment (Question Response Comment)	0..1
		Notes (Assessment Group Notes)	0..*
	Interpretation	0..*	
	CONFOUNDING FACTOR	0..*	
	Confounding Factor Name	1..1	
	Confounding Factor Value	1..1	
	DEVICE	0..*	
	INFORMATION PROVIDER	0..1	
	SUBJECT	0..1	
	Physical Examination Findings DateTime	1..1	
	Physical Examination Findings Duration	0..1	
	Physical Examination Findings Instance Identifier	0..1	
	LINK	0..*	
	Link Nature	1..1	
	Link Role	0..1	
 	Link Target	1..1	
	Detailed Clinical Model Identifier	1..1	

## 2.6 Findings Description

### Identification

<b>Label</b>	Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16941
<b>OID</b>	1.2.36.1.2001.1001.101.103.16941

### Definition


<b>Definition</b>	Narrative description of the overall findings observed during the physical examination of a subject.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>May be used to record a narrative summary of the complete clinical examination or key aspects of clinical examination findings, which will be supported by structured data.</p> <p>Details of specific structured findings can be included using CLUSTER archetypes in the <i>Examination Detail</i> slot.</p> <p>This data element may be used to capture legacy data that is not available in a structured format.</p>
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	
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## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..1

## 2.7 ASSESSMENT GROUP

### Identification


<b>Label</b>	Examination Detail
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16894
<b>OID</b>	1.2.36.1.2001.1001.101.102.16894

### Definition





<b>Definition</b>	Structured details of the physical examination.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships

#### Parents

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

#### Children

Data Type	Name	Occurrences
	<a href="#">Assessment Group Title</a>	1..1
	<a href="#">PHYSICAL BODY MEASUREMENT</a>	0..*
	<a href="#">QUESTION RESPONSE</a>	0..*
	Notes ( <a href="#">Assessment Group Notes</a> )	0..*

## 2.8 Assessment Group Title

### Identification

<b>Label</b>	Assessment Group Title
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16896
<b>OID</b>	1.2.36.1.2001.1001.101.103.16896

### Definition


<b>Definition</b>	The name or title of the assessment group.
<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>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>	
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## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Examination Detail ( <a href="#">ASSESSMENT GROUP</a> )	1..1

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

## 2.9 PHYSICAL BODY MEASUREMENT

### Identification


<b>Label</b>	PHYSICAL BODY MEASUREMENT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16899
<b>OID</b>	1.2.36.1.2001.1001.101.102.16899

### Definition




<b>Definition</b>	A measurement of a physical attribute of a person.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Examination Detail ( <a href="#">ASSESSMENT GROUP</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Physical Body Measurement Type</a>	1..1
	<a href="#">Physical Body Measurement Value</a>	1..1
	Physical Body Measurement Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1



## 2.10 Physical Body Measurement Type

### Identification

<b>Label</b>	Physical Body Measurement Type
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16898
<b>OID</b>	1.2.36.1.2001.1001.101.103.16898

### Definition


<b>Definition</b>	The name of the type of physical measurement recorded.
<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>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>	1. Height 2. Weight
-----------------	------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL BODY MEASUREMENT	1..1

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

## 2.11 Physical Body Measurement Value

### Identification

<b>Label</b>	Physical Body Measurement Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16899
<b>OID</b>	1.2.36.1.2001.1001.101.103.16899

### Definition


<b>Definition</b>	The measurement of a physical attribute of a person.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	
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## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL BODY MEASUREMENT	1..1

## 2.12 REFERENCE RANGE DETAILS

### Identification

<b>Label</b>	Physical Body Measurement Reference Ranges
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16325
<b>OID</b>	1.2.36.1.2001.1001.101.102.16325

### Definition


<b>Definition</b>	One or more reference ranges applicable to <i>Physical Body Measurement Value</i> .
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>Each such range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Usage



<b>Conditions of Use</b>	If the document exchange scenario is the <i>NSW Healthcare Provider Health Check (NPHC)</i> , then this data group is <b>ESSENTIAL</b> .
<b>Conditions of Use Source</b>	NEHTA

