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ii v 1.2

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Document Information

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The National Clinical Terminology and Information Service

Related documents

Name	Version/Release Date
Event Summary Structured Content Specification	Version 1.1, Issued To be published
Information Requirements - Event Summary	Version 1.1, Issued 31 October 2011
Participation Data Specification	Version 3.2, Issued 20 July 2011

iv v 1.2

Table of Contents

1	Introduction	1
٠.	1.1. Document Purpose and Scope	
	1.2. Event Summary Definition	
	1.3. HL7 Clinical Document Architecture	
	1.4. Intended Audience	
	1.5. Document Map	
	1.6. Acronyms	
	1.7. Keywords	
	1.8. Conformance	
	1.9. Known Issues	
2.	Guide for Use	
	2.1. Clinical Document Architecture Release 2	
	2.2. Mapping Interpretation	9
	2.3. CDA Extensions	19
	2.4. W3C XML Schema	20
	2.5. Schematron	21
	2.6. Implementation Strategies	22
3.	Event Summary Data Hierarchy	
	Administrative Observations	
	CDA Header	
٥.	5.1. ClinicalDocument	
	5.1.1. LegalAuthenticator	
	5.1.2. Custodian	
c		
О.	Context Data Specification - CDA Mapping	
	6.1. Event Summary	
	6.1.1. DOCUMENT AUTHOR	
_	6.1.2. SUBJECT OF CARE	62
7.	Content Data Specification - CDA Mapping	79
	7.1. Event Summary	
	7.1.1. EVENT DETAILS	
	7.1.1.1 Clinical Synopsis	
	7.1.2. NEWLY IDENTIFIED ADVERSE REACTIONS	
	7.1.2.1. ADVERSE REACTION	
	7.1.3. MEDICATIONS	. 101
	7.1.3.1. MEDICATION	. 106
	7.1.4. DIAGNOSES/INTERVENTIONS	. 116
	7.1.4.1. PROBLEM/DIAGNOSIS	. 120
	7.1.4.2. PROCEDURE	. 126
	7.1.4.3. MEDICAL HISTORY ITEM	
	7.1.5. IMMUNISATIONS	
	7.1.5.1. IMMUNISATION	
	7.1.6. DIAGNOSTIC INVESTIGATIONS	
	7.1.6.1. PATHOLOGY TEST RESULT	
	7.1.6.1.1 TEST SPECIMEN DETAIL	
	7.1.6.1.2. PATHOLOGY TEST RESULT GROUP	
	7.1.6.1.2.1 Result Group Specimen Detail	
	7.1.6.2. IMAGING EXAMINATION RESULT	
	7.1.6.2.1. IMAGING EXAMINATION RESULT GROUP	
	7.1.6.2.2. EXAMINATION REQUEST DETAILS	
	7.1.6.3. REQUESTED SERVICE	
	7.1.6.3.1. Service Provider	
	7.1.6.3.1.1. Service Provider - Person	
	7.1.6.3.1.2. Service Provider - Organisation	
8.	Common Patterns	. 243
	8.1. code	. 243
	8.2. id	. 245
	8.3. time	. 246
	8.4. Entity Identifier	. 248

8.5. Person Name	250
8.6. Address	252
8.7. Electronic Communication Detail	257
8.8. Employment	259
9. Australian CDA Extensions	263
9.1. ClinicalDocument.completionCode	263
9.2. EntityIdentifier	264
9.3. Entitlement	
9.4. Multiple Birth	267
9.5. Administrative Gender Code	268
9.6. Birth Time	
9.7. Deceased Time	
9.8. Employment	
9.9. Qualifications	
9.10. Container	
10. Vocabularies/Code Sets	
10.1. HL7 v3: TelecommunicationAddressUse	
10.2. AS 5017-2006 Health Care Client Identifier Sex	
10.3. AS 5017-2006: Health Care Client Name Usage	
10.4. AS 4846-2006: Health Care Provider Organisation Name Usage	
10.5. AS 5017-2006: Health Care Client Source of Death Notification	
10.6. AS 5017-2006: Health Care Client Identifier Address Purpose	
10.7. AS 5017-2006: Health Care Client Identifier Geographic Area	
10.8. AS 5017-2006: Health Care Client Electronic Communication Medium	
10.9. AS 5017-2006: Health Care Client Electronic Communication Usage Code	
10.10. AS 5017-2006 Australian State/Territory Identifier - Postal	
10.11. AS 5017-2006 Health Care Client Identifier Date Accuracy Indicator	
10.12. NCTIS: Admin Codes - Recommendation or Change Values	
10.13. NCTIS: Admin Codes - Document Status	
10.14. NCTIS: Admin Codes - Global Statement Values	
10.15. NCTIS: Admin Codes - Entitlement Type	
10.16. HL7 V3: ObservationInterpretationNormality	
10.17. HL7 v3 CDA: Act.moodCode	
10.19. METeOR 291036: Indigenous Status	
10.21. NCTIS: Change Type Values	
A. CDA Narratives	
B. Log of Changes	
Deference Liet	

List of Examples

2.1. Mapping Interpretation	16
4.1. Administrative Observations XML Fragment	34
5.1. ClinicalDocument Body XML Fragment	
5.2. LegalAuthenticator XML Fragment	
5.3. Custodian Body XML Fragment	
6.1. Event Summary Context XML Fragment	54
6.2. Document Author XML Fragment	
6.3. Subject of Care XML Fragment	75
7.1. Event Summary Body XML Fragment	82
7.2. Event Details XML Fragment	86
7.3. Clinical Synopsis XML Fragment	90
7.4. Adverse Reactions XML Fragment	94
7.5. Adverse Substance Reaction XML Fragment	99
7.6. Medications XML Fragment	104
7.7. Medication XML Fragment	
7.8. Diagnoses/Interventions XML Fragment	119
7.9. Problem/Diagnosis XML Fragment	124
7.10. Procedure XML Fragment	129
7.11. Other Medical History Item XML Fragment	134
7.12. Immunisations XML Fragment	139
7.13. Immunisation XML Fragment	143
7.14. Diagnostic Investigations XML Fragment	148
7.15. Pathology Test Result XML Fragment	157
7.16. Test Specimen Detail XML Fragment	169
7.17. Pathology Test Result Group XML Fragment	178
7.18. Result Specimen Details XML Fragment	190
7.19. Imaging Examination Result XML Fragment	201
7.20. Imaging Examination Result Group XML Fragment	210
7.21. Imaging Examination Result XML Fragment	221
7.22. Requested Service XML Fragment	228
7.23. Service Provider - Person XML Fragment	
7.24. Service Provider - Organisation XML Fragment	240
8.1. code	
8.2. id	
8.3. Simple timestamp	246
8.4. Low time	
8.5. Interval timestamp 1	
8.6. Interval timestamp 2	
8.7. Width time	
8.8. Entity Identifier	
8.9. Person Name	
8.10. Address	
8.11. Electronic Communication Detail	
8.12. Employment	
10.1. All values	
10.2. One value	275

viii v 1.2

nehta Introduction

1 Introduction

1.1 Document Purpose and Scope

The purpose of this document is to provide a guide to implementing the 'logical' model detailed by NEHTA's Event Summary Structured Content Specification (ES SCS) as an HL7 Clinical Document Architecture Release 2 (CDA) XML document. This guide is based on Version 1.1 of the ES SCS [NEHT2011bq]. The primary aim of the guide is to take implementers step by step through mapping each data component of the ES SCS to a corresponding CDA attribute or element.

The guide contains descriptions of both constraints on the CDA and, where necessary, custom extensions to the CDA, for the purposes of fulfilling the requirements for Australian implementations of an Event Summary. The resulting CDA document would be used for the electronic exchange of Event Summaries between healthcare providers.

In addition, this guide presents conformance requirements against which implementers can attest the conformance of their systems.

This release is intended to inform and seek feedback from prospective software system designers and their clinical consultants. The content of this release is not suitable for implementation in live clinical systems. The National Clinical Terminology and Information Service (NCTIS) values your questions, comments and suggestions about this document. Please direct your questions or feedback to <<u>clinicalinformation@nehta.gov.au</u>>.

1.2 Event Summary Definition

A Event Summary is defined in the ES SCS [NEHT2011bq] as:

A record, reported by a clinician, of one significant health care event involving the subject of care.

1.3 HL7 Clinical Document Architecture

CDA is a document markup standard that specifies the structure and semantics of clinical documents for the purpose of exchange and unambiguous interpretation both at human and system levels.

CDA has been chosen as the format for electronic clinical documents, as it is consistent with NEHTA's commitment to a service and document oriented approach to electronic information exchange, contributing to future electronic health records.

Some of the advantages of CDA are:

- · It is machine computable and human readable.
- It provides a standardised display of clinical information without loss of clinical meaning.
- It provides assurance of clinical quality and safety more effectively than message-based interfaces by storing and displaying the clinical data as entered by the clinician.
- · It provides better support than HL7 V2 messages for:
 - · more complex information structures, such as pathology synoptic reporting; and
 - terminologies such as SNOMED CT-AU®.¹
- It supports legal attestation by the clinician (requiring that a document has been signed manually or electronically by the responsible individual).

¹SNOMED CT-AU® is a registered trademark of the International Health Terminology Standards Development Organisation.

- It is able to be processed by unsophisticated applications (displayed in web browsers, for instance).
- · It provides a number of levels of compliance to assist with technical implementation and migration.
- It aligns Australia with e-health initiatives in other countries (such as Canada, UK, USA, Brazil, Germany and Finland).

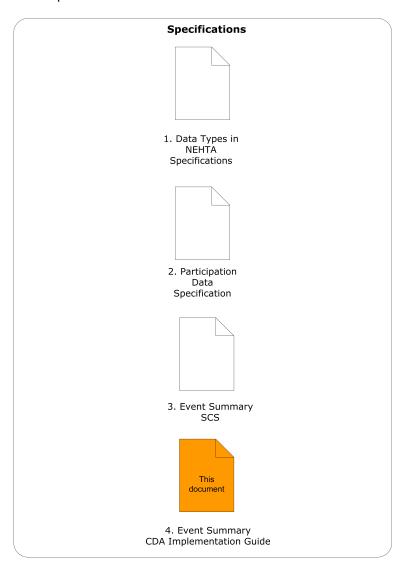
1.4 Intended Audience

This document is intended to be read and understood by software architects and developers, implementers of Clinical Information Systems in various healthcare settings, IT-aware clinicians who wish to evaluate the clinical suitability of NEHTA-endorsed standards and researchers who wish to explore certain aspects of NEHTA-endorsed standards.

This document and related artefacts are very technical in nature and the audience is expected to be familiar with the language of health data specifications and to have some familiarity with health information standards and specifications such as CDA, and "Standards Australia AS 4700.6" [SA2007a]. Definitions and examples are provided to clarify relevant terminology usage and intent.

1.5 Document Map

This Implementation Guide is not intended to be used in isolation. Companion documents are listed below:



1. Data Types in NEHTA Specifications [NEHT2010c] - a detailed description of the data types used within the Structured Content Specification.

nehta Introduction

2. Participation Data Specification [NEHT2011v] – contains the full specification which forms the basis of all participations contained in NEHTA Structured Content Specifications.

3. Event Summary – Structured Content Specification [NEHT2011bq] – clinical content specification describing the logical data structures, data components, and value domains which constitute an Event Summary.

1.6 Acronyms

CDA	Clinical Document Architecture
UUID	Universally Unique Identifier
HL7	Health Level Seven
RIM	Reference Information Model
SCS	Structured Content Specification
XHTML	Extensible Hypertext Markup Language
XML	Extensible Markup Language
XSL	Extensible Stylesheet Language

For a complete listing of all relevant acronyms, abbreviations and a glossary of terms please refer to "NEHTA Acronyms, Abbreviations and Glossary of Terms, Version 1.2" [NEHT2005a].

1.7 Keywords

Where used in this document, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** are to be interpreted as described in "Key words for use in RFCs to Indicate Requirement Levels" [RFC2119].

Keywords used in this document

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

1.8 Conformance

This document describes how an Event Summary SCS is implemented as a CDA document. Conformance claims are not made against this Implementation Guide directly; rather, they are made against additional conformance profiles documented elsewhere. Any document that claims conformance to any derived conformance profile must meet these base requirements:

- It **SHALL** be a valid HL7 CDA instance. In particular:
 - It SHALL be valid against the HL7 CDA Schema (once extensions have been removed, see W3C XML Schema).
 - It SHALL conform to the HL7 V3 R1 data type specification.
 - It SHALL conform to the semantics of the RIM and Structural Vocabulary.
 - It SHALL render correctly using the HL7 provided CDA transform.
- It SHALL be valid against the Australian CDA Schema that accompanies this specification after any additional
 extension not in the NEHTA extension namespace have been removed, along with any other CDA content no
 described by this implementation guide.
- · It SHALL use the mappings as they are stated in this document.
- It SHALL use all fixed values as specified in the mappings. (e.g. @attribute="fixed_value").
- If the vocabulary has been explicitly stated as 'NS' it must be interpreted as:

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration procedure</u>² with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

- It **SHALL** be valid against the additional conformance requirements that are established in this document (i.e. any use of the word "SHALL" in uppercase and bold typeface).
- The narrative **SHALL** conform to the requirements described in this guide.
- The document SHALL conform to the requirements specified in the CDA Rendering Specification.
- The data as contained in the data types SHALL conform to the additional data type specification [NEHT2010c].
- Any additional content included in the CDA document that is not described by this implementation guide SHALL
 not qualify or negate content described by this guide and it SHALL be clinically safe for receivers of the document
 to ignore the non-narrative additions when interpreting the existing content.

A system that *consumes* Event Summary CDA documents may claim conformance if it correctly processes conformant instance documents, including correctly understanding all the information in the header. It may, but is not required to, reject non-conformant documents. Conformant systems that consume Event Summary CDA documents are not required to process any or all of the structured data entries in the CDA document but they **SHALL** be able to correctly render the document for end-users when appropriate (see 2.1 Clinical Document Architecture Release 2).

Conformance Profiles of this document may make additional rules that override this document in regard to:

- · Allowing the use of alternative value sets in place of the value sets specified in this document
- · Allowing the use of alternative identifiers in place of the HI Service identifiers
- · Making required data elements and/or section divisions optional

² http://www.hl7.org/oid/index.cfm?ref=footer

nehta Introduction

1.9 Known Issues

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

Reference	Description
Document Status	As a NEHTA Managed Specification, the contents of this document are the result of extensive clinical collaboration and editorial review, and the specification is considered to be 'Final'. Nonetheless, as software implementations and standards review of this specification progress, normative updates may be required.
Document Recipients	Document Recipients were not specified in the Structured Content Specification but most likely need to be added in the CDA Header section.
Clinical Document Architecture Release 2	How is structured text different from structured data? Is the statement intended to assert "text" and "coded data"? Is the "structured text" is intended to mean "marked up text"? And if yes, how is it different from "narratives" that are "CDA defined hypertext"?
AS 5017-2006: Health Care Client Identifier Geographic Area	The Health Care Client Identifier Geographic Area vocabulary table lists displayName, code, codeSystemName and codeSystem while only the displayName is used in the mapping. Verification of using only the displayName needs to be performed.
<code></code>	The explanation of how to use the code element in the Common Patterns chapter needs to be revisited.
Throughout document	Australian vs American spelling - in cases where definitions have been taken from HL7 documentation, the American spelling has been preserved, e.g. organization rather than organisation.
DOCUMENT AUTHOR, Service Provider	Location of Participation is currently not mapped.
PATHOLOGY TEST RESULT	Anatomical Location Image and Specimen Image are mapped to observationMedia - How will these be differentiated?
Thoughout document	While every effort has been taken to ensure that the examples are consistent with consistent with the normative mappings in this message specification, care need to be taken when copying XML examples for implementation and validation.

2 Guide for Use

This document describes how to properly implement the Australian ES SCS as a conformant HL7 CDA XML document. The Event Summary is built in two parts:

1. A Structured Content Specification (SCS), which, in conjunction with its related documents (see Document Map), describes the Event Summary, in a form that is consistent with other NEHTA specifications. It has the potential to be implemented in multiple different exchange formats as is most suitable for a particular context. It describes the data content of an Event Summary as a hierarchy of data components, and provides documentation concerning their use and meaning.

2. A CDA Implementation Guide (this document) which specifies how the data described in the SCS is properly represented in a CDA document.

In order to properly implement this specification, the reader should be familiar with the ES SCS, with the HL7 CDA documentation and how to read this document.

For further information regarding NEHTA Structured Content Specifications, see the links in Document Map.

2.1 Clinical Document Architecture Release 2

A CDA document is an XML document built following the rules described in the CDA specification which conforms to the HL7 CDA Schema provided by HL7. The CDA document is based on the semantics provided by the HL7 Reference Information Model, Data Types, and Vocabulary.

A CDA document has two main parts: the header and the body.

The CDA document header is consistent across all CDA documents regardless of document type. The header identifies and classifies the document and provides information on authentication, the encounter, the patient, and the involved providers.

The body contains the clinical report, and can be marked-up text (narrative, renderable text) or a combination of both marked-up text and structured data. The marked up text can be transformed to XHTML and displayed to a human. The structured data allows machine processing of the information shown in the narrrative section.

CDA contains a requirement that all of its clinical information must be marked up in CDA narratives. These narratives are CDA defined hypertext, able to be rendered in web browsers with only a standard accompanying transformation. This transformation is produced and distributed by HL7.

As noted, it is a conformance requirement that the rendered narrative must be able to stand alone as a source of authenticated information for consuming parties. No content from the CDA body may be omitted from the narrative.

Further information and guidance on the CDA narrative is available in Appendix A, CDA Narratives.

These references are recommended to gain a better understanding of CDA:

• CDA specification: [HL7CDAR2]

- RIM, Data types and Vocabulary: [HL7V3DT]
- Useful CDA examples repository: [RING2009]

• CDA validation tools: [INFO2009]

2.2 Mapping Interpretation

The core of this guide is a mapping from the ES SCS to the CDA document representation.

The mappings may not be deterministic; in some cases the differences in approach between the logical model specified in SCS and CDA document implementation specifications makes it inappropriate to have a 1:1 mapping, or any simple mapping that can be represented in a transform. This is especially true for names and addresses, where the SCS requirements, based on Australian Standards such as AS 5017 2006, differ from the HL7 data types and vocabularies which are not based on these standards.

Many of the mappings use one of a few common patterns for mapping between the SCS and the CDA document. These common mapping patterns are described in 8 *Common Patterns*.

An example of a mapping section of this guide is illustrated below:

X.X ITEM NAME

Identification (normative)

Name ITEM NAME

Metadata type Metadata type e.g. Section, Data Group or Data Element

Relationships (normative)

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
Icon illustrating the Metadata or Data type.	THIS IS A HITK TO ANOTHER SECTION CONTAINING THE HIADDING TOF THIS ITEM, ITEM HATHES III	described on this page	The number of instances of this child item that may occur.

Parent

Data Type	Name	Obligation	Occurrence
Icon illustrating the Metadata or Data type.	ITEM NAME This is a link to another section containing the mapping for this item. Item names in upper case indicate that the item is a section or data group. Item names in start case indicate that the item is a data element.		The number of instances of the item described on this page that may occur.

CDA R-MIM Representation

The text contains an explanation of the mapping (this text is non-normative).

The model is a constrained representation of the R-MIM (this diagram is non-normative). The colours used in the CDA model align with the usage in the R-MIM. In many cases the cardinalities shown in the model will be less constrained than those shown in the mapping table.

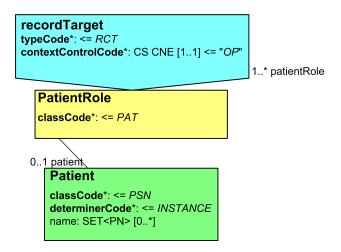


Figure 2.1. Example - Header Part

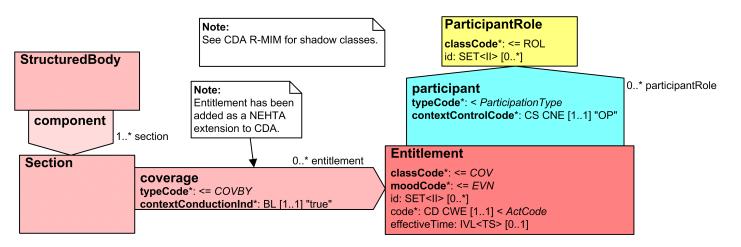


Figure 2.2. Example - Body Part

CDA Mapping (normative)

NEHTA SCS	Data Com-	Card	CDA Schema Data Element	Vocab	Comments
Data Com-	ponent				
ponent	Definition				
CDA Element Type	(Header, Body Leve	el 2 etc.)	Context: Parent of elements below		
The path in the SCS.	The definition of the item from the	The cardinality of the data element in	The schema element(s) in the CDA document that correspond(s) to the SCS data component.	The name of the	Helpful additional information about
Each section in this	SCS.	the SCS.	The syntax for this is similar to XPath:	vocabu- lary.	the mapping.
document corresponds to an SCS		The cardinality of the data element in	{/name{[index]}}n{/ <pattern>}</pattern>	,.	
section or data group, and is		the SCS maps to the cardinality of	Where:		
scoped by that section or data group.		the element in the CDA document.	• {} indicates optional		
The hierarchical path uses ">" as a		Where the cardinal-	{n means a section that may repeat <pre></pre>		
separator for paths within the SCS data		ity of the SCS data element is more	Findex] differentiates two similar mappings		
hierarchy.		constrained that the cardinality of	Examples:		
If there is a name in round brackets after		the CDA element then the SCS car-	1. component/act/participation[inf_prov]/role/ <address></address>		
the path, this is the name of the reused		dinality takes pre- cedence, i.e. if an	2. participant		
data group for the SCS component.		element is mandat- ory in the SCS and	participant/@typeCode="ORG"		
The data component		optional in CDA then it will also be-	participant/associatedEntity		
in bold text (the last in the path) is the		come mandatory in the CDA docu-	participant/associatedEntity/@classCode="SDLOC"		
data component for this row.		ment.	participant/associatedEntity/code		
i.e. Parent Data Component > Child		If an item with a maximum cardinality > 1 maps to an	A sequence of names refers to the XML path in the CDA document. The path always starts from a defined context which is defined in the grey header row above each group of mapping rows. The last name is shown in bold to make the path easier to read. The last name may be a reference to an attribute or an element, as defined in the Australian CDA Schema. The cardinalities of the items map through from the SCS.		
Data Component		xml attribute, the attribute will con- tain multiple values separated by spaces. No such	It is possible to specify an index after the name, such as 'participation[inf_prov]' in Example 1. The presence of the index means there are two or more mappings to the same participation class that differ only in the inner details. The indexes show which of the multiple mappings is the parent of the inner detail. Note that each of the indexed participations may exist more than once (as specified by the SCS group cardinality). To determine the mapping for these kinds of elements, a document reader must look at the content inside the element.		
		item will have valid values that them-	It is possible for one SCS data component to map to more than one CDA Schema element as in Example 2.		
		selves contain spaces.	Any fixed attribute values are represented as a separate line of the mapping such as those shown in Example 2.		
			The path may end with a pattern designator, such as <address>. This indicates that the mapping involves a number of sub-elements of the named element following the pattern as shown in the name (which is a link to the appropriate pattern in this document).</address>		

How to interpret the following example mapping:

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		,
Subject of Care	Identifies the person about whom the healthcare event/encounter/clinical interaction has been captured and/or interchanged, that led to the creation of the document. In other words, the subject of the information.	11	recordTarget/patientRole		
n/a	n/a	11	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Required CDA element. If there are any entitements for Subject of Care this value SHALL be the same as: ClinicalDocument/ component/ structuredBody/ component[admin_obs]/ section/ entry/ act/ participant/ participant Pole/ id where participantRole/ @classCode = "PAT".
Subject of Care > Participant > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/ patient.
Subject of Care > Participant > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1*	recordTarget/patientRole/patient/ <person name=""></person>		See common pat- tern: Person Name.

The Subject of Care (Patient) section is part of the context section of the SCS (as opposed to being part of the content section of the SCS). Although it is located in the context section of the SCS, it contains data components that map to the CDA body as well as data components that map to the CDA header. The information specifying the location of the elements is in the shaded context header row located above each group of mapping rows. The context remains the same until a new context header row starts.

The first row of the mapping (after the context header row), 'Subject of Care', is a CDA Header Element and has a context of 'ClinicalDocument' (the root element of a CDA document). Adding together the context and the mapping using '/' gives a full path of:

1. ClinicalDocument/recordTarget/patientRole

Due to the fact that 'Subject of Care' is part of the context section of the SCS (as opposed to a content element), information about it and its child elements can be located in the SCS document by finding the data component 'Subject of Care' in the table of contents under the context section and navigating to the relevant page.

If the data component were part of the content section of the SCS, information about it could be located by finding the data component (or its parent) in the table of contents under the content section of the SCS.

- 2. The next row in the mapping (n/a) is a row that is not defined in the SCS but which is required by CDA. The CDA schema data element is recordTarget/patientRole/id. This is a technical identifier that is used for system purposes such as matching the Entitlement details back to the Subject of Care (patient). This identifier must be a UUID.
- 3. The next row in the mapping table (Subject of Care > Participant > Person) is defined in the SCS but is not mapped directly to the CDA because it is already encompassed implicitly by CDA in recordTarget/patientRole/patient.

Moving to the next row in the table (Subject of Care > Participant > Person > Person Name) and concatenating the context and the mapping, we get:

4. ClinicalDocument/recordTarget/patientRole/patient/<Person Name>

<PersonName> holds a link to the common pattern section where a new table lays out the mapping for the Person Name common pattern.

Moving down the table to the context row 'CDA Body Level 3 Data Elements', any data components after this row (until the occurrence of a new context row) map to the CDA body. Because there is no equivalent concept in CDA, an Australian CDA extension has been added in order to represent Entitlement. This extension is indicated by the presence of the 'ext.' prefix. For the data component 'Entitlement', adding together the context and the mapping using '/' gives the following paths for the CDA body level 3 data elements ([index] is dependent on context):

- 5. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/@typeCode="COVBY"
- 6. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement
- 7. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/@classCode="COV"
- 8. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/@moodCode="EVN"

- ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"
- 10. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"
- 11. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id

This id is also a technical identifier and must hold the same value as the ClinicalDocument/recordTarget/patientRole/id mentioned above in comment 1.

The order of the SCS data components is not always the same as the order of the CDA elements. In addition, the CDA elements need to be in the order specified in the Australian CDA Schema.

The "id" element is not specified in the SCS and should be filled with a UUID. This element may be used to reference the act from other places in the CDA document.

The next row in the table (Subject of Care > Participant > Entitlement > Entitlement Number) maps to the id element:

12 ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:id

The next row in the table (Subject of Care > Participant > Entitlement > Entitlement Type) maps to the code element:

13. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:code

The next row in the table (Subject of Care > Participant > Entitlement Validity Duration) maps to the effectiveTime element:

14. ClinicalDocument/component/structuredBody/component[index]/section/ext:coverage2/ext:entitlement/ext:effectiveTime

See comments in the example below.

Example 2.1. Mapping Interpretation

```
in the mapping -->
      <id root="04A103C4-7924-11DF-A383-FC69DFD72085"/>
      <telecom value="tel:0499999999" use="H"/>
      <!-- 3 -->
      <patient>
         <!-- 4 Corresponds to:
              '//recordTarget/patientRole/patient/<Person Name>'
           in the mapping -->
         <name use="L">
            <prefix>Ms</prefix>
            <given>Sally</given>
            <family>Grant</family>
         </name>
      </patient>
   </patientRole>
</recordTarget>
<!-- End Subject of Care - Header Part -->
<!-- Begin CDA Body -->
<component>
   <structuredBody>
      <!-- Begin section -->
      <component>
         <section>
            <!-- Begin Subject of Care Entitlement -->
            <!- 5 Corresponds to:
                  '//ext:coverage2'
               in the mapping. -->
            <ext:coverage2 typeCode="COVBY">
               <!-- 6, 7, 8 Corresponds to:
                     '//ext:coverage2/ext:entitlement',
                     '//ext:coverage2/ext:entitlement/@classCode="COV"',
                     '//ext:coverage2/ext:entitlement/@moodCode="EVN"'
                  in the mapping -->
               <ext:Entitlement classCode="COV" moodCode="EVN">
                  <!-- 12 Corresponds to:
                       '//ext:coverage2/ext:entitlement/ext:id'
                     in the mapping -->
                  <ext:id root="1.2.36.174030967.0.5" extension="1234567892"</pre>
                    assigningAuthorityName="Medicare Australia"/>
                  <!-- 13 Corresponds to:
                    '//ext:coverage2/ext:entitlement/ext:code'
                  in the mapping -->
                  <ext:code code="1"
       codeSystem="1.2.36.1.2001.1001.101.104.16047"
       codeSystemName="NCTIS Entitlement Type Values"
       displayName="Medicare Benefits">
                  <!-- 14 Corresponds to:
                        '//ext:coverage2/ext:entitlement/ext:effectiveTime'
                     in the mapping -->
                  <ext:effectiveTime>
                     <low value="200701010101"/>
                     <high value="202701010101"/>
```

```
</ext:effectiveTime>
                    <!-- 9 Corresponds to:
                          '//ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"'
                       in the mapping -->
                    <ext:participant typeCode="BEN">
                       <!-- 10 Corresponds to:
                             '//ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"'
                          in the mapping -->
                       <ext:participantRole classCode="PAT">
                          <!-- 11 Corresponds to:
                               '//ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id'
                             in the mapping -->
                          <!-- Same as recordTarget/patientRole/id -->
                          <ext:id root="04A103C4-7924-11DF-A383-FC69DFD72085"/>
                       </ext:participantRole>
                    </ext:participant>
                 </ext:Entitlement>
              </ext:coverage2>
              <!-- End Entitlement -->
           </section>
        </component>
        <!-- End section -->
     </structuredBody>
  </component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

2.3 CDA Extensions

The SCS is based on Australian requirements, either as expressed in existing Australian Standards, or based upon extensive consultation with major stakeholders. Not all of these requirements are supported by HL7 Clinical Document Architecture Release 2 (CDA).

CDA provides a mechanism for handling this. Implementation guides are allowed to define extensions, provided some key rules are followed:

- Extensions must have a namespace other than the standard HL7v3 namespace.
- The extension cannot alter the intent of the standard CDA document. For example, an extension cannot be used to indicate that an observation does not apply where the CDA document requires it.
- HL7 encourages users to get their requirements formalised in a subsequent version of the standard so as to maximise the use of shared semantics.

Accordingly, a number of extensions to CDA have been defined in this *Implementation Guide*. To maintain consistency, the same development paradigm has been used as CDA, and all the extensions have been submitted to HL7 for inclusion into a future release of CDA (Release 3 currently under development).

Version 3.0 of these extensions are incorporated in the namespace http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0 as shown in the CDA example output throughout this document. Future versions of will be versioned as per the following example:

http://ns.electronichealth.net.au/Ci/Cda/Extensions/4.0

2.4 W3C XML Schema

This document refers to an accompanying Event Summary CDA W3C XML Schema (referred to in this document as the ES CDA Schema). This schema differs from the base HL7 CDA W3C XML Schema (referred to in this document as the HL7 CDA Schema) in two ways:

- · CDA features that are not used in this implementation guide have been removed from the ES CDA Schema; and
- Australian CDA extensions have been added to the ES CDA Schema.

The modified ES CDA Schema specifies the same document format with some components removed and Australian CDA extensions added.

CDA documents which include extensions will fail to validate against the HL7 CDA Schema – this is a known limitation.

Event Summaries that conform to this specification **SHALL** validate against the ES CDA Schema that accompanies this specification, and **SHALL** validate against the HL7 CDA Schema once the extensions have been removed. Note that merely passing schema validation does not ensure conformance; for more information, refer to Conformance.

2.5 Schematron

Many of the rules this document makes about CDA documents cannot be captured in the W3C XML Schema language (XSD) as XSD does not provide a mechanism to state that the value or presence of one attribute is dependent on the values or presence of other attributes (co-occurrence constraints).

Schematron is a rule-based validation language for making assertions about the presence or absence of patterns in XML trees. The rules defined by this document may be captured as Schematron rules. As of this release, the matching Schematron assertions have not yet been developed: NEHTA is considering the distribution of these rules in association with future releases of this guide.

2.6 Implementation Strategies

There are many platform specific implementation options for readers pursuing the implementation of a CDA document according to this guide. Examples of these implementation options include:

- Read or write CDA documents directly using a Document Object Model (DOM) and/or 3rd Generation Language (3GL) code.
- Transform an existing XML format to and from a CDA document.
- Use a toolkit to generate a set of classes from HL7 CDA Schema or the ES CDA Schema provided with this implementation guide, to read or write documents.
- Use existing libraries, possibly open source, which can read and write CDA documents.

The best approach for any given implementation is strongly dictated by existing architecture, technology and legacy constraints of the implementation project or existing system.

3 Event Summary Data Hierarchy

The data hierarchy below provides a logical representation of the data structure of the ES SCS data components.

The data hierarchy is a logical representation of the data components of an Event Summary, and is not intended to represent how the data contents are represented in a CDA document.

	Event S	Summary								
CONTE	XT									
	8	SUBJE	SUBJECT OF CARE							
	T	Encoun	Encounter Period							
	8	DOCUM	DOCUMENT AUTHOR							
CONTE	NT									
		EVENT	DETAILS			01				
			CLINICA	AL SYNOF	esis	11				
			T	Clinical	Synopsis Description	11				
		NEWLY	IDENTIF	IED ADVE	RSE REACTIONS	01				
			ADVER	SE REAC	FION	1*				
			001011001	Substan	ce/Agent	11				
			•	REACTI	ON EVENT	01				
				001011001	Manifestation	1*				
		MEDICA	ATIONS	•		01				
			MEDICA	ATION		1*				
			001011001	Medicine	(Therapeutic Good Identification)	11				
			T	Direction	s	11				
			T	Clinical	ndication	01				
			T	Comme	nt	01				
			001011001	Change	Туре	11				
			001011001	Change	or Recommendation?	11				
			T	Change	Description	01				

1		1						
	T	Change	Reason	01				
DIAGN	NOSES/IN	ΓERVENTΙ	ONS	01				
	PROBL	.EM/DIAGI	NOSIS	0*				
	001011001	Problem	/Diagnosis (Problem/Diagnosis Identification)	11				
	7	Date of	Onset	01				
	T	Comme	nt (Problem/Diagnosis Comment)	01				
	PROCE	DURE		0*				
	001011001	Procedu	re Name	11				
	T	Comme	nt (Procedure Comment)	01				
	7	Start Da	te/Time (DateTime Started)	01				
	MEDIC	AL HISTO	RY ITEM	0*				
	T	Medical	History Item Description	11				
	20	Medical	History Item TimeInterval	01				
	T	Medical	History Item Comment	01				
IMMUI	VISATION	3		01				
	IMMUN	IISATION		1*				
	001011001	Medicine	e (Therapeutic Good Identification)	11				
	7	Medicat	ion Action DateTime	11				
DIAGN	IOSTIC IN	VESTIGAT	TIONS	01				
	PATHO	LOGY TES	ST RESULT	0*				
	001011001	Test Res	Test Result Name (Pathology Test Result Name)					
	001011001	Diagnos	Diagnostic Service					
		TEST S	PECIMEN DETAIL	1*				
		001011001	Specimen Tissue Type	01				
		001011001	Collection Procedure	01				
1		1	ı	1				

			ANATO	TE	0*			
				SPECIF	IC LOCATION	01		
				001011001	Name of Location (Anatomical Location Name)	01		
				001011001	Side	01		
			T	Descrip	tion (Anatomical Location Description)	01		
			001011001	Anatom	ical Location Image	0*		
		•	PHYSIC	CAL DETA	ILS	0*		
				Weight		01		
				DIMENS	GIONS	01		
				1	Volume	01		
			T	Descrip	tion	01		
			001011001	Image				
		•	COLLE	COLLECTION AND HANDLING				
			001011001	Samplin	g Preconditions	01		
		•	HANDL	PROCESSING	11			
			7	Date and Time of Collection (Collection DateTime)				
			T	Collection Setting				
			7	Date an	d Time of Receipt (DateTime Received)	01		
		•	IDENTI	FIERS		01		
			46 X 89 A	Specime	en Identifier	01		
			46 XV 89 A	Parent S	Specimen Identifier	01		
			46 XV 89 A	Contain	er Identifier	01		
	001011001	Overall	Test Resu	ult Status (Overall Pathology Test Result Status)	11		
	T	Clinical	Clinical Information Provided					
	•	PATHO	PATHOLOGY TEST RESULT GROUP					

v 1.2 25

		001011001	Result 0	Group Nar	me (Patho	logy Test Result Group Name)	11				
			Result (Result (INDIVIDUAL PATHOLOGY TEST RESULT)							
			001011001	11							
			001011001	Result \	Result Value						
			001011001	Result \	01						
				RESUL	Γ VALUE Ι	REFERENCE RANGE DETAILS	0*				
				001011001	Result V	/alue Reference Range Meaning	11				
				Ţ	Result V	/alue Reference Range	11				
			T	Result 0	Comment		0*				
			T	Referen	ce Range	Guidance	01				
			001011001	Result Status (Individual Pathology Test Result Status)							
			Result 0	Result Group Specimen Detail							
			001011001	Specimen Tissue Type							
			001011001	Collection	01						
			•	ANATO	0*						
				•	SPECIF	IC LOCATION	01				
					001011001	Anatomical Location Name	01				
					001011001	Side	01				
				T	Anatomi	ical Location Description	01				
				001011001	Anatomi	ical Location Image	0*				
				PHYSIC	PHYSICAL DETAILS						
					Weight		01				
					DIMENS	BIONS	01				
						Volume	01				

1		1		1	1	T					
					T	Description	01				
					001011001	Image	01				
				•	COLLEC	CTION AND HANDLING	01				
					001011001	Sampling Preconditions	01				
				•	HANDLI	ING AND PROCESSING	11				
					7 ⊕	Collection DateTime	11				
					T	Collection Setting	01				
					7°	DateTime Received	01				
				•	IDENTIF	FIERS	01				
					46 XV 89 A	Specimen Identifier	01				
					46 XV 89 A	Parent Specimen Identifier	01				
					46 XV 89 A	Container Identifier	01				
		001011001	Patholog	Pathological Diagnosis							
		T	Conclus	Conclusion (Pathology Test Conclusion)							
		001011001	Test Res	Test Result Representation							
		T	Test Cor	Test Comment							
		•	TEST R	TEST REQUEST DETAILS							
			001011001	Test Red	quested N	lame	0*				
			46 X V 89 A	Laborato	ory Test R	esult Identifier	01				
		7	Patholog	gy Test Re	esult Date	Time	11				
	•	IMAGIN	G EXAMII	NATION F	RESULT		0*				
		001011001	Examina	ation Resu	ult Name ((Imaging Examination Result Name)	11				
		001011001	Modality	Modality (Imaging Modality)							
		•	ANATO	ANATOMICAL SITE							
				SPECIF	IC LOCAT	ΓΙΟΝ	01				
 l .	L	1	L								

v 1.2 27

 ,			,							
			001011001	Name o	f Location (Anatomical Location Name)	01				
			001011001	Side		01				
		T	omical Location Description)	01						
		001011001	Anatomical Location Image							
	001011001	Overall I	Overall Result Status (Imaging Examination Result Status)							
	T	Clinical	Clinical Information Provided							
	T	Findings	3			01				
	•	IMAGIN	G EXAMI	NATION F	RESULT GROUP	0*				
		001011001	Result G	Group Nar	ne (Imaging Examination Result Group Name)	11				
		•	RESULT	(INDIVIE	DUAL IMAGING EXAMINATION RESULT)	1*				
			001011001	Result N	Name (Individual Imaging Examination Result Name)	11				
			001011001	Result V	/alue	01				
			001011001	Result V	/alue Normal Status	01				
				RESULT	Γ VALUE REFERENCE RANGE DETAILS	0*				
				001011001	Result Value Reference Range Meaning	11				
				1	Result Value Reference Range	11				
			T	Result C	Comment	0*				
		•	ANATON	MICAL LC	OCATION	01				
				SPECIF	IC LOCATION	01				
				001011001	Anatomical Location Name	01				
				001011001	Side	01				
			T	Anatomi	ical Location Description	01				
			001011001	Anatomi	ical Location Image	0*				
	001011001	Examina	ation Resu	ılt Repres	entation	01				
 · · · · · · · · · · · · · · · · · · ·	 									

		EXAMIN	NATION R	EQUEST DETAILS	0*		
		T	Examina	ation Requested Name	0*		
		46 XV	DICOM	OM Study Identifier			
		46 XV 89 XA	Report I	dentifier	01		
		•	IMAGE	DETAILS	0*		
			46 XV 89 3 A	Image Identifier	01		
			46 XV 89 3 A	DICOM Series Identifier	01		
			001011001	Image View Name	01		
			T	Subject Position	01		
			7	Image DateTime	01		
			001011001	Image	01		
	7	Imaging	Examina	tion Result DateTime	11		
	REQUE	STED SE	RVICE		0*		
	001011001	Request	ted Servic	e Description	11		
	7	DateTim	ne Service	Scheduled	01		
	20	Service	Commen	cement Window	01		
	001011001	Service	Booking S	Status	11		
	T	Subject	of Care In	estruction Description	01		
	8	Service	Provider		01		
	7	Request	ted Servic	e DateTime	11		

nehta Administrative Observations

4 Administrative Observations

The ES SCS contains a number of data elements that are logically part of the SCS context, but for which there are no equivalent data elements in the CDA header. These data elements are considered to be "Administrative Observations" about the encounter, the patient or some other participant. Administrative Observations is a CDA section that is created to hold these data components in preference to creating extensions for them.

CDA R-MIM Representation

Figure 4.1, "Administrative Observations" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Administrative Observations section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

```
component
typeCode*: <= COMP
contextConductionInd*: BL [1..1] "true"

1..* section

classCode*: <= DOCSECT
moodCode*: <= EVN
code: CE CWE [0..1] <= DocumentSectionType
title: ST [0..1]
text*: ED [0..1]
```

Figure 4.1. Administrative Observations

nehta Administrative Observations

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
n/a	n/a	01	component/section/[admin_obs]/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
		11	component/section/[admin_obs]/code		
			component/section/[admin_obs]/code/@code="102.16080"		
			component/section/[admin_obs]/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component/section/[admin_obs]/code/@codeSystemName="NCTIS Data Components"		
			component/section/[admin_obs]/code/@displayName="Administrative Observations"		
			component[admin_obs]/section/title="Administrative Observations"		
			component[admin_obs]/section/text		See Appendix A, CDA Narratives

Example 4.1. Administrative Observations XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema
shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
   <!-- End CDA Header -->
   <!-- Begin CDA Body -->
   <component>
      <structuredBody>
         <!-- Begin Administrative Observations section -->
   <component><!-- [admin_obs] -->
    <section>
     <id root="88CDBCA4-EFD1-11DF-8DE4-E4CDDFD72085"/>
     <code code="102.16080"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Administrative Observations"/>
     <title>Administrative Observations</title>
     <!-- Narrative text for Administrative Observations -->
     <text/>
   </section>
   </component><!-- [admin_obs] -->
   <!-- End Administrative Observations section -->
      </structuredBody>
   </component>
   <!-- End CDA Header -->
</ClinicalDocument>
```

nehta CDA Header

5 CDA Header

This chapter contains elements that are not specified in the ES SCS specification. These elements include CDA specific header elements (both required and optional) and data elements described in the Endpoint Specification (EPS). The CDA header elements are specified in the CDA Schema Data Element column and where they map to Endpoint specification elements is indicated in the EPS Element column.

