nehta

e-Referral

CDA Implementation Guide

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Final

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Document Information

Document owner

Document Owner	
The National Clinical Terminology and Information Service	

Related documents

Name	Version/Release Date
e-Referral Structured Content Specification	Version 2.1, Issued 09 December 2011
Participation Data Specification	Version 3.2, Issued 20 July 2011

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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 e-Referral Structured Content Specification (e-RF SCS) as an HL7 Clinical Document Architecture Release 2 (CDA) XML document. This guide is based on Version 2.1 of the e-RF SCS [NEHT2011bj]. The primary aim of the guide is to take implementers step by step through mapping each data component of the e-RF 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 e-Referral. The resulting CDA document would be used for the electronic exchange of e-Referrals 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 e-Referral Definition

An e-Referral is defined in the e-RF SCS [NEHT2011bj] as:

A referral of a subject of care from one health care provider to another.

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).

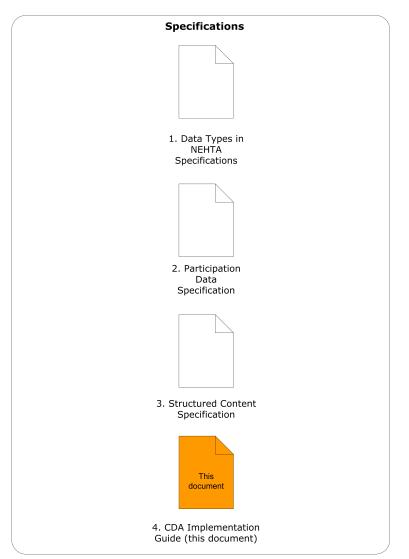
1.4 Intended Audience

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.

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

3. e-Referral – Structured Content Specification [NEHT2011bj] – clinical content specification describing the logical data structures, data components, and value domains which constitute an e-Referral.

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 partic- ular 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 e-Referral 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* e-Referral 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 e-Referral 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

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 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, codeSystem- Name and codeSystem while only the displayName is used in the mapping. Verification of using only the display- Name needs to be performed.
See the section called "CDA Mapping" for Patient Nomin- ated Contacts - Person > Relationship to Subject of Care	Relationship to Subject of Care is not mapped to CDA.
<code></code>	The explanation of how to use the code element in the Common Patterns chapter needs to be revisited.
Throughout document	The ids on roles are not clearly explained. The following guidance is given in the comments field of the mapping table:
	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.
	This explanation needs to be clarified.
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.
<time></time>	Need to give guidance on timezones for time values. This may be something that should be enforced for all time values.
Thoughout document	While every effort has been taken to ensure that the ex- amples 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 e-RF SCS as a conformant HL7 CDA XML document. The e-Referral is built in two parts:

- 1. A Structured Content Specification (SCS), which, in conjunction with its related documents (see Document Map), describes the e-Referral, 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 e-Referral 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 e-RF 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 narrative 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 e-RF 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)

NameITEM NAMEMetadata typeMetadata 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.	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 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.

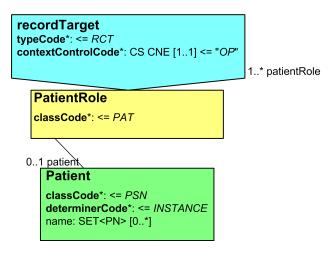


Figure 2.1. Example - Header Part

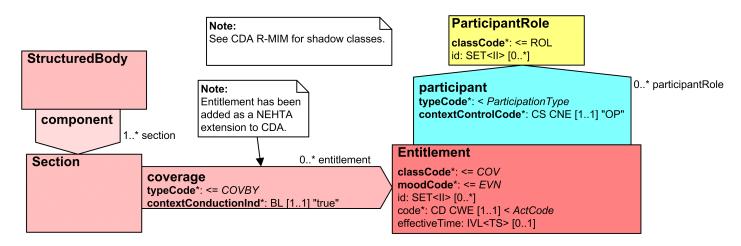


Figure 2.2. Example - Body Part

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
	SCS.	the SCS.	The syntax for this is similar to XPath:	vocabu-	the mapping.
Each section in this document corres-		The cardinality of	{/name{[index]}}n{/ <pattern>}</pattern>	lary.	
ponds to an SCS section or data		the data element in the SCS maps to	Where:		
group, and is scoped by that sec-		the cardinality of the element in the	{} indicates optional		
tion or data group. The hierarchical		CDA document.	{In means a section that may repeat		
path uses ">" as a separator for paths		Where the cardinal- ity of the SCS data	 <pattern> contains a link to a common pattern</pattern> 		
within the SCS data hierarchy.		element is more constrained that	[index] differentiates two similar mappings		
If there is a name in		the cardinality of the CDA element	Examples:		
round brackets after		then the SCS car-	1. component/act/participation[inf_prov]/role/ <address></address>		
the path, this is the		dinality takes pre-			
name of the reused		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		ſ
i.e. Parent Data		If an item with a	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		
Component > Child		maximum cardinal- ity > 1 maps to an	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-	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		
		tain multiple values	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		
		separated by	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,		
		spaces. No such	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 Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		
Subject of Care	The person the referral is for.	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 ele- ment. If there are any enti- tlements for Subject of Care this value SHALL be the same as: ClinicalDocu- ment/ component/ structuredBody/ component[ad- min_obs]/ section/ entry/ act/ parti- cipant/ participan- tRole/ id where parti- cipantRole/ @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 ser- vice, 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 recordTarget/ patientRole/ patient.
Subject of Care > Participant > Person > Person Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	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.

- 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"

9. 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 > 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"/>
        <!--->
        <patient>
             <!-- 4 Corresponds to:
                     '//recordTarget/patientRole/patient/<Person Name>'
                 in the mapping -->
             <name use="L">
                 <prefix>Ms</prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></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 e-Referral CDA W3C XML Schema (referred to in this document as the e-RF 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 e-RF CDA Schema; and
- Australian CDA extensions have been added to the e-RF CDA Schema.

The modified e-RF 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.

e-Referrals that conform to this specification **SHALL** validate against the e-RF 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 e-RF 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 e-Referral Data Hierarchy

The data hierarchy below provides a logical representation of the data structure of the e-RF SCS data components.

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

	e-Referr	leferral										
CONTE	CONTEXT											
		SUBJECT OF CARE										
		DOCUM	IENT AUTI	IOR	11							
	70	DateTime Authored										
	8	PATIENT NOMINATED CONTACTS										
	7	DateTim	e Attested		11							
CONTE	NT											
	~~	REFER	RAL DETA	L	11							
		70	Referral	DateTime	11							
		Τ	Referral	Reason	11							
			Referral	Validity Duration	11							
		8	USUAL	GP	01							
		8	REFERE	E	11							
		MEDICA		Y	11							
		~	PROBLE	EM/DIAGNOSIS	0*							
			001011001	Problem/Diagnosis (Problem/Diagnosis Identification)	11							
			7.	Date of Onset	01							
			7.	Date of Resolution/Remission	01							
			Τ	Comment (Problem/Diagnosis Comment)	01							
		~	PROCE	DURE	0*							
			001011001	Procedure Name	11							
			Τ	Comment (Procedure Comment)	01							

		7.0	Start Dat	te/Time (DateTime Started)	01					
	~	OTHER	MEDICAL	HISTORY ITEM	0*					
		Τ	Medical	History Item Description	11					
		200	Medical	History Item Time Interval	01					
		Т	Medical	Medical History Item Comment						
	MEDIC	ATIONS	1		11					
	~	EXCLUS	SION STAT	EMENT - MEDICATIONS	01					
		001011001	Global S	tatement	11					
	~	MEDICA	TION INS	TRUCTION	0*					
		001011001	Medicine	e (Therapeutic Good Identification)	11					
		Τ	Direction	IS	11					
	ADVER	SE REACT	TIONS		11					
	~	EXCLUS	SION STAT	EMENT - ADVERSE REACTIONS	01					
		001011001	Global S	tatement	11					
	~	ADVER	SE REACT	ION	0*					
		001011001	Substan	ce/Agent	11					
		~	Reaction	Event	01					
			001011001	Manifestation	1*					
	DIAGNO	DSTIC INV	ESTIGATIO	- DNS	01					
	~	PATHOL	OGY TES	T RESULT	0*					
		001011001	Test Res	ult Name (Pathology Test Result Name)	11					
		001011001	Diagnos	tic Service	01					
		•	TEST SF	PECIMEN DETAIL	1*					
			001011001	Specimen Tissue Type	01					
			001011001	Collection Procedure	01					
 		1	1	1	I					

	~	ANATON	ANATOMICAL SITE (Anatomical Location)					
		~	SPECIFI	C LOCATION	01			
			001011001	Name of Location (Anatomical Location Name)	01			
			001011001	Side	01			
		Τ	Descripti	on (Anatomical Location Description)	01			
		001011001	Image (Anatomical Location Image)					
	~	PHYSIC	PHYSICAL DETAILS (Physical Properties of an Object)					
			Weight		01			
		~	DIMENS	IONS	01			
				Volume	01			
		Τ	Descripti	on (Object Description)	01			
		001011001	Image					
	~	COLLEC	COLLECTION AND HANDLING					
		001011001	Sampling Preconditions					
	~	HANDLII	HANDLING AND PROCESSING					
		7.00	Date and Time of Collection (Collection DateTime)					
		Τ	T Collection Setting					
		7	Date and Time of Receipt (DateTime Received)					
	~	IDENTIF	IERS		01			
		46 X X	Specime	n Identifier	01			
		46 X	Parent Specimen Identifier					
		46 XX	Container Identifier					
001011001	Overall 1	Test Result Status (Overall Pathology Test Result Status)						
Τ	Clinical I	Information	Provided		01			
•	PATHOL	.OGY TES	T RESULT	GROUP	0*			

	001011001	Result G	roup Name	e (Patholog	gy Test Result Group Name)	11		
		RESULT	(INDIVIDU	JAL PATHO	OLOGY TEST RESULT)	1*		
		001011001	Result Na	ame (Indivi	idual Pathology Test Result Name)	11		
			Result Value (Individual Pathology Test Result Value)					
		001011001	Ctatua					
		~~	RESULT VALUE REFERENCE RANGE DETAILS (Individual Pathology Test Result Value Reference Range Details)					
			Result Value Reference Range Meaning (Individual Pathology Test Result Reference Range Meaning)					
			Result Value Reference Range (Individual Pathology Test Result Reference Range)					
		Τ	Result Comment (Individual Pathology Test Result Comment)					
		Τ	Reference Range Guidance (Individual Pathology Test Result Reference Range Guidance)					
		T 001011001	Result Status (Individual Pathology Test Result Status)					
	~~	RESULT GROUP SPECIMEN DETAIL						
		001011001	Specimen Tissue Type					
		001011001	Collection Procedure					
		~~	ANATOM	AICAL SITE	E (Anatomical Location)	0*		
			~	SPECIFI	C LOCATION	01		
				001011001	Name of Location (Anatomical Location name)	01		
				001011001	Side	01		
			Τ	Descriptio	on (Anatomical Location Description)	01		
			001011001	Image (A	natomical Location Image)	0*		
		~	PHYSIC	AL DETAIL	S (Physical Properties of an Object)	0*		
				Weight		01		
			~	DIMENS	IONS	01		