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL BODY MEASUREMENT	0..1

#### Children

Data Type	Name	Occurrences
	Normal Status	0..1
	REFERENCE RANGE	0..*

## 2.13 Normal Status

### Identification

<b>Label</b>	Normal Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11028
<b>OID</b>	1.2.36.1.2001.1001.101.103.11028

### Definition

<b>Definition</b>	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information (including but not limited to the reference range).
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.
<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. Below normal</li> <li>2. Above normal</li> <li>3. Critically low</li> <li>4. Critically high</li> </ol>
-----------------	---

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

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Physical Body Measurement Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 2.14 REFERENCE RANGE

### Identification

<b>Label</b>	REFERENCE RANGE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-11024
<b>OID</b>	1.2.36.1.2001.1001.101.102.11024

### Definition


<b>Definition</b>	A named range to be associated with any quantity datum.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage


<b>Conditions of Use</b>	<p>If this data group occurs only once, its contents <b>SHALL</b> span the observed value.</p> <p>If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.</p> <p>If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b>.</p> <p>All reference ranges <b>SHALL</b> come from the one set of reference ranges.</p>
<b>Conditions of Use Source</b>	NEHTA


## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Physical Body Measurement Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1

Data Type	Name	Occurrences
	Reference Range	0..1

## 2.15 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<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>4</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. Normal</li> <li>2. Critical</li> <li>3. Therapeutic</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>



## 2.16 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	1. 15 - 58 g/L
	2. < 15 mmol/L
	3. 2.5 - 3.5 kg
	4. 23 - 45 cm

## Relationships

### Parents

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

## 2.17 QUESTION RESPONSE

### Identification

<b>Label</b>	QUESTION RESPONSE
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16906
<b>OID</b>	1.2.36.1.2001.1001.101.102.16906

### Definition


<b>Definition</b>	A question that forms part of the assessment or questionnaire, along with its response.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Usage




<b>Conditions of Use</b>	Each question <b>SHALL</b> have a response. The response <b>MAY</b> be a null flavour.
<b>Conditions of Use Source</b>	NEHTA

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Examination Detail ( <a href="#">ASSESSMENT GROUP</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Question</a>	1..1
	<a href="#">Response</a>	1..*
	Comment ( <a href="#">Question Response Comment</a> )	0..1

## 2.18 Question

### Identification

<b>Label</b>	Question
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16907
<b>OID</b>	1.2.36.1.2001.1001.101.103.16907

### Definition


<b>Definition</b>	The question asked, written as free text.
<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)
	QUESTION RESPONSE	1..1

## 2.19 Response

### Identification

<b>Label</b>	Response
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16908
<b>OID</b>	1.2.36.1.2001.1001.101.103.16908

### Definition


<b>Definition</b>	The response to the question asked.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText Boolean
<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>5</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>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	QUESTION RESPONSE	1..*

<sup>5</sup> <http://www.hl7.org/oid/index.cfm>

## 2.20 Question Response Comment

### Identification

<b>Label</b>	Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16044
<b>OID</b>	1.2.36.1.2001.1001.101.103.16044

### Definition


<b>Definition</b>	A comment relevant to the question or response (or both).
<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)
	QUESTION RESPONSE	0..1

## 2.21 Assessment Group Notes

### Identification

<b>Label</b>	Notes
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16909
<b>OID</b>	1.2.36.1.2001.1001.101.103.16909

### Definition


<b>Definition</b>	Additional notes relevant to the assessment group.
<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)
	Examination Detail ( <a href="#">ASSESSMENT GROUP</a> )	0..*

## 2.22 Interpretation

### Identification

<b>Label</b>	Interpretation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16943
<b>OID</b>	1.2.36.1.2001.1001.101.103.16943

### Definition


<b>Definition</b>	A single word, phrase or brief description that represents the clinical meaning and significance of the physical examination findings.
<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)
	PHYSICAL EXAMINATION FINDINGS	0..*