All the definitions in this chapter are sourced from "HL7 Clinical Document Architecture, Release 2" [HL7CDAR2].

5.1 ClinicalDocument

Identification

Name ClinicalDocument

Definition The ClinicalDocument class is the entry point into the CDA R-MIM, and corresponds to the <ClinicalDocument> XML element that is the root element of a CDA

document.

Relationships

Children Not Included in Mapping for This Section

Name	Obligation	Occurrence
LegalAuthenticator	Optional	01
Custodian	Essential	11

CDA R-MIM Representation

Figure 5.1, "ClinicalDocument"

```
ClinicalDocument

classCode*: <= DOCCLIN

moodCode*: <= EVN

id*: II [1..1]

code*: CE CWE [1..1] < DocumentType

effectiveTime: GTS [1..1]

confidentialityCode*: CE CWE [1..1] <= x_BasicConfidentialityKind

languageCode: CS CNE [0..1] < HumanLanguage

setId: II [0..1]

versionNumber: INT [0..1] "1"
```

Figure 5.1. ClinicalDocument

nehta CDA Header

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	EPS Element	Comments
Context: /				•	
ClinicalDocument	The ClinicalDocument class is the entry point into the CDA R-MIM, and corresponds to the <clinicaldocument> XML element that is the root element of a CDA document.</clinicaldocument>	11			
ClinicalDocument/typeld	A technology-neutral explicit reference to this CDA, Release	11			
ClinicalDocument/typeId/@extension="POCD_HD000040"	Two specification.	11			The unique identifier for the CDA, Release Two Hierarchical Description.
ClinicalDocument/typeId/@root="2.16.840.1.113883.1.3"					The OID for HL7 Registered models.
ClinicalDocument/templateId		1*			One or more template identifiers that indicate constraints on the CDA document that this document conforms to. One of the identifiers must be the templateld that identifies this specification (see immediately below). Additional template identifiers may be required by other specifications, such as the CDA Rendering Specification. Systems are not required to recognise any other the template identifiers than the one below in order to understand the document as a [type] but these identifiers may influence how the document must be handled.
ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.101.100.1002.136"		11		docType	The healthcare context-specific name of the published Event Summary CDA Implementaion Guide.
ClinicalDocument/templateId/@extension="1.2"		11			The identifier of the version that was used to create the document instance.
ClinicalDocument/id	Represents the unique instance identifier of a clinical document.	11		docld	

CDA Schema Data Element	Definition	Card	Vocab	EPS Element	Comments
ClinicalDocument/code	The code specifying the particular kind of document (e.g.	11			A record, reported by a clini-
ClinicalDocument/code/@code="34133-9"	History and Physical, Discharge Summary, Progress Note).				cian, of one significant health care event involving the sub-
ClinicalDocument/code/@codeSystem="2.16.840.1.113883.6.1"					ject of care.
ClinicalDocument/code/@codeSystemName="LOINC"					
ClinicalDocument/code/@displayName="Summarization of episode note"					
ClinicalDocument/effectiveTime	Signifies the document creation time, when the document first came into being. Where the CDA document is a transform from an original document in some other format, the Clinical-Document.effectiveTime is the time the original document is created.	11		creationTime	
ClinicalDocument/confidentialityCode/@nullFlavor="NA"	Codes that identify how sensitive a piece of information is and/or that indicate how the information may be made available or disclosed.	11			
ClinicalDocument/languageCode		01	[RFC3066] – Tags for the Identification of Languages		<language code=""> - <country code=""></country></language>
ClinicalDocument/setId	Represents an identifier that is common across all document revisions.	01	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.		
ClinicalDocument/versionNumber/@value	An integer value used to version successive replacement documents.	01			
ClinicalDocument/ext:completionCode	The lifecycle status of a document.	11	NCTIS: Admin Codes - Document Status	docStatus	See Australian CDA extension: ClinicalDocument.completionCode

nehta CDA Header

Example

Example 5.1. ClinicalDocument Body XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument xmlns="urn:hl7-org:v3"
      xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="CDA-SS-V1_0.xsd">
 <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
 <templateId root="1.2.36.1.2001.1001.101.100.1002.136" extension="1.2"/>
 <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593"/>
 <code code="34133-9"
  codeSystem="2.16.840.1.113883.6.1"
   codeSystemName="LOINC"
  displayName="Summarization of episode note"/>
 <effectiveTime value="200910201235"/>
 <confidentialityCode nullFlavor="NA"/>
 <languageCode code="en-AU"/>
 <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593"/>
 <versionNumber value="1"/>
 <ext:completionCode code="F"
         codeSystem="1.2.36.1.2001.1001.101.104.20104"
        codeSystemName="NCTIS Document Status Values"
        displayName="Final"/>
 <!-- Begin CDA Header -->
   <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <!-- End CDA Body -->
</ClinicalDocument>
```

5.1.1 LegalAuthenticator

Identification

Name LegalAuthenticator

Definition Represents a participant who has legally authenticated the document.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Optional	01

40 v 1.2

nehta CDA Header

CDA R-MIM Representation

Figure 5.2, "LegalAuthenticator" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The LEGAL AUTHENTICATOR data group maps to the CDA Header element legalAuthenticator. The legalAuthenticator participation class represents who has legally authenticated the document. The role is AssignedEntity and is represented by the Person and/or Organization entities.

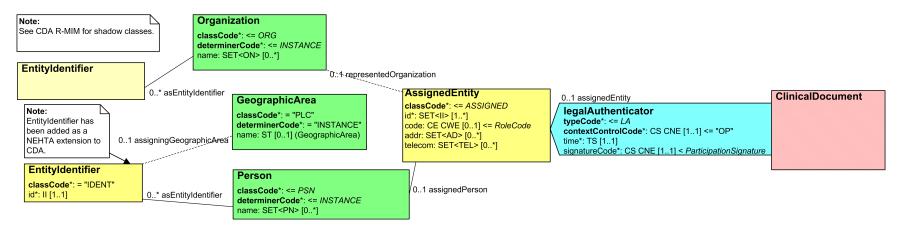


Figure 5.2. LegalAuthenticator

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>¹ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

CDA Schema Data Element	Definition	Card	Vocab	Comments
Context: ClinicalDocument	'			
legalAuthenticator	Represents a participant who has legally authenticated the document.	01		
legalAuthenticator/time/@value	Indicates the time of authentication.	11		
legalAuthenticator/signatureCode/@code="S"	Indicates that the signature has been affixed and is on file.	11		
legalAuthenticator/assignedEntity/code	The specific kind of role.	01	NS	See <code> for available attributes.</code>
legalAuthenticator/assignedEntity/id	A unique identifier for the player entity in this role.	11	UUID	
			This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	
legalAuthenticator/assignedEntity	A legalAuthenticator is a person in the role of an assigned entity (AssignedEntity class). An assigned entity is a person assigned to the role by the scoping organization. The entity playing the role is a person (Person class). The entity scoping the role is an organization (Organization class).	11		
legalAuthenticator/assignedEntity/assignedPerson	The entity playing the role (assignedEntity) is a person.	01		
legalAuthenticator/assignedEntity/assignedPerson/ <entity identifier=""></entity>	The entity identifier of the person.	0*		See common pattern: Entity Identifier.
legalAuthenticator/assignedEntity/ <address></address>	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0*		See common pattern: Address.
legalAuthenticator/assignedEntity/ <electronic communication="" detail=""></electronic>	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0*		See common pattern: Electronic Communication Detail.
legalAuthenticator/assignedEntity/assignedPerson/ <person name=""></person>	A non-unique textual identifier or moniker for the entity (assignedPerson).	0*		See common pattern: Person Name.
legalAuthenticator/assignedEntity/representedOrganization	The entity scoping the role (assignedEntity).	01		

¹ http://www.hl7.org/oid/index.cfm?ref=footer

nehta CDA Header

CDA Schema Data Element	Definition	Card	Vocab	Comments
legalAuthenticator/assignedEntity/representedOrganization/ <entity identifier=""></entity>	A unique identifier for the scoping entity (represented organization) in this role (assignedEntity).	0*		See common pattern: Entity Identifier.
legalAuthenticator/assignedEntity/representedOrganization/name	A non-unique textual identifier or moniker for the entity (represente-dOrganization).	0*		

Example

Example 5.2. LegalAuthenticator XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
  <!-- Begin legalAuthenticator -->
  <legalAuthenticator>
   <time value="201001061149"/>
   <signatureCode code="S"/>
   <assignedEntity>
   <id root="123F9366-78EC-11DF-861B-EE24DFD72085"/>
    <code code="253111"
     codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification
           of Occupations, First Edition, 2006"
      displayName="General Medical Practitioner"/>
    <!-- Address -->
    <addr use="H">
     <streetAddressLine>1 Clinician Street/streetAddressLine>
     <city>Nehtaville</city>
     <state>QLD</state>
     <postalCode>5555</postalCode>
     <additionalLocator>32568931</additionalLocator>
    </addr>
    <!-- Electronic Communication Detail -->
    <telecom use="WP" value="tel:0712341234"/>
    <assignedPerson>
     <!-- Person Name -->
      <prefix>Dr.</prefix>
      <given>Prescribing</given>
      <family>Doctor</family>
     </name>
     <!-- Entity Identifier -->
     <ext:asEntityIdentifier classCode="IDENT">
      <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003611234567890"/>
      <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
      </ext:assigningGeographicArea>
     </ext:asEntityIdentifier>
    </assignedPerson>
```

```
<representedOrganization>
    <!-- Organisation Name -->
    <name>Primary Healthcare Clinic Name
    <!-- Entity Identifier -->
     <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.800362555555"/>
     <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
   </representedOrganization>
  </assignedEntity>
  </legalAuthenticator>
 <!-- End legalAuthenticator -->
<!-- End CDA Header -->
<!-- Begin CDA Body -->
<component>
 <structuredBody>
 </structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

5.1.2 Custodian

Identification

Name Custodian

Definition Represents the organization that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every

CDA document has exactly one custodian.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Essential	11

nehta CDA Header

CDA R-MIM Representation

Figure 5.3, "Custodian" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The CUSTODIAN data group maps to the CDA Header element custodian. The custodian participation class represents the organization that is in charge of maintaining the document. The role is AssignedCustodian and is represented by the CustodianOrganization entity.

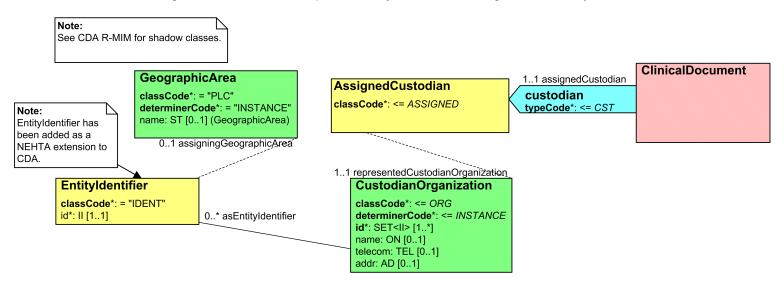


Figure 5.3. Custodian

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	Comments
Context: ClinicalDocument			,	
custodian	Represents the organization that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian.	11		
custodian/assignedCustodian	A custodian is a scoping organization in the role of an assigned custodian.	11		
custodian/assignedCustodian/representedCustodianOrganization	The steward organization (CustodianOrganization class) is an entity scoping the role of AssignedCustodian.	11		
custodian/assignedCustodian/representedCustodianOrganization/id	A unique identifier for the scoping entity (representedCustodianOrganization) in this role.	1*	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
custodian/assignedCustodian/representedCustodianOrganization/ <entity identifier=""></entity>	The entity identifier of the custodian organization.	0*		See common pattern: Entity Identifier.
custodian/assignedCustodian/representedCustodianOrganization/name	The name of the steward organization.	01		
custodian/assignedCustodian/representedCustodianOrganization/ <electronic communication="" detail=""></electronic>	The telecom of the steward organization.	01		See common pattern: Electronic Communication Detail.
custodian/assignedCustodian/representedCustodianOrganization/ <address></address>	The address of the steward organization	01		See common pattern: Address.

Example

Example 5.3. Custodian Body XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
   <!-- Begin CDA Header -->
    <!-- Begin Custodian -->
  <assignedCustodian>
   <representedCustodianOrganization>
   <id root="072EC7BC-78EC-11DF-B9AC-D524DFD72085"/>
    <!-- Organisation Name -->
    <name>Oz Health Clinic</name>
    <!-- Electronic Communication Detail -->
    <telecom use="WP" value="tel:0712341234"/>
    <!-- Address -->
    <addr use="H">
    <streetAddressLine>99 Clinician Street</streetAddressLine>
     <city>Nehtaville</city>
     <state>QLD</state>
     <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
    </addr>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.8003621234567890"/>
     <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
   </representedCustodianOrganization>
  </assignedCustodian>
 </custodian>
 <!-- End Custodian -->
   <!-- End CDA Header -->
   <!-- Begin CDA Body -->
   <component>
      <structuredBody>
```

</structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>

6 Context Data Specification - CDA Mapping

6.1 Event Summary

Identification

Name EVENT SUMMARY
Metadata Type Structured Document

Identifier SD-16473

Relationships

Children Not Included in Mapping for This Section (Context Data Components)

Da	ata Type	Name	Obligation	Occurrence
	3	SUBJECT OF CARE	Essential	11
		DOCUMENT AUTHOR	Essential	11

CDA R-MIM Representation

Figure 6.1, "CDA Header Model for Event Summary Context" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

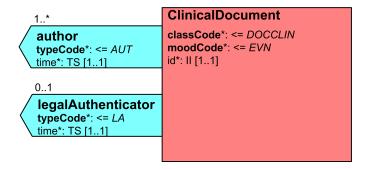


Figure 6.1. CDA Header Model for Event Summary Context

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Event Summary	A record, reported by a clinician, of one significant	11	ClinicalDocument/code		
	health care event involving the subject of care.		ClinicalDocument/code/@code="34133-9"		
			ClinicalDocument/code/@codeSystem="2.16.840.1.113883.6.1"		
			ClinicalDocument/code/@codeSystemName="LOINC"		
			ClinicalDocument/code/@displayName="Summarization of episode note"		
			ClinicalDocument/effectiveTime		Document creation time.
Event Summary > DateTime Attested	The date (and time if known) that the document author or document authoriser/approver confirms (usually by signature) that a document is complete and genuine.	11	ClinicalDocument/legalAuthenticator/time		See <time> for available attributes.</time>
Event Summary > Encounter Period	The date (and optionally time) of the start and end of the encounter that this event summary refers to.	11	ClinicalDocument/componentOf/encompassingEncounter/effectiveTime		See <time> for available attributes.</time>
Event Summary > Subject of Care See: SUBJECT OF CARE					
Event Summary > Document Author	See: DOCUMENT AUTHOR				

For CDA Header mappings and model which are not explicitly included in the SCS, see ClinicalDocument.

Example 6.1. Event Summary Context XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xsi:schemaLocation="CDA-eDS-V3_0.xsd"
 xmlns="urn:hl7-org:v3"
 xmlns:xs="http://www.w3.org/2001/XMLSchema"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0">
 <code code="34133-9"
  codeSystem="2.16.840.1.113883.6.1"
  codeSystemName="LOINC"
  displayName="Summarization of episode note"/>
 <effectiveTime value="200910201235"/>
  . . .
  <!-- Begin CDA Header -->
 <!-- Begin Authenticator -->
 <legalAuthenticator>
 <!-- DateTime Attested -->
 <time value="200910201235"/>
 </legalAuthenticator>
 <!-- End Authenticator -->
   <!-- Begin Encounter Period -->
 <componentOf>
  <encompassingEncounter>
  <effectiveTime value="201112141100+1000">
   <le><low value="201112141100+1000" />
   <high value="201112141130+1000" />
  </effectiveTime>
  </encompassingEncounter>
 </componentOf>
 <!-- End Encounter Period -->
  <!-- End CDA Header -->
  <!-- Begin CDA Body -->
  <!-- End CDA Body -->
</ClinicalDocument>
```

6.1.1 DOCUMENT AUTHOR

Identification

Name DOCUMENT AUTHOR

Metadata Type Data Group Identifier DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Essential	11

CDA R-MIM Representation

Figure 6.2, "Document Author" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The DOCUMENT AUTHOR data group is related to its context of ClinicalDocument by the author participation class. An author is a person in the role of assignedAuthor (AssignedAuthor class). The entity playing the role is assignedAuthorChoice (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (Australian CDA extension) and is associated to the assignedAuthorChoice.

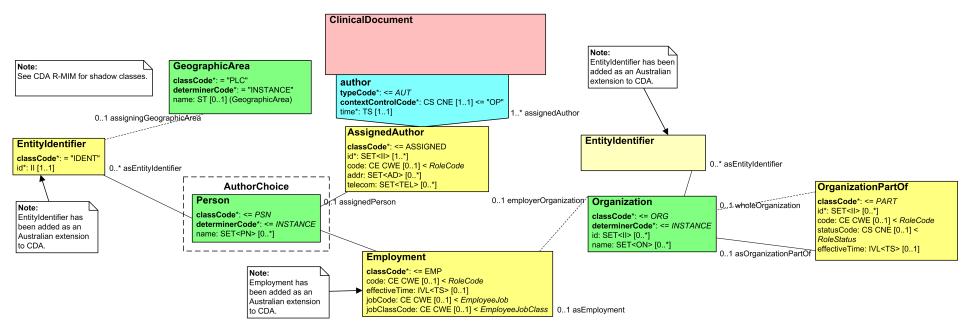


Figure 6.2. Document Author

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		
Document Author	The healthcare provider who composed the event summary.	11	author		
Document Author > Participation Period	The time interval during which the participation in the health care event occurred.	01	author/time	This element will hold the same value as Event Summary > Date Time Attested (ClinicalDocument/ legalAuthenticator/ time) Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a Document Author participation is the time associated with the completion of editing the content of a document." Thus only the end time need be recorded.	Required CDA element.
Document Author > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	n/a	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Document Author".	Not mapped directly, encompassed impli- citly in au- thor/typeCode="AUT" (optional, fixed value).

NEHTA SCS Data Com-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ponent					
Document Author > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	author/assignedAuthor/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METEOR 350899. [ABS2006]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publically available MAY be used.	See <code> for available attributes.</code>
n/a	n/a	11	author/assignedAuthor/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Required CDA element.
Document Author > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	author/assignedAuthor/assignedPerson		
Document Author > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1*	author/assignedAuthor/assignedPerson/ <entity identifier=""></entity>	The value of one Entity Identifier SHALL be an Australian HPI-I.	See common pattern: Entity Identifier.
Document Author > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1*	author/assignedAuthor/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pattern: Address.
Document Author > Participant > Electronic Communication Detail	The electronic communication details of entities.	1*	author/assignedAuthor/ <electronic communication="" detail=""></electronic>		See common pattern: Electronic Communication Detail.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Author > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a	PERSON OR OR- GANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Document Author > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed impli- citly in author/as- signedAuthor/as- signedPerson.
Document Author > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1*	author/assignedAuthor/assignedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Document Author > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	11	author/assignedAuthor/assignedPerson/ <employment></employment>		See common pat- tern: Employment.

Example 6.2. Document Author XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
   <!-- Begin Source of Event Summary -->
 <author>
  <!-- Must hold same value as DateTime attested (ClinicalDocument.legalAuthenticator.time) -->
  <time value="200910201235+1000"/>
  <assignedAuthor>
   <!-- ID is used for system purposes such as matching -->
  <id root="7FCB0EC4-0CD0-11E0-9DFC-8F50DFD72085"/>
   <!-- Role -->
   <code code="253317"</pre>
   codeSystem="2.16.840.1.113883.13.62"
    codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification
          of Occupations, First Edition, 2006"
   displayName="Intensive Care Specialist"/>
   <!-- Address -->
   <addr use="WP">
    <streetAddressLine>1 Clinician Street</streetAddressLine>
    <city>Nehtaville</city>
    <state>QLD</state>
    <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
   <country>Australia</country>
   </addr>
   <!-- Electronic Communication Detail -->
   <telecom use="WP" value="tel:0712341234"/>
   <!-- Participant -->
   <assignedPerson>
    <!-- Person Name -->
    <name>
     <prefix>Dr.</prefix>
     <given>Good</given>
     <family>Doctor</family>
    </name>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003611234567890"/>
     <ext:assigningGeographicArea classCode="PLC">
     <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
```

```
<!-- Employment Details -->
   <ext:asEmployment classCode="EMP">
    <!-- Position In Organisation -->
     <originalText>Senior Intensive Care Specialist</originalText>
     </ext:code>
     <!-- Occupation -->
     <ext:jobCode code="253317" codeSystem="2.16.840.1.113883.13.62"</pre>
     codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
     displayName="Intensive Care Specialist" />
     <!-- Employment Type -->
     <ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059" codeSystemName="HL7:EmployeeJobClass"</pre>
     displayName="full-time" />
     <!-- Employer Organisation -->
     <ext:employerOrganization>
      <!-- Department/Unit -->
      <name>Acme Hospital One</name>
      <as0rganizationPart0f>
      <wholeOrganization>
       <!-- Organisation Name -->
       <name use="ORGB">Acme Hospital Group</name>
       <!-- Entity Identifier -->
       <ext:asEntityIdentifier classCode="IDENT">
         <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.8003621231167899" />
         <ext:assigningGeographicArea classCode="PLC">
         <ext:name>National Identifier</ext:name>
         </ext:assigningGeographicArea>
       </ext:asEntityIdentifier>
      </wholeOrganization>
      </asOrganizationPartOf>
     </ext:employerOrganization>
   </ext:asEmployment>
  </assignedPerson>
  </assignedAuthor>
 </author>
   <!-- End Document Author -->
   <component>
      <structuredBody>
      </structuredBody>
  </component>
</ClinicalDocument>
```

6.1.2 SUBJECT OF CARE

Identification

Name SUBJECT OF CARE

Metadata Type Data Group Identifier DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Essential	11

CDA R-MIM Representation

Figure 6.3, "Subject of Care - Header Data Elements" and Figure 6.4, "Subject of Care - Body Data Elements" show a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to both CDA Header and CDA Body elements.

The SUBJECT OF CARE data group maps mostly to CDA Header elements. The recordTarget participation class represents the medical record to which this document belongs. The recordTarget is associated to the Patient class by the PatientRole class. In order to represent the Date of Death of the Subject of Care, Patient.deceasedTime has been added as an Australian CDA extension.

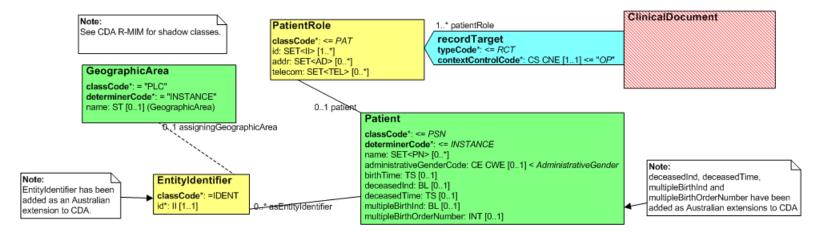


Figure 6.3. Subject of Care - Header Data Elements



Note

Several data elements contained in the SUBJECT OF CARE data group could not be mapped to CDA Header elements. These data elements – have been mapped to Observations in the Administrative Observations section (see 4 *Administrative Observations*).

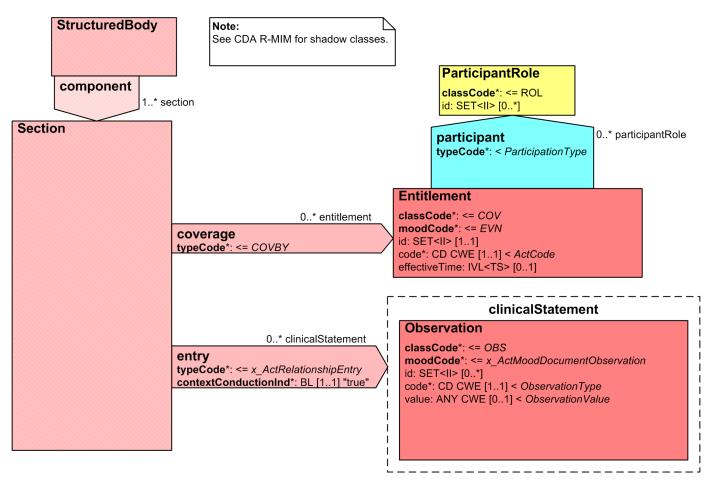


Figure 6.4. Subject of Care - Body Data Elements

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>¹ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		
Subject of Care	Identifies the person about whom the healthcare event/encounter/clinical interaction has been captured and/or interchanged, that led to the creation of the document. In other words, the subject of the information.	11	recordTarget/patientRole		
n/a	n/a	11	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Required CDA element. If there are any entitlements for Subject of Care this value SHALL be the same as: ClinicalDocument/ component/ structuredBody/ component[ad-min_obs]/ section/ entry/ act/ participant/ participant Role/ id where participantRole/ @classCode = "PAT".
Subject of Care > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	n/a	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Subject of Care".	Not mapped directly, encompassed impli- citly in recordTarget/ typeCode = "RCT" (optional, fixed value).

¹ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Com-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ponent					
Subject of Care >Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	n/a	Role SHALL have an implementation-specific fixed value equivalent to "Patient".	Not mapped directly, encompassed impli- citly in recordTarget/ patientRole/ classCode = "PAT".
Subject of Care > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	recordTarget/patientRole/patient		
Subject of Care > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1*	recordTarget/patientRole/patient/ <entity identifier=""></entity>	The value of one Entity Identifier SHALL be an Australian IHI.	See common pattern: Entity Identifier. The Subject of Care's Medicare card number is recorded in Entitlement, not Entity Identifier.
Subject of Care > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1*	recordTarget/patientRole/ <address></address>		See common pattern: Address.
Subject of Care > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	recordTarget/patientRole/ <electronic communication="" detail=""></electronic>		See common pattern: Electronic Communication Detail.
Subject of Care > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a	PERSON OR OR- GANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Subject of Care > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/patient.
Subject of Care > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1*	recordTarget/patientRole/patient/ <person name=""></person>		See common pat- tern: Person Name.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data	Additional characteristics of a person that may be useful for identification or other clinical purposes.	11	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this
					component propagates to its children.

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NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Sex	The biological distinction between male and female. Where there is inconsistency between anatomical and chromosomal characteristics, sex is based on anatomical characteristics.	11	recordTarget/patientRole/patient/administrativeGenderCode	AS 5017-2006 Health Care Client Identifier Sex	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail	Details of the accuracy, origin and value of a person's date of birth.	11	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag-
					ates to its children.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth De- tail > Date of Birth	The date of birth of the person.	11	recordTarget/patientRole/patient/birthTime		See <time> for available attributes.</time>
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section (See 4 Administ	rative Observations)	
Subject of Care > Participant > Person	Indicates whether or not a person's date of birth has	01	entry[calc_age]		
or Organisation or Device > Person > Demographic Data > Date of Birth De-	been derived from the value in the Age data element.		entry[calc_age]/observation		
tail > Date of Birth is Calculated From Age			entry[calc_age]/observation/@classCode="OBS"		
7.90			entry[calc_age]/observation/@moodCode="EVN"		
			entry[calc_age]/observation/code		
			entry[calc_age]/observation/code/@code="103.16233"		
			entry[calc_age]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[calc_age]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[calc_age]/observation/code/@displayName="Date of Birth is Calculated From Age"		
		entry[calc_age]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>	
		entry[calc_age]/observation/value:BL		If the date of birth has been calculated from age this is true, otherwise it is false.	

v 1.2 67

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person	The level of certainty or estimation of a person's date	01	entry[dob_acc]		
or Organisation or Device > Person > Demographic Data > Date of Birth De-	of birth.		entry[dob_acc]/observation		
tail > Date of Birth Accuracy Indicator			entry[dob_acc]/observation/@classCode="OBS"		
			entry[dob_acc]/observation/@moodCode="EVN"		
			entry[dob_acc]/observation/code		
			entry[dob_acc]/observation/code/@code="102.16234"		
			entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[dob_acc]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[dob_acc]/observation/code/@displayName="Date of Birth Accuracy Indicator"		
			entry[dob_acc]/observation/id	UUID	See <id> for avail-</id>
				This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	able attributes.
			entry[dob_acc]/observation/value:CS	AS 5017-2006 Health Care Client Identifier Date Accur- acy Indicator	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Day Accuracy Indicator	The accuracy of the day component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Month Accuracy Indicator	The accuracy of the month component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Year Accuracy Indicator	The accuracy of the year component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail	Details of the accuracy and value of a person's age.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Subject of Care > Participant > Person	The age of a person/subject of care at the time.	11	entry[age]		
or Organisation or Device > Person > Demographic Data > Age Detail > Age			entry[age]/observation		
			entry[age]/observation/@classCode="OBS"		
			entry[age]/observation/@moodCode="EVN"		
			entry[age]/observation/code		
			entry[age]/observation/code/@code="103.20109"		
			entry[age]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[age]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[age]/observation/code/@displayName="Age"		
		entry[age]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>	
			entry[age]/observation/value:PQ		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person	The accuracy of a person's age.	01	entry[age_acc]		
or Organisation or Device > Person > Demographic Data > Age Detail > Age			entry[age_acc]/observation		
Accuracy Indicator			entry[age_acc]/observation/@classCode="OBS"		
		entry[age_acc]/observation/@moodCode="EVN"			
			entry[age_acc]/observation/code		
			entry[age_acc]/observation/code/@code="103.16279"		
			entry[age_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[age_acc]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[age_acc]/observation/code/@displayName="Age Accuracy Indicator"		
		entry[age_acc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>	
		entry[age_acc]/observation/value:BL		If the age is considered to be accurate this is true, otherwise it is false.	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person	An indicator of multiple birth, showing the total num-	01	entry[brth_plr]		
or Organisation or Device > Person > Demographic Data > Birth Plurality	ber of births resulting from a single pregnancy.		entry[brth_plr]/observation		
			entry[brth_plr]/observation/@classCode="OBS"		
			entry[brth_plr]/observation/@moodCode="EVN"		
			entry[brth_plr]/observation/code		
			entry[brth_plr]/observation/code/@code="103.16249"		
			entry[brth_plr]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[brth_plr]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[brth_plr]/observation/code/@displayName="Birth Plurality"		
			entry[brth_plr]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entry[brth_plr]/observation/value:INT		
CDA Header Data Elements			Context: ClinicalDocument		
Subject of Care > Participant > Person or Organisation or Device > Person >	The sequential order of each baby of a multiple birth regardless of live or still birth.	01	recordTarget/patientRole/patient/ext:multipleBirthInd		See Australian CDA extension: Multiple
Demographic Data > Birth Order	regardless of live of still birth.		recordTarget/patientRole/patient/ext:multipleBirthOrderNumber		Birth.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail	Details of the accuracy and value of a person's date of death.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death	or Organisation or Device > Person > estimated or certified to have died.	11	recordTarget/patientRole/patient/ext:deceasedInd		See Australian CDA extension: Deceased Time.
Detail > Date of Death			recordTarget/patientRole/patient/ext:deceasedTime		See <time> for available attributes.</time>
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section (See 4 Administration	trative Observations)	

v 1.2 71

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indic-	The level of certainty or estimation of a person's date of death.	01	entry[dod_acc]		This logical NEHTA data component has no mapping to CDA.	
ator					The cardinality of this component propagates to its children.	
			entry[dod_acc]/observation			
			entry[dod_acc]/observation/@classCode="OBS"			
			entry[dod_acc]/observation/@moodCode="EVN"			
			entry[dod_acc]/observation/code			
			entry[dod_acc]/observation/code/@code="102.16252"			
			entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"			
			entry[dod_acc]/observation/code/@codeSystemName="NCTIS Data Components"			
			entry[dod_acc]/observation/code/@displayName="Date of Death Accuracy Indicator"			
				entry[dod_acc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entry[doc_acc]/observation/value:CS	AS 5017-2006 Health Care Client Identifier Date Accuracy Indicator		
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Day Accuracy Indicator	The accuracy of the day component of a person's date of death.	11	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Month Accuracy Indicator	The accuracy of the month component of a person's date of death.	11	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Year Accuracy Indicator	The accuracy of the year component of a person's date of death.	11	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).
CDA Header Data Elements			Context: ClinicalDocument		
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Country of Birth	The country in which the person was born.	01	recordTarget/patientRole/patient/birthplace/place/addr/country	Australia Bureau of Statistics, Standard Australian Classifica- tion of Countries (SACC) Cat. No. 1269 [ABS2008]	Use the name, not the numbered code.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > State/Territory of Birth	The identifier of the Australian state or territory where a person is born.	01	recordTarget/patientRole/patient/birthplace/place/addr/state	AS 5017-2006 Australian State/Territory Identifier - Postal	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Indigenous Status	Indigenous Status is a measure of whether a person identifies as being of Aboriginal or Torres Strait Islander origin.	11	recordTarget/patientRole/patient/ethnicGroupCode	METeOR 291036: Indigenous Status	
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section		
Subject of Care > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0*	ext:coverage2/@typeCode="COVBY"		See Australian CDA extension: Entitlement.
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	SHALL hold the same value as Clinic- alDocument/ re- cordTarget/ patien- tRole/ id.
Subject of Care > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	11	ext:coverage2/ext:entitlement/ext:id		

v 1.2 73

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	11	1		See <code> for available attributes.</code>
Subject of Care > Participant > Entitlement > Entitlement Validity Duration		01	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for available attributes.</time>

Example 6.3. Subject of Care XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin Patient - Header Part -->
 <recordTarget>
  <patientRole>
  <!-- This system generated id is used for matching patient details such as Entitlement, Date of Birth Details and Age Details -->
  <id root="7AA0BAAC-0CD0-11E0-9516-4350DFD72085"/>
   <!-- Address -->
   <addr use="H">
   <streetAddressLine>1 Clinician Street</streetAddressLine>
   <city>Nehtaville</city>
   <state>QLD</state>
   <postalCode>5555</postalCode>
   <additionalLocator>32568931</additionalLocator>
   <country>Australia</country>
   </addr>
   <!-- Electronic Communication Detail -->
   <telecom use="H" value="tel:0499999999"/>
   <!-- Participant -->
   <patient>
   <!-- Person Name -->
   <name use="L">
    <prefix>Ms</prefix>
     <given>Sally</given>
     <family>Grant</family>
   </name>
   <!-- Sex -->
    <administrativeGenderCode code="F"
              codeSystem="2.16.840.1.113883.13.68"
              codeSystemName="AS 5017-2006 Health Care Client Identifier Sex"/>
   <!-- Date of Birth -->
   <birthTime value="19480607"/>
   <!-- Indigenous Status -->
   <ethnicGroupCode code="4" codeSystem="2.16.840.1.113883.3.879" codeSystemName="METeOR Indigenous Status"</pre>
    displayName="Neither Aboriginal nor Torres Strait Islander origin" />
   <!-- Multiple Birth Indicator -->
   <ext:multipleBirthInd value="true"/>
   <ext:multipleBirthOrderNumber value="2"/>
   <!-- Date of Death -->
   <ext:deceasedInd value="true"/>
   <ext:deceasedTime value="20101201"/>
```

v 1.2 75

```
<!-- Country of Birth/State/Territory of Birth -->
  <br/>
<br/>
dirthplace>
   <place>
    <addr>
    <country>Australia</country>
    <state>QLD</state>
    </addr>
   </place>
  </br/>dirthplace>
  <!-- Entity Identifier -->
  <ext:asEntityIdentifier classCode="IDENT">
   <ext:id assigningAuthorityName="IHI" root="1.2.36.1.2001.1003.0.8003601234512345"/>
   <ext:assigningGeographicArea classCode="PLC">
   <ext:name>National Identifier</ext:name>
   </ext:assigningGeographicArea>
  </ext:asEntityIdentifier>
 </patient>
</patientRole>
</recordTarget>
<!-- End Patient - Header Part -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
      <!-- Begin Section Administrative Observations -->
  <component><!-- [admin_obs] -->
  <section>
   <code code="102.16080"</pre>
    codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components"
    displayName="Administrative Observations"/>
   <title>Administrative Observations</title>
   <!-- Narrative text -->
   <text>
    Date of Birth is Calculated From Age
      True
      Date of Birth Accuracy Indicator
      AAA
      Age
      54
      Age Accuracy Indicator
      True
      Birth Plurality
      3
```

</text> <!-- Begin Patient - Body --> <!-- Begin Date of Birth is Calculated From Age --> <entry><!-- [calc_age] --> <observation classCode="OBS" moodCode="EVN"> <id root="DA10C13E-EFD0-11DF-91AF-B5CCDFD72085"/> <code code="103.16233"</pre> codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Date of Birth is Calculated From Age"/> <value value="true" xsi:type="BL"/> </observation> </entry><!-- [calc_age] --> <!-- End Date of Birth is Calculated From Age --> <!-- Begin Date of Birth Accuracy Indicator--> <entry><!-- [dob_acc] --> <observation classCode="OBS" moodCode="EVN"> <id root="D253216C-EFD0-11DF-A686-ADCCDFD72085"/> <code code="102.16234"</pre> codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Date of Birth Accuracy Indicator"/> <value code="AAA" xsi:type="CS"/> </observation> </entry><!-- [dob_acc] --> <!-- End Date of Birth Accuracy Indicator--> <!-- Begin Age --> <entry><!-- [age] --> <observation classCode="OBS" moodCode="EVN"> <id root="CCF0D55C-EFD0-11DF-BEA2-A6CCDFD72085"/> <code code="103.20109" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Age"/> <value value="54" unit="a" xsi:type="PQ"/> </observation> </entry><!-- [age] --> <!-- End Age --> <!-- Age Accuracy Indicator --> <entry><!-- [age_acc] --> <observation classCode="OBS" moodCode="EVN"> <id root="C629C9F4-EFD0-11DF-AA9E-96CCDFD72085"/> <code code="103.16279" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Age Accuracy Indicator"/> <value value="true" xsi:type="BL"/> </observation> </entry><!-- [age_acc] --> <!-- Birth Plurality --> <entry><!-- [birth_plr] --> <observation classCode="OBS" moodCode="EVN"> <id root="C1EE2646-EFD0-11DF-8D9C-95CCDFD72085"/> <code code="103.16249"</pre> codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"

v 1.2 77

```
displayName="Birth Plurality"/>
      <value value="3" xsi:type="INT"/>
     </observation>
    </entry><!-- [birth_plr] -->
    <!-- Begin Date of Death Accuracy Indicator-->
     <entry><!-- [dod_acc] -->
      <observation classCode="OBS" moodCode="EVN">
       <!-- ID is used for system purposes such as matching -->
       <id root="D253216C-EFD0-11DF-A686-ADCCDFD72085"/>
       <code code="102.16252"
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Date of Death Accuracy Indicator"/>
       <value code="AAA" xsi:type="CS"/>
      </observation>
     </entry><!-- [dod_acc] -->
     <!-- End Date of Death Accuracy Indicator-->
     <!-- Begin Entitlement -->
     <ext:coverage2 typeCode="COVBY">
      <ext:entitlement classCode="COV" moodCode="EVN">
       <ext:id root="1.2.36.174030967.0.5" extension="1234567892" assigningAuthorityName="Australian Medicare number" />
       <ext:code code="1" codeSystem="1.2.36.1.2001.1001.101.104.16047" codeSystemName="NCTIS Entitlement Type Values" displayName="Medicare Benefits"/>
       <ext:effectiveTime>
        <high value="20110101"/>
       </ext:effectiveTime>
       <ext:participant typeCode="BEN">
        <ext:participantRole classCode="PAT">
         <ext:id root="7AA0BAAC-0CD0-11E0-9516-4350DFD72085" />
        </ext:participantRole>
       </ext:participant>
      </ext:entitlement>
     </ext:coverage2>
     <!-- End Entitlement -->
    <!-- End Patient - Body -->
    . . .
   </section>
  </component>
  <!-- End Section Administrative Observations -->
     </structuredBody>
  </component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7 Content Data Specification - CDA Mapping

7.1 Event Summary

Identification

Name EVENT SUMMARY

Metadata Type Structured Document

Identifier SD-16473

Relationships

Children Not Included in Mapping for This Section (Content Data Components)

Data Type	Name	Obligation	Occurrence
	EVENT DETAILS	Optional	01
	NEWLY IDENTIFIED ADVERSE REACTIONS	Optional	01
	MEDICATIONS	Optional	01
	DIAGNOSES/INTERVENTIONS	Optional	01
	IMMUNISATIONS	Optional	01
	DIAGNOSTIC INVESTIGATIONS	Optional	01

CDA R-MIM Representation

Figure 7.1, "Event Summary" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Event Summary is composed of a ClinicalDocument, which is the entry point into the CDA R-MIM. The ClinicalDocument is associated with the bodyChoice through the component relationship. The structuredBody class represents a CDA document body that is comprised of one or more document sections.