	, ,		1										
								/olume	01				
						Τ	Description	(Object Description)	01				
						001011001	Image		01				
					~	COLLEC	TION AND H	IANDLING	01				
						001011001	Sampling P	reconditions	01				
					2	HANDLII	NG AND PRO	DCESSING	11				
						7	Date and Ti	me of Collection (Collection DateTime)	11				
						Τ	Collection S	Setting	01				
						70	Date and Ti	me of Receipt (DateTime Received)	01				
					2	IDENTIF	IERS		01				
							Specimen I	dentifier	01				
							Parent Spe	cimen Identifier	01				
						BOX	Container lo	dentifier	01				
			001011001	Patholog		0*							
			Τ	Conclusio	01								
			001011001	Test Res	Test Result Representation								
			Τ	Test Corr	nment				01				
			~	TEST RE	QUEST D	ETAILS			0*				
				001011001	Test Req	uested Na	me		0*				
				46 X X	Laborato	ry Test Re	sult Identifier		01				
			7.0	Patholog	y Test Res	sult DateTi	me		11				
		~	IMAGINO	G EXAMIN	ATION RE	SULT			0*				
			001011001	Examina	tion Result	t Name (Im	naging Exami	ination Result Name)	11				
			001011001	Modality	(Imaging N	Modality)			01				
			~~	ANATOM	IICAL SITE	E (Anatom	ical Location))	0*				
L	<u> </u>		I	l									

			SPECIFIC LOCATION						
		\$							
			001011001	Name of	Location (Anatomical Location Name)	01			
			001011001	Side		01			
	_		Descriptio	Description (Anatomical Location Description)					
	00101	1001	Image (A	Image (Anatomical Location Image)					
	0v0	erall R	esult Statu	sult Status (Imaging Examination Result Status)					
	T Clir	nical In	formation	ormation Provided					
	T Fin	dings							
e		AGING	EXAMIN	EXAMINATION RESULT GROUP					
	00101	1001	Result Gr	Result Group Name (Imaging Examination Result Group Name)					
	~	2	RESULT	RESULT (Individual Imaging Examination Result)					
			001011001	Result Name (Individual Imaging Examination Result Name)					
				Result Value (Imaging Examination Result Value)					
			Result Value Normal Status (Imaging Examination Result Normal Status)						
			•		VALUE REFERENCE RANGE DETAILS (Imaging Examination Result ference Range Details)	0*			
				001011001	Result Value Reference Range Meaning (Imaging Examination Result Value Reference Range Meaning)	11			
]	Result Value Reference Range (Imaging Examination Result Value Reference Range)	11			
			Τ			0*			
	~	2	RESULT	GROUP A	NATOMICAL SITE (Anatomical Location)	01			
			•	SPECIFIC LOCATION		01			
				001011001	Name of Location (Anatomical Location Name)	01			
				001011001	Side	01			
			Τ	Descriptio	on (Anatomical Location Description)	01			
			001011001	Image (A	natomical Location Image)	0*			

	001011001	Examina	tion Result	Representation	01
	•	EXAMIN	EXAMINATION REQUEST DETAILS		0*
		Τ	Examina	tion Requested Name	0*
			DICOM S	Study Identifier	01
			Report Id	entifier	01
		•	Image De	etails	0*
				Image Identifier	01
				DICOM Series Identifier	01
			001011001	View (Image View name)	01
			Τ	Postion (Subject Position)	01
			70	Image DateTime	01
			001011001	Image	01
	7.	Imaging	Examinatio	on Result DateTime	11
 •		STED SER	VICE		0*
	001011001	Requeste	ed Service	Description	11
	7.	DateTime	e Service S	Scheduled	01
	20	Service (Commence	ement Window	01
	001011001	Service E	Booking St	atus	11
	Τ	Subject of	of Care Ins	truction Description	01
	8	SERVICI	ERVICE PROVIDER 0		
	70	Requeste	ed Service	DateTime	11

4 Administrative Observations

The e-RF 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.

v 2.2

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.

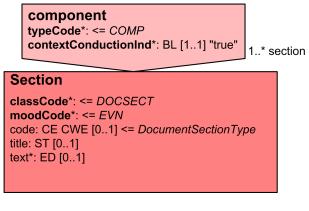


Figure 4.1. Administrative Observations

NEHTA SCS Data Compon- ent	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 avail- able 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>

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

5 CDA Header

This chapter contains elements that are not specified in the e-RF 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
InformationRecipient	Optional	0*
Custodian	Essential	11

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

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 Hierarch- ical Description.
ClinicalDocument/typeId/@root="2.16.840.1.113883.1.3"		11			The OID for HL7 Registered models.
ClinicalDocument/templateld		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 immedi- ately below). Additional tem- plate identifiers may be re- quired by other specifications, such as the CDA Rendering Specification. Systems are not required to recognise any other the tem- plate identifiers than the one below in order to understand the document as a [type] but these identifiers may influ- ence how the document must be handled.
ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.101.100.1002.2"		11		docType	The healthcare context-specif- ic name of the published e- Referral CDA Implementaion Guide.
ClinicalDocument/templateId/@extension="2.2"		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 referral of a subject of care
ClinicalDocument/code/@code="57133-1"	History and Physical, Discharge Summary, Progress Note).				from one health care provider to another.
ClinicalDocument/code/@codeSystem="2.16.840.1.113883.6.1"					
ClinicalDocument/code/@codeSystemName="LOINC"					
ClinicalDocument/code/@displayName="Referral 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 avail- able 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 iden- tifier that is used for system purposes such as matching. If a suit- able 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 exten- sion: ClinicalDocument.com- pletionCode

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="1.2.36.1.2001.1001.101.100.1002.2" extension="2.2"/>
 <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593"/>
 <code code="57133-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Referral 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

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.

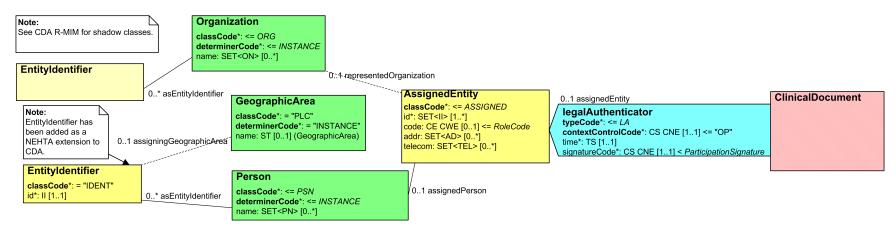


Figure 5.2. LegalAuthenticator



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 attrib- utes.</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 match- ing. 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).						
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 (assignedPer- son).	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

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:h17-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 -->
       <name>
        <prefix>Dr.</prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></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</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:id assigningGeographicArea classCode="PLC">
</ext:assigningGeographicArea c

<!-- End CDA Header -->

...

...

<!-- Begin CDA Body --> <component> <structuredBody>

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

5.1.2 InformationRecipient

Identification

Name	Information Recipient
Definition	Represents a recipient who should receive a copy of the document.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Optional	0*

Figure 5.3, "InformationRecipient" 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 INFORMATION RECIPIENT data group maps to the CDA Header element informationRecipient. The informationRecipient participation class represents who should receive a copy of the document. The role is IntendedRecipient and is represented by the Person and/or Organization entities.

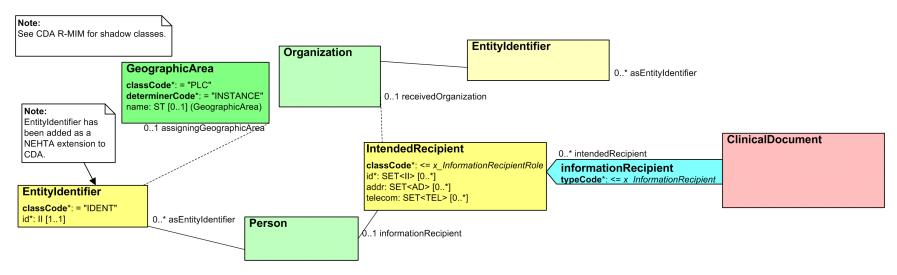


Figure 5.3. InformationRecipient



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.

CDA Schema Data Element	Definition	Card	Vocab	Comments			
Context: ClinicalDocument							
informationRecipient	Represents a recipient who should receive a copy of the document.	0*					
informationRecipient/@typeCode	Type of recipient	11	PRCP (primary recipient) [default]: Recipient to whom the document is primarily directed. TRC (secondary recipient): A secondary recipient to whom the document is dir- ected.				
informationRecipient/intendedRecipient/id	A unique identifier for the player entity in this role.	0*	UUID This is a technical identifier that is used for system purposes such as match- ing. If a suitable internal key is not available, a UUID may be used.				
informationRecipient/ intendedRecipient	A informationRecipient 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					
informationRecipient/intendedRecipient/informationRecipient	The entity playing the role (intendedRecipient) is a person.	01					
informationRecipient/intendedRecipient/informationRecipient/ <entity identifier=""></entity>	The entity identifier of the person.	0*		See common pattern: Entity Identifier.			
informationRecipient/intendedRecipient/ <address></address>	A postal address for the entity (informationRecipient) while in the role (intendedRecipient).	0*		See common pattern: Address.			
informationRecipient/intendedRecipient/ <electronic communication="" detail=""></electronic>	A telecommunication address for the entity (informationRecipient) while in the role (intendedRecipient).	0*		See common pattern: Electronic Communication Detail.			

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

CDA Schema Data Element	Definition	Card	Vocab	Comments
informationRecipient/intendedRecipient/informationRecipient/ <person name=""></person>	A non-unique textual identifier or moniker for the entity (information- Recipient).	0*		See common pattern: Person Name.
informationRecipient/intendedRecipient/receivedOrganization	The entity scoping the role (intendedRecipient).	01		
informationRecipient/intendedRecipient/receivedOrganization/ <entity identifier=""></entity>	A unique identifier for the scoping entity (represented organization) in this role (intendedRecipient).	0*		See common pattern: Entity Identifier.
informationRecipient/intendedRecipient/receivedOrganization/name	A non-unique textual identifier or moniker for the entity (represente- dOrganization).	0*		