## 2.23 CONFOUNDING FACTOR

### Identification


<b>Label</b>	CONFOUNDING FACTOR
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16051
<b>OID</b>	1.2.36.1.2001.1001.101.102.16051

### Definition



<b>Definition</b>	An issue or factor of note that may have impacted on the measurement made during the examination.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships

#### Parents

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

#### Children

Data Type	Name	Occurrences
	<a href="#">Confounding Factor Name</a>	1..1
	<a href="#">Confounding Factor Value</a>	1..1



## 2.24 Confounding Factor Name

### Identification

<b>Label</b>	Confounding Factor Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16950
<b>OID</b>	1.2.36.1.2001.1001.101.103.16950

### Definition


<b>Definition</b>	The name of a confounding factor of an observation.
<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>6</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>	
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CONFOUNDING FACTOR	1..1

<sup>6</sup> <http://www.hl7.org/oid/index.cfm>

## 2.25 Confounding Factor Value

### Identification

<b>Label</b>	Confounding Factor Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16955
<b>OID</b>	1.2.36.1.2001.1001.101.103.16955

### Definition


<b>Definition</b>	The value of a confounding factor of an observation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Typically values will be codes, measurements or text. Other types of value are possible.
<b>Data Type</b>	

### Usage

<b>Examples</b>	1. Subject of care agitated and restless
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	CONFOUNDING FACTOR	1..1

## 2.26 DEVICE

### Identification

<b>Label</b>	DEVICE
<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 about any device used during the physical examination.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	This is limited to devices used as part of the physical examination (e.g. measurement tool) and that are not the information provider.
<b>Scope Source</b>	NEHTA
<b>Notes</b>	Typically this will be a machine used by the information provider.

### 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="#">Appendix B, Specification Guide for Use</a>.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Device".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a DEVICE.</li> </ul>
<b>Conditions of Use Source</b>	NEHTA
<b>Misuse</b>	Where the value of <i>DEVICE</i> is equivalent to the value of <i>INFORMATION PROVIDER</i> .

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..*

## 2.27 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.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This does not have to be a person and, in particular, does not have to be 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 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="#">Appendix B, Specification Guide for Use</a>.</p> <p><b>Constraints applicable when the information provider is a person NOT acting as a healthcare provider.</b></p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL 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:</p>
--------------------------	--

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Authorised Representative” or “Nominated Representative”. However, other similar values **MAY** be appropriate.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a person acting as a healthcare provider.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- Relationship to Subject of Care is **PROHIBITED**.
- DEMOGRAPHIC DATA is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have a value chosen from [1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 \[ABS2006\]](#). However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available **MAY** be used.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as PERSON.

**Constraints applicable when the information provider is a device.**

Additional obligation and occurrence constraints:

- LOCATION OF PARTICIPATION is **PROHIBITED**.
- ADDRESS is **PROHIBITED**.
- ELECTRONIC COMMUNICATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **PROHIBITED**.
- Qualifications is **PROHIBITED**.

Other additional constraints:

- Participation Type **SHALL** have an implementation-specific value equivalent to “Information Provider”.
- Role **SHOULD** have an implementation-specific value equivalent to “Not Applicable”.
- PERSON OR ORGANISATION OR DEVICE **SHALL** be instantiated as a DEVICE.
- ENTITLEMENT is **PROHIBITED**.


**Conditions of  
Use Source**

- Qualifications is **PROHIBITED**.