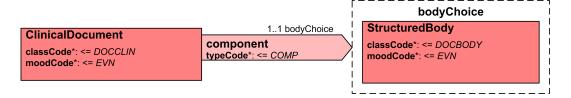


Figure 7.1. Event Summary

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments			
CDA Header Data Elements	CDA Header Data Elements							
Event Summary	A record, reported by a clinician, of one significant health care event involving the subject of care.	11	ClinicalDocument					
CDA Body Level 2 Data Elements	CDA Body Level 2 Data Elements							
Event Summary (Body)	See above.	11	ClinicalDocument/component/structuredBody					

Example 7.1. Event Summary Body XML Fragment

7.1.1 EVENT DETAILS

Identification

Name Event Details

Metadata Type Section
Identifier S-16672

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	Clinical Synopsis	Essential	11

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Optional	01

CDA R-MIM Representation

Figure 7.2, "Event Details" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The Event Details section is mapped to a Section.

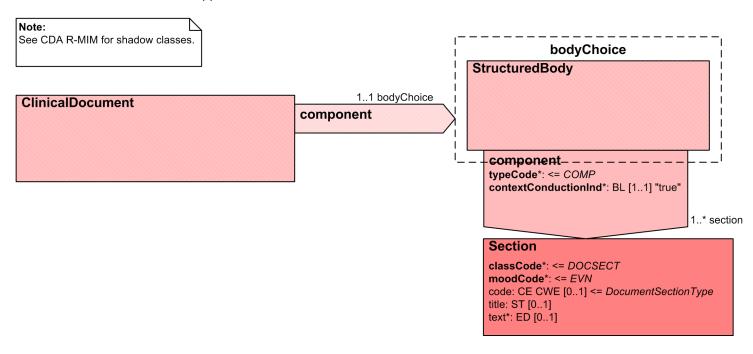


Figure 7.2. Event Details

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
Event Details	Summary information concerning the event.	01	component[evt_det]/section		
			component[evt_det]/section/code		
			component[evt_det]/section/@code="101.16672"		
			component[evt_det]/section/@codeSystem="1.2.36.1.2001.1001.101"		
			component[evt_det]/section/@codeSystemName="NCTIS Data Components"		
			component[evt_det]/section/@displayName="Event Details"		
			component[evt_det]/section/title="Event Details"		
			component[evt_det]/section/text		See Appendix A, CDA Narratives

v 1.2 85

Example 7.2. Event Details XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
   <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
   <!-- Begin Event Details -->
   <component>
    <section>
     <code code="101.16672" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Event Details" />
     <title>Event Details</title>
     <text>Sally presented to me today after a fall in a local shopping centre. Suffered a deep laceration to her right
     calf which required cleaning and 4 sutures.</text>
   </section>
   </component>
   <!-- End Event Details -->
   </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.1.1 Clinical Synopsis

Identification

Name CLINICAL SYNOPSIS

Metadata Type Data Group Identifier DG-15513

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	EVENT DETAILS	Essential	11

CDA R-MIM Representation

Figure 7.3, "Clinical Synopsis" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

Clinical Synopsis data group comprises of a Section class related to its parent section by a component relationship. The Clinical Synopsis is represented by an Act related to the Section class by an entry relationship.

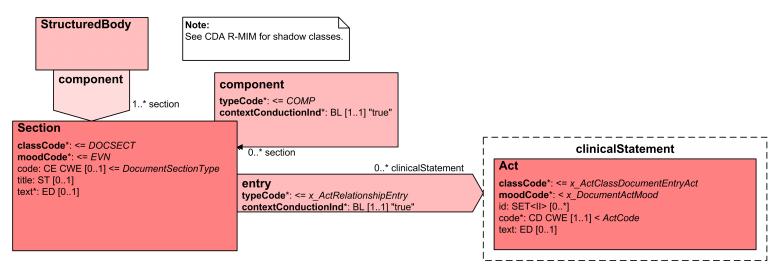


Figure 7.3. Clinical Synopsis

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[Evt_det]/section		
Clinical Synopsis	A clinical synopsis of the event and its reasons.	11	entry		
			entry/act		
			entry/act/@classCode="ACT"		
			entry/act/@moodCode="EVN"		
			entry/act/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entry/act/code		
			entry/act/code/@code="102.15513 "		
			entry/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry/act/code/@codeSystemName="NCTIS Data Components"		
			entry/act/code/@displayName="Clinical Synopsis"		
Clinical Synopsis > Clinical Synopsis Description	The Clinical Synopsis, written in free text.	11	entry/act/text:ST		

Example 7.3. Clinical Synopsis XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
   <!-- Begin CDA Header -->
   <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
     <!-- Begin Event Details section -->
   <component>
    <section>
     <!-- Begin Clinical Synopsis -->
      <act classCode="ACT" moodCode="EVN">
       <code code="102.15513" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
       displayName="Clinical Synopsis" />
       <!-- Begin Clinical Synopsis Description -->
       <text>Sally presented to me today after a fall in a local shopping centre. Suffered a deep laceration to her
       right calf which required cleaning and 4 sutures.</text>
       <!-- End Clinical Synopsis Description -->
      </act>
     </entry>
     <!-- End Clinical Synopsis -->
     . . .
    </section>
   </component>
   <!-- End Event Details section -->
    </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.2 NEWLY IDENTIFIED ADVERSE REACTIONS

Identification

Name Adverse Reactions

Metadata Type Section
Identifier S-20113

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	ADVERSE REACTION	Essential	1*

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Optional	01

CDA R-MIM Representation

Figure 7.4, "Adverse Reactions" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Adverse Reactions section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

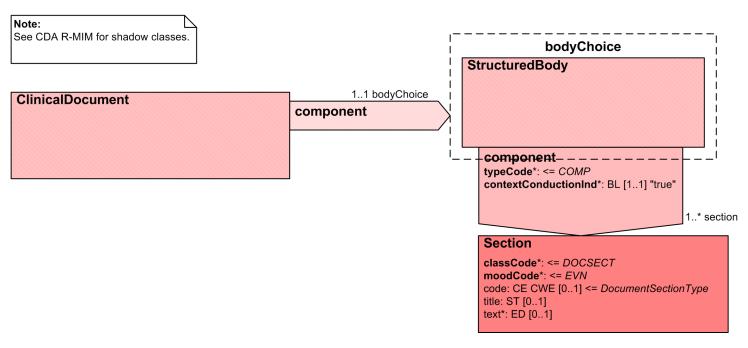


Figure 7.4. Adverse Reactions

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
(including allergies and intolerances), and any relev	Information about adverse reactions of the patient	01	component[adv_reacts]/section		
	ant reaction details. This includes statements about		component[adv_reacts]/section/code		
		component[adv_reacts]/section/code/@code="101.20113"			
	of which the author became aware during the health event.		component[adv_reacts]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[adv_reacts]/section/code/@codeSystemName="NCTIS Data Components"		
			component[adv_reacts]/section/code/@displayName="Adverse Reactions"		
			component[adv_reacts]/section/title="Adverse Reactions"		
			component[adv_reacts]/section/text		See Appendix A, CDA Narratives
Newly Identified Adverse Reactions > Adverse Reaction	A harmful or undesirable effect associated with exposure to any substance or agent, including food, plants, animals, venom from animal stings or a medication at therapeutic or sub-therapeutic doses.	1*	See: ADVERSE REACTION		

Example 7.4. Adverse Reactions XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
    <!-- Adverse Reactions -->
   <component>
   <section>
    <code code="101.20113" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Adverse Reactions" />
    <title>Adverse Reactions</title>
    <text>
     <thead>
       Agent
        Reaction description
       </thead>
      Penicillin
        Servere urticaria on trunk and legs; Nausea and vomiting
       Metoprolol
        Acute exacerbation of Chronic Obstructive Airways Disease
      </text>
    . . .
   </section>
   </component>
   <!-- End Adverse Reactions -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.2.1 ADVERSE REACTION

Identification

Name Adverse Reaction

Metadata Type Data Group Identifier DG-15517

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	NEWLY IDENTIFIED ADVERSE REACTIONS	Essential	1*

CDA R-MIM Representation

Figure 7.5, "ADVERSE REACTION" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

Each ADVERSE REACTION data group modelled as an act which is related to its containing section by an entry relationship. This act has a related participant which represents the Substance/Agent. It also has two related observations representing the Reaction Event and the Manifestation.

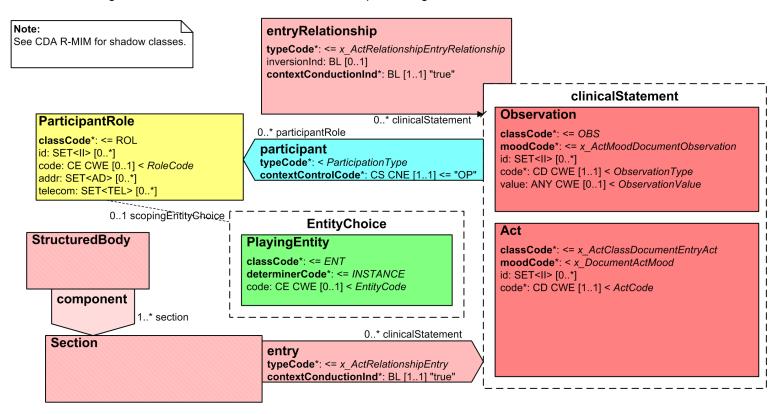


Figure 7.5. ADVERSE REACTION

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>¹ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[adv_react]/section		
Adverse Reaction	A harmful or undesirable effect associated with ex-	1*	entry		
	posure to any substance or agent, including food, plants, animals, venom from animal stings or a		entry/act		
	medication at therapeutic or sub-therapeutic doses.		entry/act/@classCode="ACT"		
			entry/act/@moodCode="EVN"		
			entry/act/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entry/act/code		
			entry/act/code/@code="102.15517"		
			entry/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry/act/code/@codeSystemName="NCTIS Data Components"		
			entry/act/code/@displayName="Adverse Reaction"		
Adverse Reaction > Substance/Agent		11	entry/act/participant		
	substance, that is considered to be responsible for the adverse reaction.	I -	entry/act/participant/@typeCode="CAGNT"		
			entry/act/participant/participantRole/playingEntity/code	NEHTA Sub- stance/Agent Values	See <code> for available attributes.</code>

¹ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Adverse Reaction > Reaction Event	Details about each adverse reaction event.	01	entry/act/entryRelationship[rct_evnt]/@typeCode="CAUS"		
			entry/act/entryRelationship[rct_evnt]/observation		
			entry/act/entryRelationship[rct_evnt]/observation/@classCode="OBS"		
			entry/act/entryRelationship[rct_evnt]/observation/@moodCode="EVN"		
			entry/act/entryRelationship[rct_evnt]/observation/code		
			entry/act/entryRelationship[rct_evnt]/observation/code/@code="102.16474"		
			entry/act/entryRelationship[rct_evnt]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
		entry/act/entryRelationship[rct_evnt]/observation/code/@codeSystemName="NCTIS Data Components"			
			entry/act/entryRelationship[rct_evnt]/observation/code/@displayName="Reaction Event"		
Adverse Reaction > Reaction Event >	Clinical manifestation of the adverse reaction ex-	1*	entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/@typeCode="MFST"		
Manifestation	pressed as a single word, phrase or brief description.		entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/@inversionInd="true"		
			entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/observation		
			entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/observation/@classCode= "OBS"		
			entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/observation/@moodCode= "EVN"		
			entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/observation/code	Clinical Manifestation Values	See <code> for available attributes.</code>

Example 7.5. Adverse Substance Reaction XML Fragment

<!-- This example is provided for illustrative purposes only. It has had no clinical validation. While every effort has been taken to ensure that the examples are consistent with the message specification, where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence --> <ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" <!-- Begin CDA Header --> <!-- End CDA Header --> <!-- Begin CDA Body --> <component> <structuredBody> <!-- Begin Adverse Reactions --> <component> <section> <!-- Begin Newly Identified Adverse Reaction --> <act classCode="ACT" moodCode="EVN"> <id root="F80F2792-EFD5-11E0-8AC8-FA1A4924019B" /> <code code="102.15517" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre> displayName="Adverse Reaction" /> <!-- Begin Substance/Agent --> <participant typeCode="CAGNT"> <participantRole> <code code="6369005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT AU"</pre> displayName="penicillin" /> </playingEntity> </participantRole> </participant> <!-- End Substance/Agent --> <!-- Begin Reaction Event --> <entryRelationship typeCode="CAUS"> <observation classCode="OBS" moodCode="EVN"> <code code="102.16474" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre> displayName="Reaction Event" /> <!-- Begin Manifestation --> <entryRelationship inversionInd="true" typeCode="MFST"> <observation classCode="OBS" moodCode="EVN"> <code code="126485001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT AU"</pre> displayName="urticaria" /> </observation> </entryRelationship> <entryRelationship inversionInd="true" typeCode="MFST"> <observation classCode="OBS" moodCode="EVN"> <code code="422587001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT AU"</pre>

```
displayName="nausea" />
         </observation>
        </entryRelationship>
        <!-- End Manifestation -->
       </observation>
      </entryRelationship>
      <!-- End Reaction Event -->
     </act>
    </entry>
    <!-- End Newly Identified Adverse Reaction -->
   </section>
  </component>
  <!-- End Adverse Reactions -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.3 MEDICATIONS

Identification

Name Medications
Metadata Type Section
Identifier S-16146

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	MEDICATION	Essential	1*

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Optional	01

CDA R-MIM Representation

Figure 7.6, "Medications" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Medications section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

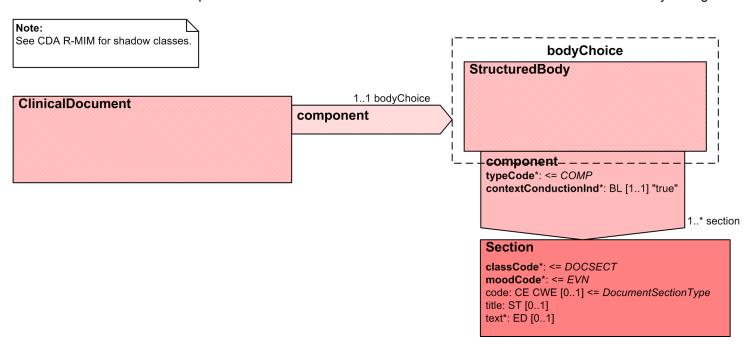


Figure 7.6. Medications

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
Medications	Therapeutic Goods which are/were prescribed for	01	component[meds]/section		
	the patient or the patient has/had been taking.		component[meds]/section/code		
			component[meds]/section/code/@code="101.16146"		
			component[meds]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[meds]/section/code/@codeSystemName="NCTIS Data Components"		
			component[meds]/section/code/@displayName="Medications"		
			component[meds]/section/title="Medications"		
			component[meds]/section/text		See Appendix A, CDA Narratives
Medications > Medication	Information pertaining to one or more therapeutic goods that is represented to achieve, or is likely to achieve, its principal intended action by pharmacological, chemical, immunological or metabolic means in or on the body of a human.	1*	See: MEDICATION		

Example 7.6. Medications XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
  <!-- Begin Medications -->
   <component>
   <section>
    <code code="101.16146" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Medications" />
    <title>Medications</title>
    <text>
     <thead>
       Status
        Item Description
        Dose Instructions
        Reason for Medication
        Additional Comments
        Reason for Change
       </thead>
      New - prescribed
        Lasix (frusemide 40 mg) tablet
        1 tablet once daily oral
        Fluid retention, 3 months
        Trial
        </text>
   </section>
   </component>
  <!-- End Medications section -->
    </structuredBody>
```

```
<component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.3.1 MEDICATION

Identification

NameMedicationMetadata TypeData GroupIdentifierDG-16211

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	MEDICATIONS	Essential	1*

CDA R-MIM Representation

Figure 7.7, "Medication" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Medication data group is described by a SubstanceAdministration which is related to the containing section by an entry. The text element of the SubstanceAdministration holds the the Directions. SubstanceAdministration has two related clinicalStatements: a reason Act to represent Clinical Indication and a component Act to represent the comment. Therapeutic Good Identification maps to consumable.manufacturedProduct.manufacturedMaterial.code.

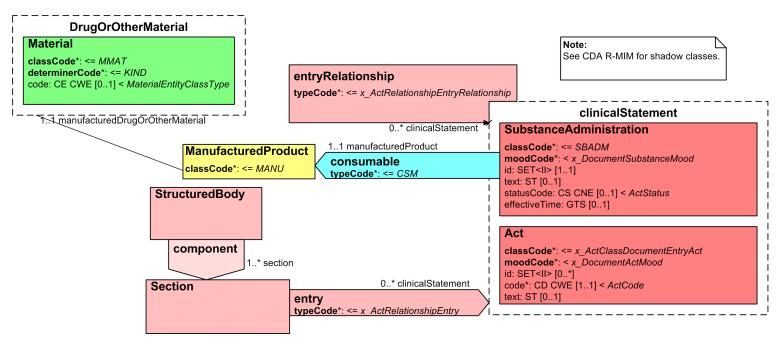


Figure 7.7. Medication

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[med]/section	n	
Medication	Information pertaining to one or more therapeutic	1*	entry[med_inst]		
	goods that is represented to achieve, or is likely to achieve, its principal intended action by pharmacolo-		entry[med_inst]/substanceAdministration		
	gical, chemical, immunological or metabolic means in or on the body of a human.		entry[med_inst]/substanceAdministration/@moodCode="EVN"		
	in or on the body or a numan.		entry[med_inst]/substanceAdministration/@classCode="SBADM"		
			entry[med_inst]/substanceAdministration/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
Medication > Therapeutic Good Identification	Identifies a therapeutic good, which is broadly defined as a good which is represented in any way to be, or is likely to be taken to be, for therapeutic use Definition (unless specifically excluded or included under Section 7 of the Therapeutic Goods Act 1989).	11	entry[med_inst]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	Australian Medicines Terminology The permissible values are the members of the following 7 AMT reference sets: • 929360061000036106 Medicinal product reference set • 929360081000036101 Medicinal product pack reference set • 929360071000036103 Medicinal product unit of use reference set • 929360021000036102 Trade product reference set • 929360041000036105 Trade product pack reference set • 929360031000036100 Trade product unit of use reference set • 929360051000036108 Containered trade product pack reference set	See <code> for available attributes.</code>
Medication > Directions	A complete narrative description of how much, when and how to use the medicine, vaccine or other therapeutic good.	11	entry[med_inst]/substanceAdministration/text:ST		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Medication > Clinical Indication	A reason for ordering the medicine, vaccine or other therapeutic good.	01	entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/ @typeCode="RSON"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/@classCode="INFRM"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/@moodCode="EVN"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/code		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/code/@code="103.10141"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/code/@displayName="Clinical Indication"		
			entry[med_inst]/substanceAdministration/entryRelationship[cln_ind]/act/text:ST		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments						
Medication > Comment	Any additional information that may be needed to ensure the continuity of supply, rationale for current	01	entry[med_inst]/substanceAdministration/entryRelationship[cmts]/ @typeCode="COMP"								
	dose and timing, or safe and appropriate use.		entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act								
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/ act/@classCode="INFRM"								
					entry[med_inst]/substanceAdministration/entryRelationship[cmts]/ act/@moodCode="EVN"						
											This is a system able inte
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/code								
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/code/@code="103.16044"								
								entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/code/@codeSystem="1.2.36.1.2001.1001.101"			
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/code/@codeSystemName="NCTIS Data Components"								
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/code/@displayName="Comment"								
			entry[med_inst]/substanceAdministration/entryRelationship[cmts]/act/text:ST								

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Medication > Change Type	The way in which this instruction differs from the previous instruction.	11	entry[med_inst]/substanceAdministration/entryRelationship[change]/ @typeCode="SPRT"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/@classCode="OBS"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/@moodCode="EVN"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/code		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/code/@code="103.16593"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/code/@displayName="Change Type"		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/value:CD	NCTIS: Change Type Values	See <code> for available attributes.</code>
			entry[med_inst]/substanceAdministration/@negationInd	true	If the meaning of 'Change Type' is "ceased" AND the value of 'Recommendation or Change' is "The change has been made" then this element is present and have a value of true. Otherwise this element is not present.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments																		
Medication > Change or Recommendation?	Identifies whether the change has already been made or is a recommendation which has not been	11	entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/@typeCode="COMP"																				
	made.		entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation																				
					entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/@classCode="OBS"																		
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/@moodCode="EVN"																				
					,		-			-	entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/code												
																					entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/code/@code="103.16595"		
											entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"												
															entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/code/@codeSystemName="NCTIS Data Components								
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/code/@displayName="Recommendation or Change"																				
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[made]/observation/value:CD	NCTIS: Admin Codes - Recommendation or Change Values	See <code> for available attributes.</code>																		
Medication > Change Description	Description of the change in the subject of care's medication item information.	01	entry[med_inst]/substanceAdministration/entryRelationship[change]/ observation/text:ST																				

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments					
Medication >Change Reason	The justification for the stated change in medication.	01	entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/@typeCode="RSON"							
		1		entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act						
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/@classCode="INFRM"							
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/@moodCode="EVN"							
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/code							
								entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/code/@code="103.10177"		
									entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/code/@codeSystem= "1.2.36.1.2001.1001.101"	
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/code/@codeSystemName="NCTIS Data Components"							
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/code/@displayName="Change Reason"							
			entry[med_inst]/substanceAdministration/entryRelationship[change]/observation/entryRelationship[change_rsn]/act/text							

Example 7.7. Medication XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
  <!-- Begin Medications -->
   <component>
   <section>
     <!-- Begin Medication -->
     <entry>
      <substanceAdministration classCode="SBADM" moodCode="EVN">
      <id root="BB5DFFC2-EFD9-11E0-97C1-3B1F4924019B" />
       <!-- Begin Directions -->
      <text>1 tablet once daily oral</text>
      <!-- End Directions -->
       <!-- Begin Medicine -->
       <consumable>
        <manufacturedProduct>
         <manufacturedMaterial>
          <code code="6006011000036102" codeSystem="1.2.36.1.2001.1004.100"</pre>
          codeSystemName="Australian Medicinces Terminology (AMT)"
          displayName="Lasix (frusemide 40 mg) tablet: uncoated, 1 tablet" />
         </manufacturedMaterial>
        </manufacturedProduct>
       </consumable>
       <!-- End Medicine -->
       <!-- Begin Clinical Indication -->
       <entryRelationship typeCode="RSON">
        <act classCode="INFRM" moodCode="EVN">
         <code code="103.10141" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
         displayName="Clinical Indication" />
         <text>Fluid retention, 3 months</text>
       </entryRelationship>
       <!-- End Clinical Indication -->
       <!-- Begin Comment -->
       <entryRelationship typeCode="COMP">
        <act classCode="INFRM" moodCode="EVN">
```

```
<id root="B559F850-EFDA-11E0-B288-67204924019B" />
         <code code="103.16044" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
         displayName="Comment" />
         <text>Trial</text>
        </act>
       </entryRelationship>
       <!-- End Comment -->
       <!-- Beging Change Type -->
       <entryRelationship typeCode="SPRT">
        <observation classCode="OBS" moodCode="EVN">
         <code code="103.16593" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
         displayName="Change Type" />
         <!-- Begin Change Description -->
         <text>New - prescribed.</text>
         <!-- End Change Description -->
         <value code="04" codeSystem="1.2.36.1.2001.1001.101.104.16592"</pre>
         codeSystemName="NCTIS Change Type Values" displayName="Prescribed" xsi:type="CD" />
         <!-- Begin Change or Recommendation -->
         <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
           <code code="103.16595" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Recommendation or Change" />
           <value code="02" codeSystem="1.2.36.1.2001.1001.101.104.16594"</pre>
           codeSystemName="NCTIS Recommendation or Change Values" displayName="The change has been made."
            xsi:type="CD" />
          </observation>
         </entryRelationship>
         <!-- End Change or Recommendation -->
         <!-- Change Reason -->
         <entryRelationship typeCode="RSON">
          <act classCode="INFRM" moodCode="EVN">
           <code code="103.10177" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Change Reason" />
           <text>New - prescribed.</text>
          </act>
         </entryRelationship>
         <!-- End Change Reason -->
        </observation>
       </entryRelationship>
       <!-- End Change Type -->
      </substanceAdministration>
     </entry>
     <!-- End Medication -->
    </section>
   </component>
   <!-- End Medications -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4 DIAGNOSES/INTERVENTIONS

Identification

Name Diagnoses/Interventions

Metadata Type Section
Identifier S-16117

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	PROBLEM/DIAGNOSIS	Optional	0*
	PROCEDURE	Optional	0*
	MEDICAL HISTORY ITEM	Optional	0*

Parent

Data Type	Name	Obligation	Occurrence	
	Event Summary	Optional	01	

CDA R-MIM Representation

Figure 7.8, "Diagnoses/Interventions" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Diagnoses/Interventions section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

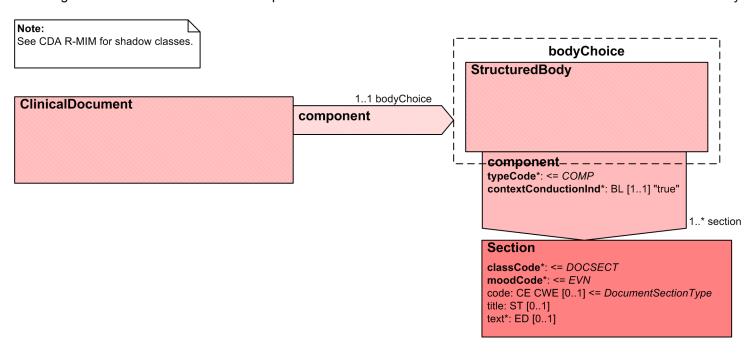


Figure 7.8. Diagnoses/Interventions

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
Diagnoses/Interventions	The current and past medical history of the subject	01	component[diag_int]/section		
	of care which is relevant to the clinical event, this includes problem/diagnosis and medical or surgical		component[diag_int]/section/code		
	procedures performed.		component[diag_int]/section/code/@code="101.16117"		
			component[diag_int]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[diag_int]/section/code/@codeSystemName="NCTIS Data Components"		
			component[diag_int]/section/code/@displayName="Diagnoses/Interventions"		
			component[diag_int]/section/title="Diagnoses/Interventions"		
			component[diag_int]/section/text		See Appendix A, CDA Narratives
Diagnoses/Interventions > Problem/Diagnosis	The problems and/or diagnoses that form part of the current and past medical history of the subject of care.	0*	See: PROBLEM/DIAGNOSIS		
Diagnoses/Interventions > Procedure	A clinical activity carried out for therapeutic, evaluative, investigative, screening or diagnostic purposes.	0*	See: PROCEDURE		
Diagnoses/Interventions > Medical History Item	A medical history entry which cannot be categorised into one of the categories such as Procedure and Problem/Diagnosis.	0*	See: MEDICAL HISTORY ITEM		

Example 7.8. Diagnoses/Interventions XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
   <!-- Begin CDA Header -->
   <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
     <!-- Start Medical History -->
   <component>
     <code code="101.16117" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Diagnoses/Interventions" />
     <title>Diagnoses/Interventions</title>
    <text>Diagnoses/Interventions narrative goes here.
   </section>
   </component>
   <!-- End Medical History -->
   </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4.1 PROBLEM/DIAGNOSIS

Identification

Name Problem/Diagnosis

Metadata Type Data Group Identifier DG-15530

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSES/INTERVENTIONS	Optional	0*

CDA R-MIM Representation

Figure 7.9, "Problem/Diagnosis" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

Each Problem/Diagnosis data group is represented by an Observation related to its containing Section class by an entry relationship. Problem/Diagnosis Identification is mapped to the value on the Observation and the Date of Onset it mapped to effective Time on the Observation. The Date of Resolution/Remission is a subject Observation of the Problem/Diagnosis Observation and the Problem/Diagnosis Comment is a component Act to the same Observation.

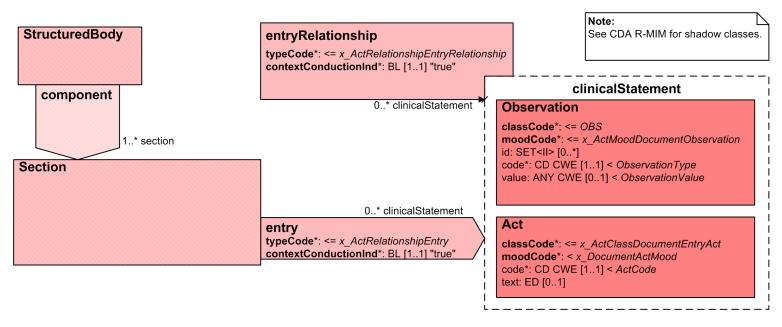


Figure 7.9. Problem/Diagnosis

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>² with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[dia_int]/section		
Problem/Diagnosis	The problems and/or diagnoses that form part of the	0*	entry[prob]		
	current and past medical history of the subject of care.		entry[prob]/observation		
			entry[prob]/observation/@classCode="OBS"		
			entry[prob]/observation/@moodCode="EVN"		
		entry[prob]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>	
			entry[prob]/observation/code		
			entry[prob]/observation/@code="282291009"		
			entry[prob]/observation/@codeSystem="2.16.840.1.113883.6.96"		
			entry[prob]/observation/@codeSystemName="SNOMED CT-AU"		
			entry[prob]/observation/@displayName="Diagnosis interpretation"		
Problem/Diagnosis > Problem/Diagnosis Identification	Identification of the problem or diagnosis.	11	entry[prob]/observation/value:CD	SNOMED CT-AU Problem/Diagnosis Reference Set	See <code> for available attributes.</code>
Problem/Diagnosis > Date of Onset	Estimated or actual date the Problem/Diagnosis began, in the opinion of the clinician.	01	entry[prob]/observation/effectiveTime		See <time> for available attributes.</time>

² http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Problem/Diagnosis > Problem/Diagnos-	Additional narrative about the problem or diagnosis	01	entry[prob]/observation/entryRelationship[cmt]/@typeCode="COMP"		
is Comment not captured in other fields.	not captured in other fields.		entry[prob]/observation/entryRelationship[cmt]/act		
			entry[prob]/observation/entryRelationship[cmt]/act/@classCode="INFRM"		
			entry[prob]/observation/entryRelationship[cmt]/act/@moodCode="EVN"		
			entry[prob]/observation/entryRelationship[cmt]/act/code		
			entry[prob]/observation/entryRelationship[cmt]/act/code/@code="103.16545"		
			entry[prob]/observation/entryRelationship[cmt]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[prob]/observation/entryRelationship[cmt]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[prob]/observation/entryRelationship[cmt]/act/code/@displayName="Problem/Diagnosis Comment"		
			entry[prob]/observation/entryRelationship[cmt]/act/text:ST		

Example 7.9. Problem/Diagnosis XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
  <!-- Begin Diagnoses/Interventions -->
   <component>
    <section>
     <!-- Begin Problem/Diagnosis -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <id root="CF549D3A-EFE1-11E0-88B2-B9284924019B" />
       <code code="282291009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
       displayName="Diagnosis interpretation" />
       <!-- Begin Date of Onset -->
       <effectiveTime value="201112141120+1000" />
       <!-- End Date of Onset -->
       <!-- Begin Problem/Diagnosis Identification -->
       <value code="262562003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
       displayName="deep laceration" xsi:type="CD" />
       <!-- End Problem/Diagnosis Identification -->
       <!-- Begin Problem/Diagnosis Comment -->
       <entryRelationship typeCode="COMP">
        <act classCode="INFRM" moodCode="EVN">
         <code code="103.16545" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
         displayName="Problem/Diagnosis Comment" />
         <text>Deep laceration to his right calf</text>
        </act>
       </entryRelationship>
       <!-- End Problem/Diagnosis Comment -->
     </observation>
     </entry>
     <!-- End Problem/Diagnosis -->
    </section>
   </component>
```

```
<!-- End Diagnoses/Interventions -->
...
</structuredBody>
<component>
<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4.2 PROCEDURE

Identification

NameProcedureMetadata TypeData GroupIdentifierDG-15514

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSES/INTERVENTIONS	Optional	0*

CDA R-MIM Representation

Figure 7.10, "Procedure" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Procedure data group is described by a Procedure which is related to its containing section by an entry. Procedure has one related clinicalStatement, an Act to represent Procedure Comment.

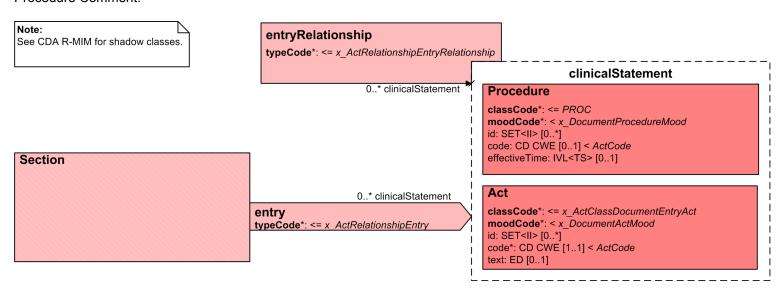


Figure 7.10. Procedure

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements	<u> </u>		Context: ClinicalDocument/component/structuredBody/component[dia_int]/section/		
Procedure	A clinical activity carried out for therapeutic, evaluat-	0*	entry[proc]		
ive, inves	ive, investigative, screening or diagnostic purposes.		entry[proc]/procedure		
			entry[proc]/procedure/@classCode="PROC"		
			entry[proc]/procedure/@moodCode="EVN"		
			entry[proc]/procedure/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
Procedure > Procedure Name	The name of the procedure (to be) performed.	11	entry[proc]/procedure/code	SNOMED CT-AU Procedure foundation reference set	See <code> for available attributes.</code>
Procedure > Procedure Comment	Additional narrative about the procedure not cap-	01	entry[proc]/procedure/entryRelationship[proc_cmt]/@typeCode="COMP"		
	tured in other fields.		entry[proc]/procedure/entryRelationship[proc_cmt]/act		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/@classCode="INFRM"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/@moodCode="EVN"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/code		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/code/@code="103.15595"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/code/@displayName="Procedure Comment"		
			entry[proc]/procedure/entryRelationship[proc_cmt]/act/text:ST		
Procedure > DateTime Started	The start date and/or time for the procedure.	01	entry[proc]/procedure/effectiveTime		See <time> for available attributes.</time>

Example 7.10. Procedure XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
<!-- End CDA Header -->
<!-- Begin CDA Body -->
 <component>
  <structuredBody>
  <!-- Begin Diagnoses/Interventions -->
   <component>
   <section>
     <!-- Begin Procedure -->
     <entry>
      classCode="PROC" moodCode="EVN">
      <id root="4B859322-EFE3-11E0-AB98-842A4924019B" />
      <!-- Begin Procedure Name -->
      <code code="391906003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
       displayName="closure of skin laceration by suture" />
       <!-- end Procedure Name -->
      <!-- Begin DateTime Started -->
       <effectiveTime value="201112141120+1000" />
      <!-- End DateTime Started -->
       <!-- Begin Procedure Comment -->
       <entryRelationship typeCode="COMP">
       <act classCode="INFRM" moodCode="EVN">
        <code code="103.15595" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
         displayName="Procedure Comment" />
        <text>5 x 3\0 sutures under LA</text>
       </act>
       </entryRelationship>
      <!-- End Procedure Comment -->
      </procedure>
     </entry>
     <!-- End Procedure -->
   </section>
   </component>
  <!-- End Diagnoses/Interventions -->
```

```
</structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4.3 MEDICAL HISTORY ITEM

Identification

Name Medical History Item

Metadata Type Data Group Identifier DG-16627

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSES/INTERVENTIONS	Optional	0*

CDA R-MIM Representation

Figure 7.11, "Medical History Item" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Medical History Data Group is represented by an Act related to the Section class by an entry relationship.

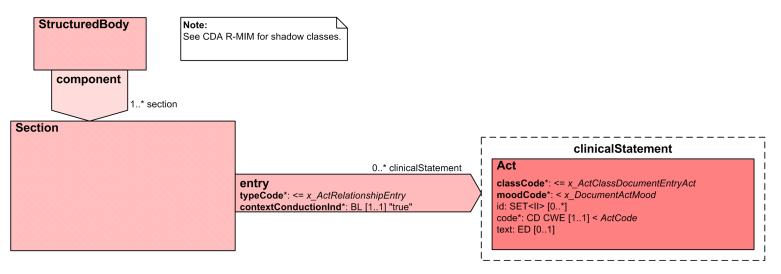


Figure 7.11. Medical History Item

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[dia_int]/section				
Medical History Item	A medical history entry which cannot be categorised	0*	entry				
as a pr	as a procedure or a problem/diagnosis.		entry/act				
			entry/act/@classCode="ACT"				
			entry/act/@moodCode="EVN"				
			entry/act/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>		
			entry/act/code				
			entry/act/code/@code="102.16627 "				
			entry/act/code/@codeSystem="1.2.36.1.2001.1001.101"				
			entry/act/code/@codeSystemName="NCTIS Data Components"				
			entry/act/code/@displayName="Medical History Item"				
Medical History Item > Medical History Item Description	A description of the problem, diagnosis, intervention or other medical history item.	11	entry/act/text:ST				
Medical History Item > Medical History Item Time Interval	The date range during which the item applied or occurred.	01	entry/act/effectiveTime		See <time> for available attributes.</time>		
Medical History Item > Medical History	Free text comments providing additional information	01	entry/act/entryRelationship				
Item Comment	relevant to the item in question		entry/act/entryRelationship/@typeCode="COMP"				
			entry/act/entryRelationship/act				
			entry/act/entryRelationship/act/@classCode="INFRM"				
			entry/act/entryRelationship/act/@moodCode="EVN"				
			entry/act/entryRelationship/act/code				
			entry/act/entryRelationship/act/code/@code="103.16630"				
			entry/act/entryRelationship/act/code/@codeSystem="1.2.36.1.2001.1001.101"				
			entry/act/entryRelationship/act/code/@codeSystemName="NCTIS Data Components"				
			entry/act/entryRelationship/act/code/@displayName="Medical History Item Comment"				
			entry/act/entryRelationship/act/text:ST				

Example 7.11. Other Medical History Item XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
   <!-- Begin Diagnoses/Interventions -->
   <component>
    <section>
     <!-- Begin Medical History Item -->
     <entry>
      <act classCode="ACT" moodCode="EVN">
      <id root="CFAF920E-F2EC-11E0-A9EC-30C04824019B" />
       <code code="102.16627" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
       displayName="Medical History Item" />
       <!-- Begin Medical History Item Description -->
       <text>Sally asked for advice on treating depression.</text>
      <!-- End Medical History Item Description -->
       <!-- Begin Medical History Item Time Interval -->
       <effectiveTime>
        <low value="201112141100+1000"/>
        <high value="201112141120+1000"/>
       </effectiveTime>
       <!-- End Medical History Item Time Interval -->
       <!-- Begin Medical History Item Comment -->
       <entryRelationship typeCode="COMP">
        <act classCode="INFRM" moodCode="EVN">
        <code code="103.16630" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Medical History Comment" />
         <text>Recommendation of psychologists was made.</text>
        </act>
       </entryRelationship>
       <!-- End Medical History Item Comment -->
      </act>
     </entry>
     <!-- End Medical History Item -->
```

```
</section>
</component>
<!-- End Diagnoses/Interventions -->

...

</structuredBody>
<component>

<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.5 IMMUNISATIONS

Identification

Name Immunisations

Metadata Type Section
Identifier S-16638

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	IMMUNISATION	Essential	1*

Parent

Data Type	Name	Obligation	Occurrence	
	Event Summary	Optional	01	

CDA R-MIM Representation

Figure 7.12, "Immunisations" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Immunisations section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

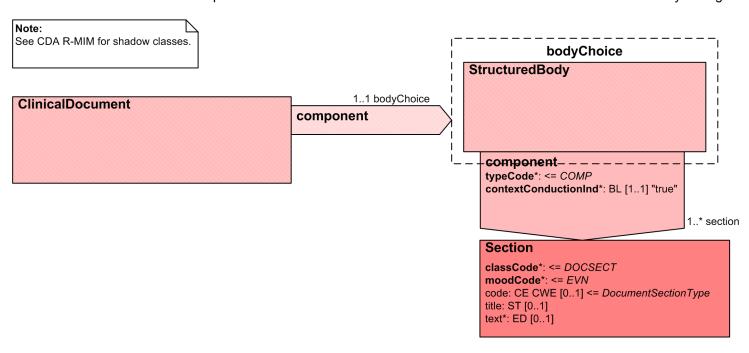


Figure 7.12. Immunisations

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
	Information about the immunisation history of the	01	component[imms]/section		
	subject of care.		component[imms]/section/code		
		component[imms]/section/code/@code="101.16638"			
			component[imms]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[imms]/section/code/@codeSystemName="NCTIS Data Components"		
			component[imms]/section/code/@displayName="Immunisations"		
			component[imms]/section/title="Immunisations"		
			component[imms]/section/text		See Appendix A, CDA Narratives
Immunisations > Immunisation	The act of administering a dose of a vaccine to a person for the purpose of preventing or minimising the effects of a disease by producing immunity and/or to counter the effects of an infectious organism or insult.	1*	See: IMMUNISATION		

Example 7.12. Immunisations XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
<!-- Begin CDA Body -->
 <component>
 <structuredBody>
  <!-- Immunisations Section -->
   <section>
    <code code="101.16638" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Immunisations" />
    <title>Immunisations</title>
     <thead>
        Vaccine Name
       </thead>
      Boostrix(DTPa)
       </text>
     . . .
  </component>
  <!-- End Immunisations Section -->
  </structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.5.1 IMMUNISATION

Identification

Name Administered Immunisation

Metadata Type Data Group Identifier DG-16210

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	IMMUNISATIONS	Optional	0*

CDA R-MIM Representation

Figure 7.13, "Administered Immunisation" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Administered Immunisation data group is described by a SubstanceAdministration which is related to the containing section by an entry...

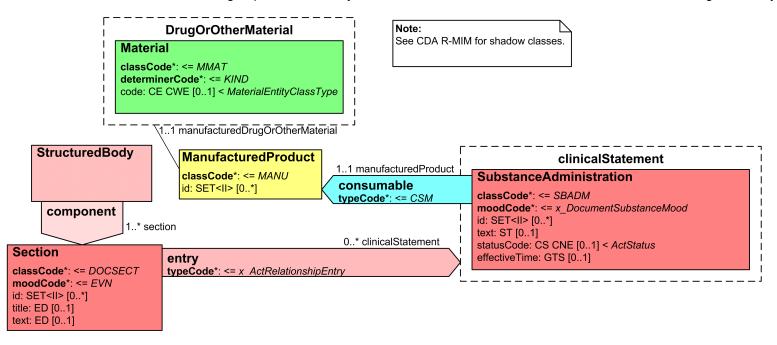


Figure 7.13. Administered Immunisation

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[imms]/section	on	
Immunisation	The act of administering a dose of a vaccine to a	1*	entry[med_act]		
	person for the purpose of preventing or minimising the effects of a disease by producing immunity and/or		entry[med_act]/substanceAdministration		
	to counter the effects of an infectious organism or insult.		entry[med_act]/substanceAdministration/@moodCode="EVN"		
	insuit.		entry[med_act]/substanceAdministration/@classCode="SBADM"		
			entry[med_act]/substanceAdministration/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
Immunisation > Therapeutic Good Identification	The medicine, vaccine or other therapeutic good which was the focus of the action.	11	entry[med_act]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	Australian Medicines Terminology The permissible values are the members of the following AMT reference set: • 929360031000036100 Trade product unit of use reference set	See <code> for available attributes.</code>
Immunisation > Medication Action DateTime	The point in time at which the Medication Action is completed.	11	entry[med_act]/substanceAdministration/effectiveTime		See <time> for available attributes.</time>

Example 7.13. Immunisation XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
     <!-- Begin Immunisations -->
   <component>
   <section>
     <!-- Begin Immunisation -->
     <entry>
      <substanceAdministration classCode="SBADM" moodCode="EVN">
      <id root="0D183538-EFE6-11E0-8B34-CC2D4924019B" />
      <!-- Begin Medication Action DateTime -->
       <effectiveTime value="201112141120+1000" />
       <!-- End Medication Action DateTime -->
      <!-- Begin Therapeutic Good Identification -->
       <consumable>
       <manufacturedProduct>
        <manufacturedMaterial>
         <code code="73929011000036108" codeSystem="1.2.36.1.2001.1004.100"</pre>
          codeSystemName="Australian Medicinces Terminology (AMT)" displayName="Boostrix" />
        </manufacturedMaterial>
       </manufacturedProduct>
       </consumable>
       <!-- End Therapeutic Good Identification -->
      </substanceAdministration>
     </entry>
     <!-- End Immunisation -->
   </section>
  </component>
  <!-- End Immunisations -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
```