Example

Example 5.3. InformationRecipient 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 -->
 •••
 <!-- Start Information Recipient - Primary -->
 <informationRecipient typeCode="PRCP">
  <intendedRecipient>
  <!-- ID is used for system purposes such as matching -->
  <id root="8AF5F8F4-0CD0-11E0-AC48-9350DFD72085"/>
   <addr use="WP">
   <streetAddressLine>1 Primary Care Provider Street</streetAddressLine>
   <city>Nehtaville</city>
    <state>QLD</state>
    <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
    <country>Australia</country>
   </addr>
   <telecom use="WP" value="tel:0712341245"/>
   <informationRecipient>
    <!-- Person Name -->
    <name>
     <prefix>Dr.</prefix>
     <given>Information</given>
     <family>Recipient</family>
    </name>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003611222567890"/>
     <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
   </informationRecipient>
   <receivedOrganization>
   <name>Information Recipient Clinic Name</name>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621771167888"/>
```

<ext:assigningGeographicArea classCode="PLC">
 <ext:name>National Identifier</ext:name>
 </ext:assigningGeographicArea>
 </ext:asEntityIdentifier>

</receivedOrganization> </intendedRecipient> </informationRecipient> <!-- End Information Recipient - Primary -->

<!-- End CDA Header -->

<!-- Begin CDA Body --> <component> <structuredBody>

...

....

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

5.1.3 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

Figure 5.4, "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.

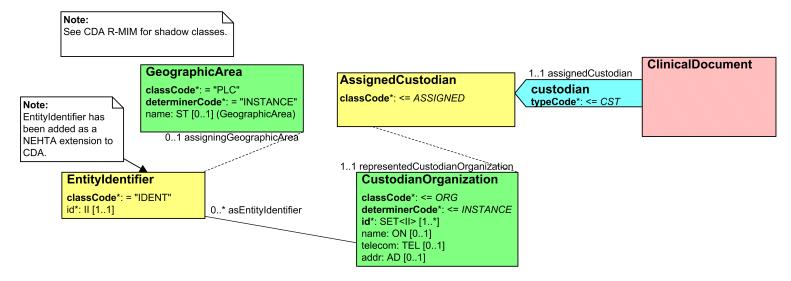


Figure 5.4. Custodian

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 (representedCustodianOr- ganization) in this role.	1*	UUID This is a technical identifier that is used for system purposes such as match- ing. 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 5.4. 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 --> <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 e-Referral

Identification

Name	e-Referral
Metadata Type	Structured Document
Identifier	SD-21000

Relationships

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

Data Type	Name	Obligation	Occurrence
	SUBJECT OF CARE	Essential	11
۵	DOCUMENT AUTHOR	Essential	11
	PATIENT NOMINATED CONTACTS	Optional	0*

CDA R-MIM Representation

Figure 6.1, "CDA Header Model for e-Referral 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.

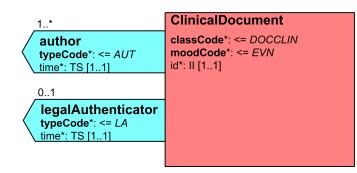


Figure 6.1. CDA Header Model for e-Referral Context

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments			
CDA Header Data Elements	CDA Header Data Elements							
e-Referral	A referral of a subject of care from one health care	11	ClinicalDocument/code					
	provider to another.		ClinicalDocument/code/@code="57133-1"					
			ClinicalDocument/code/@codeSystem="2.16.840.1.113883.6.1"					
			ClinicalDocument/code/@codeSystemName="LOINC"					
			ClinicalDocument/code/@displayName="Referral note"					
			ClinicalDocument/effectiveTime		Document creation time.			
e-Referral > DateTime Attested	The date (and time if known) that the document au- thor 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>			
e-Referral > Subject of Care	See: SUBJECT OF CARE							
e-Referral > Document Author	See: DOCUMENT AUTHOR							
e-Referral > Patient Nominated Con- tacts	See: PATIENT NOMINATED CONTACTS							
e-Referral > DateTime Authored	The date or date and time that authoring of the e- Referral by the authoring healthcare provider is started or done.	11	ClinicalDocument/author/time/@value		See <time> for available attributes.</time>			

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

Example 6.1. e-Referral 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" 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="57133-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Referral Note" /> <effectiveTime value="200910201235"/> <!-- Begin CDA Header --> <!-- Begin Author --> <author> <!-- DateTime Authored --> <time value="200910201235+10000"/> </author> <!-- End Author --> <!-- Begin Authenticator --> <legalAuthenticator> <!-- DateTime Attested --> <time value="200910201235"/> </legalAuthenticator> <!-- End Authenticator --> ... <!-- 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
•	e-Referral	Essential	11

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.

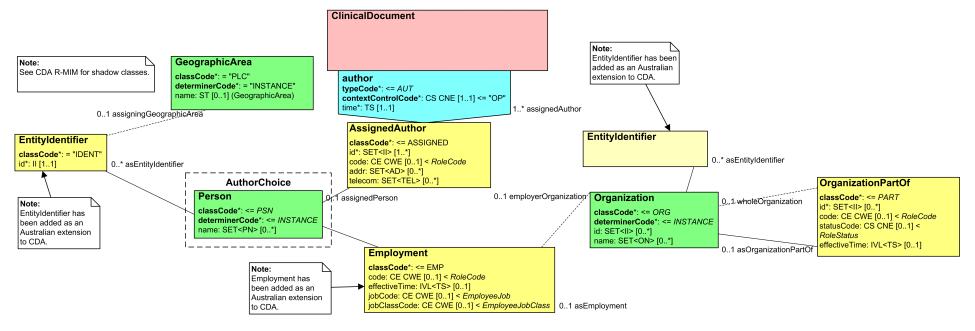


Figure 6.2. Document Author

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		
Document Author	The healthcare provider who made the referral.	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 e-Referral > Date- Time Attested (Clinic- alDocument/ leg- alAuthenticator/ time) Although the defini- tion of this element states that it is a time interval, the following applies: "The end of the participation peri- od of a Document Author participation is the time associ- ated with the comple- tion of editing the content of a docu- ment." Thus only the end time need be re- corded.	Required CDA ele- ment.
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- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Author > Role	The involvement or role of the participant in the re- lated 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 Oc- cupations, First Edi- tion, 2006 - METeOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able 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 ele- ment.
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 identify- ing a participant within a healthcare context.	1*	author/assignedAuthor/assignedPerson/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-I.	See common pat- tern: Entity Identifier.
Document Author > Participant > Ad- dress	The description of a location where an entity is loc- ated 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 pat- tern: Address.
Document Author > Participant > Elec- tronic Communication Detail	The electronic communication details of entities.	1*	author/assignedAuthor/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Author > Participant > Per- son 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 propag- ates to its children.
Document Author > Participant > Per- son 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 ser- vice, 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 > Per- son or Organisation or Device > Person > Person Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	1*	author/assignedAuthor/assignedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Document Author > Participant > Per- son 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 Document Author -->
 <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"
   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 -->
     <ext:code>
     <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>
      <asOrganizationPartOf>
      <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
	e-Referral	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 a SUBJECT OF CARE, Patient.deceasedTime has been added as an Australian CDA extension.

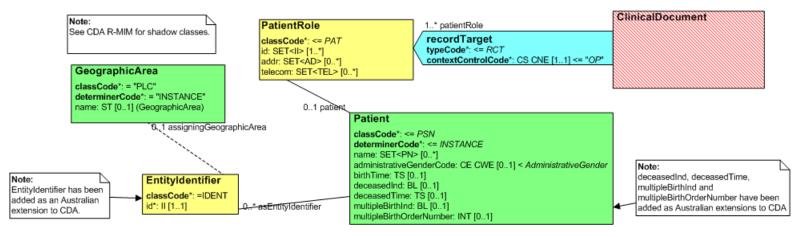


Figure 6.3. Subject of Care - Header Data Elements



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).

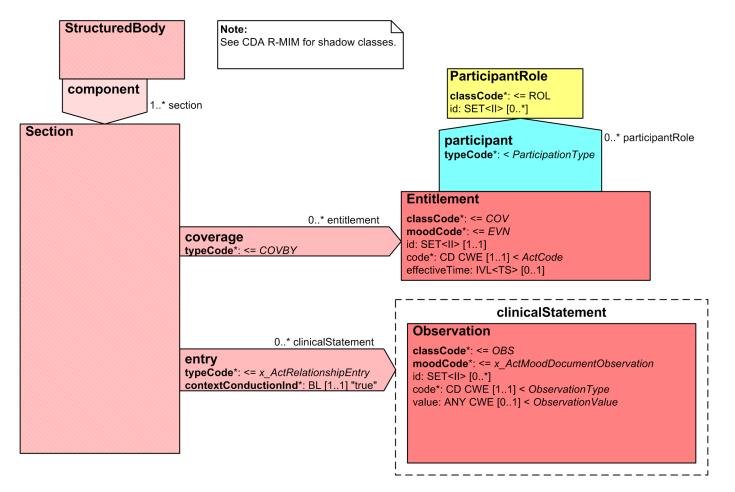


Figure 6.4. Subject of Care - Body Data Elements

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 Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements	•		Context: ClinicalDocument		
Subject of Care	The person the referral is for.	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 ele- ment. If there are any enti- tlements for Subject of Care this value MUST be the same as: ClinicalDocu- ment/ component/ structuredBody/ component[ad- min_obs]/ section/ entry/ act/ parti- cipant/ participan- tRole/ id where parti- cipantRole/ @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).
Subject of Care > Role	The involvement or role of the participant in the re- lated action from a healthcare perspective rather than the specific participation perspective.	11	n/a	Role SHALL have an implementation- specific fixed value equivalent to "Pa- tient".	Not mapped directly, encompassed impli- citly in recordTarget/ patientRole/ classCode = "PAT".

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

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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 identify- ing a participant within a healthcare context.	1*	recordTarget/patientRole/patient/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian IHI.	See common pat- tern: Entity Identifier. The Subject of Care's Medicare card number is recorded in Entitlement, not Entity Identifier.
Subject of Care > Participant > Ad- dress	The description of a location where an entity is loc- ated 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 pat- tern: Address.
Subject of Care > Participant > Elec- tronic Communication Detail	The electronic communication details of entities.	1*	recordTarget/patientRole/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
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 propag- ates 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 ser- vice, 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 recordTarget/ patientRole/ patient.
Subject of Care > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	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 propag- ates to its children.
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	

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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.
Detail					The cardinality of this component propagates 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 avail- able 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"		
			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 avail- able 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.

NEHTA SCS Data Com- ponent	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- able attributes.</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 altitudies.
			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 De- tail > Date of Birth Accuracy Indicator > Date of Birth Day Accuracy Indicat- or	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 Indic- ator (above).	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth De- tail > Date of Birth Accuracy Indicator > Date of Birth Month Accuracy Indic- ator	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 De- tail > Date of Birth Accuracy Indicator > Date of Birth Year Accuracy Indic- ator	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 Com- ponent	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 propag- ates 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 avail- able attributes.</id>
			entry[age]/observation/value:PQ		

NEHTA SCS Data Com- ponent	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"		
			identifier that is u for system purpu such as matchin a suitable intern key is not availa a UUID may be		
				This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available,	See <id> for avail- able attributes.</id>
			entry[age_acc]/observation/value:BL		If the age is con- sidered to be accur- ate this is true, other- wise it is false.

NEHTA SCS Data Com- ponent	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			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 avail- able 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 five 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 propag- ates to its children.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death	e > Person > estimated or certified to have died.	11	recordTarget/patientRole/patient/ext:deceasedInd		See Australian CDA extension: Deceased Time.
			recordTarget/patientRole/patient/ext:deceasedTime		See <time> for avail- able attributes.</time>
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section (See 4 Administ	rative Observations)	

e-Referral

NEHTA SCS Data Com- ponent	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- ator	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. The cardinality of this component propag- ates 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 avail- able attributes.</id>
			entry[doc_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 Death Detail > Date of Death Accuracy Indic- ator > 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 Indic- ator (above).
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indic- ator > 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 Com- ponent	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- ator > 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 Aus- tralian 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 Is- lander 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 > Entitle- ment	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: Entitle- ment.
			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 > Entitle- ment > Entitlement Number	A number or code issued for the purpose of identify- ing 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		

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Entitle- ment > Entitlement Type	The description of the scope of an entitlement.	11		NCTIS: Admin Codes - Entitlement Type	See <code> for available attributes.</code>
Subject of Care > Participant > Entitle- ment > Entitlement Validity Duration		01	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for avail- able 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"/>
```

....