NEHTA

## Relationships

**Parents**

<b>Data Type</b>	<b>Name</b>	<b>Occurrences</b> (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..1

## 2.28 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 person who was examined during the physical examination.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Generally only used when the recorder needs to make it explicit. Otherwise, the 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 <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="#">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)
	<a href="#">PHYSICAL EXAMINATION FINDINGS</a>	0..1



## 2.29 Physical Examination Findings DateTime

### Identification

<b>Label</b>	Physical Examination Findings DateTime
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16914
<b>OID</b>	1.2.36.1.2001.1001.101.103.16914

### Definition


<b>Definition</b>	The date and, optionally, time of the <i>Physical Examination Findings</i> observation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Conditions of Use</b>	If the <i>Physical Examination Findings Duration</i> is non-zero, it is the time at which the <i>Physical Examination Findings</i> observation was completed, i.e. the date (and time) of the trailing edge of the <i>Physical Examination Findings Duration</i> .
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">PHYSICAL EXAMINATION FINDINGS</a>	1..1

## 2.30 Physical Examination Findings Duration

### Identification

<b>Label</b>	Physical Examination Findings Duration
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16915
<b>OID</b>	1.2.36.1.2001.1001.101.103.16915

### Definition


<b>Definition</b>	The duration over which the <i>Physical Examination Findings</i> observation was taken.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Duration

### Usage

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

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..1

## 2.31 Physical Examination Findings Instance Identifier

### Identification

<b>Label</b>	Physical Examination Findings Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16916
<b>OID</b>	1.2.36.1.2001.1001.101.103.16916

### Definition


<b>Definition</b>	A globally unique identifier for each instance of a <i>Physical Examination Findings</i> observation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

Examples

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..1

## 2.32 LINK

### Identification


<b>Label</b>	LINK
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition




<b>Definition</b>	A link to an instance of another Detailed Clinical Model (DCM) or a document containing an instance of another DCM.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Links may be to structures inside the enclosing document or inside other documents.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	0..*

### Children

Data Type	Name	Occurrences
	Link Nature	1..1
	Link Role	0..1
	Link Target	1..1

## 2.33 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes which together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1. is related to</li> <li>2. is confirmed by or authorised by</li> <li>3. is related to the same problem or health issue</li> </ol>
-----------------	--

## Relationships

### Parents

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

## 2.34 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698

### Definition

<b>Definition</b>	The set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA


### Value Domain

<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the

	<p>LINK-E0, is a related documentation</p>	<p>two might be defining the same care plan, act or episode, or both might be related milestones.</p> <p>The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.</p>
--	--	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Nature	1..1

## 2.35 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition

<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes which together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source. This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>


### Usage

<b>Examples</b>	<ol style="list-style-type: none"><li>1. unspecified link</li><li>2. suggests</li><li>3. endorses</li><li>4. evidence for</li><li>5. outcome</li><li>6. is documented by</li><li>7. excerpts</li></ol>
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# Relationships

## Parents

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

## 2.36 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699

### Definition

<b>Definition</b>	The set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Context</b>	These values are used within the context of values from <i>Link Role</i> . They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	NEHTA

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


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

## Usage

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

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Role	1..1

## 2.37 Link Target

### Identification

<b>Label</b>	Link Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The logical “to” object in the link relation, as per the linguistic sense of the <i>Link Nature</i> data element (and, if present, the <i>Link Role</i> data element).
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	
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## Relationships

#### Parents

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

## 2.38 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	The NEHTA OID for the <i>Physical Examination Findings</i> concept represented by this DCM.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16911
<b>Default Value Conditions of Use</b>	The value of this item is fixed and <b>SHALL</b> be the default value.

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	PHYSICAL EXAMINATION FINDINGS	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 SCSs have been mapped to HL7 CDA. Mapping the remaining parts to CDA may reveal inconsistencies in the data hierarchies, requiring normative change.
Approximate value indicator for measurements	No method is provided to indicate that a measurement, such as circumference, has an approximate value although the data type <i>Quantity</i> does allow an uncertainty to be included.
Reference Range Details data components	There is no method provided to group reference ranges, nor is one provided to identify the source of a reference range. For example, if both WHO (World Health Organization) and RACGP (Royal Australian College of General Practitioners) percentile ranges are included, there is no good way to separate the entries for the different ranges.
Undefined Value Domains	<p>The following data elements lack a defined value domain: <i>Assessment Group Title</i>, <i>Physical Body Measurement Type</i>, <i>Normal Status</i>, <i>Reference Range Meaning</i>, <i>Response</i>, and <i>Confounding Factor Name</i>.</p> <p>NEHTA is in the process of developing national code sets for these items. In the meantime, you are free to use your own code set(s), providing any code set used <b>SHALL</b> be registered, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available. Note that when national standard code set(s) do become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>

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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.