</ClinicalDocument>

7.1.6 DIAGNOSTIC INVESTIGATIONS

Identification

Name Diagnostic Investigations

Metadata Type Section
Identifier S-20117

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	PATHOLOGY TEST RESULT	Optional	0*
	IMAGING EXAMINATION RESULT	Optional	0*
	REQUESTED SERVICE	Optional	0*

Parent

Data Type	Name	Obligation	Occurrence
	Event Summary	Optional	01

CDA R-MIM Representation

Figure 7.14, "Diagnostic Investigations" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Diagnostic Investigations section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

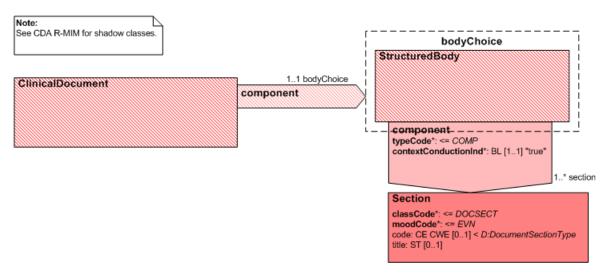


Figure 7.14. Diagnostic Investigations

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/		
Diagnostic Investigations	Describes the diagnostic tests or procedures per-	01	component[diag_inv]/section		
	formed on or requested for the subject of care during the healthcare event, that are considered to be rel-	component[diag_inv]/section component[diag_inv]/section/code component[diag_inv]/section/code/@code="101.20117" component[diag_inv]/section/code/@codeSystem="1.2.36.1.2001.1001.101" component[diag_inv]/section/code/@codeSystemName="NCTIS Data Components" component[diag_inv]/section/code/@displayName="Diagnostic Investigations" component[diag_inv]/section/title="Diagnostic Investigations" e used be sperial or speri			
	evant to the subject of care's ongoing care.		component[diag_inv]/section/code/@code="101.20117"		
			component[diag_inv]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
		compone	component[diag_inv]/section/code/@codeSystemName="NCTIS Data Components"		
			component[diag_inv]/section/code/@displayName="Diagnostic Investigations"		
			component[diag_inv]/section/title="Diagnostic Investigations"		
Diagnostic Investigations > Pathology Test Result	The result of a laboratory test which may be used to record a single valued test but will often be specialised or templated to represent multiple value or 'panel' tests.	0*	See: PATHOLOGY TEST RESULT		
Diagnostic Investigations > Imaging Examination Result	The result of an imaging examination which may be used to record a single valued test but will often be specialised or templated to represent multiple value or 'panel' tests.	0*	See: IMAGING EXAMINATION RESULT		
Diagnostic Investigations > Requested Service	A request for a diagnostic investigation of the subject of care.	0*	See: REQUESTED SERVICE		

Example 7.14. Diagnostic Investigations XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
   <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
   <!-- Begin Diagnostic Investigations -->
   <component>
    <section>
     <code code="101.20117" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Diagnostic Investigations" />
     <title>Diagnostic Investigations</title>
    </section>
   </component>
   <!-- End Diagnostic Investigations -->
    </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.6.1 PATHOLOGY TEST RESULT

Identification

Name Pathology Test Result

Metadata Type Data Group Identifier DG-16144

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	TEST SPECIMEN DETAIL	Essential	1*
	PATHOLOGY TEST RESULT GROUP	Optional	0*

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSTIC INVESTIGATIONS	Optional	0*

CDA R-MIM Representation

Figure 7.15, "Pathology Test Result" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Pathology Test Result data group is a component Section of its containing Section. Related to the Pathology Test Result Section by an entry relationship is an Observation. The Observation.id represents the Laboratory Test Result Identifier, the Observation.code represents the Pathology Test Result Name and Observation.value is the Test Result Representation.

There are five Observations related to the base Pathology Test Result Observation: Diagnostic Service, Overall Pathology Test Result Status, Pathological Diagnosis, Pathology Test Conclusion, Pathology Test Result DateTime.

There are three Acts related to the base Pathology Test Result Observation: Clinical Information Provided, Test Comment and Test Reguest Details.

The Test Request Details has two related Acts of its own which are Test Request Name and Received Order Identifier.

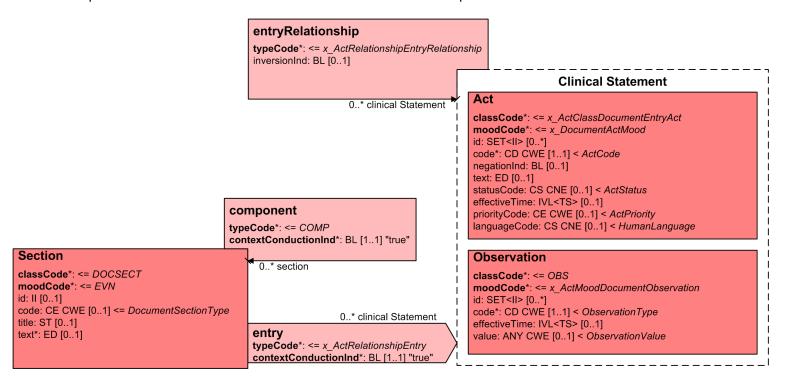


Figure 7.15. Pathology Test Result

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/		
Pathology Test Result	The result of a laboratory test which may be used	0*	component[path_test]/section		
	to record a single valued test but will often be spe- cialised or templated to represent multiple value or		component[path_test]/section/code		
	'panel' tests.		component[path_test]/section/@code="102.16144"		
			component[path_test]/section/@codeSystem="1.2.36.1.2001.1001.101"		
			component[path_test]/section/@codeSystemName="NCTIS Data Components"		
			component[path_test]/section/@displayName="Pathology Test Result"		
			component[path_test]/section/title="Pathology Test Result"		
		component[path_test]/section/text		See Appendix A, CDA Narratives	
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_te	st]/section/	
Pathology Test Result > Pathology Identification of the pathology test performed,	11	entry[path_test_res]/observation			
Test Result Name	sometimes including specimen type.		entry[path_test_res]/observation@classCode="OBS"		
			entry[path_test_res]/observation@moodCode="EVN"		
			entry[path_test_res]/observation/ code	NS	See <code> for available attributes.</code>
Pathology Test Result > Diagnostic	The diagnostic service that performs the examina-	01	entry[path_test_res]/observation/entryRelationship[diag_serv]/@typeCode="COMP"		
Service	tion.		entry[path_test_res]/observation/entryRelationship[diag_serv]/observation		
			entry[path_test_res]/observation/entryRelationship[diag_serv]observation/@classCode="OBS"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code/@code="310074003"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code/@codeSystem= "2.16.840.1.113883.6.96"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code/@codeSystemVersion="20110531"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code/@codeSystemName="SNOMED CT-AU"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/code/@displayName= "pathology service"		
			entry[path_test_res]/observation/entryRelationship[diag_serv]/observation/value:CD	HL7 Diagnositc Service Values (table 0074)	See <code> for available attributes.</code>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Test Specimen Detail	Details about specimens to which this test result refers.	1*	See: TEST SPECIMEN DETAIL.		
Pathology Test Result > Overall	The status of the pathology test result as a whole.	11	entry[path_test_res]/observation/entryRelationship/@typeCode="COMP"		
Pathology Test Result Status			entry[path_test_res]/observation/entryRelationship[res_stat]/observation		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/@classCode="OBS"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code/@code="308552006"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystem= "2.16.840.1.113883.6.96"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemVersi="20110531"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemName= "SNOMED CT-AU"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/code/@displayName="report status"		
			entry[path_test_res]/observation/entryRelationship[res_stat]/observation/value:CD	NCTIS: Admin Codes - Result Status	See <code> for available attributes.</code>
Pathology Test Result > Clinical Inform-	Description of clinical information available at the	01	entry[path_test_res]/observation/entryRelationship[clin_info_prov]/@typeCode="COMP"		
ation Provided	time of interpretation of results, or a link to the original clinical information provided in the test request.		entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act		
	·		entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/@classCode="INFRM"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/code		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/code/@code="55752-0"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/code/@codeSystem= "2.16.840.1.113883.6.1"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/code/@codeSystemName= "LOINC"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/code/@displayName="Clinical information"		
			entry[path_test_res]/observation/entryRelationship[clin_info_prov]/act/text:ST		
Pathology Test Result > Pathology Test Result Group	A group of results.	0*	See: PATHOLOGY TEST RESULT GROUP		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Pathological	Single word, phrase or brief description representing	0*	entry[path_test_res]/observation/entryRelationship[path_diag]/@typeCode="REFR"		
	the diagnostic statement as asserted by the reporting pathologist.		entry[path_test_res]/observation/entryRelationship[path_diag]/observation		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/@classCode="OBS"		
		entry[path_test_res]/observation/entryRelationship[path_diag]/observation/@moodCode="EVN"			
		entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code			
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code/@code="88101002"		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code/@codeSystem="2.16.840.1.113883.6.96"		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code/@codeSystemVersion="20110531"		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code/@codeSystemName= "SNOMED CT-AU"		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/code/@displayName= "pathology diagnosis"		
			entry[path_test_res]/observation/entryRelationship[path_diag]/observation/value:CD[LIST]	NS	The cardinality (0*) of this component is represented by a list of value:CD.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Pathology	Concise and clinically contextualised narrative inter-	01	entry[path_test_res]/observation/entryRelationship[path_conc]/@typeCode="REFR"		
Test Conclusion	pretation of the pathology test results.		entry[path_test_res]/observation/entryRelationship[path_conc]/observation		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/@classCode="OBS"		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code		
			$entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code/\\ @code="386344002" \\$		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code/@codeSystem= "2.16.840.1.113883.6.96"		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code/@codeSystemVersion "20110531"		
			$entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code/\\ @codeSystemName="SNOMED CT-AU"$		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/code/@displayName= "laboratory findings data interpretation"		
			entry[path_test_res]/observation/entryRelationship[path_conc]/observation/value:ST		
Pathology Test Result > Test Result Representation	Rich text representation of the entire result as issued by the diagnostic service. Multiple formats are al- lowed but they must be semantically equivalent.	01	entry[path_test_res]/observation/value:ED		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Test Comment	hology Test Result > Test Comment Additional narrative about the test not captured in other fields.	01	entry[path_test_res]/observation/entryRelationship[tst_cmt]/@typeCode="COMP"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/@classCode="INFRM"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/code		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/@code="103.16468"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/code/@displayName="Test Comment"		
			entry[path_test_res]/observation/entryRelationship[tst_cmt]/act/text:ST		
Pathology Test Result > Test Request	Details concerning a single pathology test requested.	0*	entry[path_test_res]/observation/entryRelationship[req_dets]/@typeCode="SUBJ"		
Details			entry[path_test_res]/observation/entryRelationship[req_dets]/@inversionInd="true"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/@classCode="ACT"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/code		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/code/@code="102.16160"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/code/@displayName="Test Request Details"		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Test Request Details > Test Requested Name	Identification of pathology test requested, where the test requested differs from the test actually per-	0*	entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/ @typeCode="COMP"		
	formed.		entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/@classCode="OBS"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/@moodCode="RQO"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/code		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/code/@code="103.11017"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/code/@displayName="Test Requested Name"		
			entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/value:CD	NS	
Pathology Test Result > Test Request Details > Laboratory Test Result Identifier	The identifier given to the laboratory test result of a pathology investigation.	01	entry[path_test_res]/observation/id		See <id> for available attributes.</id>
Pathology Test Result > Pathology	The date and, optionally, time of the Pathology Test	11	entry[path_test_res]/observation/entryRelationship[tst_date]/@typeCode="COMP"		
Test Result DateTime	Result observation. If the Pathology Test Result Duration is non-zero, it is the time at which the		entry[path_test_res]/observation/entryRelationship[tst_date]/observation		
	Pathology Test Result observation was completed, i.e. the date (and time) of the trailing edge of the		entry[path_test_res]/observation/entryRelationship[tst_date]/observation/@classCode="OBS"		
	Pathology Test Result Duration.		entry[path_test_res]/observation/entryRelationship[tst_date]/observation/@moodCode="EVN"		
			entry[path_test_res]/observation/entryRelationship[tst_date]/observation/code		
			entry[path_test_res]/observation/entryRelationship[tst_date]/observation/code/@code="103.16605"		
			entry[path_test_res]/observation/entryRelationship[tst_date]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
		entry[path_test_res]/observation/entryRelationship[tst_date]/observation/code/@codeSystemName= "NCTIS Data Components"			
			entry[path_test_res]/observation/entryRelationship[tst_date]/observation/code/@displayName="Pathology Test Result DateTime"		
			entry[path_test_res]/observation/entryRelationship[tst_date]/observation/effectiveTime		See <time> for available attributes.</time>

Example 7.15. Pathology Test Result XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
   <structuredBody>
  <!-- Diagnostic Investigations -->
    <component>
     <section>
    <!-- Begin Pathology Test Result -->
    <component>
     <section>
     <code code="102.16144" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
      displayName="Pathology Test Result" />
     <title>Pathology Test Result</title>
      <text>
       <thead>
        Test
         Value
         Units
         Reference Range
         Interpretation
        </thead>
       Serum Creatinine
         0.06
         mmol/L
         0.04-0.11
         N
        Serum Uric Acid
         0.41
         mmol/L
         0.14-0.35
         HH
```

```
</text>
<entry>
<observation classCode="OBS" moodCode="EVN">
 <!-- Begin Laboratory Result Identifier -->
 <id root="8FC201B4-F2FA-11E0-906B-E4D04824019B"/>
 <!-- End Laboratory Result Identifier -->
 <!-- Begin Pathology Test Result Name -->
 <code code="18719-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
  displayName="Chemistry studies (set)" />
 <!-- End Pathology Test Result Name -->
 <!-- Begin Test Result Representation -->
 <value xsi:type="ED" mediaType="application/pdf">
  <reference value="pathresult.pdf" />
 </value>
 <!-- End Test Result Representation -->
 <!-- Begin Diagnostic Service -->
 <entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="310074003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
    codeSystemVersion="20110531" displayName="pathology service" />
   <value code="CH" codeSystem="2.16.840.1.113883.12.74" displayName="Chemistry"</pre>
    xsi:type="CD" />
  </observation>
 </entryRelationship>
 <!-- End Diagnostic Service -->
 <!-- Test Specimen Details -->
 <entryRelationship typeCode="SUBJ">
  <observation classCode="OBS" moodCode="EVN">
  </observation>
 </entryRelationship>
 <!-- End Test Specimen Details -->
 <!-- Begin Overall Pathology Test Result Status -->
 <entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
   <code code="308552006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
    codeSystemVersion="20110531" displayName="Report Status" />
   <value code="3" codeSystem="1.2.36.2001.1001.101.104.16501"</pre>
    codeSystemName="NCTIS Result Status Values" displayName="Final" xsi:type="CD" />
  </observation>
 </entryRelationship>
 <!-- End Overall Pathology Test Result Status -->
 <!-- Begin Clinical Information Provided -->
 <entryRelationship typeCode="COMP">
  <act classCode="INFRM" moodCode="EVN">
   <code code="55752-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
    displayName="Clinical information" />
   <text>Bloods for evaluation.</text>
 </entryRelationship>
 <!-- End Clinical Information Provided -->
 <!-- Pathology Test Result Group -->
 <entryRelationship typeCode="COMP">
  <organizer classCode="BATTERY" moodCode="EVN">
```

</organizer> </entryRelationship> <!-- End Pathology Test Result Group --> <!-- Begin Pathological Diagnosis --> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <code code="88101002" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531" displayName="pathology diagnosis" /> <value code="236425005" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT-AU" displayName="chronic kidney disease" xsi:type="CD" /> </observation> </entryRelationship> <!-- End Pathological Diagnosis --> <!-- Begin Pathology Test Conclusion --> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <id root="060588DE-F2F9-11E0-ABE7-C7CE4824019B" /> <code code="386344002" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531" displayName="laboratory findings data interpretation" /> <value xsi:type="ST">Chronic Kidney Disease.</value> </observation> </entryRelationship> <!-- End Pathology Test Conclusion --> <!-- Begin Test Comment --> <entryRelationship typeCode="COMP"> <act classCode="INFRM" moodCode="EVN"> <code code="103.16468" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="Test Comment" /> <text>Known PKD</text> </entryRelationship> <!-- End Test Comment --> <!-- Begin Test Request Details --> <entryRelationship typeCode="SUBJ" inversionInd="true"> <act classCode="ACT" moodCode="EVN"> <code code="102.16160" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="Test Request Details" /> <!-- Begin Test Requested Name --> <entryRelationship typeCode="COMP"> <observation classCode="OBS" moodCode="ROO"> <code code="103.11017" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="Test Requested Name" /> <value code="275707000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre> displayName="blood serum tests" xsi:type="CD" /> </observation> </entryRelationship> <!-- End Test Requested Name --> </act> </entryRelationship> <!-- End Test Request Details --> <!-- Begin Pathology test Result DateTime --> <entryRelationship typeCode="COMP"> <observation classCode="OBS" moodCode="EVN"> <code code="103.16605" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="Pathology test Result DateTime" /> <effectiveTime value="201112141120+1000"/>

7.1.6.1.1 TEST SPECIMEN DETAIL

Identification

Name Test Specimen Detail

Metadata Type Data Group
Identifier DG-16156.2.2.1

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	PATHOLOGY TEST RESULT	Essential	1*

CDA R-MIM Representation

Figure 7.16, "Test Specimen Detail" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The Test Specimen Detail data group is represented by an Observation related to its containing section by an entry relationship. The Collection Procedure is mapped to the methodCode of the Observation, the Anatomical Location is mapped to the targetSiteCode and the Collection DateTime is represented by the effectiveTime. There is a specimen.specimenRole.playingEntity that contains details about the specimen such as Specimen Tissue Type, Volume, Description and Specimen Identifier. The Container Identifier is mapped to the Container Australian CDA Extension.

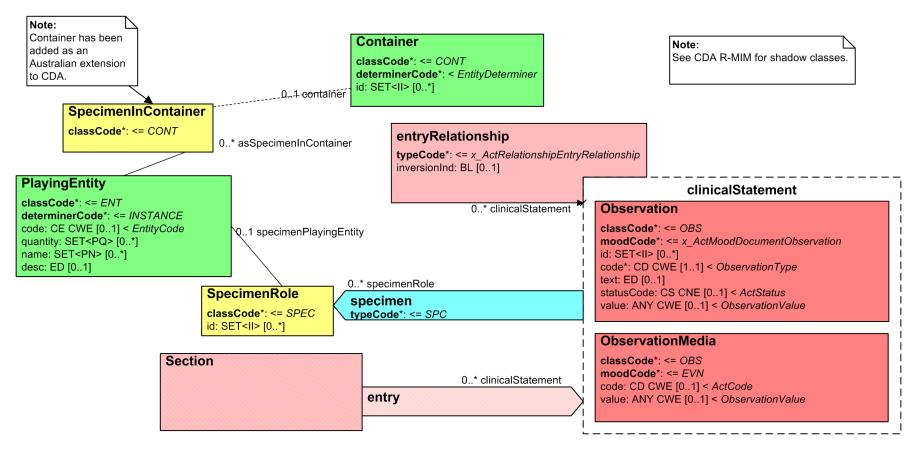


Figure 7.16. Test Specimen Detail

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>³ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_te	est]/section/entry[path_te	est_res]/observation/
Test Specimen Detail	Details about the individual specimen to which these	1*	entryRelationship[spec]/@typeCode="SUBJ"		
	'Result group' test results refer, where testing of multiple specimens is required.		entryRelationship[spec]/observation		
		entryRelationship[spec]/observation/@classCode="OBS"			
			entryRelationship[spec]/observation/@moodCode="EVN"		
			entryRelationship[spec]/observation/code		
			entryRelationship[spec]/observation/code/@code="102.16156.2.2.1"		
			entryRelationship[spec]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[spec]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[spec]/observation/code/@displayName="Test Specimen Detail"		
Test Specimen Detail > Specimen Tissue Type	The type of specimen to be collected.	01	entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/code	NS	See <code> for available attributes.</code>
Test Specimen Detail > Collection Procedure	The method of collection to be used.	01	entryRelationship[spec]/observation/methodCode	NS	See <code> for available attributes.</code>
Test Specimen Detail > Anatomical Site (Anatomical Location)	The anatomical site(s) from where the specimen was taken.	0*	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.

³ http://www.hI7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Test Specimen Detail > Anatomical Site > Specific Location	Specific and identified anatomical location.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Test Specimen Detail > Anatomical Site > Specific Location > Anatomical Location Name	The name of an anatomical location.	01	entryRelationship[spec]/observation/targetSiteCode	SNOMED CT-AU Body Structure Foundation Reference Set	See <code> for available attributes.</code>
Test Specimen Detail > Anatomical Site	The lateraility of an anatomical location.	01	entryRelationship[spec]/observation/targetSiteCode/qualifier		
> Specific Location > Side			entryRelationship[spec]/observation/targetSiteCode/qualifier/name		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/name/@code="78615007"		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/name/@codeSystem= "2.16.840.1.113883.6.96"		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/name/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/name/@codeSystemVersion="20110531"		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/name/@displayName="with laterality"		
			entryRelationship[spec]/observation/targetSiteCode/qualifier/value	SNOMED CT-AU Laterality Reference Set	See <code> for available attributes.</code>
Test Specimen Detail > Anatomical Site > Anatomical Location Description	Description of the Anatomical location.	01	entryRelationship[spec]/observation/targetSiteCode/originalText		

NEHTA SCS Data Compon-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ent	Data Component Demittion	Calu	ODA Schema Data Element	VOCAD	Comments
Test Specimen Detail > Anatomical Site > Anatomical Location Image	Image or images used to identify a location.	0*	entryRelationship[spec]/observation/entryRelationship[ana_im]/@typeCode="SPRT"		The image may or may not be attested to and is therefore mapped to observationMedia.
			entryRelationship[spec]/observation/entryRelationship[ana_im]/observationMedia		
			entryRelationship[spec]/observation/entryRelationship[ana_im]/observationMedia/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[ana_im]/observationMedia/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[ana_imc]/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entryRelationship[spec]/observation/entryRelationship[ana_im]/observationMedia/value		
Test Specimen Detail > Physical Details (Physical Properties of an Object)	Record of physical details such as weight and dimensions, of a body part, device, device, lesion or specimen.	0*	entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity		
Test Specimen Detail > Physical Details > Weight	Weight of the object.	01	entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		Either Weight OR Volume may be used mutually ex- clusive.
Test Specimen Detail > Physical Details > Dimensions	The dimensions of the object.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Test Specimen Detail > Physical Details > Dimensions > Volume	Volume of the object.	01	entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		Either Weight OR Volume may be used mutually ex- clusive.
Test Specimen Detail > Physical Details > Description (Object Description)	A general description of the specimen preparation.	01	entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/desc:ST		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Test Specimen Detail > Physical Details > Image	A picture of the specimen.	01	entryRelationship[spec]/observation/entryRelationship[spec_im]/@typeCode="SPRT"		The image may or may not be attested to and is therefore mapped to observationMedia.
			entryRelationship[spec]/observation/entryRelationship[spec_im]/observationMedia		
			entryRelationship[spec]/observation/entryRelationship[spec_im]/observationMedia/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[spec_im]/observationMedia/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[spe_imc]/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entryRelationship[spec]/observation/entryRelationship[spec_im]/observationMedia/value		
Test Specimen Detail > Collection and handling	Collection and handling requirements.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Test Specimen Detail > Collection and	Any conditions to be met before the sample should	01	entryRelationship[spec]/observation/entryRelationship[smp_pre]/@typeCode="COMP"		
handling > Sampling Preconditions	be taken.		entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/code		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/code/@code="103.16171"		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/code/@codeSystemName="NCTIS Data Components"		_
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/code/@displayName= "Sampling Preconditions"		
			entryRelationship[spec]/observation/entryRelationship[smp_pre]/observation/value:CD	NS	See <code> for available attributes.</code>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Test Specimen Detail > Handling and Processing	Workflow of specimen processing/handling.	11	N/A		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Test Specimen Detail > Handling and Processing > Collection DateTime	The date and time that collection has been ordered to take place or has taken place.	11	entryRelationship[spec]/observation/effectiveTime		See <time> for available attributes.</time>
Test Specimen Detail > Handling and	Identification of the setting at which the specimen	01	entryRelationship[spec]/observation/entryRelationship[coll_set]/@typeCode="COMP"		
Processing > Collection Setting	was collected from a subject of care.		entryRelationship[spec]/observation/entryRelationship[coll_set]/observation		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/code		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/code/@code="103.16529"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/code/@displayName= "Collection Setting"		
			entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/value:ST		
Test Specimen Detail > Handling and	The date and time that the sample was received at	01	entryRelationship[spec]/observation/entryRelationship[date_rec]/@typeCode="COMP"		
Processing > DateTime Received	the laboratory.		entryRelationship[spec]/observation/entryRelationship[date_rec]/observation		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/code		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/code/@code="103.11014"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/code/@displayName= "DateTime Received"		
			entryRelationship[spec]/observation/entryRelationship[date_rec]/observation/value:TS		See <time> for available attributes.</time>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Test Specimen Detail > Identifiers	Sample identifications.	01	N/A		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Test Specimen Detail > Identifiers > Specimen Identifier	Unique identifier of the specimen, normally assigned by the laboratory.	01	entryRelationship[spec]/observation/specimen/specimenRole/id		See <id> for available attributes.</id>
Test Specimen Detail > Identifiers >	Unique identifier of the parent specimen, where the	01	entryRelationship[spec]/observation/entryRelationship[prnt_id]/@typeCode="COMP"		
Parent Specimen Identifier	Specimen Identifier specimen is split into sub-samples.		entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/@classCode="OBS"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/@moodCode="EVN"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/code		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/code/@code="103.16187"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/code/@displayName="Parent Specimen Identifier"		
			entryRelationship[spec]/observation/entryRelationship[prnt_id]/observation/specimen/specimenRole/id		See <id> for available attributes.</id>
Test Specimen Detail > Identifiers > Container Identifier	Unique identifier given to the container in which the specimen is transported or processed.	01	entryRelationship[spec]/observation/specimen/specimenRole/ specimenPlayingEntity/ext:asSpecimenInContainer		See Australian CDA extension: Container
			entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/@classCode="CONT"		
			entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container		
			entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/ext:id		See <id> for available attributes.</id>

Example 7.16. Test Specimen Detail XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
   <!-- Diagnostic Investigations -->
   <component>
    <section>
     <!-- Pathology Test Result -->
     <component>
      <section>
         <!-- Begin Test Specimen Detail -->
         <entryRelationship typeCode="SUBJ">
          <observation classCode="OBS" moodCode="EVN">
           <!-- Begin Specimen Tissue Type -->
           <code code="102.16156.2.2.1" codeSystem="1.2.36.1.2001.1001.101"</pre>
           codeSystemName="NCTIS Data Components" displayName="Test Specimen Detail" />
           <!-- End Specimen Tissue Type -->
           <!-- Begin Specimen Collection DateTime -->
           <effectiveTime value="201112141120+1000" />
           <!-- End Specimen Collection DateTime -->
           <!-- Begin Collection Procedure -->
           <methodCode code="396540005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
           displayName="blood draw" />
           <!-- End Collection Procedure -->
           <!-- Begin Anatomical Location Name -->
           <targetSiteCode code="50496004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
            displayName="cubital fossa">
            <!-- Begin Anatomical Location Description -->
            <originalText>left cubital fossa</originalText>
            <!-- End Anatomical Location Description -->
            <!-- Begin Side -->
            <qualifier>
```

```
<name code="78615007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
  codeSystemVersion="20110531" displayName="with laterality" />
 <value code="7771000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
  displayName="left" />
 </qualifier>
<!-- End Side -->
</targetSiteCode>
<!-- End Anatomical Location Name -->
<!-- Begin Physical Details -->
<specimen>
 <specimenRole>
 <!-- Begin Specimen Identifier -->
 <id root="1.2.3456.123" />
 <!--End Specimen Identifier -->
  <specimenPlayingEntity>
  <code code="SER" codeSystem="2.16.840.1.113883.12.70" displayName="Serum" />
  <!-- Begin Weight/Volume -->
  <quantity unit="mL" value="10" />
  <!-- End Weight/Volume -->
  <!-- Begin Description (Physical Description) -->
  <desc xsi:type="ST">10 mL</desc>
  <!-- End Description (Physical Description) -->
   <!-- Begin Continer Identifier -->
  <ext:asSpecimenInContainer classCode="CONT">
   <ext:container>
    <ext:id root="1.2.123.654321" extension="CNH45218964" />
   </ext:container>
   </ext:asSpecimenInContainer>
  <!-- End Continer Identifier -->
 </specimenPlayingEntity>
</specimenRole>
</specimen>
<!-- End Physical Details -->
<!-- Begin Sampling Preconditions -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
 <code code="103.16171" codeSystem="1.2.36.1.2001.1001.101"</pre>
  codeSystemName="NCTIS Data Components" displayName="Sampling Preconditions" />
 <value code="182923009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
  displayName="fasting patient" xsi:type="CD" />
</observation>
</entryRelationship>
<!-- End Sampling Preconditions -->
<!-- Begin Collection Setting -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
 <code code="103.16529" codeSystem="1.2.36.1.2001.1001.101"</pre>
  codeSystemName="NCTIS Data Components" displayName="Collection Setting" />
 <value xsi:type="ST" value="Pathology Clinic" />
</observation>
</entryRelationship>
<!-- End Collection Setting -->
<!-- Begin DateTime Received -->
<entryRelationship typeCode="COMP">
```

```
<observation classCode="OBS" moodCode="EVN">
            <code code="103.11014" codeSystem="1.2.36.1.2001.1001.101"</pre>
             codeSystemName="NCTIS Data Components" displayName="DateTime Received" />
            <value value="201112141120+1000" xsi:type="TS" />
            </observation>
           </entryRelationship>
           <!-- End DateTime Received -->
           <!-- Begin Parent Specimen Identifier -->
           <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
             <code code="103.16187" codeSystem="1.2.36.1.2001.1001.101"</pre>
             codeSystemName="NCTIS Data Components" displayName="Parent Specimen Identifier" />
             <specimen>
             <specimenRole>
              <id root="1.2.3456.321" />
              </specimenRole>
            </specimen>
            </observation>
           </entryRelationship>
           <!-- End Parent Specimen Identifier -->
           <!-- Begin Anatomical Location Image -->
           <entryRelationship typeCode="SPRT">
            <observationMedia classCode="OBS" moodCode="EVN">
            <id root="62C6AEDE-F08A-11E0-AA3F-10824824019B" />
            <value mediaType="image/jpeg">
             <reference value="location.jpeg" />
             </value>
            </observationMedia>
           </entryRelationship>
           <!-- End Anatomical Location Image -->
           <!-- Begin Specimen Image -->
           <entryRelationship typeCode="SPRT">
            <observationMedia classCode="OBS" moodCode="EVN">
            <id root="62C6AEDE-F08A-11E0-AA3F-10824824019B" />
            <value mediaType="image/jpeg">
             <reference value="specimen.jpeg" />
            </value>
            </observationMedia>
           </entryRelationship>
           <!-- End Specimen Image -->
          </observation>
         </entryRelationship>
        <!-- End Test Specimen Detail -->
      </section>
     </component>
     <!-- End Pathology Test Result -->
   </section>
   </component>
   <!-- End Diagnostic Investigations -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.6.1.2 PATHOLOGY TEST RESULT GROUP

Identification

Name Pathology Test Result Group

Metadata Type Data Group
Identifier DG-16469

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	Result Group Specimen Detail	Optional	01

Parent

Data Type	Name	Obligation	Occurrence
	PATHOLOGY TEST RESULT	Optional	0*

CDA R-MIM Representation

Figure 7.17, "Pathology Test Result Group" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

Pathology Test Result Group is represented by a Organizer related to an Observation by a component relationship. The code on the Organizer holds the Pathology Test Result Group Name. Each Individual Pathology Test Result is mapped to a component Observation whose code is the Individual Pathology Test Result Name, whose value is the Result Value and whose interpretationCode is the Result Value Normal Status. The Reference Range Details are mapped to an ObservationRange class related to the Observation by the ReferenceRange. Individual Pathology Test Result Status is mapped to component Observations off the Organizer.

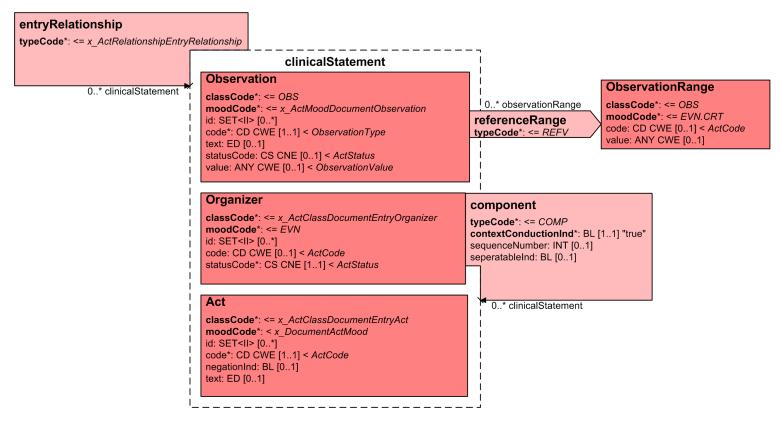


Figure 7.17. Pathology Test Result Group

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_t	 est]/section/entry[path_te	st_res]/observation/
Pathology Test Result Group	A group of results.	0*	entryRelationship[res_gp]/@typeCode="COMP"		
			entryRelationship[res_gp]/organizer		
			entryRelationship[res_gp]/organizer/@classCode="BATTERY"		
			entryRelationship[res_gp]/organizer/@moodCode="EVN"		
			entryRelationship[res_gp]/organizer/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entryRelationship[res_gp]/organizer/statusCode/@code="completed"		Required CDA element.
Pathology Test Result Group > Pathology Test Result Group Name	The name of a group of pathology test results.	11	entryRelationship[res_gp]/organizer/code	NS	See <code> for available attributes.</code>
Pathology Test Result Group > Individu-	Specific detailed result, including both the value of	1*	entryRelationship[res_gp]/organizer/component[ind_res]/		
al Pathology Test Result	the result item, and additional information that may be useful for clinical interpretation.		entryRelationship[res_gp]/organizer/component[ind_res]/observation		
	·		entryRelationship[res_gp]/organizer/component[ind_res]/observation/@classCode="OBS"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/@moodCode="EVN"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
Pathology Test Result Group > Individu- al Pathology Test Result > Individual Pathology Test Result Name	The name of an individual pathology test result.	11	entryRelationship[res_gp]/organizer/component[ind_res]/observation/code	NS	See <code> for available attributes.</code>
Pathology Test Result Group > Individual Pathology Test Result > Individual Pathology Test Result Value	Actual value of the result.	01	entryRelationship[res_gp]/organizer/component[ind_res]/observation/value		Although value is of datatype 'ANY', use only CD, PQ, BL, ST, INT, RTO, IVL_PQ or PPD.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individual Pathology Test Result > Individual Pathology Test Result Value Normal Status	An interpretation of an observation to indicate whether the result is considered normal or abnormal.	01	entryRelationship[res_gp]/organizer/component[ind_res]/observation/interpretationCode	HL7 V3: Observation- InterpretationNormal- ity	See <code> for available attributes.</code>
Pathology Test Result Group > Individual Pathology Test Result > Individual	Tagged reference ranges for this value in its particular measurement context.	0*	entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/@typeCode= "REFV"		
Pathology Test Result Value Reference Range Details			$entry Relationship [res_gp]/organizer/component [ind_res]/observation/reference Range/{\tt observationRange}]/organizer/component [ind_res]/observation/reference Range/{\tt observationRange}]/organizer/compon$		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/observation-Range/classCode="OBS"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/observation-Range/moodCode="EVN.CRT"		
Pathology Test Result Group > Individual Pathology Test Result > Individual Result Value Reference Range Details > Individual Pathology Test Result Value Reference Range Meaning	Term whose value indicates the meaning of this range.	11	entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/observationRange/code	NS	See <code> for available attributes.</code>
Pathology Test Result Group > Individual Pathology Test Result > Individual Result Value Reference Range Details > Individual Pathology Test Result Value Reference Range	The data range for the associated meaning.	11	entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/observationRange/value:IVL_PQ		
Pathology Test Result Group > Individual Pathology Test Result > Individual	Comments that may include statements about significant, unexpected or unreliable values, or informa-	0*	entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/ @typeCode="COMP"		
Pathology Test Result Comment	tion about the source of the value where this may be relevant to the interpretation of the result.		entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/ act/@classCode="INFRM"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/ act/@moodCode="EVN"		
			$entry Relationship [res_gp]/organizer/component [ind_res]/observation/entry Relationship [res_cmt]/act/{\bf code}$		
			$entry Relationship [res_gp]/organizer/component [ind_res]/observation/entry Relationship [res_cmt]/act/code/\\ @code="281296001"$		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act/code/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act/code/@codeSystemVersion="20110531"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act/code/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act/code/@displayName="result comments"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/act/text:ST		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individual Pathology Test Result > Individual	Additional advice on the applicability of the reference range.	01	entryRelationship[res_gp]/organizer/component[ind_res]/observation/ entryRelationship[ref_guide]/@typeCode="COMP"		
Pathology Test Reference Range Guidance			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/@classCode="INFRM"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/ act/@moodCode="EVN"		
			$entry Relationship [res_gp]/organizer/component [ind_res]/observation/entry Relationship [ref_guide]/act/{\bf code}$		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/code/@code="281298000"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/code/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/code/@codeSystemVersion="20110531"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/code/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/code/@displayName="reference range comments"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/text:ST		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individual Pathology Test Result > Individual	The status of the result value.	11	entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/ @typeCode="COMP"		
Pathology Test Result Status			entryRelationship[res_gp]/organizer/component[ind_res]/observation/ entryRelationship[res_stat]/observation		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/@classCode="OBS"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/@moodCode="EVN"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code/@code="308552006"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemVersion="20110531"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/code/@displayName="report status"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_stat]/observation/value:CD	NCTIS: Admin Codes - Result Status	See <code> for available attributes.</code>
Pathology Test Result Group > Result Group Specimen Detail	Details about the individual specimen to which these 'Result group' test results refer, where testing of multiple specimens is required.	01	See: Result Group Specimen Detail		

Example 7.17. Pathology Test Result Group XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
   <!-- Diagnostic Investigations -->
     <component>
      <section>
       <!-- Pathology Test Result -->
       <component>
        <section>
         <!-- Begin Pathology Test Result Group -->
         <entryRelationship typeCode="COMP">
          <organizer classCode="BATTERY" moodCode="EVN">
          <id root="9BE931D2-F085-11E0-9831-1E7C4824019B" />
           <!-- Begin Pathology Test Result Group Name -->
           <code code="18719-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
           displayName="Chemistry studies (set)" />
           <!-- End Pathology Test Result Group Name -->
           <statusCode code="completed" />
           <!-- Begin Individual Pathology Test Result -->
            <observation classCode="OBS" moodCode="EVN">
             <id root="3802BA7A-F086-11E0-8A74-147D4824019B" />
             <!-- Begin Individual Pathology Test Result Name -->
             <code code="14682-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
             displayName="Serum Creatinine" />
             <!-- End Individual Pathology Test Result Name -->
             <!-- Begin Result Value -->
             <value unit="mmol/L" value="0.06" xsi:type="PQ" />
             <!-- End Result Value -->
             <!-- Begin Result Value Normal Status -->
             <interpretationCode code="N" codeSystemName="HL7 ObservationInterpretationNormality"</pre>
```

```
codeSystem="2.16.840.1.113883.5.83"
  displayName="Normal" />
  <!-- End Result Value Normal Status -->
  <!-- Begin Result Comment -->
  <entryRelationship typeCode="COMP">
   <act classCode="INFRM" moodCode="EVN">
    <code code="281296001" codeSystem="2.16.840.1.113883.6.96"</pre>
    codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
    displayName="result comments" />
    <text>Within normal range.</text>
   </act>
  </entryRelationship>
  <!-- End Result Comment -->
  <!-- Begin Reference Range Guidance -->
  <entryRelationship typeCode="COMP">
   <act classCode="INFRM" moodCode="EVN">
   <code code="281298000" codeSystem="2.16.840.1.113883.6.96"</pre>
    codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
    displayName="reference range comments" />
    <text>Within normal range +/- 5% .</text>
   </act>
  </entryRelationship>
  <!-- End Reference Range Guidance -->
  <!-- Begin Individual Pathology Test Result Status -->
  <entryRelationship typeCode="COMP">
   <observation classCode="OBS" moodCode="EVN">
    <code code="308552006" codeSystem="2.16.840.1.113883.6.96"</pre>
    codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
    displayName="report status" />
    <value code="3" codeSystem="1.2.36.1.2001.1001.101.104.16501"</pre>
    codeSystemName="NCTIS Result Status Values" displayName="Final" xsi:type="CD" />
   </observation>
  </entryRelationship>
  <!-- End Individual Pathology Test Result Status -->
  <!-- Begin Result Value Reference Range Details -->
  <referenceRange typeCode="REFV">
   <observationRange classCode="OBS" moodCode="EVN.CRT">
    <!-- Begin Result Value Reference Range Meaning -->
    <code code="260395002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
    displayName="normal range" />
    <!-- End Result Value Reference Range Meaning -->
    <!-- Begin Result Value Reference Range -->
    <value xsi:type="IVL_PQ">
    <lar ><lar </li>
    <high value="0.11" />
    </value>
    <!-- End Result Value Reference Range -->
   </observationRange>
  </referenceRange>
  <!-- End Result Value Reference Range Details -->
 </observation>
</component>
<!-- Begin Individual Pathology Test Result -->
 <observation classCode="OBS" moodCode="EVN">
 <id root="888FBD14-F089-11E0-8B47-D1804824019B" />
```