<!-- Country of Birth/State/Territory of Birth -->
dirthplace> <place> <addr> <country>Australia</country> <state>QLD</state> </addr> </place> </birthplace> <!-- 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" 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"
  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"
  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"
  codeSystem="1.2.36.1.2001.1001.101"
  codeSystemName="NCTIS Data Components"
```

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>
```

6.1.3 PATIENT NOMINATED CONTACTS

Identification

Name	Patient's Nominated Contacts
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
•	e-Referral	Optional	0*

6.1.3.1 PATIENT NOMINATED CONTACTS - PERSON

CDA R-MIM Representation

Figure 6.5, "Patient's Nominated Contacts - 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 Header elements.

The PATIENT NOMINATED CONTACTS - PERSON data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the associatedEntity.

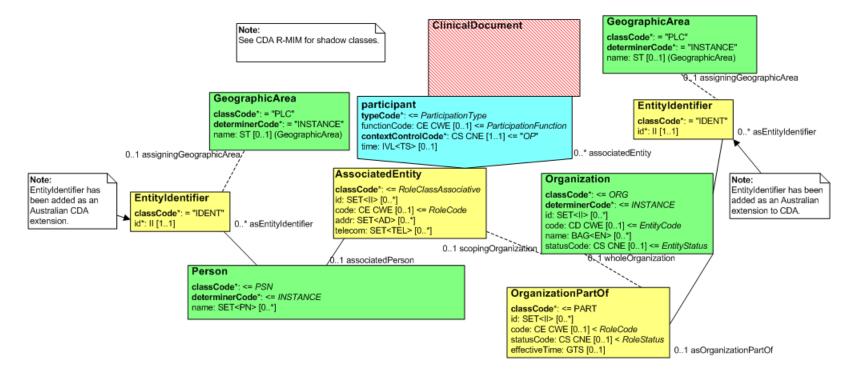


Figure 6.5. Patient's Nominated Contacts - Person

CDA Mapping

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements	L		Context: ClinicalDocument		
Patient Nominated Contacts - Person	Details pertaining to the individual(s) nominated to act as the contact to receive information about the subject of care.	0*	participant		
Patient Nominated Contacts - Person > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="IRCP"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Patient Nomin- ated Contacts".	
Patient Nominated Contacts - Person > Role	The involvement or role of the participant in the re- lated action from a healthcare perspective rather	11	participant/associatedEntity/@classCode="CON"		See <code> for available attributes.</code>
	than the specific participation perspective.		participant/associatedEntity/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METeOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able MAY be used.	
n/a	n/a	11	participant/associatedEntity/ 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 ele- ment.
Patient Nominated Contacts - Person > Participant	n/a	11	participant/associatedEntity/associatedPerson		
Patient Nominated Contacts - Person > Participant > Entity Identifier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	0*	participant/associatedEntity/associatedPerson/ <entity identifier=""></entity>		See common pat- tern: Entity Identifier.

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Patient Nominated Contacts - Person > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0*	participant/associatedEntity/ <address></address>		See common pat- tern: Address.
Patient Nominated Contacts - Person > Participant > Electronic Communic- ation Detail	The electronic communication details of entities.	0*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Patient Nominated Contacts - Person > Participant > Person or Organisa- tion or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag- ates to its children.
Patient Nominated Contacts - Person > 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 ser- vice, 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.
Patient Nominated Contacts - Person > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	1*	participant/associatedEntity/associatedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Patient Nominated Contacts - Person > Participant > Person or Organisation or Device > Person > Relationship to Subject of Care	The relationship of a participant to a subject of care (patient).	11	See: Known Issues		

Example 6.4. Patient's Nominated Contacts 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 -->
   ....
 <!-- Begin Patients Nominated Contact Person -->
<participant typeCode="IRCP">
  <associatedEntity classCode="CON">
   <!-- ID is used for system purposes such as matching -->
   <id root="8AAC64FA-42CC-11E0-8FC0-32D2DFD72085"/>
  <!-- Role -->
   <code code="133932002"
   codeSystem="2.16.840.1.113883.6.96"
   codeSystemName="SNOMED-CT"
   codeSystemVersion="20090731"
   displayName="Caregiver (Person)"/>
   <!-- Address -->
   <addr use="WP">
   <streetAddressLine>66 Caregiver 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:0733333333"/>
   <!-- Person Name -->
   <associatedPerson>
   <name>
     <prefix>Mr.</prefix>
     <family>Caregiver</family>
   </name>
   <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-I"
     root="1.2.36.1.2001.1003.0.800121123457755"/>
     <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
   </ext:asEntityIdentifier>
  </associatedPerson>
  </associatedEntity>
 </participant>
```

<!-- End Patients Nominated Contact Person -->

. . .

<!-- End CDA Header -->

</ClinicalDocument>

6.1.3.2 PATIENT NOMINATED CONTACTS - ORGANISATION

CDA R-MIM Representation

Figure 6.6, "Patient's Nominated Contacts - 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 Header elements.

The PATIENT NOMINATED CONTACTS - ORGANISATION data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the associatedEntity.

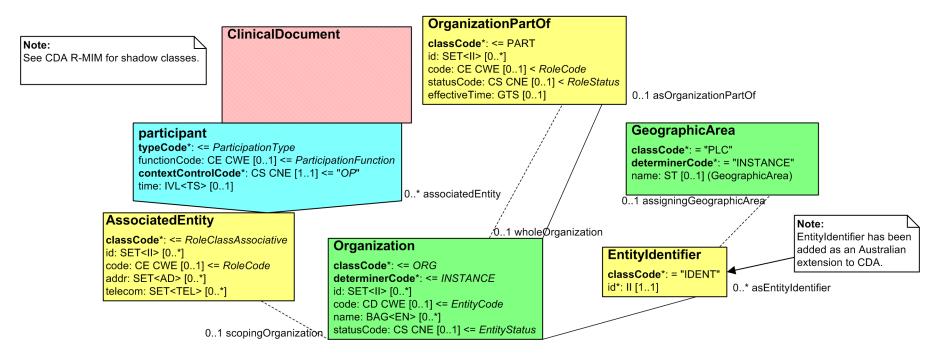


Figure 6.6. Patient's Nominated Contacts - Organisation

CDA Mapping

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
CDA Header Data Elements			Context: ClinicalDocument			
Patient Nominated Contacts - Organ- isation	Details pertaining to the organisation nominated to act as the contact to receive information about the subject of care.	0*	participant			
Patient Nominated Contacts - Organisa- tion > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="IRCP"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Patient Nomin- ated Contacts".		
Patient Nominated Contacts - Organisa-	The involvement or role of the participant in the re-	11	participant/associatedEntity/@classCode="CON"			
tion > Role	lated action from a healthcare perspective rather than the specific participation perspective.		participant/associatedEntity/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METEOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able MAY be used.	See <code> for available attributes.</code>	
n/a	n/a	11	participant/associatedEntity/ 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 ele- ment.	
Patient Nominated Contacts - Organisa- tion > Participant	n/a	11	participant/associatedEntity/scopingOrganization			
Patient Nominated Contacts - Organisa- tion > Participant > Entity Identifier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	0*	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>		See common pat- tern: Entity Identifier.	

NEHTA SCS Data Com-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ponent					
Patient Nominated Contacts - Organisa- tion > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0*	participant/associatedEntity/ <address></address>		See common pat- tern: Address.
Patient Nominated Contacts - Organisa- tion > Participant > Electronic Commu- nication Detail	The electronic communication details of entities.	0*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Patient Nominated Contacts - Organisa- tion > Participant > Person or Organ- isation 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 an ORGANISATION. This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag- ates to its children.
Patient Nominated Contacts - Organisa- tion > Participant > Person or Organisa- tion 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 participant/as- sociatedEntity/associ- atedPerson.
Patient Nominated Contacts - Organisa- tion > Participant > Person or Organisa- tion or Device > Organisation > Organ- isation Name	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	11	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/name		
Patient Nominated Contacts - Organisa- tion > Participant > Person or Organisa- tion or Device > Organisation > Depart- ment/Unit	The name by which a department or unit within a larger organisation is known or called.	01	participant/associatedEntity/scopingOrganization/name		
Patient Nominated Contacts - Organisa- tion > Participant > Person or Organisa- tion or Device > Organisation > Organ- isation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 6.5. Patient's Nominated Contacts - 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 --> <!-- Begin Patients Nominated Contact Organisation --> <participant typeCode="IRCP"> <associatedEntity classCode="CON"> <!-- ID is used for system purposes such as matching --> <id root="3C788150-42E1-11E0-B7D8-16E6DFD72085"/> <!-- Role --> <code code="42665001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Nursing Home"/> <!-- Address --> <addr use="WP"> <streetAddressLine>66 Caregiver 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:0733333333"/> <!-- Organisation --> <scopingOrganization> <!-- Department/Unit --> <name>Nursing Home</name> <asOrganizationPartOf> <wholeOrganization> <!-- Organisation Name --> <name use="ORGB">Nursing Home Group</name> <!-- Entity Identifier --> <ext:asEntityIdentifier classCode="IDENT"> <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.800362123117734"/> <ext:assigningGeographicArea classCode="PLC"> <ext:name>National Identifier</ext:name> </ext:assigningGeographicArea> </ext:asEntityIdentifier>

</wholeOrganization> </asOrganizationPartOf>

</scopingOrganization>

</associatedEntity>

</participant> <!-- End Patients Nominated Contact Organisation -->

• • •

<!-- End CDA Header -->

</ClinicalDocument>

7 Content Data Specification - CDA Mapping

7.1 e-Referral

Identification

Name	e-Referral
Metadata Type	Structured Document
Identifier	SD-21000

Relationships

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

Data Type	Name	Obligation	Occurrence
**	REFERRAL DETAIL	Essential	11
	MEDICAL HISTORY	Essential	11
	MEDICATIONS	Essential	11
•	ADVERSE REACTIONS	Essential	11
•	DIAGNOSTIC INVESTIGATIONS	Optional	01

CDA R-MIM Representation

Figure 7.1, "e-Referral" 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 e-Referral 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.

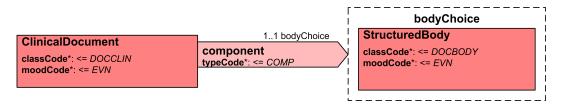


Figure 7.1. e-Referral

CDA Mapping

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
e-Referral	A referral of a subject of care from one health care provider to another.	11	ClinicalDocument		
CDA Body Level 2 Data Elements					
e-Referral (Body)	See above.	11	ClinicalDocument/component/structuredBody		

Example 7.1. e-Referral 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
	End CDA Header
	Begin CDA Body

<component> <structuredBody> ...

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

7.1.1 REFERRAL DETAIL

Identification

Name	Referral Detail
Metadata Type	Data Group
Identifier	DG-16347

Relationships

Children Not Included in Mapping for This Section

Da	ata Type	Name	Obligation	Occurrence
		REFEREE	Essential	11
		USUAL GP	Optional	01

Parent

Data Type	Name	Obligation	Occurrence
	e-Referral	Essential	11

CDA R-MIM Representation

Figure 7.2, "Referral 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 Referral Detail data group is mapped to a Section and then an Act, the Referral Validity Duration is mapped to the effective time of this Act. The Referral DateTime is mapped to the top level of the CDA document to ClinicalDocument.effectiveTime (not shown in model representation below). The Referral Reason is represented by a Reason observation related to the Referral Detail Act.

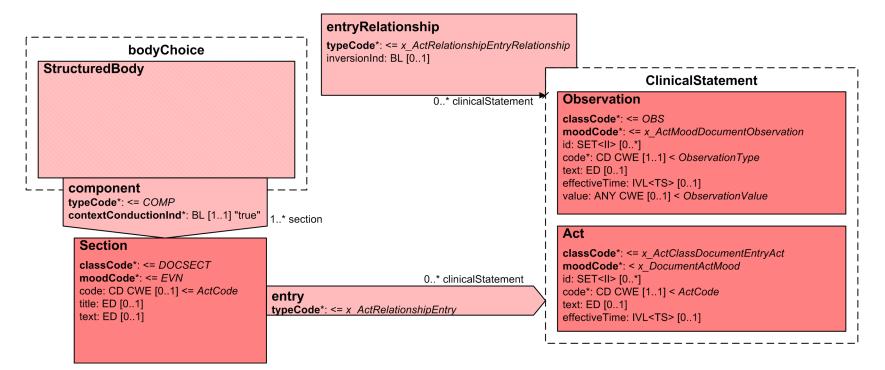


Figure 7.2. Referral Detail

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		-
Referral Detail	This section captures detailed information about the	11	component[ref_det]/section		
	clinical referral.		component/[ref_det]/section/code		
			component/[ref_det]/section/@code="102.16347"		
			component/[ref_det]/section/@codeSystem="1.2.36.1.2001.1001.101"		
			component/[ref_det]/section/@codeSystemName="NCTIS Data Components"		
			component/[ref_det]/section/@displayName="Referral Detail"		
		component/[ref_det]/section/title="Referral Detail"			
			component/[ref_det]/section/text		See Appendix A, CDA Narratives
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[ref_det]/section		
Referral Detail > Referral DateTime	The date/time when the Referral document was sent.	11	entry[ref_time]		
			entry[ref_time]/observation		
			entry[ref_time]/observation/@classCode="OBS"		
			entry[ref_time]/observation/@moodCode="EVN"		
			entry[ref_time]/observation/code		
			entry[ref_time]/observation/code/@code="103.16620"		
			entry[ref_time]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[ref_time]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[ref_time]/observation/code/@displayName="Referral DateTime"		
			entry[ref_time]/observation/ value:TS		See <time> for available attributes.</time>

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Referral Detail > Referral Reason	A narrative of the reasons for the referral, including	11	entry[ref_rea]		
	the presenting problems, clinical presentation, etc.		entry[ref_rea]/observation		
			entry[ref_rea]/observation/@classCode="OBS"		
			entry[ref_rea]/observation/@moodCode="EVN"		
			entry[ref_rea]/observation/code		
			entry[ref_rea]/observation/code/@code="42349-1"		
			entry[ref_rea]/observation/code/@codeSystem="2.16.840.1.113883.6.1"		
			entry[ref_rea]/observation/code/@codeSystemName="LOINC"		
			entry[ref_rea]/observation/code/@displayName="Reason for referral"		
			entry[ref_rea]/observation/value:ST		
Referral Detail > Referral Validity Dur-	The length of time the referral is valid from the date	11	entry[ref_val]		
ation	of the first patient/specialist encounter.		entry[ref_val]/observation		
			entry[ref_val]/observation/@classCode="OBS"		
			entry[ref_val]/observation/@moodCode="EVN"		
			entry[ref_val]/observation/code		
			entry[ref_val]/observation/code/@code="103.16622"		
			entry[ref_val]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[ref_val]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[ref_val]/observation/code/@displayName="Referral Validity Duration"		
			entry[ref_val]/observation/value:IVL_TS		See <time> for available attributes.</time>
Referral Detail > Usual GP	The medical practitioner nominated by the subject of care as his or her "usual GP".	01	See: USUAL GP		Used only if author is not the patient's usual general practi- tioner.
Referral Detail > Referee	The specialist to whom the subject of care is being referred.	11	See: REFEREE		See REFEREE. Use only if different to information recipi- ent.

Example 7.2. Referral 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>
     <!-- Referral Detail -->
   <component>
    <section>
     <code code="102.16347" codeSystem="1.2.36.1.2001.1001.101"
     codeSystemName="NCTIS Data Components" displayName="Referral Detail" />
     <title>Referral Detail</title>
     <text>Referral Detail narrative goes here.</text>
     <!-- Referral DateTime -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <code code="103.16620" codeSystem="1.2.36.1.2001.1001.101"</pre>
       codeSystemName="NCTIS Data Components" displayName="Referral DateTime" />
      <value xsi:type="TS" value="201104271000+1000" />
      </observation>
     </entry>
     <!-- End Referral DateTime -->
     <!-- Referral Reason -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <code code="42349-1" codeSystem="2.16.840.1.113883.6.1"</pre>
       codeSystemName="LOINC" displayName="Reason for referral" />
      <value xsi:type="ST">Referral reason goes here.</value>
      </observation>
     </entry>
     <!-- End Referral Reason -->
     <!-- Referral validity Duration -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <code code="103.16622" codeSystem="1.2.36.1.2001.1001.101"</pre>
       codeSystemName="NCTIS Data Components" displayName="Referral Validity Duration" />
       <value xsi:type="IVL_TS">
        <low value="20110427" />
        <high value="20110504" />
      </value>
      </observation>
     </entry>
     <!-- Referral validity Duration -->
```