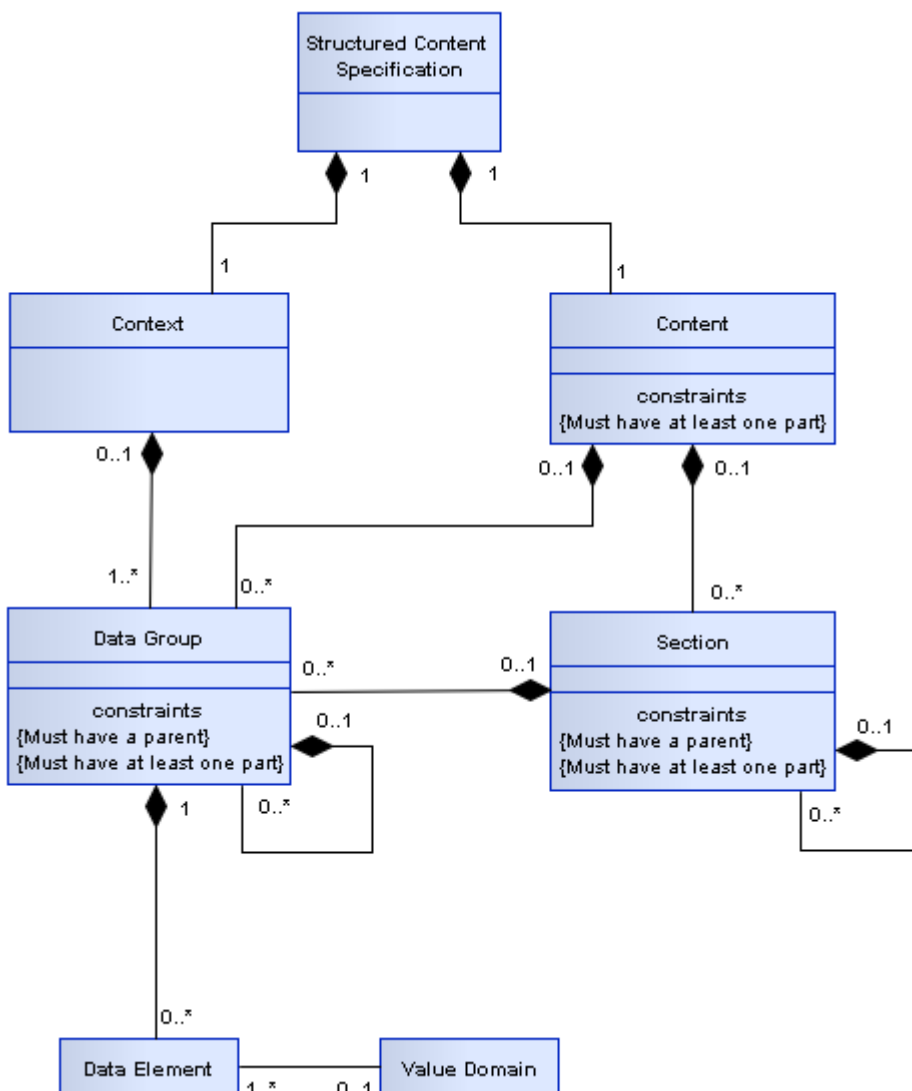
Each DCM specifies all of the data components required for any use of a clinical concept, for instance an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks which are trimmed to size for use in the construction of SCSs.

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="616 1281 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. This is sometimes referred to as free text.
<b>Usage/Examples</b>		
<p>“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.”</p>		
	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**

<b>Keyword</b>	<b>Interpretation</b>
<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.

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<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>
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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 10: 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 11: 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.

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