v 1.2 179

```
<code code="14933-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
           displayName="Serum Uric Acid" />
          <value unit="mmol/L" value="0.41" xsi:type="PQ" />
          <interpretationCode code="HH" codeSystemName="HL7 ObservationInterpretationNormality"</pre>
                                                     codeSystem="2.16.840.1.113883.5.83" displayName="High alert" />
          <entryRelationship typeCode="COMP">
           <act classCode="INFRM" moodCode="EVN">
            <code code="281296001" codeSystem="2.16.840.1.113883.6.96"</pre>
             codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
             displayName="result comments" />
            <text>High alert.</text>
           </act>
          </entryRelationship>
          <entryRelationship typeCode="COMP">
           <act classCode="INFRM" moodCode="EVN">
            <code code="281298000" codeSystem="2.16.840.1.113883.6.96"</pre>
             codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
             displayName="reference range comments" />
            <text>High alert.</text>
           </act>
          </entryRelationship>
          <entryRelationship typeCode="COMP">
           <observation classCode="OBS" moodCode="EVN">
            <code code="308552006" codeSystem="2.16.840.1.113883.6.96"</pre>
             codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
             displayName="report status" />
            <value code="3" codeSystem="1.2.36.1.2001.1001.101.104.16501"</pre>
             codeSystemName="NCTIS Result Status Values" displayName="Final" xsi:type="CD" />
           </observation>
          </entryRelationship>
          <referenceRange typeCode="REFV">
           <observationRange classCode="OBS" moodCode="EVN.CRT">
            <code code="260395002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
            displayName="normal range" />
            <value xsi:type="IVL_PQ">
             <le><low value="0.14" />
             <high value="0.35" />
            </value>
           </observationRange>
          </referenceRange>
         </observation>
        </component>
        . . .
       </organizer>
      </entryRelationship>
      <!-- End Patholgy Test Result Group -->
       </observation>
     </entry>
     </section>
    </component>
  </section>
  </component>
  <!-- End Pathology Test Result -->
 </section>
</component>
<!-- End Diagnostic Investigations -->
```

7.1.6.1.2.1 Result Group Specimen Detail

Identification

Name Result Group Specimen Detail

Metadata Type Data Group

Identifier DG-16156.2.2.2

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	PATHOLOGY TEST RESULT GROUP	Optional	01

CDA R-MIM Representation

Figure 7.18, "Result Group Specimen Detail" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

Result Group Specimen Detail is a data group is represented by an Observation related to its containing section by an entry relationship. The Collection Procedure is mapped to the methodCode of the Observation, the Anatomical Location is mapped to the targetSiteCode and the Collection DateTime is represented by the effectiveTime. There is a specimen.specimenRole.playingEntity that contains details about the specimen such as Specimen Tissue Type, Volume, Description and Specimen Identifier. The Container Identifier is mapped to the Container Australian CDA Extension.

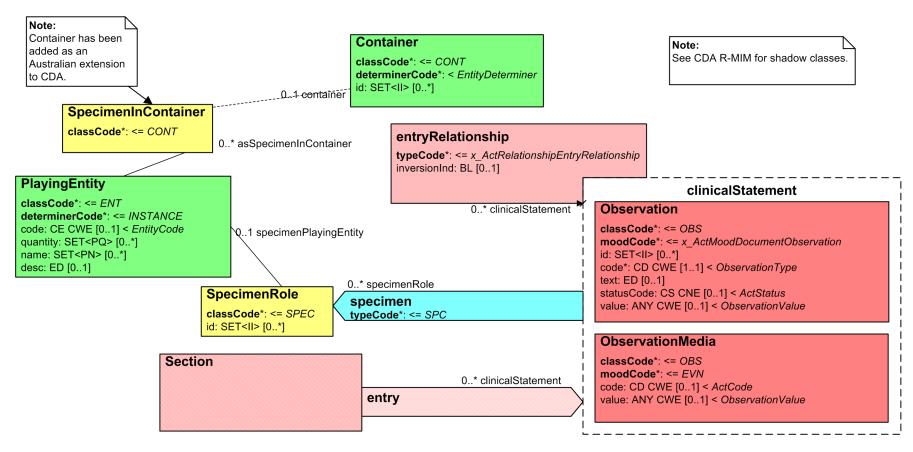


Figure 7.18. Result Group Specimen Detail

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>⁴ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entry[path_test]	t_res]/observation/entryRela	ationship[res_gp]/organizer/
Result Group Specimen Detail	Details about the individual specimen to which these	01	component		
	'Result group' test results refer, where testing of multiple specimens is required.		component/observation		
			component/observation/@classCode="OBS"		
			component/observation/@moodCode="EVN"		
			component/observation/code		
			component/observation/code/@code="102.16156.2.2.2"		
			component/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component/observation/code/@codeSystemName="NCTIS Data Components"		
			component/observation/code/@displayName="Result Group Specimen Detail"		
Result Group Specimen Detail > Specimen Tissue Type	The type of specimen to be collected.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/code	NS	See <code> for available attributes.</code>
Result Group Specimen Detail > Collection Procedure	The method of collection to be used.	01	component/observation/methodCode	NS	See <code> for available attributes.</code>
Result Group Specimen Detail > Anatomical Site (Anatomical Location)	The anatomical site(s) from where the specimen was taken.	0*	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.

⁴ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Anatomical Site > Specific Location	Specific and identified anatomical location.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Result Group Specimen Detail > Anatomical Site > Specific Location > Anatomical Location Name	The name of an anatomical location.	01	component/observation/targetSiteCode	SNOMED CT-AU Body Structure Foundation Reference Set	See <code> for available attributes.</code>
Result Group Specimen Detail > Anatom-	The lateraility of an anatomical location.	01	component/observation/targetSiteCode/qualifier		
ical Site > Specific Location > Side			component/observation/targetSiteCode/qualifier/name		
			component/observation/targetSiteCode/qualifier/name/@code="78615007"		
			component/observation/targetSiteCode/qualifier/name/@codeSystem="2.16.840.1.113883.6.96"		
			component/observation/targetSiteCode/qualifier/name/@codeSystemName="SNOMED CT-AU"		
			component/observation/targetSiteCode/qualifier/name/@codeSystemVersion="20110531"		
			component/observation/targetSiteCode/qualifier/name/@displayName="with laterality"		
			component/observation/targetSiteCode/qualifier/value	SNOMED CT-AU Laterality Reference Set	See <code> for available attributes.</code>
Result Group Specimen Detail > Anatomical Site > Anatomical Location Description	Description of the Anatomical location.	01	component/observation/targetSiteCode/originalText		
Result Group Specimen Detail > Anatomical Site > Anatomical Location Image	Image or images used to identify a location.	0*	component/observation/entryRelationship[ana_im]/@typeCode="SPRT"		The image may or may not be attested to and is therefore mapped to observationMedia.
			component/observation/entryRelationship[ana_im]/observationMedia		
			component/observation/entryRelationship[ana_im]/observationMedia/@classCode="OBS"		
			component/observation/entryRelationship[ana_im]/observationMedia/@moodCode="EVN"		
			component/observation/entryRelationship[ana_imc]/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			component/observation/entryRelationship[ana_im]/observationMedia/value		

Result Group Specimen Detail > Physical Properties of an Object) Result Group Specimen Detail > Physical Properties of an Object) Weight of the object. O.1 component/observation/specimen/specimen/Role/specimen/PlayingEntity/quantity:PQ Either Weight Of Volume may be used mitually exclusive. Result Group Specimen Detail > Physical Properties of an Object) The dimensions of the object. O.1 n/a The dimensions of the object. O.1 n/a Component/observation/specimen/specimen/Role/specimen/PlayingEntity/quantity:PQ Either Weight Of Volume may be used mitually exclusive. This logical NEH data component for an opposite of the object. O.1 component/observation/specimen/specimen/Role/specimen/PlayingEntity/quantity:PQ Either Weight Of Volume may be used mitually exclusive. Result Group Specimen Detail > Physical Playing Specimen Detail > Physical Details > Dimensions > Volume Result Group Specimen Detail > Physical Playing Specimen Detail > Physical Details > Description (Object Description Object Des	NEUTA COOR 1	D : 0	0 1		W I	0 1
Secular Group Specimen Detail > Physical Details > Dimensions	NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Volume may be used multiple	Result Group Specimen Detail > Physical Details (Physical Properties of an Object)		0*	component/observation/specimen/specimenRole/specimenPlayingEntity		
al Details > Dimensions Result Group Specimen Detail > Physic- al Details > Dimensions > Volume Outprotect Details > Dimensions > Volume Outprotect Details > Dimensions > Volume A general description of the specimen preparation. Outprotect Details > Description (Object Description) A general description of the specimen preparation. Outprotect Details > Description (Object Description) A pricture of the specimen. Outprotect Details > Description (Object Description) A pricture of the specimen. Outprotect Details > Description (Object Description) Outprotect Details > Description (Object Description) A pricture of the specimen. Outprotect Details > Description (Object Description) Outprotect Details > De	Result Group Specimen Detail > Physical Details > Weight	Weight of the object.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		used mutually ex-
Result Group Specimen Detail > Physical Details > Description (Object Description) A general description of the specimen preparation. all Details > Description (Object Description) A picture of the specimen. all Details > Image A picture of the specimen. all Details > Image Output Physical Details > Image A picture of the specimen. all Details > Image Output Physical Details Physica	Result Group Specimen Detail > Physical Details > Dimensions	The dimensions of the object.	01	n/a		This logical NEHTA data component has no mapping to CDA.
A general description of the specimen preparation. al Details > Description (Object Description (Object Description) (Object Description) A picture of the specimen. al Details > Description (Object Description) A picture of the specimen. al Details > Image O1 component/observation/entryRelationship[spec_im]/@typeCode="SPRT" A picture of the specimen. al Details > Image O1 component/observation/entryRelationship[spec_im]/@typeCode="SPRT" The image may may not be attest to and is therefore the specimen of the speci						propagates to its
A picture of the specimen. A picture of the specimen. A picture of the specimen. O1 Component/observation/entryRelationship[spec_im]/@typeCode="SPRT" The image may on a tatest to and is therefor mapped to observation/entryRelationship[spec_im]/observationMedia component/observation/entryRelationship[spec_im]/observationMedia/@classCode="OBS" component/observation/entryRelationship[spec_im]/observationMedia/@componed/observationMedia/@compon	Result Group Specimen Detail > Physical Details > Dimensions > Volume	Volume of the object.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		used mutually ex-
may not be attest to and is therefor mapped to observation/entryRelationship[spec_im]/observationMedia component/observation/entryRelationship[spec_im]/observationMedia/@classCode="OBS" component/observation/entryRelationship[spec_im]/observationMedia/@moodCode="EVN" component/observation/entryRelationship[spe_imc]/observationMedia/@moodCode="EVN" component/observation/entryRelationship[spe_imc]/observationMedia/id UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Result Group Specimen Detail > Physical Details > Description (Object Description)	A general description of the specimen preparation.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/desc:ST		
component/observation/entryRelationship[spec_im]/observationMedia/@classCode="OBS" component/observation/entryRelationship[spec_im]/observationMedia/@moodCode="EVN" component/observation/entryRelationship[spe_imc]/observationMedia/id UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Result Group Specimen Detail > Physical Details > Image	A picture of the specimen.	01	component/observation/entryRelationship[spec_im]/@typeCode="SPRT"		The image may or may not be attested to and is therefore mapped to observationMedia.
component/observation/entryRelationship[spe_imc]/observationMedia/@moodCode="EVN" component/observation/entryRelationship[spe_imc]/observationMedia/id UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.				component/observation/entryRelationship[spec_im]/observationMedia		
component/observation/entryRelationship[spe_imc]/observationMedia/id This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.				component/observation/entryRelationship[spec_im]/observationMedia/@classCode="OBS"		
This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.				component/observation/entryRelationship[spec_im]/observationMedia/@moodCode="EVN"		
identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.				component/observation/entryRelationship[spe_imc]/observationMedia/id		See <id> for available attributes.</id>
component/observation/entryRelationship[spec_im]/observationMedia/value					identifier that is used for system purposes such as matching. If a suitable internal key is not available, a	
				component/observation/entryRelationship[spec_im]/observationMedia/value		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Collection and handling	Collection and handling requirements.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Result Group Specimen Detail > Collection and handling > Sampling Precon-	Any conditions to be met before the sample should be taken.	01	component/observation/entryRelationship[smp_pre]/@typeCode="COMP"		
ditions	be taken.		component/observation/entryRelationship[smp_pre]/observation		
			$component/observation/entry Relationship [smp_pre]/observation/ \textbf{@classCode="OBS"}$		
			$component/observation/entry Relationship [smp_pre]/observation/\\ @moodCode="EVN"$		
			component/observation/entryRelationship[smp_pre]/observation/code		
			$component/observation/entry Relationship [smp_pre]/observation/code/ \textbf{@code="103.16171"}$		
			$component/observation/entry Relationship [smp_pre]/observation/code/ \textbf{@codeSystem="1.2.36.1.2001.1001.101"}$		
			$component/observation/entry Relationship [smp_pre]/observation/code/ \textbf{@codeSystemName="NCTISData Components"}$		
			$component/observation/entry Relationship [smp_pre]/observation/code/ \textbf{@displayName="Sampling Preconditions"}$		
			component/observation/entryRelationship[smp_pre]/observation/value:CD	NS	See <code> for available attributes.</code>
Result Group Specimen Detail > Hand- ling and Processing	Workflow of specimen processing/handling.	11	N/A		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Result Group Specimen Detail > Hand- ling and Processing > Collection Date- Time	The date and time that collection has been ordered to take place or has taken place.	11	component/observation/effectiveTime		See <time> for available attributes.</time>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Hand-	Identification of the setting at which the specimen	01	component/observation/entryRelationship[coll_set]/@typeCode="COMP"		
ling and Processing > Collection Set- ting	was collected from a subject of care.		component/observation/entryRelationship[coll_set]/observation		
			component/observation/entryRelationship[coll_set]/observation/@classCode="OBS"		
			component/observation/entryRelationship[coll_set]/observation/@moodCode="EVN"		
			component/observation/entryRelationship[coll_set]/observation/code		
			component/observation/entryRelationship[coll_set]/observation/code/@code="103.16529"		
			component/observation/entryRelationship[coll_set]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			component/observation/entryRelationship[coll_set]/observation/code/@codeSystemName="NCTIS Data Components"		
			component/observation/entryRelationship[coll_set]/observation/code/@displayName="Collection Setting"		
			component/observation/entryRelationship[coll_set]/observation/value:ST		
Result Group Specimen Detail > Hand-	The date and time that the sample was received at	01	component/observation/entryRelationship[date_rec]/@typeCode="COMP"		
ling and Processing > DateTime Received	the laboratory.		component/observation/entryRelationship[date_rec]/observation		
			component/observation/entryRelationship[date_rec]/observation/@classCode="OBS"		
			component/observation/entryRelationship[date_rec]/observation/@moodCode="EVN"		
			component/observation/entryRelationship[date_rec]/observation/code		
			component/observation/entryRelationship[date_rec]/observation/code/@code="103.11014"		
			component/observation/entryRelationship[date_rec]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			component/observation/entryRelationship[date_rec]/observation/code/@codeSystemName="NCTIS Data Components"		
			component/observation/entryRelationship[date_rec]/observation/code/@displayName="DateTime Received"		
			component/observation/entryRelationship[date_rec]/observation/value:TS		See <time> for available attributes.</time>
Result Group Specimen Detail > Identifiers	Sample identifications.	01	N/A		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Result Group Specimen Detail > Identifiers > Specimen Identifier	Unique identifier of the specimen, normally assigned by the laboratory.	01	component/observation/specimen/specimenRole/id		See <id> for available attributes.</id>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Identi-	Unique identifier of the parent specimen, where the	01	component/observation/entryRelationship[prnt_id]/@typeCode="COMP"		
fiers > Parent Specimen Identifier	specimen is split into sub-samples.		component/observation/entryRelationship[prnt_id]/observation		
			component/observation/entryRelationship[prnt_id]/observation/@classCode="OBS"		
			component/observation/entryRelationship[prnt_id]/observation/@moodCode="EVN"		
			component/observation/entryRelationship[prnt_id]/observation/code		
			component/observation/entryRelationship[prnt_id]/observation/code/@code="103.16187"		
			component/observation/entryRelationship[prnt_id]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			component/observation/entryRelationship[prnt_id]/observation/code/@codeSystemName="NCTIS Data Components"		
			component/observation/entryRelationship[prnt_id]/observation/code/@displayName="Parent Specimen Identifier"		
			component/observation/entryRelationship[prnt_id]/observation/specimen/specimenRole/id		See <id> for available attributes.</id>
Result Group Specimen Detail > Identifiers > Container Identifier	Unique identifier given to the container in which the specimen is transported or processed.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer		See Australian CDA extension: Container
			component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/@classCode="CONT"		
			component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container		
			component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/ext:id		See <id> for available attributes.</id>

Example 7.18. Result Specimen Details XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
     <!-- Diagnostic Investigations -->
     <component>
      <section>
       <!-- Pathology Test Result -->
       <component>
        <section>
           <!-- Begin Pathology Result Group -->
           <entryRelationship typeCode="COMP">
            <organizer classCode="BATTERY" moodCode="EVN">
           <!-- Begin Result Group Specimen Detail -->
            <observation classCode="OBS" moodCode="EVN">
             <!-- Begin Specimen Tissue Type -->
             <code code="102.16156.2.2.2" codeSystem="1.2.36.1.2001.1001.101"</pre>
             codeSystemName="NCTIS Data Components" displayName="Result Group Specimen Detail" />
             <!-- End Specimen Tissue Type -->
             <!-- Begin Collection DateTime -->
             <effectiveTime value="201112141120+1000" />
             <!-- End Collection DateTime -->
             <!-- Begin Collection Procedure -->
             <methodCode code="396540005" codeSystem="2.16.840.1.113883.6.96"</pre>
              codeSystemName="SNOMED CT-AU" displayName="blood draw" />
             <!-- End Collection Procedure -->
             <!-- Begin Antomical Location Name -->
             <targetSiteCode code="50496004" codeSystem="2.16.840.1.113883.6.96"</pre>
              codeSystemName="SNOMED CT" displayName="cubital fossa">
```

```
<!-- Begin Anatomical Location Description -->
 <originalText>left cubital fossa</originalText>
 <!-- End Anatomical Location Description -->
 <!-- Begin Side -->
 <qualifier>
 <name code="78615007" codeSystem="2.16.840.1.113883.6.96"</pre>
  codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
  displayName="with laterality" />
 <value code="7771000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
  displayName="left" />
 </gualifier>
 <!-- End Side -->
</targetSiteCode>
<!-- End Antomical Location Name -->
<!-- Begin Physical Details -->
<specimen>
<specimenRole>
 <!-- Begin Specimen Identifier -->
 <id root="1.2.3456.123" />
 <!-- End Specimen Identifier -->
  <specimenPlayingEntity>
  <code code="SER" codeSystem="2.16.840.1.113883.12.70" displayName="Serum" />
   <!-- Begin Weight/Volue -->
  <quantity unit="mL" value="10" />
  <!-- End Weight/Volue -->
  <!-- Begin Description (Physical Details) -->
   <desc xsi:type="ST">10 mL</desc>
  <!-- End Description (Physical Details) -->
   <!-- Begin Container Identifier -->
   <ext:asSpecimenInContainer classCode="CONT">
    <ext:container>
    <ext:id root="1.2.123.654321" />
    </ext:container>
  </ext:asSpecimenInContainer>
  <!-- End Container Identifier -->
 </specimenPlayingEntity>
 </specimenRole>
</specimen>
<!-- End Physical Details -->
<!-- Begin Sampling Preconditions -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
 <code code="103.16171" codeSystem="1.2.36.1.2001.1001.101"</pre>
  codeSystemName="NCTIS Data Components" displayName="Sampling Preconditions" />
 <value code="182923009" codeSystem="2.16.840.1.113883.6.96"</pre>
  codeSystemName="SNOMED CT-AU" displayName="fasting patient" xsi:type="CD" />
 </observation>
</entryRelationship>
<!-- End Sampling Preconditions -->
<!-- Begin Collection Setting -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
 <code code="103.16529" codeSystem="1.2.36.1.2001.1001.101"</pre>
  codeSystemName="NCTIS Data Components" displayName="Collection Setting" />
```

```
<value xsi:type="ST" value="Pathology Clinic" />
      </observation>
     </entryRelationship>
     <!-- End Collection Setting -->
     <!-- Begin DateTime Received -->
     <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
       <code code="103.11014" codeSystem="1.2.36.1.2001.1001.101"</pre>
        codeSystemName="NCTIS Data Components" displayName="DateTime Received" />
       <value value="201112141120+1000" xsi:type="TS" />
      </observation>
     </entryRelationship>
     <!-- End DateTime Received -->
     <!-- Begin Parent Specimen Identifier -->
     <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
       <code code="103.16187" codeSystem="1.2.36.1.2001.1001.101"</pre>
        codeSystemName="NCTIS Data Components" displayName="Parent Specimen Identifier" />
       <specimen>
        <specimenRole>
         <id root="1.2.3456.321" />
        </specimenRole>
       </specimen>
      </observation>
     </entryRelationship>
     <!-- End Parent Specimen Identifier -->
     <!-- Begin Anatomical Location Image -->
     <entryRelationship typeCode="SPRT">
      <observationMedia classCode="OBS" moodCode="EVN">
       <id root="62C6AEDE-F08A-11E0-AA3F-10824824019B" />
       <value mediaType="image/jpeg">
        <reference value="location.jpeg" />
       </value>
      </observationMedia>
     </entryRelationship>
     <!-- End Anatomical Location Image -->
     <!-- Begin Specmien Image -->
     <entryRelationship typeCode="SPRT">
      <observationMedia classCode="OBS" moodCode="EVN">
       <id root="62C6AEDE-F08A-11E0-AA3F-10824824019B" />
       <value mediaType="image/jpeg">
        <reference value="specimen.jpeg" />
       </value>
      </observationMedia>
     </entryRelationship>
     <!-- End Specmien Image -->
    </observation>
   </component>
   <!-- End Result Group Specimen Detail -->
   </organizer>
  </entryRelationship>
  <!-- End Pathology Test Result Group -->
  </observation>
 </entry>
</section>
</component>
```

7.1.6.2 IMAGING EXAMINATION RESULT

Identification

Name Imaging Examination Result

Metadata Type Data Group Identifier DG-16145

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	IMAGING EXAMINATION RESULT GROUP	Optional	0*
	EXAMINATION REQUEST DETAILS	Optional	0*

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSTIC INVESTIGATIONS	Optional	0*

CDA R-MIM Representation

Figure 7.19, "Imaging Examination Result" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Imaging Examination Result data group is a component Section of its containing Section. Related to the Imaging Examination Result Section by an entry relationship is an Observation. The Observation.code represents the Imaging Examination Result Name, the methodCode represents teh Imaging Modality and Observation.text is the Examination Result Representation.

There are three Observations related to the base Imaging Examination Result Observation: Imaging Examination Result DateTime, Findings, and Imaging Examination Result Status.

There are one Act for Clinical Information Provided related to the base Imaging Examination Result Observation.

The Anatomical Location details are contained in the targetSiteCode.

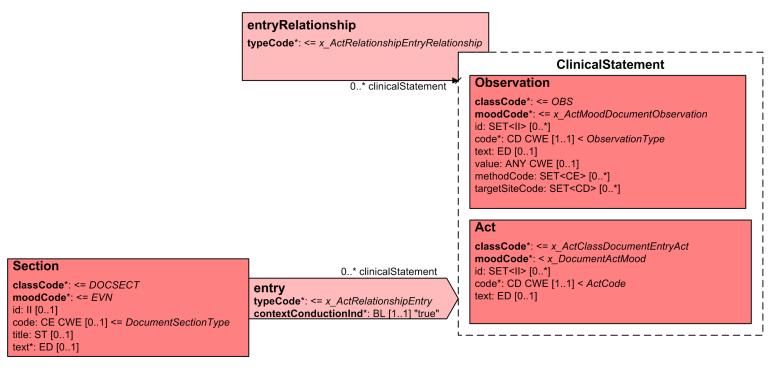


Figure 7.19. Imaging Examination Result

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>⁵ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/			
Imaging Examination Result	The result of an imaging examination which may be	0*	component[img_exam]/section			
	used to record a single valued test but will often be specialised or templated to represent multiple value		component[img_exam]/section/code			
	or 'panel' tests.		component[img_exam]/section/@code="102.16145"			
			component[img_exam]/section/@codeSystem="1.2.36.1.2001.1001.101"			
			component[img_exam]/section/@codeSystemName="NCTIS Data Components"			
			component[img_exam]/section/@displayName="Imaging Examination Result"			
			component[img_exam]/section/title="Imaging Examination Result"			
			component[img_exam]/section/text		See Appendix A, CDA Narratives	
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[img_exam]/section/			
Imaging Examination Result > Imaging	Identification of the imaging examination or proced-	11	entry[img_exam_res]/observation			
Examination Result Name	ure performed, typically including modality and anatomical location (including laterality).		entry[img_exam_res]/observation/@classCode="OBS"			
			entry[img_exam_res]/observation/@moodCode="EVN"			
			entry[img_exam_res]/observation/id			
			entry[img_exam_res]/observation/code	NS	See <code> for available attributes.</code>	
Imaging Examination Result > Imaging Modality	The imaging method used to perform the examination.	01	entry[img_exam_res]/observation/methodCode	NS	See <code> for available attributes.</code>	

⁵ http://www.hI7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Anatomical Site (Anatomical Location)	Details about the anatomical locations to which this examination result refers.	0*	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Imaging Examination Result > Anatomical Site > Specific Location	Specific and identified anatomical location.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Imaging Examination Result > Anatomical Site > Specific Location > Anatomical Location Name	The name of an anatomical location.	01	entry[img_exam_res]/observation/targetSiteCode	SNOMED CT-AU Body Structure Foundation Refer- ence Set	See <code> for available attributes.</code>
Imaging Examination Result > Anatom-	The lateraility of an anatomical location.	01	entry[img_exam_res]/observation/targetSiteCode/qualifier		
ical Site > Specific Location > Side			entry[img_exam_res]/observation/targetSiteCode/qualifier/name		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/name/@code="78615007"		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/name/@codeSystem="2.16.840.1.113883.6.96"		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/name/@codeSystemName="SNOMED CT-AU"		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/name/@codeSystemVersion="20110531"		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/name/@displayName="with laterality"		
			entry[img_exam_res]/observation/targetSiteCode/qualifier/value	SNOMED CT-AU Laterality Reference Set	See <code> for available attributes.</code>
Imaging Examination Result > Anatomical Site > Anatomical Location Description	Description of anatomical location.	01	entry[img_exam_res]/observation/targetSiteCode/ originalText		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments																				
Imaging Examination Result > Anatomical Site > Anatomical Location Image	Image or images used to identify a location.	0*	entry[img_exam_res]/observation/entryRelationship[img]/@typeCode="REFR"		The image may or may not be attested to and is therefore mapped to observationMedia.																				
			entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/observationMedia																						
			entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/@classCode="OBS"																						
			entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/@moodCode="EVN"																						
				entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>																			
			entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/value																						
Imaging Examination Result > Imaging Examination Result Status	The status of the examination result as a whole.	e. 11	entry[img_exam_res]/observation/entryRelationship[res_stat]/@typeCode="COMP"																						
Examination Result Status			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/@classCode="OBS"																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/@moodCode="EVN"																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code/@code="308552006"																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystem= "2.16.840.1.113883.6.96"																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemVersion="20110531"																						
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code/@codeSystemName= "SNOMED CT-AU"																						
																								entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/code/@displayName="report status"	
			entry[img_exam_res]/observation/entryRelationship[res_stat]/observation/value:CD	NCTIS: Admin Codes - Result Status	See <code> for available attributes.</code>																				

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Clinical	Description of clinical information available at the	01	entry[img_exam_res]/observation/entryRelationship[clin_inf]/@typeCode="COMP"		
Information Provided	time of interpretation of results, or a link to the original clinical information provided in the examination		entry[img_exam_res]/observation/entryRelationship[clin_inf]/act		
	request.		entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/@classCode="INFRM"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/@moodCode="EVN"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/code		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/code/@code="55752-0"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/code/@codeSystem= "2.16.840.1.113883.6.1"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/code/@codeSystemName="LOINC"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/code/@displayName="Clinical information"		
			entry[img_exam_res]/observation/entryRelationship[clin_inf]/act/text:ST		
Imaging Examination Result > Findings	maging Examination Result > Findings Narrative description of findings, including comparative findings.	- 01	entry[img_exam_res]/observation/entryRelationship[find]/@typeCode="REFR"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/@classCode="OBS"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/@moodCode="EVN"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>
			entry[img_exam_res]/observation/entryRelationship[find]/observation/code		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/code/@code="103.16503"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/code/@displayName="Findings"		
			entry[img_exam_res]/observation/entryRelationship[find]/observation/text:ST		
Imaging Examination Result > Imaging Examination Result Group	A group of structured results.	0*	See: IMAGING EXAMINATION RESULT GROUP.		
Imaging Examination Result > Examination Result Representation	Rich text representation of the entire result as issued by the diagnostic service.	01	entry[img_exam_res]/observation/text		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Examination Request Details	Details concerning a single examination requested.	0*	See: EXAMINATION REQUEST DETAILS		
Imaging Examination Result > Imaging Examination Result DateTime	The date and, optionally, time when the Imaging Examination Result became available.	11	entry[img_exam_res]/observation/entryRelationship[res_date]/@typeCode="COMP"		See <time> for available attributes.</time>
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/@classCode="OBS"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/@moodCode="EVN"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/code		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/code/@code="103.16589"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/code/@codeSystemName="NC-TIS Data Components"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/code/@displayName="Imaging Examination Result DateTime"		
			entry[img_exam_res]/observation/entryRelationship[res_date]/observation/effectiveTime		See <time> for available attributes.</time>

Example 7.19. Imaging Examination Result XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
<!-- Begin CDA Header -->
<!-- End CDA Header -->
<!-- Begin CDA Body -->
 <component>
 <structuredBody>
  <!-- Diagnostic Investigations -->
  <component>
   <section>
    <!-- Begin Imaging Examination Result -->
    <component>
     <section>
      <code code="102.16145" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
       displayName="Imaging Examination Result" />
      <title>Imaging Examination Result</title>
      <text>
       <thead>
         Imaging Examination
          Result
          Result Status
         </thead>
        Chest X-ray
           <paragraph>The lungs and pleura appear clear.
           <paragraph>Cardiac and mediastinal contours are within normal limits./paragraph>
          Normal
         </text>
       <observation classCode="OBS" moodCode="EVN">
        <id root="D3C0BC62-F08D-11E0-A994-06864824019B" />
        <!-- Begin Imaging Examination Result Name -->
        <code code="399208008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
        displayName="chest x-ray" />
        <!-- End Imaging Examination Result Name -->
```