</section> </component> <!-- End Referral Detail -->

...

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

7.1.1.1 **REFEREE**

Identification

Name	REFEREE
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
	e-Referral	Essential	11

7.1.1.1.1 REFEREE - PERSON

CDA R-MIM Representation

Figure 7.3, "Referee" 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 Referee data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the associatedEntity. Employment detail is mapped to the NEHTA CDA Extension Employment.

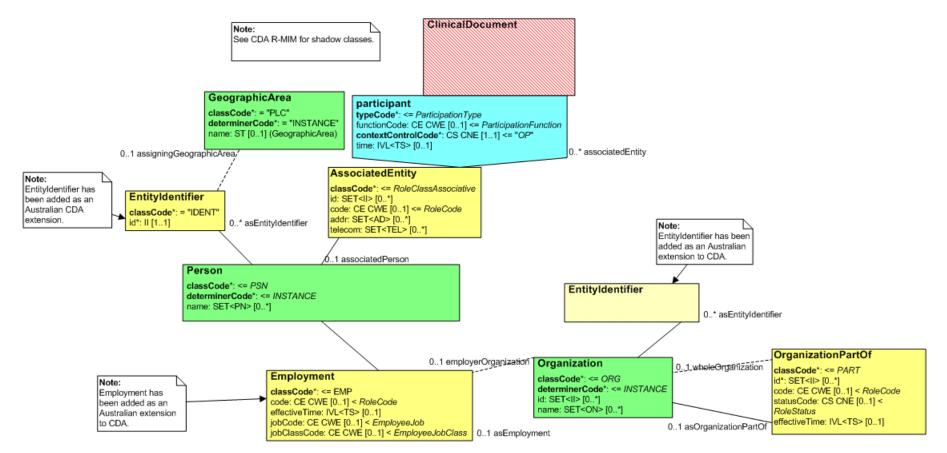


Figure 7.3. Referee

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument		
Referee	The specialist to whom the subject of care is being referred.	11	participant		
Referee > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="REFT"	Participation Type SHALL have an im- plementation-specific value equivalent to "Referee".	Not mapped directly, encompassed impli- citly in typeCode="REFB"
Referee > Role	The involvement or role of the participant in the re- lated action from a healthcare perspective rather than the specific participation perspective.	11	participant/associatedEntity/@classCode	HL7:RoleClassAsso- ciative (usually ="PROV")	
			participant/associatedEntity/ Code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METeOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able MAY be used.	See <code> for available attributes.</code>
n/a	n/a	01	participant/associatedEntity/ 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.	
Referee > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	participant/associatedEntity/associatedPerson		

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Referee > Participant > Entity Identifier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	participant/associatedEntity/associatedPerson/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-I.	See common pat- tern: Entity Identifier.
Referee > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1*	participant/associatedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.
Referee > Participant > Electronic Communication Detail	The electronic communication details of entities.	1*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Referee > Participant > Person or Or- ganisation 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 propag- ates to its children.
Referee > Participant > Person or Or- ganisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare ser- vice, 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 participant/as- sociatedEntity/as- signedPerson.
Referee > Participant > Person or Or- ganisation or Device > Person > Per- son Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	1*	participant/associatedEntity/associatedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Referee > Participant > Person or Or- ganisation or Device > Person > Em- ployment Detail	A person's occupation and employer.	11	participant/associatedEntity/associatedPerson/ <employment></employment>		See common pat- tern: Employment.

Example 7.3. Referee - 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 -->
    ....
 <!-- Begin Referee (Person) -->
  <participant typeCode="REFT">
   <associatedEntity classCode="PROV">
    <!-- ID is used for system purposes such as matching -->
    <id root="7D5A62DE-40A6-11E0-B811-1B13E0D72085"/>
    <!-- Role -->
    <code code="253399"
      codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations,
                First Edition, Revision 1"
      displayName="Specialist Physicians NEC" />
    <!-- Address -->
    <addr use="WP">
     <streetAddressLine>55 Specialist Road</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:0722222222"/>
    <associatedPerson>
     <!-- Person Name -->
     <name use="L">
      <prefix>Dr.</prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix>
      <family>Specialist</family>
     </name>
     <!-- Entity Identifier -->
     <ext:asEntityIdentifier classCode="IDENT">
      <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003614444567890"/>
      <ext:assigningGeographicArea classCode="PLC">
        <ext:name>National Identifier</ext:name>
       </ext:assigningGeographicArea>
     </ext:asEntityIdentifier>
     <!-- Employment Details -->
     <ext:asEmployment classCode="EMP">
      <!-- Position In Organisation -->
      <ext:code>
```

```
<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>
     <asOrganizationPartOf>
      <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>
  </associatedPerson>
 </associatedEntity>
</participant>
<!-- End Referee-->
 <!-- End CDA Header -->
</ClinicalDocument>
```

7.1.1.1.2 REFEREE - ORGANISATION

CDA R-MIM Representation

Figure 7.4, "Referee" 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 Referee (ORGANISATION) data group is related to its context of ClinicalDocument by the participant Participation class. A participant is an organisation in the role of associatedEntity (AssociatedEntity class). The entity playing the role is scopingOrganization (Organization class). The department/unit name is mapped to scopingOrganization.name and the organisation name is mapped to the wholeOrganization (Organization class) which represents a whole-part relationship using the OrganizationPartOf role. The organisation entity identifier is represented by the EntityIdentifier class (Australian CDA extension) which is associated to the wholeOrganization.

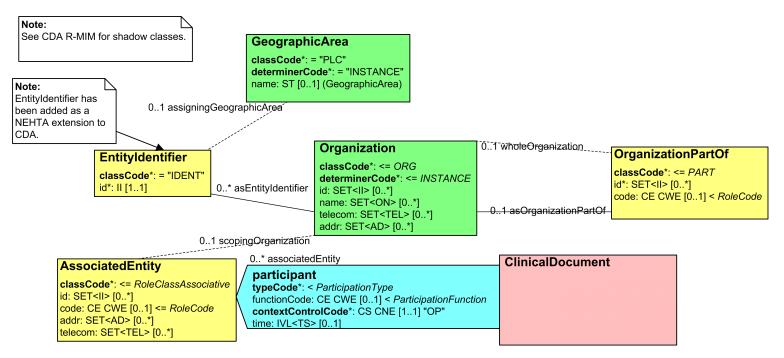


Figure 7.4. Referee

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements	·		Context: ClinicalDocument	·	
Referee (Organisation)	The healthcare providers (Organisation) nominated by the patient as being primarily responsible for their ongoing healthcare.	01	participant		
Referee > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="REFT"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Referee".	
Referee > Role	The involvement or role of the participant in the re- lated action from a healthcare perspective rather than the specific participation perspective.	11	participant/associatedEntity/code	Role SHALL have a value representing the type of Facility e.g. Hospital, Clinic.	See <code> for available attributes.</code>
			participant/associatedEntity/@classCode	HL7:RoleClassAsso- ciative (usually ="PROV")	
n/a	n/a	11	participant/associatedEntity/ 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 ele- ment.
Referee > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	participant/associatedEntity/scopingOrganization		
Referee > Participant > Entity Identifier er	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-O.	See common pat- tern: Entity Identifier.
Referee > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1*	participant/associatedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.
Referee > Participant > Electronic Communication Detail	The electronic communication details of entities.	1*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Referee > Participant > Person or Or- ganisation 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 an ORGANISATION. This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag- ates to its children.
Referee > Participant > Person or Or- ganisation 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 participant/as- sociatedEntity/associ- atedPerson.
Referee > Participant > Person or Or- ganisation or Device > Organisation > Organisation Name	The name by which an organisation is known or called.	11	participant/associatedEntity/scopingOrganization/asOrganizationPartof/wholeOrganization/name		
Referee > Participant > Person or Or- ganisation or Device > Organisation > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	01	participant/associatedEntity/scopingOrganization/name		
Referee > Participant > Person or Or- ganisation or Device > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 7.4. Referee - 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 -->
<!-- Begin Referee (organisation) -->
 <participant typeCode="REFT">
  <associatedEntity classCode="PROV">
  <!-- ID is used for system purposes such as matching -->
  <id root="96ABEE3E-0CE8-11E0-B59B-6D69DFD72085"/>
   <!-- Role -->
  <code code="408443003"
   codeSystem="2.16.840.1.113883.6.96"
   codeSystemName="SNOMED-CT"
    codeSystemVersion="20090731"
   displayName="General medical practice"/>
   <!-- Address -->
   <addr use="WP">
    <streetAddressLine>55 GP 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:07888888888"/>
   <scopingOrganization>
    <!-- Department/Unit Name -->
    <name>GP Practice</name>
    <asOrganizationPartOf>
     <wholeOrganization>
     <!-- Organisation Name -->
      <name use="ORGB">Acme Hospital Group</name>
      <!-- Entity Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
       <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621771137888" />
       <ext:assigningGeographicArea classCode="PLC">
        <ext:name>National Identifier</ext:name>
       </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
     </wholeOrganization>
    </asOrganizationPartOf>
  </scopingOrganization>
  </associatedEntity>
```

</participant> <!-- End Referee (organisation) -->

. . .

<!-- End CDA Header -->

<!-- Begin CDA Body --> <component> <structuredBody>

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

7.1.1.2 USUAL GP

Identification

Name	USUAL GP
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
~	e-Referral	Optional	01

7.1.1.2.1 USUAL GP - PERSON

CDA R-MIM Representation

Figure 7.5, "Usual GP" 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 Usual GP data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (Australian CDA extension) which is associated to the associatedEntity. Employment detail is mapped to the NEHTA CDA Extension Employment.

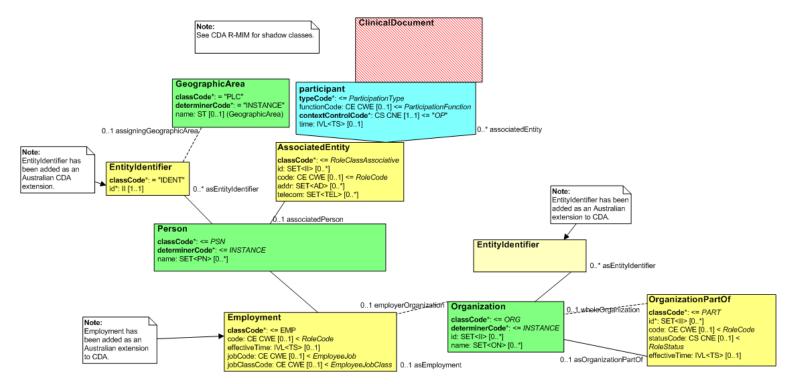


Figure 7.5. Usual GP

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Header Data Elements			Context: ClinicalDocument				
Usual GP	The healthcare providers (person) nominated by the subject of care as being primarily responsible for their ongoing healthcare.	01	participant				
Usual GP > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="PART"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Usual GP".			
			participant/functionCode/@code="PCP"				
Usual GP > Role	GP > Role The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	participant/associatedEntity/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METeOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able MAY be used.	See <code> for available attributes.</code>		
			participant/associatedEntity/@classCode	HL7:RoleClassAsso- ciative (usually ="PROV")			
n/a	n/a	11	participant/associatedEntity/ 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 ele- ment.		
Usual GP > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	participant/associatedEntity/associatedPerson				

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Usual GP > Participant > Entity Identi- fier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	participant/associatedEntity/associatedPerson/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-I.	See common pat- tern: Entity Identifier.
Usual GP > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0*	participant/associatedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.
Usual GP > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Usual GP > 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 propag- ates to its children.
Usual GP > 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 ser- vice, 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 participant/as- sociatedEntity/associ- atedPerson.
Usual GP > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be iden- tified separately from any other within a social con- text.	1*	participant/associatedEntity/associatedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Usual GP > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	11	participant/associatedEntity/associatedPerson/ <employment></employment>		See common pat- tern: Employment.

Example 7.5. Usual GP - 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 -->
 <!-- Begin Usual GP -->
 <participant typeCode="PART">
  <functionCode code="PCP" />
  <associatedEntity classCode="PROV">
   <!-- ID is used for system purposes such as matching -->
  <id root="3DF1E97C-42CD-11E0-A71E-FDD2DFD72085"/>
   <!-- Role -->
   <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, Revision 1"
     displayName="General Medical Practitioner" />
   <!-- Address -->
   <addr use="WP">
   <streetAddressLine>55 GP 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:077777777"/>
    <!-- Person Name -->
   <associatedPerson>
    <name>
     <prefix>Dr.</prefix>
     <family>Generalist</family>
    </name>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8001211234567890"/>
     <ext:assigningGeographicArea classCode="PLC">
     <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
    <!-- Employment Details -->
    <ext:asEmployment classCode="EMP">
     <!-- Position In Organisation -->
     <ext:code>
```