v 1.2 201

```
<!-- Begin Examination Result Representation -->
<text mediaType="application/pdf">
<reference value="result.pdf" />
<!-- End Examination Result Representation -->
<!-- Begin Imaging Modality -->
<methodCode code="363680008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
displayName="x-ray" />
<!-- End Imaging Modality -->
<!-- Begin Anatomical Location Name -->
<targetSiteCode code="51185008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
codeSystemVersion="20110531" displayName="thorax">
<!-- Begin Anatomical Location Description -->
<originalText>Chest/Thorax</originalText>
<!-- End Anatomical Location Description -->
<!-- Begin Side (if appropriate) -->
 <qualifier>
  <name code="78615007" codeSystem="2.16.840.1.113883.6.96"</pre>
  codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
  displayName="with laterality" />
  <value code="7771000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
  displayName="left" />
 </qualifier>
<!-- End Side -->
</targetSiteCode>
<!-- End Anatomical Location Name -->
<!-- Begin Anatomical Location Image -->
<entryRelationship typeCode="REFR">
 <observationMedia classCode="OBS" moodCode="EVN">
 <id root="1E311BD0-F092-11E0-8852-0E8B4824019B" />
  <value mediaType="image/jpeg">
  <reference value="location.jpeg" />
 </value>
 </observationMedia>
</entryRelationship>
<!-- End Anatomical Location Image -->
<!-- Begin Imaging Examination result Status -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
 <code code="308552006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
  codeSystemVersion="20110531" displayName="report status" />
  <value code="3" codeSystem="1.2.36.1.2001.1001.101.104.16501"</pre>
  codeSystemName="NCTIS Result Status Values" displayName="Final" xsi:type="CD" />
 </observation>
</entryRelationship>
<!-- End Imaging Examination result Status -->
<!-- Begin Clinical Information Provided -->
<entryRelationship typeCode="COMP">
<act classCode="INFRM" moodCode="EVN">
 <code code="55752-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"</pre>
  displayName="Clinical Information" />
 <text>Fluid Retention.</text>
</entryRelationship>
<!-- End Clinical Information Provided -->
```

```
<!-- Begin Findings -->
         <entryRelationship typeCode="REFR">
          <observation classCode="OBS" moodCode="EVN">
          <id root="D1ECC286-F093-11E0-9BC8-508D4824019B" />
           <code code="103.16503" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Findings" />
           <text>The lungs and pleura appear clear. Cardiac and mediastinal contours are within normal
           limits.</text>
          </observation>
         </entryRelationship>
         <!-- End Findings -->
         <!-- Imaging Examination Result Group -->
         <entryRelationship typeCode="COMP">
          <organizer classCode="BATTERY" moodCode="EVN">
          </organizer>
         </entryRelationship>
         <!-- End Imaging Examination Result Group -->
         <!-- Examination Request Details -->
         <entryRelationship typeCode="SUBJ" inversionInd="true">
         <act classCode="ACT" moodCode="EVN">
          </act>
         </entryRelationship>
         <!-- End Examination Request Details -->
         <!-- Begin Imaging Examination Result DateTime -->
         <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
          <code code="103.16589" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Imaging Examination Result DateTime" />
          <effectiveTime value="201112141120+1000" />
          </observation>
         </entryRelationship>
        <!-- End Imaging Examination Result DateTime -->
       </observation>
      </entry>
      </section>
     </component>
     <!-- End Imaging Examination Result -->
   </section>
  </component>
  <!-- End Diagnositc Investigations -->
 </structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

v 1.2 203

7.1.6.2.1 IMAGING EXAMINATION RESULT GROUP

Identification

Name Imaging Examination Result Group

Metadata Type Data Group
Identifier DG-16504

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	IMAGING EXAMINATION RESULT	Optional	0*

CDA R-MIM Representation

Figure 7.20, "Imaging Examination Result Group" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Imaging Examination Result Group is represented by a Organizer related to an Observation by a component relationship. The code on the Organizer holds the Imaging Examination Result Group Name. Each Individual Imaging Examination Result is mapped to a component Observation whose code is the Individual Imaging Examination Result Name, whose value is the Result Value and whose interpretationCode is the Result Value Normal Status. The Reference Range Details are mapped to an ObservationRange class related to the Observation by the ReferenceRange. The Anatomical Site details are mapped to the targetSiteCode of a component Organisation.

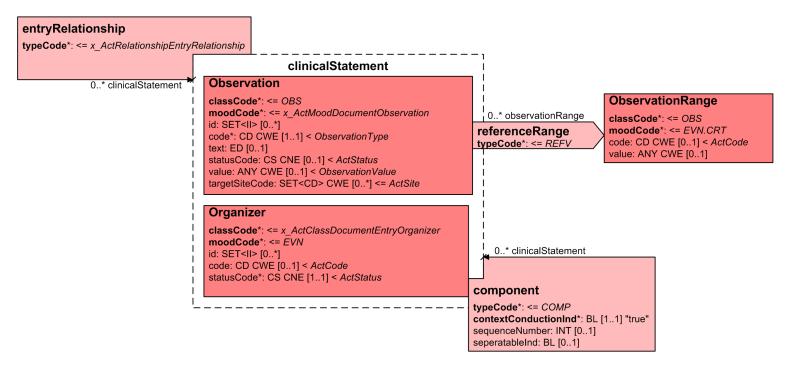


Figure 7.20. Imaging Examination Result Group

v 1.2 205

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>⁶ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[img_example.component]	am]/section/entry[img_ex	am_res]/observation/
Imaging Examination Result Group	A group of structured results.	0*	entryRelationship[im_res_gp]/@typeCode="COMP"		
			entryRelationship[im_res_gp]/organizer		
			entryRelationship[im_res_gp]/organizer/@classCode="BATTERY"		
			entryRelationship[im_res_gp]/organizer/@moodCode="EVN"		
			entryRelationship/[im_res_gp]/organizer/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entryRelationship/[im_res_gp]/organizer/statusCode="completed"		Required CDA element.
Imaging Examination Result Group > Imaging Examination Result Group Name	The name of a group of structured results.	11	entryRelationship[im_res_gp]/organizer/code	NS	See <code> for available attributes.</code>

⁶ http://www.hI7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result Group >	Specific detailed result, including both the value of	1*	entryRelationship[im_res_gp]/organizer/component[ind_im_res]		
Individual Imaging Examination Result	the result item and additional information that may be useful for clinical interpretation.		entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/@classCode="OBS"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/@moodCode="EVN"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
Imaging Examination Result Group > Individual Imaging Examination Result > Individual Imaging Examination Result Name	The name of a specific detailed result.	11	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/code	NS	See <code> for available attributes.</code>
Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value	Actual value of the result.	01	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/value		Although value is datatype 'ANY', use only CD, PQ.
Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Normal Status	An interpretation of an observation to indicate whether the result is considered normal or abnormal.	01	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/interpretationCode	HL7 V3: Observation- InterpretationNormal- ity	See <code> for available attributes.</code>
Imaging Examination Result Group > Individual Imaging Examination Result		0*	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/ @typeCode= "REFV"		
> Imaging Examination Result Value Reference Range Details			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/classCode="OBS"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/moodCode="EVN.CRT"		
Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Reference Range Details > Imaging Examination Result Value Reference Range Meaning	Term whose value indicates the meaning of this range.	11	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/code	NS	See <code> for available attributes.</code>
Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Reference Range Details > Imaging Examination Result Value Reference Range	The data range for the associated meaning.	11	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/value:IVL_PQ		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result Group > Individual Imaging Examination Result	ted or unreliable values, or information about the	0*	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/ entryRelationship/@typeCode="COMP"		
> Result Comment	source of the value where this may be relevant to the interpretation of the result.		entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/@classCode="INFRM"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/@moodCode="EVN"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code/@code="281296001"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code/@codeSystemVersion="20110531"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/code/@displayName="result comments"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship/act/text:ST		
Imaging Examination Result Group > Anatomical Location	Details about the individual anatomical location to which these 'Result group' examination results refer, where finer-grained representation of Anatomical leasting in required.	01	n/a		This logical NEHTA data component has no mapping to CDA.
	location is required.				The cardinality of this component propagates to its children.
Imaging Examination Result Group > Anatomical Location > Specific Location	Specific and identified anatomical location.	01	n/a		This logical NEHTA data component has no mapping to CDA.
				The cardinality of this component propagates to its children.	
Imaging Examination Result Group > Anatomical Location > Specific Location > Anatomical Location Name	The name of an anatomical location.	01	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode	SNOMED CT-AU Body Structure Foundation Refer- ence Set	See <code> for available attributes.</code>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result Group >	The lateraility of an anatomical location.	01	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier		
Anatomical Location > Specific Location > Side			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name/@code="78615007"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name/@codeSystemVersion="20110531"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/name/@displayName="with laterality"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/value	SNOMED CT-AU Laterality Reference Set	See <code> for available attributes.</code>
Imaging Examination Result Group > Anatomical Location > Anatomical Location Description	Description of anatomical location.	01	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/originalText		
Imaging Examination Result Group > Anatomical Location > Anatomical	Image or images used to identify a location. 0*	0*	entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/ entryRelationship[img]/@typeCode="REFR"		
Location Image			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia/@classCode="OBS"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia/@moodCode="EVN"		
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia/value		

Example 7.20. Imaging Examination Result Group XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
   <!-- Diagnostic Investigations -->
  <component>
   <section>
     <!-- Imaging Examination Result -->
     <component>
     <section>
         <!-- Begin Imaging Examination Result Group -->
         <entryRelationship typeCode="COMP">
          <organizer classCode="BATTERY" moodCode="EVN">
           <id root="061116F4-F097-11E0-BF4C-10914824019B" />
           <!-- Begin Imaging Examination Result Group Name -->
           <code code="399208008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
           displayName="chest x-ray" />
           <!-- Begin Imaging Examination Result Group Name -->
           <statusCode code="completed" />
           <!-- Begin Individual Imaging Examination Result -->
           <component>
            <observation classCode="OBS" moodCode="EVN">
             <id root="2C600DDA-F09A-11E0-9BDE-8D944824019B" />
             <!-- Begin Individual Imaging Examination Result Name -->
             <code nullFlavor="UNK">
              <originalText>Cardiothoricic Ratio</originalText>
             </code>
             <!-- End Individual Imaging Examination Result Name -->
             <!-- Begin Result Value -->
             <value value="0.45" xsi:type="PO" />
             <!-- En Result Value -->
             <!-- Begin Result Value Normal Status -->
             <interpretationCode code="N" codeSystemName="HL7 ObservationInterpretationNormality"</pre>
```

codeSystem="2.16.840.1.113883.5.83" displayName="Normal" /> <!-- End Result Value Normal Status --> <!-- Begin Anatomical Location Name --> <targetSiteCode code="80891009" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT" displayName="heart"> <!-- Begin Anatomical Location Description --> <originalText>Heart</originalText> <!-- Begin Anatomical Location Description --> <!-- Begin Side (if appropriate) --> <qualifier> <name code="78615007" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531" displayName="with laterality" /> <value code="7771000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre> displayName="left" /> </gualifier> <!-- End Side --> </targetSiteCode> <!-- End Anatomical Location Name --> <!-- Begin Anatomical Location Image --> <entryRelationship typeCode="REFR"> <observationMedia classCode="OBS" moodCode="EVN"> <id root="218F125E-F304-11E0-99C9-46DC4824019B" /> <value mediaType="image/jpeg"> <reference value="location.jpeg" /> </value> </observationMedia> </entryRelationship> <!-- End Anatomical Location Image --> <!-- Begin Result Comment --> <entryRelationship typeCode="COMP"> <act classCode="INFRM" moodCode="EVN"> <code code="281296001" codeSystem="2.16.840.1.113883.6.96"</pre> codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531" displayName="result comments" /> <text>CTR within normal limits.</text> </act> </entryRelationship> <!-- End Result Comment --> <!-- Begin Result Value Reference Range Details --> <referenceRange typeCode="REFV"> <observationRange classCode="OBS" moodCode="EVN.CRT"> <!-- Begin Result Value Reference Range Meaning --> <code code="260395002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre> displayName="normal range" /> <!-- End Result Value Reference Range Meaning --> <!-- Begin Result Value Reference Range --> <value xsi:type="IVL_PQ"> <low value="0.25" /> <high value="0.50" /> <!-- End Result Value Reference Range --> </observationRange> </referenceRange> <!-- End Result Value Reference Range Details -->

```
</observation>
          </component>
          <!-- End Individual Imaging Examination Result -->
         </organizer>
        </entryRelationship>
        <!-- End Imaging Examination Result Group -->
      </section>
    </component>
    <!-- End Imaging Examination Result -->
   </section>
  </component>
  <!-- End Diagnositc Investigations -->
 </structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.6.2.2 EXAMINATION REQUEST DETAILS

Identification

Name Examination Request Details

Metadata Type Data Group
Identifier DG-16511

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	IMAGING EXAMINATION RESULT	Optional	0*

CDA R-MIM Representation

Figure 7.21, "Examination Request Details" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Examination Request Details data group maps to a component Act of a containing Observation. The Examination Requested Name is mapped to a component Observation and the Report Identifier is also mapped to a component Observation. The Receiver Order Identifier and the DICOM Study Identifier are mapped to related Acts. The Image Details are mapped to a component Act whose id is the Image Identifier, whose value is the Image View Name and whose effective Time is the Image Date Time. The DICOM Series Identifier is mapped to a component Act. The Image is mapped to a related Observation Media class.

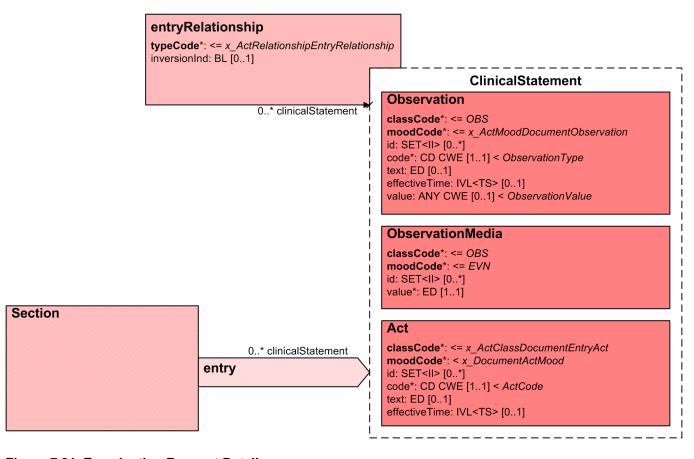


Figure 7.21. Examination Request Details

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>⁷ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[img_exa	m]/section/entry[img_ex	am_res]/observation/
Examination Request Details	Details concerning a single examination requested.	0*	entryRelationship[exam_req]/@typeCode="SUBJ"		
			entryRelationship[exam_req]/@inversionInd="true"		
			entryRelationship[exam_req]/act		
			entryRelationship[exam_req]/act/@classCode="ACT"		
			entryRelationship[exam_req]/act/@moodCode="EVN"		
			entryRelationship[exam_req]/act/ code		
			entryRelationship[exam_req]/act/code/@code="102.16511"		
			entryRelationship[exam_req]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/code/@displayName="Examination Request Details"		

⁷ http://www.hI7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Examination Request Details > Examin-	Identification of imaging examination or procedure	0*	entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/@typeCode="REFR"		
ation Requested Name	requested, where the examination requested differs from the examination actually performed.		entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/@classCode="OBS"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/code		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/code/@code= "103.16512"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/code/@displayName="Examination Requested Name"		
			entryRelationship[exam_req]/act/entryRelationship[im_req_exam_nm]/observation/text:ST		
Imaging Examination Result > Examination Request Details > DICOM Study	Unique identifier of this study allocated by the imaging service.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/@typeCode="SUBJ"		See <id> for available attributes.</id>
Identifier			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/@classCode="ACT"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/code		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/code/@code="103.16513"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/code/@displayName="DICOM Study Identifier"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/id		See <id> for available attributes.</id>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Examination Request Details > Report	The local identifier given to the imaging examination	01	entryRelationship[exam_req]/act/entryRelationship/@typeCode="COMP"		
Identifier	report.		entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/@classCode="OBS"		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/id		See <id> for available attributes.</id>
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/code		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/code/@code="103.16514"		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/code/@codeSystemName= "NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[im_rep_id]/observation/code/@displayName="Report Identifier"		
Examination Request Details > Image Details	Images referred to, or provided, to assist clinical understanding of the examination.	0*	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/ @typeCode="COMP"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/@classCode="OBS"		
			$entry Relationship [exam_req]/act/entry Relationship [exam_perf]/act/entry Relationship [img_det]/observation/@moodCode="EVN" \\$		
			$\begin{tabular}{ll} entry Relationship [exam_req]/act/entry Relationship [exam_perf]/act/entry Relationship [img_det]/observation/{\bf code} \end{tabular} \label{table}$		
			$\label{lem:code} entry Relationship [exam_req]/act/entry Relationship [exam_perf]/act/entry Relationship [img_det]/observation/code/@code="103.16515"$		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/code/@displayName="Image Details"		
Examination Request Details > Image Details > Image Identifier	Unique identifier of this image allocated by the imaging service (often the DICOM image instance UID).	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/id		See <id> for available attributes.</id>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Examination Request Details > Image Details > DICOM Series Identifier	Unique identifier of this series allocated by the imaging service.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/@typeCode="REFR"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/@classCode="ACT"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/@moodCode="EVN"		
			$entry Relationship [exam_req]/act/entry Relationship [exam_perf]/act/entry Relationship [img_det]/observation/entry Relationship [dicom_ser]/act/id$		See <id> for available attributes.</id>
					NB. The DICOM Series Identifier is placed in the root attribute.
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/code		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/code/@code="103.16517"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/code/@displayName="DICOM Series Identifier"		
Examination Request Details > Image Details > Image View Name	The name of the imaging view e.g Lateral or Anteroposterior (AP).	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/value:CD	NS	See <code> for available attributes.</code>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Examination Request Details > Image Details > Subject Position	Description of the subject of care's position when the image was performed.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/@typeCode="REFR"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/@classCode="OBS"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/code		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/code/@code="103.16519"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/code/@displayName="Subject Position"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[sub_pos]/observation/value:ST		
Examination Request Details > Image Details > Image DateTime	Specific date/time the imaging examination was performed.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/effectiveTime		See <time> for available attributes.</time>

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Examination Request Details > Image Details > Image	An attached or referenced image of a current view.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/@typeCode="SPRT"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/observationMedia		The image may or may not be attested to and is therefore mapped to observationMedia.
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/observationMedia/@classCode="OBS"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/observationMedia/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/observationMedia/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id>for available attributes.</id>
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship/observationMedia/value:ED		

Example 7.21. Imaging Examination Result XML Fragment

<!-- This example is provided for illustrative purposes only. It has had no clinical validation. While every effort has been taken to ensure that the examples are consistent with the message specification, where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence --> <ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" <!-- Begin CDA Header --> <!-- End CDA Header --> <!-- Begin CDA Body --> <component> <structuredBody> <!-- Diagnostic Investigations --> <component> <section> <!-- Imaging Examination Result --> <component> <section> <!-- Begin Examination Request Details --> <entryRelationship inversionInd="true" typeCode="SUBJ"> <act classCode="ACT" moodCode="EVN"> <code code="102.16511" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre> displayName="Examination Request Details" /> <!-- Begin Examination Requested Name --> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <code code="103.16512" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="Examination Requested Name" /> <text>Chest X-ray</text> </observation> </entryRelationship> <!-- End Examination Requested Name --> <!-- Begin DICOM Study Identifier --> <entryRelationship typeCode="SUBJ"> <act classCode="ACT" moodCode="EVN"> <id root="1.2.312.1264.124654654.12456456301" /> <code code="103.16513" codeSystem="1.2.36.1.2001.1001.101"</pre> codeSystemName="NCTIS Data Components" displayName="DICOM Study Identifier" /> <!-- Begin Image DateTime --> <effectiveTime value="201012141120+1000" /> <!-- End Image DateTime --> <!-- Begin Image Details --> <entryRelationship typeCode="COMP">

```
<observation classCode="OBS" moodCode="EVN">
    <!-- Begin Image Identifier -->
    <id root="1.2.3.4.5.123654789654" />
   <!-- End Image Identifier -->
    <code code="103.16515" codeSystem="1.2.36.1.2001.1001.101"</pre>
    codeSystemName="NCTIS Data Components" displayName="Image Details" />
    <!-- Begin Image DateTime -->
    <effectiveTime value="201012141120+1000"/>
    <!-- End Image DateTime -->
    <!-- Begin Image View Name -->
    <value code="67632007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
    displayName="diagnostic radiography of chest, PA" xsi:type="CD" />
    <!-- End Image View Name -->
    <!-- Begin DICOM Series Identifier -->
    <entryRelationship typeCode="REFR">
    <act classCode="ACT" moodCode="EVN">
     <id root="1.2.3.1.2.2654654654654564" />
     <code code="103.16517" codeSystem="1.2.36.1.2001.1001.101"</pre>
      codeSystemName="NCTIS Data Components" displayName="DICOM Series Identifier"/>
     </act>
    </entryRelationship>
    <!-- End DICOM Series Identifier -->
    <!-- Begin Subject Position -->
    <entryRelationship typeCode="REFR">
     <observation classCode="OBS" moodCode="EVN">
     <code code="103.16519" codeSystem="1.2.36.1.2001.1001.101"</pre>
      codeSystemName="NCTIS Data Components" displayName="Subject Position" />
     <value xsi:type="ST">PA Erect</value>
     </observation>
    </entryRelationship>
    <!-- End Subject Position -->
    <!-- Begin Image -->
    <entryRelationship typeCode="SPRT">
     <observationMedia classCode="OBS" moodCode="EVN">
     <id root="CD85BBA8-F2E6-11E0-B5BD-9FB84824019B" />
     <value mediaType="image/jpeg">
      <reference value="xray.jpeg" />
     </value>
     </observationMedia>
    </entryRelationship>
   <!-- End Image -->
  </observation>
 </entryRelationship>
 <!-- End Image Details -->
</entryRelationship>
<!-- End DICOM Study Identifier -->
<!-- Begin Report Identifier -->
<entryRelationship typeCode="COMP">
<observation classCode="OBS" moodCode="EVN">
 <id root="DDB50F06-F304-11E0-A7F3-5ADD4824019B"/>
 <code code="103.16514" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
  displayName="Report Identifier" />
</observation>
</entryRelationship>
```

7.1.6.3 REQUESTED SERVICE

Identification

Name Requested Service

Metadata Type Data Group Identifier DG-20158

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
	Service Provider	Optional	01

Parent

Data Type	Name	Obligation	Occurrence
	DIAGNOSTIC INVESTIGATIONS	Optional	0*

CDA R-MIM Representation

Figure 7.22, "Requested Service" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The Requested Service section is composed of a Component Section class related to the Diagnostic Investigations section through a component relationship. The section has a number of act entries to describe the Requested Service.

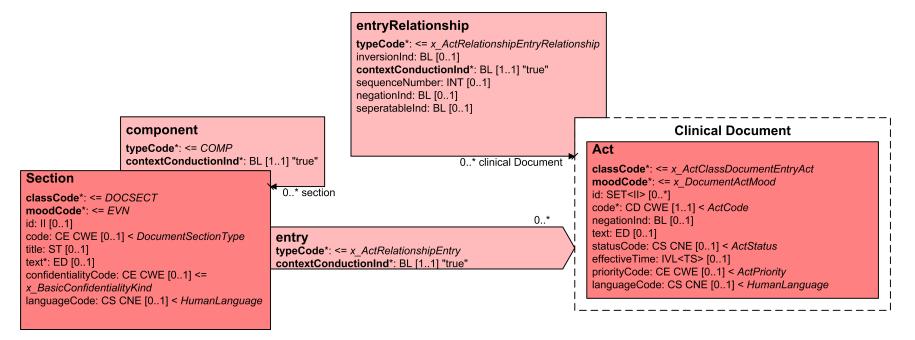


Figure 7.22. Requested Service

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section			
Requested Service	A request for a diagnostic investigation of the subject	0*	component[req_serv]/section/code			
	of care.		component[req_serv]/section/code/@code="102.20158"			
			component[req_serv]/section/code/@codeSystem="1.2.36.1.2001.1001.101"			
			component[req_serv]/section/code/@codeSystemName="NCTIS Data Components"			
			component[req_serv]/section/code/@displayName="Requested Service"			
			component[req_serv]/section/title="Requested Service"			
			component[req_serv]/section/text		See Appendix A, CDA Narratives	
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/section			
Requested Service > Requested Ser-	Describes the service arranged for, or provided to the subject of care.	11	entry[service]			
vice Description			entry[service]/act			
			entry[service]/act/@classCode="ACT"			
			entry[service]/act/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	See <id> for available attributes.</id>	
			entry[service]/act/code	NS	See <code> for available attributes.</code>	
Requested Service > DateTime Service Scheduled	The datetime at which the arranged service is scheduled to be provided to the Subject of Care.	01	entry[service]/act/effectiveTime		See <time> for available attributes.</time>	
Requested Service > Service Commencement Window	The datetime or date range at/during which the arranged service is scheduled to be provided to the Subject of Care.	01	entry[service]/act/effectiveTime		See <time> for available attributes.</time>	
Requested Service > Service Booking Status	An indication of the booking status of the arranged service.	11	entry[service]/act/@moodCode	HL7 v3 CDA: Act.moodCode	See <code> for available attributes.</code>	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Requested Service > Subject of Care	Describes the instructions/advice and information	01	entry[service]/act/entryRelationship		
Instruction Description	that have been given to the subject of care from a healthcare provider in relation to the requested ser-		entry[service]/act/entryRelationship/@typeCode="COMP"		
	vice.		entry[service]/act/entryRelationship/act		
			entry[service]/act/entryRelationship/act/@classCode="INFRM"		
			entry[service]/act/entryRelationship/act/@modeCode="EVN"		
			entry[service]/act/entryRelationship/act/code		
			entry[service]/act/entryRelationship/act/code/@code="103.10146"		
			entry[service]/act/entryRelationship/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[service]/act/entryRelationship/act/code/@codeSystemName="NCTIS Data Components"		
			entry[service]/act/entryRelationship/act/code/@displayName="Subject of Care Instruction Description"		
			entry[service]/act/entryRelationship/act/text		
Requested Service > Service Provider	The provider (individual or organisation) that has been arranged to provide the service.	01	See: Service Provider		
Requested Service > Requested Ser-	The point in time at which the Requested Service	11	entry[service]/act/entryRelationship		
vice DateTime	action is completed.		entry[service]/act/entryRelationship/@typeCode="COMP"		
			entry[service]/act/entryRelationship/act		
			entry[service]/act/entryRelationship/act/@classCode="ACT"		
			entry[service]/act/entryRelationship/act/@modeCode="EVN"		
			entry[service]/act/entryRelationship/act/code		
			entry[service]/act/entryRelationship/act/code/@code="103.16635"		
			entry[service]/act/entryRelationship/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[service]/act/entryRelationship/act/code/@codeSystemName="NCTIS Data Components"		
			entry[service]/act/entryRelationship/act/code/@displayName="Requested Service DateTime"		
		entry[service]/act/entryRelationship/act/effectiveTime		See <time> for available attributes.</time>	

Example 7.22. Requested Service XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
 <structuredBody>
  <!-- Start Diagnostic Investigations -->
  <component>
   <section>
    <!-- Begin Requested Service -->
    <component>
     <section>
      <code code="102.20158" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
       displayName="Requested Service" />
      <title>Requested Service</title>
      <text>
       <thead>
         Service
         Time
         Instructions
         Booking Status
         </thead>
        Xray Chest
          30 December 2010 10am
          No special instructions required.
         Appointment
         <!-- Begin Requested Service Description -->
       <!-- Begin Service Booking Status (moodCode) -->
       <act classCode="ACT" moodCode="APT">
       <!-- End Service Booking Status (moodCode) -->
        <id root="57F6EC7E-F2E9-11E0-81A3-C1BB4824019B" />
```

```
<code code="399208008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
         displayName="chest x-ray" />
         <!-- Begin DateTime Service Scheduled/Service Commencement Window -->
         <effectiveTime>
          <center value="201212301000+1000" />
          <width unit="wk" value="2" />
         </effectiveTime>
         <!-- End DateTime Service Scheduled/Service Commencement Window -->
         <!-- Begin Service Provider -->
         <performer typeCode="PRF">
         </performer>
         <!-- End Service Provider -->
         <!-- Begin Subject of Care Instruction Description -->
         <entryRelationship typeCode="COMP">
          <act classCode="INFRM" moodCode="EVN">
          <code code="103.10146" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Subject of Care Instruction Description" />
          <text>No special instructions required.</text>
          </act>
         </entryRelationship>
         <!-- End Subject of Care Instruction Description -->
         <!-- Begin Requested Service DateTime -->
         <entryRelationship typeCode="COMP">
          <act classCode="ACT" moodCode="EVN">
          <code code="103.16635" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
           displayName="Requested Service DateTime" />
           <effectiveTime value="201012301000+1000" />
         </entryRelationship>
         <!-- End Requested Service DateTime -->
       <!-- End Requested Service Description -->
      </section>
     </component>
     <!-- End Requested Service -->
   </section>
  </component>
   <!-- End Diagnostic Investigations -->
 </structuredBody>
<!-- End CDA Body -->
</ClinicalDocument>
```

7.1.6.3.1 Service Provider

Identification

Name Service Provider

Metadata Type Data Group Identifier DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	REQUESTED SERVICE	Optional	01

7.1.6.3.1.1 Service Provider - Person

CDA R-MIM Representation

Figure 7.23, "Service Provider - Person" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The Service Provider data group is represented by the performer participation of the ClinicalStatement.

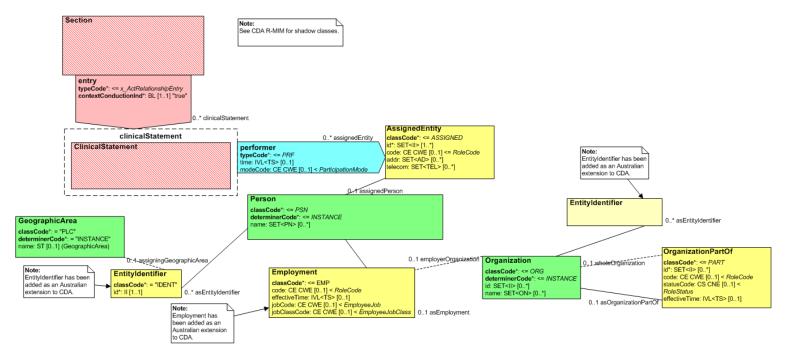


Figure 7.23. Service Provider - Person

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component	nent[req_serv]/section/entry[service	·]/act
Service Provider (Person)	The provider (individual) who has been arranged to provide the service.	01	performer		
Service Provider > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	performer/@typeCode="PRF"	Participation Type SHALL have an implementation-specific fixed value equivalent to "Service Provider".	
Service Provider > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	performer/assignedEntity/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METEOR 350899. [ABS2006]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publically available MAY be used.	See <code> for available attributes.</code>
n/a Service Provider > Participant	n/a Details pertinent to the identification of an individual	11	performer/assignedEntity/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Required CDA element.
Service Provider > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	performer/assignedEntity/assignedPerson		
Service Provider > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1*	performer/assignedEntity/assignedPerson/ <entity identifier=""></entity>	The value of one Entity Identifier SHALL be an Australian HPI-I.	See common pat- tern: Entity Identifier.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Service Provider > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1*	performer/assignedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pattern: Address.
Service Provider > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	performer/assignedEntity/ <electronic communication="" detail=""></electronic>		See common pattern: Electronic Communication Detail.
Service Provider > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		PERSON OR OR- GANISATION OR DEVICE SHALL be instantiated as a PERSON.
					This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Service Provider > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed impli- citly in performer/as- signedEntity/as- signedPerson.
Service Provider > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1*	performer/assignedEntity/assignedPerson/ <person name=""></person>		See common pattern: Person Name.
Service Provider > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	01	performer/assignedEntity/assignedPerson/ <employment></employment>		See common pattern: Employment.

Example 7.23. Service Provider - Person XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
 <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
    <!-- Begin Diagnostic Investigations -->
   <component>
   <section>
     <!-- Begin Requested Service -->
     <component>
      <section>
       <!-- Begin Requested Service Description -->
       <entry>
        <!-- Begin Service Booking Status (moodCode) -->
        <act classCode="ACT" moodCode="APT">
        <!-- End Service Booking Status (moodCode) -->
         . . .
         <!-- Begin Service Provider - Person -->
         <performer typeCode="PRF">
          <!-- Begin Participation Period -->
          <low value="201212301000+1000" />
           <high value="201212301030+1000" />
          </time>
          <!-- End Participation Period -->
          <assignedEntity>
          <!-- ID is used for system purposes such as matching -->
           <id root="AE0DB4EE-0CD0-11E0-8D84-CC50DFD72085" />
           <!-- Begin Role -->
           <code code="253916" codeSystem="2.16.840.1.113883.13.62"</pre>
           codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
           displayName="Radiologist" />
           <!-- End Role -->
```

```
<!-- Begin Address -->
<addr use="WP">
<streetAddressLine>67 Radiology Drive</streetAddressLine>
 <city>Nehtaville</city>
 <state>QLD</state>
 <postalCode>5555</postalCode>
 <additionalLocator>32568931</additionalLocator>
<country>Australia</country>
</addr>
<!-- End Address -->
<!-- Begin Electronic Communication Detail -->
<telecom value="mailto:os@hospital.com.au" />
<!-- End Communication Detail -->
<assignedPerson>
 <!-- Begin Person Name -->
 <name use="L">
 <prefix>Dr</prefix>
 <given>Bone</given>
 <family>Doctor</family>
 </name>
 <!-- End Person Name -->
 <!-- Begin Entity Identifier -->
 <ext:asEntityIdentifier classCode="IDENT">
 <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8663611234567890" />
 <ext:assigningGeographicArea classCode="PLC">
  <ext:name>National Identifier</ext:name>
 </ext:assigningGeographicArea>
 </ext:asEntityIdentifier>
 <!-- End Entity Identifier -->
</assignedPerson>
<!-- Employer Organisation (Participant (Organisation)) -->
 <ext:asEmployment classCode="EMP">
 <!-- Position In Organisation -->
  <originalText>Senior Ortopaedic Specialist</originalText>
  </ext:code>
  <!-- Occupation -->
  <ext:jobCode code="253514" codeSystem="2.16.840.1.113883.13.62"</pre>
  codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition"
  displayName="Orthopaedic Surgeon" />
  <!-- Employment Type -->
  <ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059"</pre>
   codeSystemName="HL7:EmployeeJobClass" displayName="full-time" />
  <ext:employerOrganization>
   <!-- Department/Unit -->
   <name>Orthopaedic Specialists
   <asOrganizationPartOf>
   <wholeOrganization>
     <!-- Organisation Name -->
     <name use="ORGB">Orthopaedic Clinics</name>
     <!-- Entity Identifier -->
```

```
<ext:asEntityIdentifier classCode="IDENT">
                <ext:id assigningAuthorityName="HPI-0"</pre>
                 root="1.2.36.1.2001.1003.0.8003621231167877" />
                <ext:assigningGeographicArea classCode="PLC">
                 <ext:name>National Identifier</ext:name>
                </ext:assigningGeographicArea>
               </ext:asEntityIdentifier>
              </wholeOrganization>
             </asOrganizationPartOf>
            </ext:employerOrganization>
           </ext:asEmployment>
          <!-- End Employment Detail -->
         </assignedEntity>
        </performer>
        <!-- End Service Provider - Person (If required) -->
       </act>
      </entry>
      <!-- End Requested Service Description -->
     </section>
    </component>
    <!-- End Requested Service -->
   </section>
  </component>
  <!-- End Diagnostic Investigations -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.6.3.1.2 Service Provider - Organisation

CDA R-MIM Representation

Figure 7.24, "Service Provider - Organisation" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The SERVICE PROVIDER data group is represented by the performer participation of the ARRAGNED SERVICE Act.

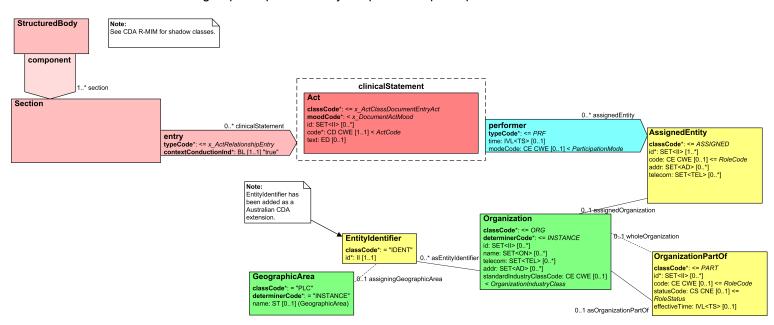


Figure 7.24. Service Provider - Organisation

CDA Mapping

NEHTA SCS Data Com-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
ponent						
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/section/entry[service]/act/			
Service Provider (Organisation)	The provider (organisation) who has been arranged to provide the service.	01	performer			
Service Provider > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	performer/@typeCode="PRF"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Service Pro- vider".		
Service Provider > Participation Period	The time interval during which the participation in the health care event occurred.	01	performer/time		See <time> for available attributes.</time>	
Service Provider > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	performer/assignedEntity/code	Role SHALL have a value representing the type of Facility e.g. Hospital, Clinic.	See <code> for available attributes.</code>	
n/a	n/a	11	performer/assignedEntity/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID may be used.	Required CDA element.	
Service Provider > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	performer/assignedEntity/representedOrganization			
Service Provider > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1*	performer/assignedEntity/representedOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>	The value of one Entity Identifier SHALL be an Australian HPI-O.	See common pattern: Entity Identifier.	
Service Provider > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0*	performer/assignedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.	
Service Provider > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	performer/assignedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Service Provider > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		PERSON OR OR- GANISATION OR DEVICE SHALL be instantiated as a ORGANISATION. This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag- ates to its children.
Service Provider > Participant > Person or Organisation or Device > Organisation	Any organisation of interest to, or involved in, the business of healthcare service provision.	11	n/a		Not mapped directly, encompassed impli- citly in performer/as- signedEntity/associ- atedPerson.
Service Provider > Participant > Person or Organisation or Device > Organisation > Organisation Name	The name by which an organisation is known or called.	11	performer/assignedEntity/representedOrganization/asOrganizationPartof/wholeOrganization/name		

Example 7.24. Service Provider - Organisation XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
    <!-- Begin CDA Header -->
  <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
    <!-- Begin Diagnostic Investigations -->
   <component>
   <section>
     <!-- Begin Requested Service -->
     <component>
      <section>
       <!-- Begin Requested Service Description -->
       <entry>
        <!-- Begin Service Booking Status (moodCode) -->
        <act classCode="ACT" moodCode="APT">
        <!-- End Service Booking Status (moodCode) -->
         . . .
         <!-- Begin Service Provider - Organisation -->
         <performer typeCode="PRF">
          <!-- Participation Period -->
          <le><low value="201212301000+1000"/>
           <high value="201212301030+1000"/>
          </time>
          <assignedEntity>
          <!-- ID is used for system purposes such as matching -->
          <id root="0B15F408-F2EA-11E0-9610-D3BC4824019B" />
           <!-- Role -->
           <code code="309964003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
           displayName="radiology department" />
           <!-- Address -->
```

```
<addr use="WP">
            <streetAddressLine>105 Hospital Street</streetAddressLine>
           <city>Nehtaville</city>
            <state>QLD</state>
            <postalCode>5555</postalCode>
            <additionalLocator>32568931</additionalLocator>
           <country>Australia</country>
           </addr>
           <!-- Electronic Communication Detail -->
           <telecom use="WP" value="tel:0788888888" />
           <representedOrganization>
            <as0rganizationPart0f>
            <wholeOrganization>
             <!-- Organisation Name -->
             <name>Private Hospital</name>
             <!-- Entity Identifier -->
             <ext:asEntityIdentifier classCode="IDENT">
              <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003321771167888" />
              <ext:assigningGeographicArea classCode="PLC">
               <ext:name>National Identifier</ext:name>
              </ext:assigningGeographicArea>
             </ext:asEntityIdentifier>
            </wholeOrganization>
            </asOrganizationPartOf>
           </representedOrganization>
         </assignedEntity>
         </performer>
        <!-- End Service Provider - Organisation -->
       </act>
      </entry>
      <!-- End Requested Service Description -->
      </section>
     </component>
     <!-- End Requested Service -->
     . . .
   </section>
  </component>
  <!-- End Diagnostic Investigations -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

nehta Common Patterns

8 Common Patterns

8.1 code

The <code> element pattern refines the kind of act being recorded. It is of data type CD CWE (Concept Descriptor, Coded With Extensibility). It may have:

- a null attribute (*nullFlavor*)
- originalText
- code and codeSystem
- translation (CD)
- · any combination of the above.

A displayName is highly recommended.

Where used, the *code* attribute **SHALL** contain a code from the relevant vocabulary.

Where used, the *codeSystem* attribute **SHALL** contain the OID for the relevant vocabulary. Values for coding systems can be obtained from the HL7 OID registry accessible from the HL7 home web page at www.hl7.org1.

Where used, the *displayName* attribute **SHALL** contain a human readable description of the code value.

The codeSystemName MAY be present, and, where used SHALL contain a human readable name for the coding system.

Where used, the *originalText* element **SHALL** be used to carry the full text associated with this code as selected, typed or seen by the author of this statement.