```
<originalText>General Practitioner</originalText>
     </ext:code>
     <!-- Occupation -->
     <ext:jobCode code="253111" 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="General Medical Practitioner" />
     <!-- 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>
      <asOrganizationPartOf>
      <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>
  </associatedPerson>
  </associatedEntity>
 </participant>
 <!-- End Usual GP-->
 . . .
  <!-- End CDA Header -->
</ClinicalDocument>
```

7.1.1.2.2 USUAL GP - ORGANISATION

CDA R-MIM Representation

Figure 7.6, "Usual GP" 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 USUAL GP (ORGANISATION) data group is related to its context of ClinicalDocument by the participant Participation class. A participant is an organisation in the role of associatedEntity (AssociatedEntity class). The entity playing the role is scopingOrganization (Organization class). The department/unit name is mapped to scopingOrganization.name and the organisation name is mapped to the wholeOrganization (Organization class) which represents a whole-part relationship using the OrganizationPartOf role. The organisation entity identifier is represented by the EntityIdentifier class (Australian CDA extension) which is associated to the wholeOrganization.

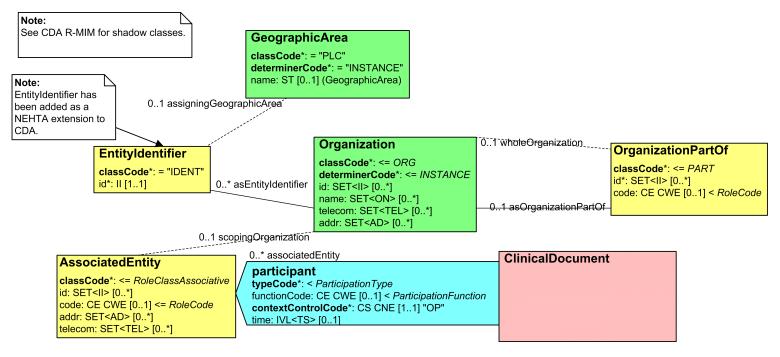


Figure 7.6. Usual GP

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Header Data Elements			Context: ClinicalDocument				
Usual GP (Organisation)	The healthcare providers (Organisation) nominated by the patient as being primarily responsible for their ongoing healthcare.	01	participant				
Usual GP > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	participant/@typeCode="PART"	Participation Type SHALL have an im- plementation-specific fixed value equival- ent to "Usual GP".			
			participant/functionCode/@code="PCP"				
Usual GP > Role	The involvement or role of the participant in the re- lated action from a healthcare perspective rather than the specific participation perspective.	11	participant/ associatedEntity/code	Role SHALL have a value representing the type of Facility e.g. Hospital, Clinic.	See <code> for available attributes.</code>		
			participant/associatedEntity/@classCode	HL7:RoleClassAsso- ciative (usually ="PROV")			
n/a	n/a	11	participant/associatedEntity/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 ele- ment.		
Usual GP > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	participant/associatedEntity/scopingOrganization				
Usual GP > Participant > Entity Identi- fier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/ <entity Identifier></entity 	The value of one En- tity Identifier SHALL be an Australian HPI-O.	See common pat- tern: Entity Identifier.		
Usual GP > Participant > Address	The description of a location where an entity is loc- ated or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0*	participant/associatedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.		

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Usual GP > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	participant/associatedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Usual GP > 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 an ORGANISATION. This logical NEHTA data component has no mapping to CDA. The cardinality of this component propag- ates to its children.
Usual GP > 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 participant/as- sociatedEntity/associ- atedPerson.
Usual GP > Participant > Person or Organisation or Device > Organisation > Organisation Name	The name by which an organisation is known or called.	11	participant/associatedEntity/scopingOrganization/asOrganizationPartof/wholeOrganization/name		
Usual GP > Participant > Person or Organisation or Device > Organisation > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	01	participant/associatedEntity/scopingOrganization/name		
Usual GP > Participant > Person or Organisation or Device > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 7.6. Usual GP - 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 --> . . . <!-- Begin Usual GP (organisation) --> <participant typeCode="PART"> <functionCode code="PCP"/> <associatedEntity classCode="PROV"> <!-- ID is used for system purposes such as matching --> <id root="96ABEE3E-0CE8-11E0-B59B-6D69DFD72085"/> <!-- Role --> <code code="408443003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="General medical practice"/> <!-- Address --> <addr use="WP"> <streetAddressLine>55 GP 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:07888888888"/> <scopingOrganization> <!-- Department/Unit Name --> <name>Day Surgery</name> <asOrganizationPartOf> <wholeOrganization> <!-- Organisation Name --> <name use="ORGB">Logan Hospital</name> <!-- Entity Identifier --> <ext:asEntityIdentifier classCode="IDENT"> <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621771137888"/> <ext:assigningGeographicArea classCode="PLC"> <ext:name>National Identifier</ext:name> </ext:assigningGeographicArea> </ext:asEntityIdentifier> </wholeOrganization> </asOrganizationPartOf> </scopingOrganization> </associatedEntity> </participant> <!-- End Usual GP (organisation) -->

<!-- End CDA Header -->

<!-- Begin CDA Body --> <component> <structuredBody>

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

...

7.1.2 MEDICAL HISTORY

Identification

Name	MEDICAL HISTORY
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*
**	OTHER MEDICAL HISTORY ITEM	Optional	0*

Parent

Data Type	Name	Obligation	Occurrence
	e-Referral	Essential	11

CDA R-MIM Representation

Figure 7.7, "Medical History" 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 section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

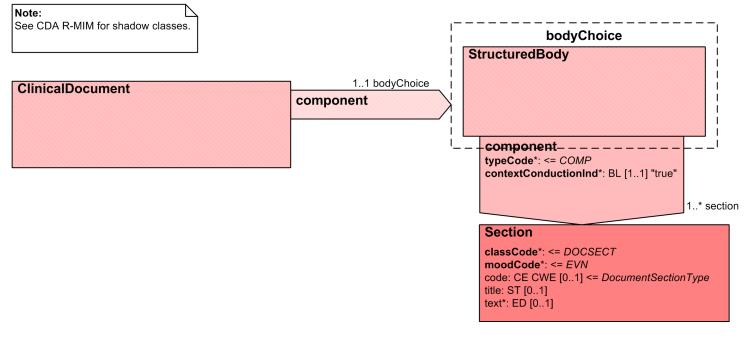


Figure 7.7. Medical History

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody		
Medical History	The past and current medical history of the subject	11	component[med_hist]/section		
	of care, this includes problem/diagnosis and medical or surgical procedures performed.		component[med_hist]/section/code		
			component[med_hist]/section/code/@code="101.16117"		
			component[med_hist]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[med_hist]/section/code/@codeSystemName="NCTIS Data Components"		
			component[med_hist]/section/code/@displayName="Medical History"		
			component[med_hist]/section/title="Medical History"		
			component[med_hist]/section/text		See Appendix A, CDA Narratives
Medical History > Problem/Diagnosis	The problems and/or diagnoses that form part of the past and current medical history of the subject of care.	0*	See: PROBLEM/DIAGNOSIS		
Medical History > Procedure	A clinical activity carried out for therapeutic, evaluat- ive, investigative, screening or diagnostic purposes.	0*	See: PROCEDURE		
Medical History > Other Medical His- tory Item	A medical history entry which cannot be categorised into one of the categories such as Procedure and Problem/Diagnosis.	0*	See: OTHER MEDICAL HISTORY ITEM		

nehta

Example 7.7. Medical History 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>
    <section>
     <code code="101.16117" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
     displayName="Medical History" />
     <title>Medical History</title>
     <text>Medical history narrative goes here.</text>
     . . .
    </section>
   </component>
   <!-- End Medical History -->
  . . .
    </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.2.1 PROBLEM/DIAGNOSIS

Identification

Name	Problem/Diagnosis
Metadata Type	Data Group
Identifier	DG-15530

Relationships

Parent

Data Type	Name	Obligation	Occurrence
e	MEDICAL HISTORY	Optional	0*

CDA R-MIM Representation

Figure 7.8, "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 effectiveTime 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. Observation.

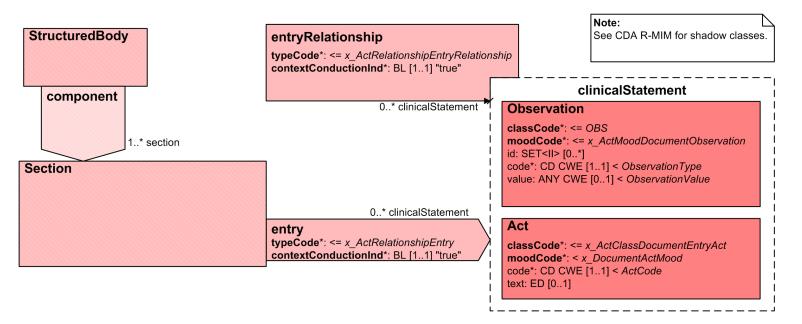


Figure 7.8. Problem/Diagnosis



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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[med_hist]/section	-	
Problem/Diagnosis	The problems and/or diagnoses that form part of the	0*	entry[prob]		
	past and current 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 avail- able 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/Diagnos- is 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>

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

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Problem/Diagnosis > Date of Resolu- tion/Remission	The date or estimated date that the problem/diagnos- is resolved or went into remission, as indicated/iden- tified by the clinician.	01	entry[prob]/observation/entryRelationship[crt]/@typeCode="SUBJ"		
			entry[prob]/observation/entryRelationship[crt]/observation/@classCode="OBS"		
			entry[prob]/observation/entryRelationship[crt]/observation/@moodCode="EVN"		
			entry[prob]/observation/entryRelationship[crt]/observation/code/@code="103.15510"		
			entry[prob]/observation/entryRelationship[crt]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[prob]/observation/entryRelationship[crt]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[prob]/observation/entryRelationship[crt]/observation/code/@displayName="Date of Resolution/ Remission"		
			entry[prob]/observation/entryRelationship[crt]/observation/code/value:IVL_TS		See <time> for available attributes.</time>
Problem/Diagnosis > Problem/Diagnos- is Comment	Additional narrative about the problem or diagnosis not captured in other fields.	01	entry[prob]/observation/entryRelationship[cmt]/@typeCode="COMP"		
			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 7.8. 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>
     <!-- Start Medical History -->
   <component>
    <section>
     <!-- Problem/Diagnosis -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <id root="74D29C88-706E-11E0-9726-5ABE4824019B" />
       <code code="282291009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU" displayName="Diagnosis interpretation" />
       <!-- Date of Onset -->
       <effectiveTime value="20110410" />
       <!-- Problem/Diagnosis Identification -->
       <value code="116223007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
       codeSystemVersion="20090731" displayName="Comorbidity" xsi:type="CD" />
       <!-- Date of Resolution/Remission -->
       <entryRelationship typeCode="SUBJ">
       <observation classCode="OBS" moodCode="EVN">
         <code code="103.15510" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
         displayName="Date of Resolution/Remission" />
         <value value="27042011" xsi:type="IVL_TS" />
        </observation>
       </entryRelationship>
       <!-- 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"
         displayName="Problem/Diagnosis Comment" />
         <text>Problem/Diagnosis Comment Comment goes here.</text>
        </act>
      </entryRelationship>
      </observation>
     </entry>
     <!-- End Problem/Diagnosis -->
```

</section> </component>

<!-- End Medical History -->

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

</ClinicalDocument>

7.1.2.2 PROCEDURE

Identification

Name	Procedure
Metadata Type	Data Group
Identifier	DG-15514

Relationships

Data Type	Name	Obligation	Occurrence
	MEDICAL HISTORY	Optional	0*

Figure 7.9, "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.