Codes can be obtained from a variety of sources. Additional vocabularies are also available from the HL7 Version 3 Vocabulary tables, available to HL7 members through the HL7 web site. In some cases, the vocabularies have been specified; in others, a particular code has been fixed or there is no vocabulary specified.

If a vocabulary is specified in this guide and no suitable code can be found the *originalText* element **SHALL** be used to carry the full text as selected, typed or seen by the author of this statement.

1 http://www.hl7.org

If a vocabulary is specified in this guide and it is not possible to use this vocabulary, but an alternate vocabulary is in use, the *originalText* element **SHALL** be used to carry the full text as selected, typed or seen by the author of this statement. The *code* element **SHALL** be used to carry the relevant information from the alternate vocabulary and the alternate vocabulary shall be registered with HL7 and allocated an appropriate OID.

If an alternate vocabulary is in use and a translation into the specified code system is available, the *originalText* element **SHALL** be used to carry the full text as selected, typed or seen by the author of this statement. The *code* element **SHALL** be used to carry the relevant information from the alternate vocabulary and the alternate vocabulary must be registered with HL7 and allocated an appropriate OID. The *translation* element **SHALL** be used to indicate the translation code from the specified vocabulary.

Example 8.1. code

```
<!-- Specified code system in use -->
  code="271807003"
  codeSystem="2.16.840.1.113883.6.96"
  codeSystemName="SNOMED CT-AU"
  codeSystemVersion="20101130"
  displayName="skin rash" />
<!-- Alternate code system in use and a translation into the specified code system is available -->
<code
  code='49390'
  codeSystem='2.16.840.1.113883.19.6.2'
  codeSystemName='ICD9CM'
  displayName='ASTHMA W/O STATUS ASTHMATICUS'>
   <orignalText>Patient is Asthmatic/originalText>
   <translation</pre>
     code='195967001'
      codeSystem='2.16.840.1.113883.19.6.96'
     codeSystemName='SNOMED CT'
      displayName='Asthma'/>
</code>
<!-- Alternate code system in use and no translation into the specified code system is available -->
<code
  code= '49390'
  codeSystem='2.16.840.1.113883.19.6.2'
  codeSystemName='ICD9CM'
  displayName='ASTHMA W/O STATUS ASTHMATICUS'>
  <orignalText>Patient is Asthmatic/originalText>
</code>
<!-- No suitable code can be found or there is no code system in use -->
    <orignalText>Patient is Asthmatic/originalText>
</code>
```

8.2 id

The <id> element pattern is of data type II (Instance Identifier). The II data type may have:

- a null attribute (*nullFlavor*)
- a root
- a root and an extension
- a root and an extension and an assigningScopingEntity
- a root and an assigningScopingEntity

The root attribute is required and is a unique identifier that guarantees the global uniqueness of the instance identifier. The root alone may be the entire instance identifier. The root attribute may be a UUID or OID.

The extension attribute may be present, and is a character string as a unique identifier within the scope of the identifier root.

In the case of Entity Identifier, assigningAuthorityName is required, otherwise it is optional.

Identifiers appear in this implementation guide for two different reasons. The first is that the identifier has been identified in the business requirements as relevant to the business process. These identifiers are documented in the Structured Content Specifications which make clear the meaning of this identifier.

In addition, the implementation makes clear that identifiers may also be found on many other parts of the CDA content model. These identifiers are allowed to facilitate record matching across multiple versions of related documents, so that the same record can consistently be identified, in spite of variations in the information as the record passes through time or between systems. These identifiers have no meaning in the business specification. If senders provide one of these identifiers, it must always be the same identifier in all versions of the record, and it must be globally unique per the rules of the II data type.

Throughout the specification, these identifiers are labeled with the following text: "This is a technical identifier that is used for system purposes such as matching."

Example 8.2. id

```
<id root="2.16.840.1.113883.19" extension="123A45" />
<ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621234567890" />
```

8.3 time

The <time> element pattern is of data type TS (Point in Time) and can also be an interval between two times (IVL_TS), representing a period of time. Both forms may either have a nullFlavor attribute or child components following allowed patterns.

Any time that is more specific than a day SHALL include a timezone.

A simple timestamp (point in time) will only contain a value attribute containing the time value, expressed as a series of digits as long as required or available.

Example 8.3. Simple timestamp

```
<time value="20091030" />
```

This represents "October 30, 2009" to calendar day precision. In cases where the containing element is defined in the CDA schema as "ANY" data type, it is useful to provide an xsi:type attribute, set to the value "TS".

The period of time pattern is defined in terms of one or both of its lowest and highest values. The low and high elements are instances of the timestamp pattern described above. More complex time period concepts can be expressed by combining a high, low, or centre element with a width element.

Example 8.4. Low time

```
<period>
     <low value="20091030" />
</period>
```

This represents "a period after October 30, 2009". In cases where the containing element is defined in the CDA schema as "ANY" data type, it is useful to provide an xsi:type attribute, set to the value "IVL_TS", as in the next example.

Example 8.5. Interval timestamp 1

This represents "a period before 10:30 a.m. UTC+10, October 30, 2009". A discretionary xsi:type attribute has been provided to explicitly cast the pattern to "IVL_TS".

Example 8.6. Interval timestamp 2

```
<period xsi:type="IVL_TS">
    <low value="2007" />
    <high value="2009" />
</period>
```

This represents "the calendar years between 2007 and 2009". The low element **SHALL** precede the high element. As per the previous example, a discretionary xsi:type attribute has been provided to explicitly cast the pattern to "IVL_TS".

Example 8.7. Width time

```
<period>
  <high value="20091017" />
  <width value="2" unit="week" />
</period>
```

This expresses "two weeks before October 17th, 2009". A low value can be derived from this.

8.4 Entity Identifier

CDA Mapping

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments																			
CDA Data Elemen	nts																							
Entity Identifier	A number or code issued for the purpose of identifying an entity (person,	The cardinal- ity of the group comes	ext:asEntityIdentifier		See Australian CDA extension: Entity-Identifier.																			
	organisation or organisation sub-unit) within a	ing parent	from the link- ing parent	ext:asEntityIdentifier/@classCode="IDENT"																				
	healthcare context.	and the car- dinality of	ext:asEntityIdentifier/ext:id																					
	the childi data ele- ments comes fr	the children data elements comes from the R-MIM diagram.	ext:asEntityIdentifier/ext:id/@root	Attribute @root SHALL be used, SHALL be an OID and SHALL NOT be a UUID. Attribute @root SHALL be a globally unique object identifier (OID) that identifies the combination of geographic area, issuer and type. If no such OID exists, it SHALL be defined before any identifiers can be created.																				
			diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	diagram.	ext:asEntityIdentifier/ext:id/@extension	Attribute @extension MAY be used and if it is used, SHALL be a unique identifier within the scope of the root that is populated directly from the designation.	
					ext:asEntityIdentifier/ext:id/@assigningAuthorityName	Attribute @assigningAuthorityName MAY be used and if it is used, is a human readable name for the namespace represented in the root that is populated with the issuer, or identifier type, or a concatenation of both as appropriate. This SHOULD NOT be used for machine readability purposes.																		
										ı						ext:asEntityIdentifier/ext:code		See <code> for available attributes.</code>						
					ext:asEntityIdentifier/ext:assigningGeographicArea																			
			ext:asEntityIdentifier/ext:assigningGeographicArea/@classCode="PLC"																					
			ext:asEntityIdentifier/ext:assigningGeographicArea/ext:name	Element ext:name MAY be used and if it is used, is the range and extent that the identifier applies to the object with which it is associated that is populated directly from the geographic area. This SHOULD NOT be used for machine readability purposes.																				
				For details see: AS 5017-2006: Health Care Client Identifier Geographic Area																				

Example 8.8. Entity Identifier

</ext:asEntityIdentifier>

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<!-- person -->
<xs:asEntityIdentifier classCode="IDENT">
 <xs:id root="1.2.36.1.2001.1003.0.8003600000022222" assigningAuthorityName="IHI" />
 <xs:assigningGeographicArea classCode="PLC">
       <xs:name>National Identifier</xs:name>
      </xs:assigningGeographicArea>
</xs:asEntityIdentifier>
<xs:asEntityIdentifier classCode="IDENT">
<xs:id root="1.2.36.1.2001.1003.0.8003620000000541" extension="542181" assigningAuthorityName="Croydon GP Centre" />
   <xs:code code="MR" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />
</xs:asEntityIdentifier>
<!-- organisation -->
<ext:asEntityIdentifier classCode="IDENT">
   <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621234567890" />
   <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
   </ext:assigningGeographicArea>
```

8.5 Person Name

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments				
CDA Data Elements	CDA Data Elements								
Person Name	The appellation by which an individual may be identified separately from any other within a social context.	Cardinality comes from linking parent.	name						
Person Name > Name Title	An honorific form of address commencing a name.	0*	name/ prefix						
Person Name > Family Name	That part of a name a person usually has in common with some other members of his/her family, as distinguished from his/her given names.	11	name/family						
Person Name > Given Name	The person's identifying names within the family group or by which the person is uniquely socially identified.	0*	name/ given						
Person Name > Name Suffix	The additional term used following a person's name to identify that person.	0*	name/ suffix						
Person Name > Preferred Name Indicator	A flag to indicate that this is the name a person has selected for use.	01	name/@use		Space separated list of codes. true='L' false=blank				
Person Name > Person Name Usage	The classification that enables differentiation between recorded names for a person.	01	name/@use	AS 5017-2006: Health Care Client Name Usage	Space separated list of codes.				

Example 8.9. Person Name

8.6 Address

CDA Mapping

NEHTA SCS Data Compon-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ent					
CDA Data Elements					
Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	Cardinality comes from linking parent.	addr		
Address > No Fixed Address Indicator	A flag to indicate whether or not the participant has no fixed address.	11	addr/@nullFlavor	If true, nullFlavor="NA". If false omit nullFlavor and fill in address.	
Address > Australian or International Address	Represents a choice to be made at run-time between an AUSTRALIAN ADDRESS and an INTERNATION-AL ADDRESS.	11	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of
					this component propagates to its children.
Address > Australian or International Address > International Address	The description of a non-Australian location where an entity is located or can be otherwise reached or found.	01	n/a		This logical NEHTA data component has no mapping to CDA.
					The cardinality of this component propagates to its children.
Address > Australian or International Address > International Address > Inter- national Address Line	A composite of address details comprising a low level geographical/physical description of a location that, used in conjunction with the other high level address components, i.e. international state/province, international postcode and country, forms a complete geographic/physical address	0*	addr/streetAddressLine		
Address > Australian or International Address > International Address > Inter- national State/Province	The designation applied to an internal, political or geographic division of a country other than Australia that is officially recognised by that country	01	addr/state		
Address > Australian or International Address > International Address > Inter- national Postcode	The alphanumeric descriptor for a postal delivery area (as defined by the postal service of a country other than Australia) aligned with locality, suburb or place for an address	01	addr/postalCode		

NEHTA SCS Data Compon-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ent					
Address > Australian or International Address > International Address > Country	The country component of the address.	01	addr/country	Australia Bureau of Statistics, Standard Australian Classification of Countries (SACC) Cat. No. 1269 [ABS2008]	Use the name, not the numbered code.
Address > Australian or International Address > Australian Address	The description of an Australian location where an entity is located or can be otherwise reached or found.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Address > Australian or International Address > Australian Address > Un- structured Australian Address Line	A composite of one or more low level standard address components describing a geographical/physical location that, used in conjunction with the other high level address components, e.g. Australian suburb/town/locality name, Australian postcode and Australian State/Territory, forms a complete geographical/physical address.	0*	addr/streetAddressLine		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line	The standard low level address components describing a geographical/physical location that, used in conjunction with the other high level address components, i.e. Australian suburb/ town/locality name, Australian postcode and Australian State/Territory, form a complete geographical/physical address.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Unit Type	The specification of the type of a separately identifiable portion within a building/complex, marina etc. to clearly distinguish it from another.	01	addr/unitType	AS 5017 (2006) - Healthcare Client Identification: Australian Unit Type [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Unit Type [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Unit Number	The specification of the number or identifier of a building/complex, marina etc. to clearly distinguish it from another.	01	addr/unitID		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Address Site Name	The full name used to identify the physical building or property as part of its location.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Level Type	Descriptor used to classify the type of floor or level of a multistorey building/complex.	01	addr/additionalLocator	AS 5017 (2006) - Healthcare Client Identification: Australian Level Type [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Level Type [SA2006b]	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Level Number	Descriptor used to identify the floor or level of a multi- storey building/complex.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Number	The numeric or alphanumeric reference number of a house or property that is unique within a street name.	01	addr/houseNumber		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Lot Number	The Australian Lot reference allocated to an address in the absence of street numbering.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Name	The name that identifies a public thoroughfare and differentiates it from others in the same sub-urb/town/locality.	01	addr/streetName		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Type	A code that identifies the type of public thoroughfare.	01	addr/streetNameType	AS 5017 (2006) - Healthcare Client Identification: Australian Street Type Code [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Street Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Suffix	Term used to qualify Australian Street Name used for directional references.	01	addr/direction	AS 5017 (2006) - Healthcare Client Identification: Australian Street Suffix [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Street Suffix [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Postal Delivery Type	Identification for the channel of postal delivery.	01	addr/deliveryAddressLine	AS 5017 (2006) - Healthcare Client Identification: Australian Postal Delivery Type Code [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Postal Delivery Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Postal Delivery Number	Identification number for the channel of postal delivery.	01	addr/deliveryAddressLine		
Address > Australian or International Address > Australian Address > Aus- tralian Suburb/Town/Locality	The full name of the general locality contained within the specific address.	01	addr/city	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	
Address > Australian or International Address > Australian Address > Australian State/Territory	The identifier of the Australian state or territory.	01	addr/ state	AS 5017-2006 Australian State/Territory Identifier - Postal	
Address > Australian or International Address > Australian Address > Aus- tralian Postcode	The numeric descriptor for a postal delivery area (as defined by Australia Post), aligned with locality, suburb or place for the address.	01	addr/postalCode	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Aus- tralian Delivery Point Identifier	A unique number assigned to a postal delivery point as recorded on the Australia Post Postal Address File.	01	addr/additionalLocator		
Address > Address Purpose	The purpose for which the address is being used by the entity.	11	addr/@use	AS 5017-2006: Health Care Client Identifier Address Purpose	Space separated list of codes.

Example 8.10. Address

```
<!-- These examples are provided for illustrative purposes only. They have had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<!- no fixed address -->
<addr nullFlavor="NA" />
<!-Australian home address (unstructured) -->
<addr use="H">
   <streetAddressLine>1 Clinician Street/streetAddressLine>
   <city>Nehtaville</city>
   <state>QLD</state>
   <postalCode>5555</postalCode>
   <additionalLocator>32568931</additionalLocator>
</addr>
<!-Australian business address (structured) -->
<addr use="WP">
   <houseNumber>1</houseNumber>
   <streetName>Clinician</streetName>
   <streetNameType>St</streetNameType>
   <city>Nehtaville</city>
   <state>QLD</state>
   <postalCode>5555</postalCode>
   <additionalLocator>32568931</additionalLocator>
</addr>
<!-international postal address -->
<addr use="PST">
   <streetAddressLine>51 Clinician Bay</streetAddressLine>
   <city>Healthville</city>
   <state>Manitoba</state>
   <postalCode>R3T 3C6</postalCode>
   <country>Canada/country>
</addr>
```

8.7 Electronic Communication Detail

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments					
CDA Data Elements	CDA Data Elements									
Electronic Communication Detail	The electronic communication details of entities.	Cardinality comes from linking parent.	telecom							
Electronic Communication Detail > Electronic Communication Medium	A code representing a type of communication mechanism.	11	telecom/@value	AS 5017-2006: Health Care Client Electronic Communication Medium > HL7:URLScheme	Makes up part of the value attribute as 'tel:phone number', 'mailto:email address', http:URL', etc.					
			telecom/@use	HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAddressUse	Space separated list of codes. The section AS 5017-2006: Health Care Client Electronic Communication Usage Code explains how to map AS 5017-2006 to HL7 Telecommunication-AddressUse (HL7 TAU) code					
Electronic Communication Detail > Electronic Communication Usage Code	The manner of use that is applied to an electronic communication medium.	01	telecom/@use	HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAddressUse	Space separated list of codes. The section AS 5017-2006: Health Care Client Electronic Communication Usage Code explains how to map AS 5017-2006 to HL7 Telecommunication-AddressUse (HL7 TAU) code					
Electronic Communication Detail > Electronic Communication Address	A unique combination of characters used as input to electronic telecommunication equipment for the purpose of contacting an entity.	11	telecom/@value							

Example 8.11. Electronic Communication Detail

```
<!-- These examples are provided for illustrative purposes only. They have had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<!-home telephone number -->
<telecom value="tel:0499999999" use="H" />

<!-pager -->
<telecom value="tel:0499999999" use="PG" />
<!-home email address -->
<telecom value="mailto:clinicial@clinician.com" use="H" />
```

8.8 Employment

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the <u>HL7 code set registration</u> <u>procedure</u>² with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Employment Detail	A person's occupation and employer.	Cardin- ality comes from linking parent.	n/a		This logical NEHTA data component has no mapping to CDA.
Employment Detail > Employer Organisation	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0*	ext:asEmployment/ext:employerOrganization		There is a known issue in NEHTA Participation Data Specification for this logical Data Component's cardinality. Furthermore the corresponding CDA elements ext:asEmployment and ext:employerOrganization doesn't allow the cardinality to be '0*'/multiple. The cardinality SHALL be interpreted as '01' instead of '0*'.
			ext:asEmployment/@classCode="EMP"		

http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Employment Detail > Employer Organisation > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1*	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>	The value of one Entity Identifier SHALL be an Australian HPI-O.	See common pattern: Entity Identifier.
Employment Detail > Employer Organisation > Organisation	Any organisation of interest to, or involved in, the business of healthcare service provision.	11	n/a		Not mapped directly, encompassed impli- citly in assignedAu- thor/ext:asEmploy- ment/employerOrgan- ization.
Employment Detail > Employer Organisation > Organisation > Organisation Name	The name by which an organisation is known or called.	11	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/name		
Employment Detail > Employer Organ- isation > Organisation > Depart- ment/Unit	The name by which a department or unit within a larger organisation is known or called.	01	ext:asEmployment/ext:employerOrganization/name		
Employment Detail > Employer Organisation > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	
Employment Detail > Employment Type	The basis on which the person is employed by the employer organisation.	01	ext:asEmployment/ext:jobClassCode	NS	
Employment Detail > Occupation	A descriptor of the class of job based on similarities in the tasks undertaken.	0*	ext:asEmployment/ext:jobCode	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METeOR 350899 [ABS2006]	The corresponding CDA element ext:jobCode doesn't allow the cardinality be '0.*'multiple. The cardinality SHALL be interpreted as '01' instead of '0*'.
Employment Detail > Position In Organisation	A descriptor of the job or the job role based on the management hierarchy of the organisation.	01	ext:asEmployment/ext:code	NS	

Example 8.12. Employment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<!-- Employment Details -->
<ext:asEmployment classCode="EMP">
    <!-- Position In Organisation -->
        <originalText>Senior Medical Oncologist</originalText>
    </ext:code>
    <ext:jobCode code="253314" codeSystem="2.16.840.1.113883.13.62"</pre>
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
        displayName="Medical Oncologist"/>
    <!-- Employment Type -->
    <ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059"</pre>
        codeSystemName="HL7:EmployeeJobClass" displayName="full-time"/>
    <!-- Employer Organisation -->
    <ext:employerOrganization>
        <!-- Department/Unit -->
        <name>GP Clinic</name>
        <as0rganizationPart0f>
            <wholeOrganization>
                <!-- Organisation Name -->
               <name use="ORGB">GP Clinics
               <!-- Entity Identifier -->
                <ext:asEntityIdentifier classCode="IDENT">
                    <ext:id assigningAuthorityName="HPI-0"</pre>
                        root="1.2.36.1.2001.1003.0.8003621231167899"/>
                    <ext:assigningGeographicArea classCode="PLC">
                        <ext:name>National Identifier</ext:name>
                    </ext:assigningGeographicArea>
                </ext:asEntityIdentifier>
            </wholeOrganization>
        </asOrganizationPartOf>
    </ext:employerOrganization>
</ext:asEmployment>
```

nehta Australian CDA Extensions

9 Australian CDA Extensions

As part of the CDA, standard extensions are allowed as follows:

Locally-defined markup may be used when local semantics have no corresponding representation in the CDA specification. CDA seeks to standardize the highest level of shared meaning while providing a clean and standard mechanism for tagging meaning that is not shared. In order to support local extensibility requirements, it is permitted to include additional XML elements and attributes that are not included in the CDA schema. These extensions should not change the meaning of any of the standard data items, and receivers must be able to safely ignore these elements. Document recipients must be able to faithfully render the CDA document while ignoring extensions.

Extensions may be included in the instance in a namespace other than the HL7v3 namespace, but must not be included within an element of type ED (e.g., <text> within within within since the contents of an ED datatype within the conformant document may be in a different namespace. Since all conformant content (outside of elements of type ED) is in the HL7 namespace, the sender can put any extension content into a foreign namespace (any namespace other than the HL7 namespace). Receiving systems must not report an error if such extensions are present. "HL7 Clinical Document Architecture, Release 2" [HL7CDAR2]

As such the following extensions have been defined where Australian concepts were not represented in CDA.

This section is provided for clarity only. Please see the relevant mappings section where these extensions have been used for actual mapping details.

9.1 ClinicalDocument.completionCode

Figure 9.1, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

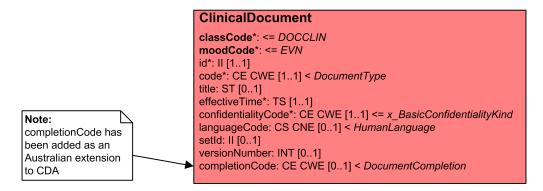


Figure 9.1. CDA R-MIM Representation

9.2 Entityldentifier

Figure 9.2, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

nehta Australian CDA Extensions

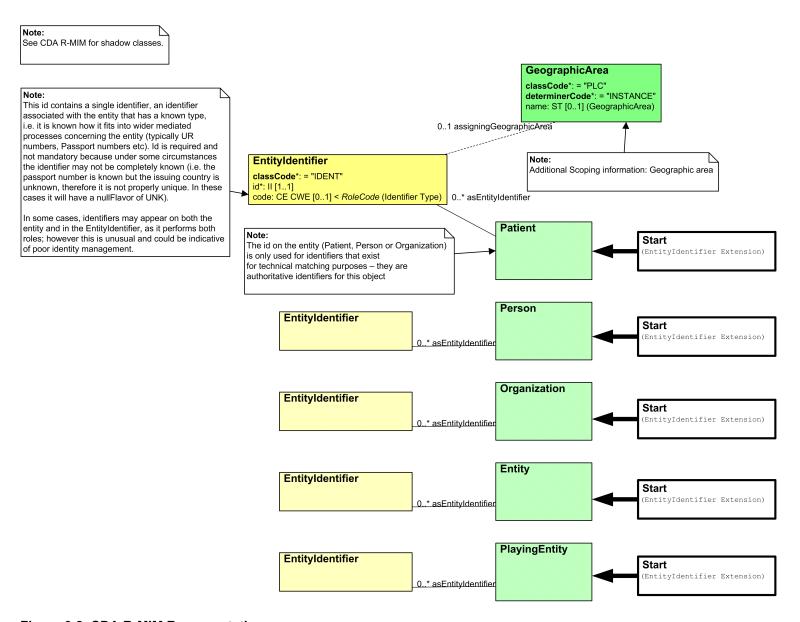


Figure 9.2. CDA R-MIM Representation

9.3 Entitlement

Figure 9.3, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

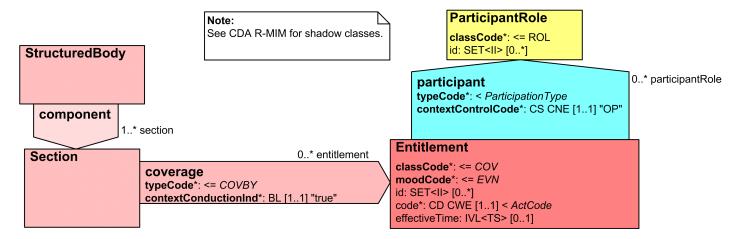


Figure 9.3. CDA R-MIM Representation

nehta Australian CDA Extensions

9.4 Multiple Birth

Figure 9.4, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

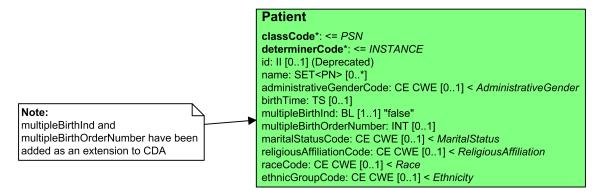


Figure 9.4. CDA R-MIM Representation

9.5 Administrative Gender Code

Figure 9.5, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

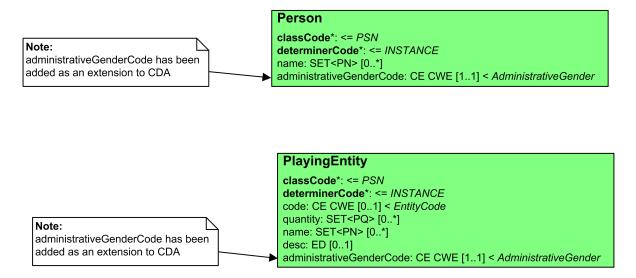


Figure 9.5. CDA R-MIM Representation

nehta Australian CDA Extensions

9.6 Birth Time

Figure 9.6, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

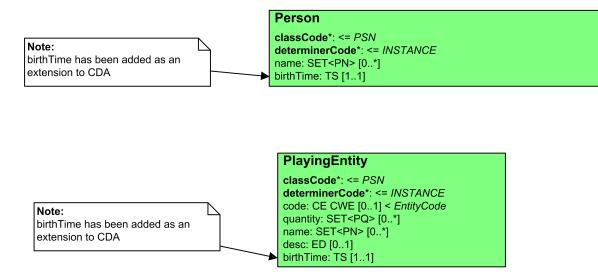


Figure 9.6. CDA R-MIM Representation

9.7 Deceased Time

Figure 9.7, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

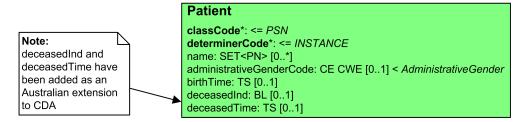


Figure 9.7. CDA R-MIM Representation

nehta Australian CDA Extensions

9.8 Employment

Figure 9.8, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

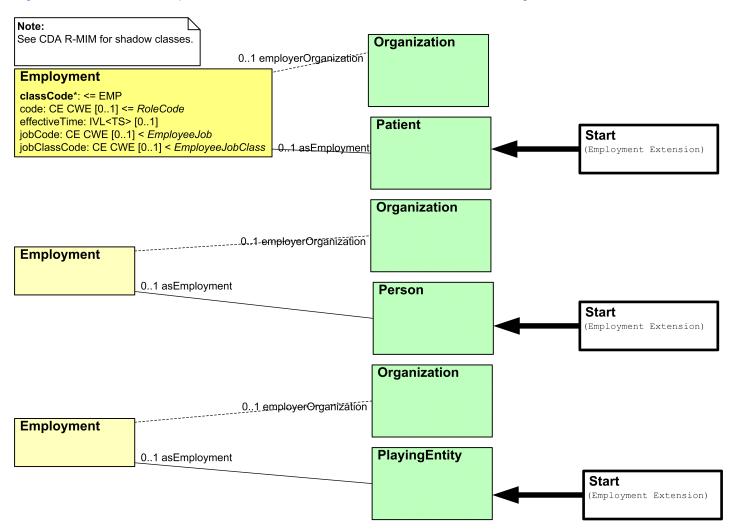


Figure 9.8. CDA R-MIM Representation

9.9 Qualifications

Figure 9.9, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

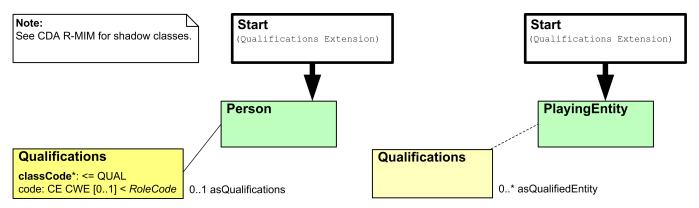


Figure 9.9. CDA R-MIM Representation

nehta Australian CDA Extensions

9.10 Container

Figure 9.10, "CDA R-MIM Representation" shows a subset of the CDA R-MIM containing those classes with the relevant Australian CDA extension represented.

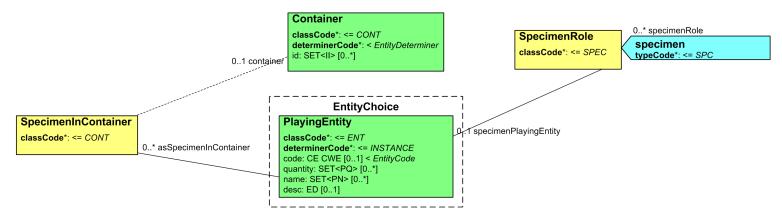


Figure 9.10. CDA R-MIM Representation

nehta Vocabularies/Code Sets

10 Vocabularies/Code Sets

When referencing the following vocabulary tables, if one column in the code set table is bolded, use the code in that column, otherwise use the values in all columns.

Example 10.1. All values

```
<code
  code="103.16044.4.1.1"
  codeSystem="1.2.36.1.2001.1001"
  codeSystemName="&NCTIS_CODE_SYSTEM_NAME;"
  displayName="Additional Comments" />
```

Example 10.2. One value

```
<name use="L">
{name}
</name>
```

10.1 HL7 v3: TelecommunicationAddressUse

Code	Value
Н	Home
HP	Primary Home
HV	Vacation Home
WP	Workplace
AS	Answering Service
EC	Emergency Contact
MC	Mobile Contact
PG	Pager

10.2 AS 5017-2006 Health Care Client Identifier Sex

displayName	code	codeSystemName	codeSystem
Male	М	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Female	F	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Intersex or Indeterminate	I	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Not Stated/Inadequately Described	N	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68

nehta Vocabularies/Code Sets

10.3 AS 5017-2006: Health Care Client Name Usage

Code Set AS 5017-2006 mapped to HL7 Name Use Code



Note

CDA Release 2 uses HL7 Data Types Release 1. For some of the AS 5017-2006 values there are no satisfactory equivalents in the HL7 Name Use R1 code set. In these cases (marked R2) an HL7 Name Use R2 code has been used.



Note

In cases (marked EXT) where there are no suitable HL7 codes, extension codes have been created.

AS 5017-2006 Code	AS 5017-2006 Alternative Code	AS 5017-2006 Descriptor	HL7 Name Use Code	HL7 Name Use Name	HL7 Name Use Definition
1	L	Registered Name (Legal Name)	L	(R1) Legal	(R1) Known as/conventional/the one you use
2	R	Reporting Name	С	(R1) License	(R1) As recorded on a license, record, certificate, etc. (only if different from legal name)
3	N	Newborn Name	NB	(EXT)	(EXT)
4	В	Professional or Business Name	Α	(R1) Artist/Stage	(R1) Includes writer's pseudonym, stage name, etc
5	M	Maiden Name (Name at birth)	M	(R2) Maiden Name	A name used prior to marriage.
8	0	Other Name (Alias)	P	(R1) Pseudonym	(R1) A self asserted name that the person is using or has used

10.4 AS 4846-2006: Health Care Provider Organisation Name Usage

Code Set AS 5017-2006 Organisation Name Usage mapped to HL7 Name Use Code



Note

There are no suitable HL7 codes so extension codes have been created.

AS 4846-2006 Code	AS 4846-2006 Alternative Code	AS 4846-2006 Descriptor	HL7 Name Use Code	HL7 Name Use Name	HL7 Name Use Definition
1	U	Organizational unit/section/division name	ORGU	(EXT)	(EXT)
2	S	Service location name	ORGS	(EXT)	(EXT)
3	В	Business name	ORGB	(EXT)	(EXT)
4	L	Locally used name	ORGL	(EXT)	(EXT)
5	A	Abbreviated name	ORGA	(EXT)	(EXT)
6	Е	Enterprise name	ORGE	(EXT)	(EXT)
8	Х	Other	ORGX	(EXT)	(EXT)
9	Υ	Unknown	ORGY	(EXT)	(EXT)

nehta Vocabularies/Code Sets

10.5 AS 5017-2006: Health Care Client Source of Death Notification

displayName	code	codeSystemName	codeSystem
Official death certificate or death register		AS 5017-2006 Health Care Client Source of Death Notification	2.16.840.1.113883.13.64
Health Care Provider	Н	AS 5017-2006 Health Care Client Source of Death Notification	2.16.840.1.113883.13.64
Relative	R	AS 5017-2006 Health Care Client Source of Death Notification	2.16.840.1.113883.13.64
Other	0	AS 5017-2006 Health Care Client Source of Death Notification	2.16.840.1.113883.13.64
Unknown	U	AS 5017-2006 Health Care Client Source of Death Notification	2.16.840.1.113883.13.64

10.6 AS 5017-2006: Health Care Client Identifier Address Purpose

AS 5017-2006 mapped to HL7 Address Use Code

AS 5017-2006 Code	AS 5017-2006 Alternative Code	AS 5017-2006 Descriptor	HL7 Address Use Code	HL7 Address Use Name	HL7 Address Use Definition
1	В	Business	WP	Work Place	An office address. First choice for business related contacts during business hours.
2	M	Mailing or Postal	PST	Postal Address	Used to send mail.
3	Т	Temporary Accommodation (individual provider only)	ТМР	Temporary Address	A temporary address, may be good for visit or mailing.
4	R	Residential (permanent) (individual provider only)	Н	Home Address	A communication address at a home.
9	U	Not Stated/Unknown/Inadequately Described	In this case simply omit the Address Use Code		

10.7 AS 5017-2006: Health Care Client Identifier Geographic Area

displayName	code	codeSystemName	codeSystem
Local Client (Unit Record) Identifier	L	AS 5017-2006 Health Care Client Identifier Geographic Area	2.16.840.1.113883.13.63
Area/Region/District Identifier	Α	AS 5017-2006 Health Care Client Identifier Geographic Area	2.16.840.1.113883.13.63
State or Territory Identifier	S	AS 5017-2006 Health Care Client Identifier Geographic Area	2.16.840.1.113883.13.63
National Identifier	N	AS 5017-2006 Health Care Client Identifier Geographic Area	2.16.840.1.113883.13.63

10.8 AS 5017-2006: Health Care Client Electronic Communication Medium

AS 5017-2006 Code	AS 5017-2006 Descriptor	AS 5017-2006 Alternative Code	HL7 URLScheme Code	HL7 URLScheme Name	HL7 URLScheme Definition
1	Telephone (excluding mobile telephone)	Т	tel	Telephone	A voice telephone number.
2	Mobile (cellular) telephone NOTE: Mobile will also need a TelecommunicationAddress Use code of MC (Mobile Contact) (see HL7 v3: TelecommunicationAddressUse)	М	tel	Telephone	A voice telephone number.
3	Facsimile machine	F	fax	Fax	A telephone number served by a fax device.
4	Pager NOTE: Pager will also need a TelecommunicationAddress Use code of PG (Pager) (see HL7 v3: TelecommunicationAddressUse)	Р	tel	Telephone	A voice telephone number
5	Email	E	mailto	Mailto	Electronic mail address.

AS 5017-2006 Code	AS 5017-2006 Descriptor	AS 5017-2006 Alternative Code	HL7 URLScheme Code	HL7 URLScheme Name	HL7 URLScheme Definition
6 URL	URL	U	Use the most appropriate code from the list below:		
			file	File	Host-specific local file names [RCF 1738]. Note that the file scheme works only for local files. There is little use for exchanging local file names between systems, since the receiving system likely will not be able to access the file.
			ftp	FTP	The File Transfer Protocol (FTP).
			http	HTTP	Hypertext Transfer Protocol.
			mllp	MLLP	The traditional HL7 Minimal Lower Layer Protocol. The URL has the form of a common IP URL e.g., mllp:// <host>:<port>/ with <host> being the IP address or DNS host-name and <port> being a port number on which the MLLP protocol is served.</port></host></port></host>
			modem	Modem	A telephone number served by a modem device.
			nfs	NFS	Network File System protocol. Some sites use NFS servers to share data files.
			telnet	Telnet	Reference to interactive sessions. Some sites, (e.g., laboratories) have TTY based remote query sessions that can be accessed through telnet.

10.9 AS 5017-2006: Health Care Client Electronic Communication Usage Code

AS 5017-2006 mapped to HL7 TelecommunicationAddressUse (HL7 TAU) Code

Code	Descriptor	Alternative Code	HL7 TAU Code	HL7 TAU Name	HL7 TAU Description
1	Business	В	WP	Work place	An office address. First choice for business related contacts during business hours.
2	Personal	P	Н	Home address	A communication address at a home, attempted contacts for business purposes might intrude privacy and chances are one will contact family or other household members instead of the person one wishes to call. Typically used with urgent cases, or if no other contacts are available.
3	Both business and personal use	А	WP H	Both Work place and Home address	

10.10 AS 5017-2006 Australian State/Territory Identifier - Postal

Code	Descriptor
NSW	New South Wales
VIC	Victoria
QLD	Queensland
SA	South Australia
WA	Western Australia
TAS	Tasmania
NT	Northern Territory
ACT	Australian Capital Territory
U	Unknown

10.11 AS 5017-2006 Health Care Client Identifier Date Accuracy Indicator

The data elements that use this value set consist of a combination of three codes, each of which denotes the accuracy of one date component:

A – The referred date component is 'accurately known'.

E – The referred date component is an 'estimate'.

U – The referred date component is 'unknown'.

This data elements that use this value set contains positional fields (DMY).

Field 1 (D) – refers to the accuracy of the 'day component'.

Field 2 (M) – refers to the accuracy of the 'month component'.

Field 3 (Y) – refers to the accuracy of the 'year component'.



Note

The order of the date components in the HL7 date and time datatypes (YYYYMMDD) is the reverse of that specified above.

The possible combinations are as follows:

code	descriptor
AAA	Accurate date
AAE	Accurate day and month, estimated year
AEA	Accurate day, estimated month, accurate year
AAU	Accurate day and month, unknown year
AUA	Accurate day, unknown month, accurate year
AEE	Accurate day, estimated month and year
AUU	Accurate day, unknown month and year
AEU	Accurate day, estimated month, unknown year
AUE	Accurate day, unknown month

code	descriptor
EEE	Estimated date
EEA	Estimated day and month, accurate year
EAE	Estimated day, accurate month
EEU	Estimated day and month, unknown year
EUE	Estimated day, unknown month, estimated year
EAA	Estimated day, accurate month and year
EUU	Estimated day, unknown month and year
EAU	Estimated day, accurate month, unknown year
EUA	Estimated day, unknown month, accurate year
UUU	Unknown date
UUA	Unknown day and month, accurate year
UAU	Unknown day, accurate month, unknown year
UUE	Unknown day and month, estimated year
UEU	Unknown day, estimated month, unknown year
UAA	Unknown day, accurate month and year
UEE	Unknown day, estimated month and year
UAE	Unknown day, accurate month, estimated year
UEA	Unknown day, estimated month, accurate year

10.12 NCTIS: Admin Codes - Recommendation or Change Values

displayName	code	codeSystemName	codeSystem
A recommendation to make the change.	01	NCTIS Recommendation or Change Values	1.2.36.1.2001.1001.101.104.16594
The change has been made.	02	NCTIS Recommendation or Change Values	1.2.36.1.2001.1001.101.104.16594

10.13 NCTIS: Admin Codes - Document Status

displayName	code	codeSystemName	codeSystem
Interim	1	NCTIS Document Status Values	1.2.36.1.2001.1001.101.104.20104
Final	F	NCTIS Document Status Values	1.2.36.1.2001.1001.101.104.20104
Withdrawn	W	NCTIS Document Status Values	1.2.36.1.2001.1001.101.104.20104

10.14 NCTIS: Admin Codes - Global Statement Values

displayName	code	codeSystemName	codeSystem
None known	01	NCTIS Global Statement Values	1.2.36.1.2001.1001.101.104.16299
Not asked	02	NCTIS Global Statement Values	1.2.36.1.2001.1001.101.104.16299
None supplied	03	NCTIS Global Statement Values	1.2.36.1.2001.1001.101.104.16299

10.15 NCTIS: Admin Codes - Entitlement Type

displayName	code	codeSystemName	codeSystem
Medicare Benefits	1	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Pensioner Concession	2	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Commonwealth Seniors Health Concession	3	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Health Care Concession	4	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Repatriation Health Gold Benefits	5	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Repatriation Health White Benefits	6	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Repatriation Health Orange Benefits	7	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Safety Net Concession	8	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Safety Net Entitlement	9	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Medicare Prescriber Number	10	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047
Medicare Pharmacy Approval Number	11	NCTIS Entitlement Type Values	1.2.36.1.2001.1001.101.104.16047

10.16 HL7 V3: ObservationInterpretationNormality

displayName	code	codeSystemName	codeSystem
Abnormal	A	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
Abnormal alert	AA	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
High alert	НН	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
Low alert	LL	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
High	Н	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
Low	L	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83
Normal	N	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83

10.17 HL7 v3 CDA: Act.moodCode

Code	Value	Definition	
EVN	Event	The entry defines an actual occurrence of an event.	
INT	Intent	The entry is intended or planned.	
APT	Appointment	The entry is planned for a specific time and place.	
ARQ	Appointment Request	The entry is a request for the booking of an appointment.	
PRMS	Promise	A commitment to perform the stated entry.	
PRP	Proposal	A proposal that the stated entry be performed.	
RQO	Request	A request or order to perform the stated entry.	
DEF	Definition	The entry defines a service (master).	

10.18 HL7 v3 CDA: RelatedDocument.typeCode

Code Value Definition		Definition		
APND Append		The current document is an addendum to the ParentDocument.		
RPLC Replace		The current document is a replacement of the ParentDocument.		
XFRM	Transform	The current document is a transformation of the ParentDocument.		

10.19 METeOR 291036: Indigenous Status

displayName	code	codeSystemName	codeSystem
Aboriginal but not Torres Strait Islander origin	1	METeOR Indigenous Status	2.16.840.1.113883.3.879.291036
Torres Strait Islander but not Aboriginal origin	2	METeOR Indigenous Status	2.16.840.1.113883.3.879.291036
Both Aboriginal and Torres Strait Islander origin	3	METeOR Indigenous Status	2.16.840.1.113883.3.879.291036
Neither Aboriginal nor Torres Strait Islander origin	4	METeOR Indigenous Status	2.16.840.1.113883.3.879.291036
Not stated/inadequately described	9	METeOR Indigenous Status	2.16.840.1.113883.3.879.291036

10.20 NCTIS: Admin Codes - Result Status

displayName	code	codeSystemName	codeSystem
Registered [No result yet available.]	1	NCTIS Result Status Values	1.2.36.1.2001.1001.101.104.16501
Interim [This is an initial or interim result: data may be missing or verification not been performed.]	2	NCTIS Result Status Values	1.2.36.1.2001.1001.101.104.16501
Final [The result is complete and verified by the responsible practitioner.]	3	NCTIS Result Status Values	1.2.36.1.2001.1001.101.104.16501
Amended [The result has been modified subsequent to being Final, and is complete and verified by the practitioner.]	4	NCTIS Result Status Values	1.2.36.1.2001.1001.101.104.16501
Cancelled / Aborted [The result is not available because the examination was not started or completed.]	5	NCTIS Result Status Values	1.2.36.1.2001.1001.101.104.16501

10.21 NCTIS: Change Type Values

displayName	code	codeSystemName	codeSystem
Unchanged	01	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592
Changed	02	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592
Cancelled	03	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592
Prescribed	04	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592
Ceased	05	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592
Suspended	06	NCTIS Change Type Values	1.2.36.1.2001.1001.101.104.16592

10.22 OIDs

codeSystem (OID)	codeSystemName
2.16.840.1.113883.13.62	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006
2.16.840.1.113883.13.65	AIHW Mode of Separation
2.16.840.1.113883.6.96	SNOMED CT-AU
1.2.36.1.2001.1004.100	Australian Medicines Terminology (AMT)
2.16.840.1.113883.6.1	LOINC

nehta CDA Narratives

Appendix A. CDA Narratives

CDA requires that each Section in its Body include a narrative block, containing a complete version of the section's encoded content using custom hypertext markup defined by HL7. It is clinically significant that the narrative is the human-readable and attestable part of a CDA document.

There is no canonical markup for specific CDA components, but some conformance points apply:

- The narrative block **SHALL** be encapsulated within text component of the CDA Section. The Section's title component **SHOULD** contain the Section's label, and will form the heading for the Section's narrative rendering.
- The narrative contents SHALL conform to the requirements specified in the CDA Rendering Specification.
 - In accordance with the requirement to completely represent Section contents, coded type values SHALL include both originalText and displayName components where provided. The code component SHOULD be provided when a displayName is not available.
- It SHALL completely and accurately represent the information encoded in the Section. Content SHALL NOT be omitted
 from the narrative.
- It SHALL conform to the content requirements of the CDA specification [HL7CDAR2] and/or XML Schema.

The examples provided in sections of this document and the separate full example provide some guidance for narrative block markup. They may be easily adapted as boilerplate markup.

Appendix B. Log of Changes

This appendix lists the major changes and fixes applied to this CDA Implementation Guide resulting from public feedback and internal testing.

Changes Version 1.0 31 October 2011 to Version 1.0 01 December 2011

ID	Document Ref.		ument Ref. Change Type Change Detail		Rational For Change	Date	
	Section	Section Name			Instigated By		Changed
1	N/A	N/A	Document Status	Updated to Final	NEHTA	Status Change	01 December 2011
2	N/A	N/A	Participation Mapping Change	All participations that contain Employment details have been updated to include the CDA AU extension for Employment Details.	NEHTA	Corrected mapping	01 December 2011
3	7.1.6.3	Requested Service	Data group Identifer Updated	Data group Identifier updated to DG-20158.	NEHTA	Corrected data group identifier.	01 December 2011
4	N/A	N/A	Bug Fixes	Miscellaneous bug fixes throughout the document. No mapping or structural changes were incurred unless otherwise stated in this log of changes.	NEHTA	Bug fixes	01 December 2011

Changes Version 1.0 31 Oct 2011 to Version 1.1 01 December 2011

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
1	10.20	NCTIS: Admin Codes - Result Status	Code change	Section 10.18 NCTIS: Admin Codes - Result Status old spec: "1.2.36.1.2001.1001.101.104.16502" new spec: "1.2.36.1.2001.1001.101.104.16501"	NEHTA	Alignment of specifications	2 Dec 2012
2	6.1.1	DOCUMENT AUTHOR	Cardinality	Document Author > Participation Period element - author/time old spec: 11 new spec: 01	NEHTA	Alignment of specifications	2 Dec 2012
3	6.1.1	DOCUMENT AUTHOR	New Element (com- mon Pattern Employ- ment added)	Document Author > Participant > Person or Organisation or Device > Person > Employment Detail is now using the common Pattern Employment and removes the requirement for assignedAuthor/representedOrganisation (table entries plus xml fragment)	NEHTA	Alignment of specifications	2 Dec 2012
4	7.1.2.1	ADVERSE REACTION	Vocab change	Adverse Reaction > Reaction Event > Manifestation Vocab was SNOMED CT-AU Clinical Manifestation Values Reference Set and now Clinical Manifestation Values (Is this still SNOMED or something esle?)	NEHTA	Alignment of specifications	2 Dec 2012
5	7.1.3.1	MEDICATION	Element Changed	Medication > Change Type entry[med_inst]/substanceAdministration old spec: "negationInd" new spec: "@negationInd"	NEHTA	Alignment of specifications	2 Dec 2012
6	7.1.4.3	MEDICAL HISTORY ITEM	Element Removed	Medical History Item > Medical History Item Comment entry/act/entryRelationship/act/id: removed	NEHTA	Alignment of specifications	2 Dec 2012
7	7.1.4.3	MEDICAL HISTORY ITEM	element value changed	Medical History Item > Medical History Item Comment - entry/act/entryRelationship/@typeCode old spec: "REFR" new spec: "COMP"	NEHTA	Alignment of specifications	2 Dec 2012
8	7.1.5	IMMUNISATIONS	Context changed	Immunisations context old spec: "ClinicalDocument/component/structuredBody/component[meds]/section" new spec: "ClinicalDocument/component/structuredBody/component[imms]/section"	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	nt Ref.	Change Type	nge Type Change Detail		Rational For Change	Date
	Section	Section Name			Instigated By		Changed
9	7.1.5.1	IMMUNISATIONS	Cardinality	Immunisations cardinaility old spec: "Essential 1*" new spec: "Optional 0*"	NEHTA	Alignment of specifications	2 Dec 2012
10	7.1.6.1	PATHOLOGY TEST RESULT	Cardinality	Cardinality of Child TEST SPECIMEN DETAIL old spec: "Optional 0*" new spec: "Essential 1*"	NEHTA	Alignment of specifications	2 Dec 2012
11	7.1.6.1	PATHOLOGY TEST RESULT	Context changed	Pathology Test Result > Test Request Details > Test Requested Name context old spec: "entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/act" new spec: "entry[path_test_res]/observation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation"	NEHTA	Alignment of specifications	2 Dec 2012
12	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail cardinaility old spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
13	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing cardinality old spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
14	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing > Collection DateTime cardinaility old spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
15	7.1.6.1.1	TEST SPECIMEN DETAIL	Context changed	Test Specimen Detail Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test_res]/section/Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entry[path_test_res]/observation/	NEHTA	Alignment of specifications	2 Dec 2012
16	7.1.6.1.1	TEST SPECIMEN DE- TAIL	element value changed	Test Specimen Detail > Anatomical Site > Specific Location > Side - entryRelationship[spec]/observation/tar-getSiteCode/qualifier old spec: "value:CD" new spec: "value"	NEHTA	Alignment of specifications	2 Dec 2012
17	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Element Changed	Test Specimen Detail > Identifiers > Container Identifier Element entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ ext:asSpecimenInContainer/ext:container/id changed to entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ ext:asSpecimenInContainer/ext:container/ext:id	NEHTA	Alignment of specifications	2 Dec 2012
18	7.1.6.1.1	TEST SPECIMEN DE- TAIL	mapping	Collection DateTime mapping old spec: "Test Specimen Detail > Collection and handling > Handling and Processing > Collection DateTime" new spec: "Test Specimen Detail > Handling and Processing > Collection DateTime"	NEHTA	Alignment of specifications	2 Dec 2012
19	7.1.6.1.1	TEST SPECIMEN DE- TAIL	mapping	Collection Setting mapping old spec: "Test Specimen Detail > Collection and handling > Handling and Processing > Collection Setting" new spec: "Test Specimen Detail > Handling and Processing > Collection Setting"	NEHTA	Alignment of specifications	2 Dec 2012
20	7.1.6.1.1	TEST SPECIMEN DE- TAIL	mapping	DateTime Received mapping old spec: "Test Specimen Detail > Collection and handling > Handling and Processing > DateTime Received" new spec: "Test Specimen Detail > Handling and Processing > DateTime Received"	NEHTA	Alignment of specifications	2 Dec 2012
21	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	Context changed	Pathology Test Result Group Pathology Test Result Group Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entryRelationship[res_gp]/organizer Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entry[path_test_res]/observation/entryRelationship[res_gp]/organizer	NEHTA	Alignment of specifications	2 Dec 2012
22	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	element name change	Individual Pathology Test Result Value Normal Status old spec: "Result Value Normal Status" new spec: "Individual Pathology Test Result Value Normal Status"	NEHTA	Alignment of specifications	2 Dec 2012
23	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	element name change	Individual Pathology Test Result Value Reference Range Details old spec: "Result Value Reference Range Details" new spec: "Individual Pathology Test Result Value Reference Range Details"	NEHTA	Alignment of specifications	2 Dec 2012
24	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	element name change	Individual Pathology Test Result Comment old spec: "Result Comment" new spec: "Individual Pathology Test Result Comment"	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	nt Ref.	Change Type	Type Change Detail		Rational For Change	Date
	Section	Section Name			Instigated By		Changed
25	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	element name change	Individual Pathology Test Reference Range Guidance old spec: "Reference Range Guidance" new spec: "Individual Pathology Test Reference Range Guidance"	NEHTA	Alignment of specifications	2 Dec 2012
26	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	mapping	Individual Pathology Test Result Value mapping old spec: "Pathology Test Result Group > Individual Pathology Test Result > Result Value" new spec: "Pathology Test Result Group > Individual Pathology Test Result > IndividualPathology Test Result Value"	NEHTA	Alignment of specifications	2 Dec 2012
27	7.1.6.1.2.1	Result Group Speci- men Detail	Cardinality	Result Group Specimen Detail > Handling and Processing was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
28	7.1.6.1.2.1	Result Group Speci- men Detail	Cardinality	Result Group Specimen Detail > Handling and Processing > Collection DateTime was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
29	7.1.6.1.2.1	Result Group Speci- men Detail	Context changed	Result Group Specimen Detail Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entryRelationship[res_gp]/organizer/component/observation Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entry[path_test_res]/observation/entryRelationship[res_gp]/organizer/component/observation	NEHTA	Alignment of specifications	2 Dec 2012
30	7.1.6.1.2.1	Result Group Speci- men Detail	Element Changed	ResultGroup SpecimenDetail > Anatomical Site > Specific Location > Side Element component/observation/targetSiteCode/qualifier/value:CD now value ANY, ie component/observation/targetSiteCode/qualifier/value	NEHTA	Alignment of specifications	2 Dec 2012
31	7.1.6.1.2.1	Result Group Speci- men Detail	Element Changed	Result Group Specimen Detail > Identifier > Container Identifier was: component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/id now: component/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/ext:d	NEHTA	Alignment of specifications	2 Dec 2012
32	7.1.6.2	Imaging Examination Result	context clarification	Imaging Examination Result table new spec introduces "CDA Body Level 3 Data Elements" subgrouping whereas old spec does not	NEHTA	Alignment of specifications	2 Dec 2012
33	7.1.6.2	IMAGING EXAMINA- TION RESULT	Element Changed	Imaging Examination Result > Anatomical Site > Specific Location > Side Element: entry[img_exam_res]/observation/targetSiteCode/qualifier/value:CD now value ANY, ie entry[img_exam_res]/observation/targetSiteCode/qualifier/value	NEHTA	Alignment of specifications	2 Dec 2012
34	7.1.6.2	IMAGING EXAMINA- TION RESULT	Element Changed	Imaging Examination Result > Examination Result Representation Element: entry[img_exam_res]/observation/value:ED now text, ie entry[img_exam_res]/observation/text	NEHTA	Alignment of specifications	2 Dec 2012
35	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	Context changed	Imaging Examination Result Group Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[im_exam_res]/section/entryRelationship[im_res_gp]/organizer Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[img_exam]/section/entry[img_exam_res]/observation/entryRelationship[im_res_gp]/organizer	NEHTA	Alignment of specifications	2 Dec 2012
36	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	Element Changed	Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Reference Range Details > Imaging Examination Result Value Reference Range Element: entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observation-Range/value:PQ changed to value:IVL_PQ; ie entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/value:IVL_PQ	NEHTA	Alignment of specifications	2 Dec 2012
37	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	Element Changed	Imaging Examination Result Group > Anatomical Site > Specific Location > Side Element entryRelation-ship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/value:CD now value ANY, ie entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/targetSiteCode/qualifier/value	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	ument Ref. Change Type Change Detail	Changed	Rational For Change	Date		
	Section	Section Name			Instigated By		Changed
38	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Imaging Examination Result Value old spec: "Result Value" new spec: "Imaging Examination Result Value"	NEHTA	Alignment of specifications	2 Dec 2012
39	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Imaging Examination Result Value Normal Status old spec: "Result Value Normal Status" new spec: "Imaging Examination Result Value Normal Status"	NEHTA	Alignment of specifications	2 Dec 2012
40	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Imaging Examination Result Value Reference Range Details old spec: "Result Value Reference Range Details" new spec: "Imaging Examination Result Value Reference Range Details"	NEHTA	Alignment of specifications	2 Dec 2012
41	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Imaging Examination Result Value Reference Range Meaning old spec: "Result Value Reference Range Meaning" new spec: "Imaging Examination Result Value Reference Range Meaning"	NEHTA	Alignment of specifications	2 Dec 2012
42	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Imaging Examination Result Value Reference Range old spec: "Result Value Reference Range" new spec: "Imaging Examination Result Value Reference Range"	NEHTA	Alignment of specifications	2 Dec 2012
43	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	element name change	Anatomical Location old spec: "Anatomical Site" new spec: "Anatomical Location"	NEHTA	Alignment of specifications	2 Dec 2012
44	7.1.6.2.2	EXAMINATION RE- QUEST DETAILS	Context changed	Examination Request Details Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[im_exam]/section/entryRelationship[exam_req]/act Context now: Clinical-Document/component/structuredBody/component[diag_inv]/section/component[img_exam]/section/entry[img_exam_res]/observation/entryRelationship[exam_req]/act	NEHTA	Alignment of specifications	2 Dec 2012
45	7.1.6.3	Requested Service	Code change	Requested Service code change from "102.16636" to "102.20158"	NEHTA	Alignment of specifications	2 Dec 2012
46	7.1.6.3	Requested Service	Context changed	CDA Body Level 3 Data Elements Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[arranged]/section Context now: ClinicalDocument/component/structured-Body/component[diag_inv]/section/component[req_serv]/section	NEHTA	Alignment of specifications	2 Dec 2012
47	7.1.6.3.1.1	Service Provider - Person	Cardinality	Service Provider > Participant > Person or Organisation or Device > Person > Person Name old spec: 11 new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
48	7.1.6.3.1.1	Service Provider - Person	Context changed	Service Provider (Person) Context was: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/section/entry[service]/act/performer Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/entry[service]/act/performer	NEHTA	Alignment of specifications	2 Dec 2012
49	7.1.6.3.1.1	Service Provider - Person	Element Changed	Service Provider > Participation Period removed old spec: - Service Provider > Participation Period - The time interval during which the participation in the health care event occurred 01 performer/time - See <time> for available attributes. new spec: => removed</time>	NEHTA	Alignment of specifications	2 Dec 2012
50	7.1.6.3.1.1	Service Provider - Person	Common Pattern	Document Author > Participant > Person or Organisation or Device > Person > Employment Detail Is now defined as the common Pattern Employment and this removes the need for the previous requirement of assignedAuthor/representedOrganisation Common pattern: Employment has been added (pg 259-260)	NEHTA	Alignment of specifications	2 Dec 2012

ID	Document Ref.		Change Type	Change Detail		Rational For Change	Date
	Section	Section Name			Instigated By		Changed
51	7.1.6.3.1.1	Service Provider - Person	Vocab change	Service Provider > Role old spec: "Role SHALL have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899. [ABS2006]" new spec: "Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899. [ABS2006]. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publically available MAY be used."	NEHTA	Alignment of specifications	2 Dec 2012

Changes Version 1.1 01 December 2011 to Version 1.2 07 March 2012

ID	Documen	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
1	Page ii	Copyright	Updated Copyright year	Changed year from '2011' to '2012'.	NEHTA	Document Feedback	07 March 2012
2	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. This document describes how an ES SCS is implemented as a CDA document. Conformance can be claimed to this Implementation Guide, either with regard to instances of Event Summary CDA XML documents, or to systems that consume or produce Event Summary CDA XML documents. When a conformance claim is made, it is made against this document, i.e. 'Event Summary: CDA Implementation Guide v1.1'. to This document describes how an Event Summary SCS is implemented as a CDA document. Conformance claims are not made against this Implementation Guide directly; rather, they are made against additional conformance profiles documented elsewhere. Any document that claims conformance to any derived conformance profile must meet these base requirements:	NEHTA	Document Feedback	07 March 2012
3	1.8	Conformance	Updated Conformance statement	Removed the following statements from the Conformance section. 1. A conformant document has the following properties. 2. It SHALL adhere to all cardinalities as specified in the mappings in this guide. 3. It SHOULD ensure that all the information in the CDA narrative sections is also present as coded entries. Note: it is a base CDA requirement that all data in the entries SHALL be represented in the narrative. 4. A system that produces Event Summary CDA documents may claim conformance if all the documents it produces are conformant to this guide.	NEHTA	Document Feedback	07 March 2012

ID	Documen	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
4	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. It SHALL use vocabularies and codes sets as specified in the mappings, unless the vocabulary has been explicitly stated as: to If the vocabulary has been explicitly stated as 'NS' it must be interpreted as:	NEHTA	Document Feedback	07 March 2012
5	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. It SHALL be valid against the additional conformance requirements that are established in this document. to It SHALL be valid against the additional conformance requirements that are established in this document (i.e. any use of the word "SHALL" in uppercase and bold typeface).	NEHTA	Document Feedback	07 March 2012
6	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. The document SHALL conform to the requirements specified in the CDA Rendering Guide. to The document SHALL conform to the requirements specified in the CDA Rendering Specification.	NEHTA	Document Feedback	07 March 2012
7	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. Any additional content included in the CDA document that is not described by this implementation guide SHALL not qualify or negate content described by this guide and it SHALL be clinically safe for receivers of the document to ignore the non-narrative additions. to Any additional content included in the CDA document that is not described by this implementation guide SHALL not qualify or negate content described by this guide and it SHALL be clinically safe for receivers of the document to ignore the non-narrative additions when interpreting the existing content.	NEHTA	Document Feedback	07 March 2012

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
8	1.8	Conformance	Updated Conformance statement	Updated the conformance statement from. A system that consumes Event Summary CDA documents may claim conformance if it correctly processes conformant instance documents, including correctly understanding all the information in the header. It may, but is not required to, reject nonconformant documents. Note: conformant systems that consume Event Summary CDA documents are not required to process all the structured data entries in the CDA document but they SHALL be able to correctly render the document for endusers when appropriate (see 2.1 Clinical Document Architecture Release 2). to A system that consumes Event Summary CDA documents may claim conformance if it correctly processes conformant instance documents, including correctly understanding all the information in the header. It may, but is not required to, reject nonconformant documents. Conformant systems that consume Event Summary CDA documents are not required to process any or all of the structured data entries in the CDA document but they SHALL be able to correctly render the document for end-users when appropriate (see 2.1 Clinical Document Architecture Release 2).	NEHTA	Document Feedback	07 March 2012
9	1.8	Conformance	Updated Conformance statement	Added the following statements to the conformance section. Conformance Profiles of this document may make additional rules that override this document in regard to 1. Allowing the use of alternative value sets in place of the value sets specified in this document 2. Allowing the use of alternative identifiers in place of the HI Service identifiers 3. Making required data elements and/or section divisions optional	NEHTA	Document Feedback	07 March 2012
10	1.9	Known Issues	Removed Known Issue	Removed the following Known Issue Throughout document Participation 3.2 has Person name as 1*. For consistency with other CDA guides this is remaining as 11	NEHTA	Document Feedback	07 March 2012
11	1.9	Known Issues	Added Known Issue	Added the following Known Issue Throughout document While every effort has been taken to ensure that the examples are consistent with consistent with the normative mappings in this message specification, care need to be taken when copying XML examples for implementation and validation.	NEHTA	Document Feedback	07 March 2012
12	1.9	Known Issues	Removed Known Issue	Removed the following Known Issue 5 CDA Header CDA Header concepts relevant to the creation of a valid CDA document are not defined with clear instruction and guidance on their intended use. i.e. Custodian is mandatory in CDA - what would this be in this document?	NEHTA	Document Feedback	07 March 2012

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
13	1.9	Known Issues	Removed Known Is-	Removed the following Known Issue	NEHTA	Document Feedback	07 March 2012
			sue	Entity Identifier			
				Conformance statements in the comments column need to be verified.			
14	10.19	METeOR 291036: Indigenous Status	Updated CodeSystem	Updated CodeSystem from '2.16.840.1.113883.3.879' to '2.16.840.1.113883.3.879.291036' in the Indigenous Status CodeSet table.	NEHTA	Document Feedback	07 March 2012
15	10.21	NCTIS: Change Type Values	Updated '10.21 NC- TIS: Change Type	Added new Code Set value for 'Ceased' with the following value.	NEHTA	Document Feedback	07 March 2012
		values	Values' table	displayName = Ceased			
				code = 05			
				codeSystemName = NCTIS Change Type Values			
				codeSystem = 1.2.36.1.2001.1001.101.104.16592			
16	10.21	NCTIS: Change Type Values		Added new Code Set value for 'Suspended' with the following value.	NEHTA	Document Feedback	07 March 2012
				displayName = Suspended			
				code = 06			
				codeSystemName = NCTIS Change Type Values			
				codeSystem = 1.2.36.1.2001.1001.101.104.16592			
17	10.21	NCTIS: Change Type Values	Updated new '10.15 NCTIS: Change	Changed codeSystem value from	NEHTA	Document Feedback	07 March 2012
		values	Type Values' table	NCTIS Change Type Values			
				to			
				1.2.36.1.2001.1001.101.104.16592			
				Changed codeSystemName value from			
				NCTIS Data Components.104.16592			
				to			
				NCTIS Change Type Values			
18	2.3	CDA Extensions	Updated version numbers	Changed the current CDA extensions version and its namespace version number from 1.0 to 3.0	NEHTA	Document Feedback	07 March 2012
			Humbers	Changed the future CDA extension namespace version number reference from 2.0 to 4.0			
19	3	Event Summary Data Hierarchy	Updated Data Hier- archy	Updated 'DIAGNOSTIC INVESTIGATIONS> PATHOLOGY TEST RESULT> TEST SPECIMEN DETAIL' cardinality from 0* to 1*	NEHTA	Document Feedback	07 March 2012
20	3	Event Summary Data Hierarchy	Updated Data Hier- archy	Updated 'TEST SPECIMEN DETAIL > Handling and Processing' cardinality from 01 to 11	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
21	3	Event Summary Data Hierarchy	Updated Data Hierarchy	Updated 'TEST SPECIMEN DETAIL > Handling and Processing > Collection DateTime' cardinality from 01 to 11	NEHTA	Document Feedback	07 March 2012
22	3	Event Summary Data Hierarchy	Updated Data Hierarchy	Updated 'Result Group Specimen Detail > Handling and Processing' cardinality from 01 to 11	NEHTA	Document Feedback	07 March 2012
23	3	Event Summary Data Hierarchy	Updated Data Hierarchy	Updated 'Result Group Specimen Detail > Handling and Processing > Collection DateTime' cardinality from 01 to 11	NEHTA	Document Feedback	07 March 2012
24	5.1	ClinicalDocument	Updated mapping and XML example	Updated mapping templateId/@extension mapping and XML example to "1.2".	NEHTA	Document Feedback	07 March 2012
25	5.1	ClinicalDocument	Updated Mapping and XML example fragment	Changed templateId/@root and XML example from. 1.2.36.1.2001.1001.101.100.16473 to 1.2.36.1.2001.1001.101.100.1002.136	NEHTA	Document Feedback	07 March 2012
26	5.1	ClinicalDocument	Updated Mapping table	Changed templateId/@root 'Comments' column from. The healthcare context-specific name of the published Structured Content Specification. to The healthcare context-specific name of the published Event Summary CDA Implementation Guide.	NEHTA	Document Feedback	07 March 2012
27	5.1	ClinicalDocument	Updated Cardinality and comment	Changed ClinicalDocument/templateId cardinality from 11 to 1* in the mapping table. Added the following comment to the mapping table 'Comments' column. One or more template identifiers that indicate constraints on the CDA document that this document conforms to. One of the identifiers must be the templateId that identifies this specification (see immediately below). Additional template identifiers may be required by other specifications, such as the CDA Rendering Specification. Systems are not required to recognise any other the template identifiers than the one below in order to understand the document as a [type] but these identifiers may influence how the document must be handled.	NEHTA	Document Feedback	07 March 2012
28	5.1.1	LegalAuthenticator	Updated Mapping reference	Changed all occurances of 'LegalAuthenticator' in the mapping table to 'legalAuthenticator'.	NEHTA	Document Feedback	07 March 2012
29	6.1.1	DOCUMENT AUTHOR	Updated Mapping table	Updated the '' close tag order in the XML example	NEHTA	Document Feedback	07 March 2012
30	6.1.1	DOCUMENT AUTHOR	Updated cardinality	Updated 'Document Author > Participant > Person or Organisation or Device > Person > Person Name' cardinality from '11' to '1*'.	NEHTA	Document Feedback	07 March 2012
31	6.1.1	DOCUMENT AUTHOR	Updated Mapping table	Added 'See common pattern:Entity Identifier' to the 'Document Author > Participant > Entity Identifier' Comments column.	NEHTA	Document Feedback	07 March 2012
32	6.1.2	SUBJECT OF CARE	Updated cardinality	Updated 'Subject of Care > Participant > Person or Organisation or Device > Person > Person Name' cardinality from '11' to '1*'.	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
33	6.1.2	SUBJECT OF CARE	Updated R-MIM representation	Added 01 as cardinality for assignedGeographicArea	NEHTA	Document Feedback	07 March 2012
34	6.1.2	SUBJECT OF CARE	Updated mapping table	Added 'CDA Header Data Elements' and 'Clinical Document' context header above the following mappings Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Country of Birth Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > State/Territory of Birth Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Indigenous Status	NEHTA	Document Feedback	07 March 2012
35	7.1.2.1	ADVERSE REACTION	Updated context	Replaced all occurrences of 'entry/act/code/entryRelationship[rct_evnt]/observation/' to 'entry/act/entryRelationship[rct_evnt]/observation/code'.	NEHTA	Document Feedback	07 March 2012
36	7.1.4.1	PROBLEM/DIAGNOS-IS	Updated mapping	Updated context from: ClinicalDocument/component/structuredBody/component[dia_inv]/section to: ClinicalDocument/component/structuredBody/component[dia_int]/section	NEHTA	Document Feedback	07 March 2012
37	7.1.4.2	PROCEDURE	Updated mapping	Updated context from: ClinicalDocument/component/structuredBody/component[dia_inv]/section to: ClinicalDocument/component/structuredBody/component[dia_int]/section	NEHTA	Document Feedback	07 March 2012
38	7.1.4.3	MEDICAL HISTORY ITEM	Updated XML ex- ample fragment	Removed the id element from the XML mapping example.	NEHTA	Document Feedback	07 March 2012
39	7.1.4.3	MEDICAL HISTORY ITEM	Updated XML ex- ample fragment	Changed typeCode attribute value from 'REFR' to 'Comp' in the XML example.	NEHTA	Document Feedback	07 March 2012
40	7.1.4.3	MEDICAL HISTORY ITEM	Updated mapping	Updated context from: ClinicalDocument/component/structuredBody/component[dia_inv]/section to: ClinicalDocument/component/structuredBody/component[dia_int]/section	NEHTA	Document Feedback	07 March 2012
41	7.1.6	DIAGNOSTIC INVEST- IGATIONS	Updated R-MIM representation	Removed text element from the 'Section' class in the R-MIM diagram.	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
42	7.1.6.1	PATHOLOGY TEST RESULT	Updated XML example	Updated codeSystem value in 'Overall Pathology Test Result Status' XML example from. codeSystem="1.2.36.2001.1001.104.16501" to codeSystem="1.2.36.1.2001.1001.101.104.16501"	NEHTA	Document Feedback	07 March 2012
43	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Updated mapping	Updated mapping from: entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/text:ST to: entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/value:ST	NEHTA	Document Feedback	07 March 2012
44	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Updated XML example	Updated XML example for 'Test Specimen Detail > Handling and Processing > Collection Setting' from: <text>Pathology Clinic</text> to: <value **realize**="" realize**="" realize**<="" td=""><td>NEHTA</td><td>Document Feedback</td><td>07 March 2012</td></value>	NEHTA	Document Feedback	07 March 2012
45	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Updated XML ex- ample	Removed two occurrences of xsi:type="ED" attribute from observationMedia/value data elements.	NEHTA	Document Feedback	07 March 2012
46	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Updated XML ex- ample fragment	Updated the XML example for 'Test Specimen Detail > Identifiers > Container Identifier' value from 'id' to 'ext:id' and added @extension="CNH45218964".	NEHTA	Document Feedback	07 March 2012
47	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	Updated XML ex- ample	Updated SCS Data Component Name from: Individual Pathology Test Result Value Reference Range Details to: Individual Pathology Test Result Value Reference Range	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
48	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	Updated XML ex- ample	Updated 'Pathology Test Result Group > Individual Pathology Test Result > Individual Pathology Test Result Value Normal Status' XML fragment from.	NEHTA	Document Feedback	07 March 2012
				<pre><interpretationcode code="N"></interpretationcode></pre>			
				to			
				<pre><interpretationcode code="N" codesystem="2.16.840.1.113883.5.83" codesystemname="HL7 ObservationInterpretationNor- mality" displayname="Normal"></interpretationcode></pre>			
				and			
				<pre><interpretationcode code="HH"></interpretationcode></pre>			
				to			
				<pre><interpretationcode code="HH" codesystem="2.16.840.1.113883.5.83" codesystemname="HL7 ObservationInterpretationNor- mality" displayname="High alert"></interpretationcode></pre>			
49	7.1.6.1.2.1	.1 Result Group Speci- men Detail	Updated mapping	Updated mapping from:	NEHTA	Document Feedback	07 March 2012
		men betair		component/observation/entryRelationship[coll_set]/observation/text:ST			
				to:			
				component/observation/entryRelationship[coll_set]/observation/value:ST			
50	7.1.6.1.2.1	RESULT GROUP SPECIMEN DETAIL	Updated XML ex- ample	Updated XML example for 'Result Group Specimen Detail > Handling and Processing > Collection Setting' from:	NEHTA	Document Feedback	07 March 2012
				<text>Pathology Clinic</text>			
				to:			
				<pre><value value="Pathology Clinic" xsi:type="ST"></value></pre>			
51	7.1.6.1.2.1	Result Group Speci- men Detail	Updated XML ex- ample fragment	Updated the XML fragment for 'Result Group Specimen Detail > Identifiers > Container Identifier' from 'id' to 'ext:id'.	NEHTA	Document Feedback	07 March 2012
52	7.1.6.1; Ex- ample 7.20.	IMAGING EXAMINA- TION RESULT GROUP.	Updated XML ex- ample fragment	Added qualifier element to the XML example.	NEHTA	Document Feedback	07 March 2012
53	7.1.6.2.1	IMAGING EXAMINA- TION RESULT	Updated SCS Data	Updated SCS Data Component Name from:	NEHTA	Document Feedback	07 March 2012
		GROUP	Component Name	Imaging Examination Result Group > Anatomical Site			
				to:			
				Imaging Examination Result Group > Anatomical Location			

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
54	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	Updated XML example	Updated 'Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Normal Status' XML fragment from. <interpretationcode code="N"></interpretationcode> to <interpretationcode code="N" codesystem="2.16.840.1.113883.5.83" codesystemname="HL7 ObservationInterpretationNormality" displayname="Normal"></interpretationcode>	NEHTA	Document Feedback	07 March 2012
55	7.1.6.2.2	EXAMINATION REQUEST DETAILS	Updated mapping	Updated 5 occurances of Examination Request Details > Image Details > DICOM Series Identifier mapping from entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/observation/ to entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/entryRelationship[dicom_ser]/act/	NEHTA	Document Feedback	07 March 2012
56	7.1.6.2.2	EXAMINATION RE- QUEST DETAILS	Updated XML ex- ample	Removed xsi:type="ED" attribute from observationMedia/value data elements.	NEHTA	Document Feedback	07 March 2012
57	7.1.6.2; Ex- ample 7.19.	IMAGING EXAMINA- TION RESULT	Updated XML ex- ample fragment	Added qualifier element to the XML example.	NEHTA	Document Feedback	07 March 2012
58	7.1.6.3.1.1	Service Provider - Person	Updated SCS Data Component Name	Updated context from: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/entry[service]/act to: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[req_serv]/section/entry[service]/act	NEHTA	Document Feedback	07 March 2012
59	7.1.6.3.1.1	Service Provider - Person	Updated R-MIM Representation	Removed 'administrativeGenderCode' and 'birthTime' attributes and its 'Note' comment from the 'Person' class in the R-MIM diagram.	NEHTA	Document Feedback	07 March 2012
60	7.1.6.3.1.2	Service Provider - Organisation	Updated mapping table	Changed mapping table Context label from CDA Header Data Elements to CDA Body Level 3 Data Elements	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
61	8.4	Entity Identifier	Updated cardinality	Updated cardinality column text from	NEHTA	Document Feedback	07 March 2012
				Cardinality comes from linking parent.			
				to			
				The cardinality of the group comes from the linking parent. The cardinality of the children data elements comes from the R-MIM diagram.			
62	8.7	Electronic Communication Detail	Updated Vocabulary reference	Updated Vocab column text for 'Electronic Communication Medium' and 'Electronic Communication Usage Code' from	NEHTA	Document Feedback	07 March 2012
				AS 5017-2006: Health Care Client Electronic Communication Usage Code> HL7:TelecommunicationAddressUse.			
				to			
				HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAddressUse.			
63	8.7	Electronic Communication Detail	Updated Mapping comments	Added the following text to 'Electronic Communication Medium' and 'Electronic Communication Usage Code' comments column	NEHTA	Document Feedback	07 March 2012
				The 'AS 5017-2006: Health Care Client Electronic Communication Usage Code' section explains how to map AS 5017-2006 to HL7 TelecommunicationAddressUse (HL7 TAU) code.			
64	8.8	Employment	Added Mapping	Added ext:asEmployment/@classCode mapping to the mapping table.	NEHTA	Document Feedback	07 March 2012
65	8.8	Employment	Updated Mapping	Changed employerOrganization to ext:employerOrganization in the mapping table.	NEHTA	Document Feedback	07 March 2012
66	8.8	Employment	Added mapping	Added mapping for 'Employment' NEHTA logical data component with cardinality as mentioned below	NEHTA	Document Feedback	07 March 2012
				Cardinality comes from linking parent.			
67	8.8	Employment	Added Mapping	Added the following statement to the 'Employment Detail > Employer Organisation' row.	NEHTA	Document Feedback	07 March 2012
				There is a known issue in NEHTA Participation Data Specification for this logical Data Component's cardinality.			
				Furthermore the corresponding CDA elements ext:asEmployment and ext:employerOrganization doesn't allow the cardinality to be '0*'/multiple. The cardinality SHALL be interpreted as '01' instead of '0*'.			
68	8.8	Employment	Added Mapping	Added the following statement to the 'Employment Detail > Occupation' row.	NEHTA	Document Feedback	07 March 2012
				The corresponding CDA element ext:jobCode doesn't allow the cardinality be '0*'/multiple. The cardinality SHALL be interpreted as '01' instead of '0*'.			
69	8.8	Employment	Updated Mapping	Added the 'Note' text above the Employment Mapping table.	NEHTA	Document Feedback	07 March 2012
70	8.8	Employment	Updated cardinality	Changed cardinality for 'Employment Detail > Employer Organisation' from '1*' to'0*'	NEHTA	Document Feedback	07 March 2012

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rational For Change	Date
	Section	Section Name			Instigated By		Changed
71	Appendix A	CDA Narratives	Updated Conformance points	Changed the following conformance point from. The narrative contents SHALL be completely and accurately rendered in a standards-compliant web browser by the transformation provided by HL7. Producers MAY assume that consumers are able to apply HL7's transformation. Producers MAY distribute transformations for alternate or enhanced rendering, but SHALL NOT rely upon their use. to The narrative contents SHALL conform to the requirements specified in the CDA Rendering Specification.	NEHTA	Document Feedback	07 March 2012
72	Appendix A	CDA Narratives	Updated Conformance statements	Removed the following conformance points. CDA structured information generally takes the form of nested lists leading to either simple values or name-value pairs. It is usually marked up as either data tables or lists. Lists are often more attractive, particularly in automated generation, because they are more amenable to safe nesting. Also, HL7 narrative lists are well suited to name-value pairs because both the lists themselves and their items may have captions, which are well suited for labels (names). Style and formatting markup is often discarded by the default HL7 transformation Note Implementers should test their chosen narrative markup early in the development process using the standard HL7 transformation in a web browser, to confirm that it renders completely	NEHTA	Document Feedback	07 March 2012
73	Document Version	Throughout the document.	Incremented version number	Incremented version number from 1.1 to 1.2	NEHTA	Bug fix	07 March 2012
74	Event Sum- mary SCS Reference	Throughout the document.	Updated biblio- graphy reference	The document reference for Event Summary SCS bibliography reference has been updated throughout the document.	NEHTA	Document Feedback	07 March 2012
75	N/A	Reference List	Updated biblio- graphy reference	Changed Event Summary SCS reference from National E-Health Transition Authority, 31 October 2011, Event Summary Structured Content Specification, Version 1.0 to National E-Health Transition Authority, To be published, Event Summary Structured Content Specification, Version 1.1	NEHTA	Document Feedback	07 March 2012

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