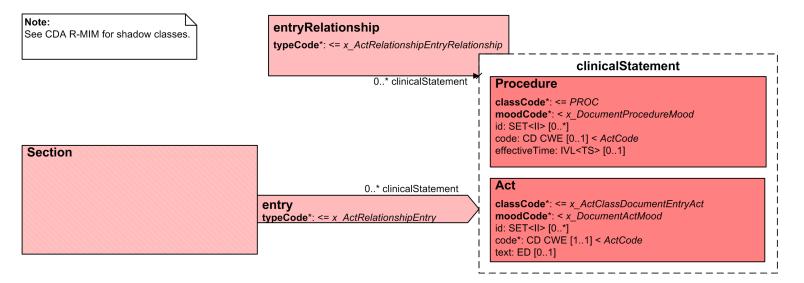


Figure 7.9. Procedure

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[med_hist]/section/		
Procedure	A clinical activity carried out for therapeutic, evaluat-	0*	entry[proc]		
	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 avail- able 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 7.9. 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>
  <!-- Start Medical History -->
  <component>
   <section>
     <!-- Procedure -->
     <entry>
      cedure classCode="PROC" moodCode="EVN">
      <id root="B96A38C6-706C-11E0-AD2E-42BC4824019B" />
      <!-- Procedure Name -->
       <code code="397956004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
       displayName="hip replacement" />
       <!-- DateTime Started -->
       <effectiveTime value="20110427" />
       <!-- 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>Procedure Comment goes here.</text>
        </act>
       </entryRelationship>
      </procedure>
     </entry>
     <!-- End Procedure -->
   </section>
   </component>
   <!-- End Medical History -->
 </structuredBody>
 </component>
```

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

7.1.2.3 OTHER MEDICAL HISTORY ITEM

Identification

Name	OTHER MEDICAL HISTORY ITEM
Metadata Type	Data Group
Identifier	DG-16627

Relationships

Data Type	Name	Obligation	Occurrence	
•	MEDICAL HISTORY	Optional	0*	

Figure 7.10, "Other 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 Other Medical History Data Group is represented by an Act related to the Section class by an entry relationship.

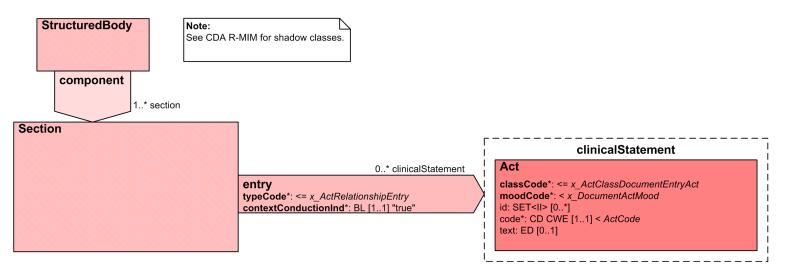


Figure 7.10. Other Medical History Item

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[med_hist]/section		·
Other Medical History Item	A medical history entry which cannot be categorised	0*	entry		
	into one of the categories such as Procedure and 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 avail- able 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="Other Medical History Item"		
Other Medical History Item > Medical History Item Description	A description of the problem, diagnosis, intervention or other medical history item.	11	entry/act/text:ST		
Other Medical History Item > Medical History Item Time Interval	The date range during which the item applied or oc- curred.	01	entry/act/effectiveTime		See <time> for available attributes.</time>
Other Medical History Item > Medical	Free text comments providing additional information	01	entry/act/entryRelationship		
History 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 7.10. 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"
       displayName="Other 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 Item 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>

7.1.3 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 INSTRUCTION	Optional	0*
**	EXCLUSION STATEMENT - MEDICATIONS	Optional	01

Data Type	Name	Obligation	Occurrence
	e-Referral	Essential	11

Figure 7.11, "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.

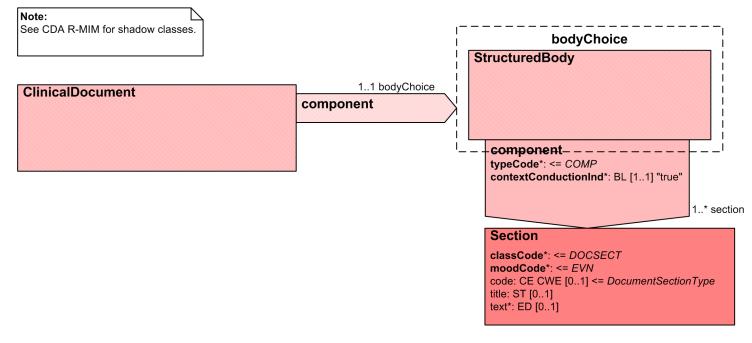


Figure 7.11. Medications

NEHTA SCS Data Compon- ent	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	11	component[meds]/section		
	the subject of care or the subject of care 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 Instruction	Information pertaining to one or more therapeutic goods that is represented to achieve, or is likely to achieve, its principal intended action by pharmaco- logical, chemical, immunological or metabolic means in or on the body of a human.	0*	See: MEDICATION INSTRUCTION		
Medications > Exclusion Statement - Medications	Statement positively asserting that the subject of care has not been prescribed or is not taking any medication.	01	See: EXCLUSION STATEMENT - MEDICATIONS		

Example 7.11. 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> ... <!-- Medications --> <component> <section> <code code="101.16146" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Medications" /> <title>Medications</title> <text>Medications narrative goes here.</text> </section> </component> <!-- End Medications --> </structuredBody> <component> <!-- End CDA Body --> </ClinicalDocument>

7.1.3.1 MEDICATION INSTRUCTION

Identification

Name	Medication Instruction
Metadata Type	Data Group
Identifier	DG-16211

Relationships

Data Type	Name	Obligation	Occurrence	
•	MEDICATIONS	Optional	0*	

Figure 7.12, "Medication Instruction" 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 Instruction data group is described by a SubstanceAdministration which is related to the containing section by an entry. Medication Instruction Identification maps to consumable.manufacturedProduct.manufacturedMaterial.code and Directions maps to SubstanceAdministration.text.

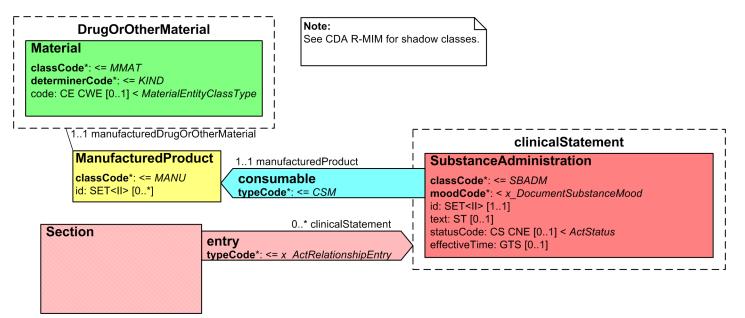


Figure 7.12. Medication Instruction

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[meds]/section	on	
Medication Instruction		boods that is represented to achieve, or is likely to chieve, its principal intended action by pharmacolo-	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"		
			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 suit- able internal key is not available, a UUID may be used.	See <id> for avail- able attributes.</id>
Medication Instruction > Medicine	The medicine, vaccine or other therapeutic good being ordered, administered to or used by the subject of care.	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 refer- ence 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>

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Medication Instruction > 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		Dose Instruction and Instructions for Use are mutually exclus- ive - Dose Instruction is to be used for a medication and In- structions for Use is to be used for a therapeutic good other than a medica- tion.

Example 7.12. Medication Instruction 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>
     ...
     <!-- Medications -->
   <component>
   <section>
     <!-- Medication Instruction -->
     <entry>
      <substanceAdministration classCode="SBADM" moodCode="EVN">
      <id root="B53B4024-752B-11E0-B329-3C7C4824019B" />
      <!-- Directions -->
       <text>Directions for use goes here.</text>
       <consumable>
        <manufacturedProduct>
         <manufacturedMaterial>
         <!-- Therapeutic Good Identification -->
         <code code="23641011000036102" codeSystem="1.2.36.1.2001.1004.100"
          codeSystemName="Australian Medicines Terminology (AMT)"
          displayName="paracetamol 500 mg + codeine phosphate 30 mg tablet" />
         </manufacturedMaterial>
        </manufacturedProduct>
       </consumable>
      </substanceAdministration>
     </entry>
     <!-- End Medication Instruction -->
   </section>
   </component>
  <!-- End Medications -->
   </structuredBody>
 <component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.3.2 EXCLUSION STATEMENT - MEDICATIONS

Identification

Name	EXCLUSION STATEMENT - MEDICATIONS
Metadata Type	Data Group
Identifier	DG-16136

Relationships

Data Type	Name	Obligation	Occurrence
	MEDICATIONS	Optional	01

Figure 7.13, "Exclusion Statement - 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 Exclusion Statement - Medications data group is represented by an observation class and is related to its containing section by an entry relationship.

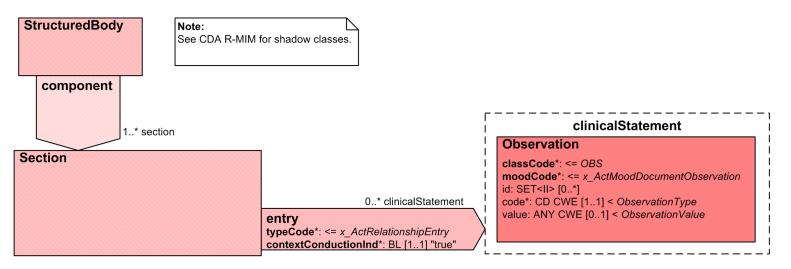


Figure 7.13. Exclusion Statement - Medications

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[meds]/section	·	
Exclusion Statement - Medications	Statement positively asserting that the subject of care has not been prescribed or is not taking any medication.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Exclusion Statement - Medications >	The statement about the absence or exclusion of	11	entry[gbl_meds]		
Global Statement	certain medication.		entry[gbl_meds]/observation		
			entry[gbl_meds]/observation/@classCode="OBS"		
			entry[gbl_meds]/observation/@moodCode="EVN"		
			entry[gbl_meds]/observation/code		
			entry[gbl_meds]/observation/code/@code="103.16302.2.2.1"		
			entry[gbl_meds]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[gbl_meds]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[gbl_meds]/observation/code/@displayName="Global Statement"		
			entry[gbl_meds]/observation/value:CD	NCTIS: Admin Codes - Global Statement Values	See <code> for available attributes.</code>

Example 7.13. Exclusion Statement - 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>
    ...
    <!-- Medications -->
   <component>
    <section>
     <!-- Exclusion Statement - Medications -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
       <code code="103.16302.2.2.1" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
       displayName="Global Statement" />
       <value code="01" codeSystem="1.2.36.1.2001.1001.101.104.16299" codeSystemName="NCTIS Global Statement Values"</pre>
        displayName="None known" xsi:type="CD" />
      </observation>
     </entry>
     <!-- End Exclusion Statement - Medications -->
    </section>
   </component>
   <!-- End Medications -->
    </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4 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	Optional	0*
**	EXCLUSION STATEMENT - ADVERSE REACTIONS	Optional	01

Data Type	Name	Obligation	Occurrence
	e-Referral	Essential	11

Figure 7.14, "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.

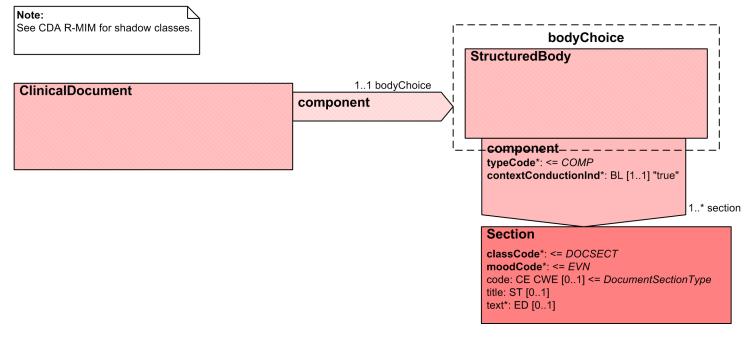


Figure 7.14. Adverse Reactions

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		·
Adverse Reactions	Information about adverse reactions and/or	11	component[adv_reacts]/section		
	propensity to adverse reaction of the subject of care(including allergies and intolerances), and any relevant reaction details.		component[adv_reacts]/section/code		
			component[adv_reacts]/section/code/@code="101.20113"		
			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
Adverse Reactions > Adverse Reaction	A harmful or undesirable effect associated with ex- posure to any substance or agent, including food, plants, animals, venom from animal stings or a medication at therapeutic or sub-therapeutic doses.	0*	See: ADVERSE REACTION		
Adverse Reactions > Exclusion State- ment - Adverse Reactions	Statements about adverse substance reactions that need to be positively recorded as absent or excluded.	01	See: EXCLUSION STATEMENT - ADVERSE REACTIONS		

Example 7.14. Adverse Substance 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 Substance Reactions -->
   <component>
    <section>
     <code code="101.20113" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
     displayName="Adverse Reactions" />
     <title>Adverse Reactions</title>
     <text>Adverse Reactions narrative goes here.</text>
     . . .
    </section>
   </component>
   <!-- End Adverse Substance Reactions -->
  . . .
    </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.4.1 ADVERSE REACTION

Identification

Name	Adverse Reaction
Metadata Type	Data Group
Identifier	DG-15517

Relationships

Data Type	Name	Obligation	Occurrence
	ADVERSE REACTIONS	Optional	0*

Figure 7.15, "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.

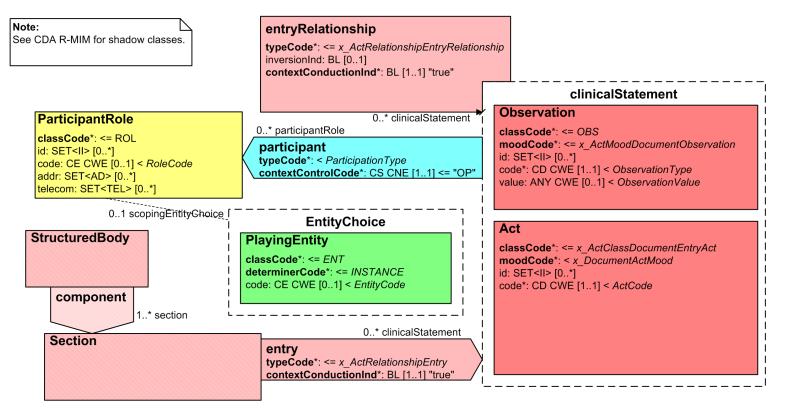


Figure 7.15. ADVERSE REACTION



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 Com- ponent	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-	0*	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 dose		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 avail- able 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	Identification of a substance, agent, or a class of	11	entry/act/participant		
	substance, that is considered to be responsible for the adverse reaction.		entry/act/participant/@typeCode="CAGNT"		
			entry/act/participant/participantRole/playingEntity/code	NEHTA Sub- stance/Agent Values	See <code> for available attributes.</code>

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

NEHTA SCS Data Com- ponent	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 > Manifestation	Clinical manifestation of the adverse reaction expressed as a single word, phrase or brief description.	1*	entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/@typeCode="MFST"		
			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 7.15. Adverse 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>
   ...
     <!-- Adverse Reactions -->
   <component>
    <section>
     <!-- Adverse Reaction -->
     <entry>
      <act classCode="ACT" moodCode="EVN">
      <id root="B8D7F8FC-7077-11E0-BFC8-5BC84824019B" />
       <code code="102.15517" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
       displayName="Adverse Reaction" />
       <!-- Substance/Agent -->
       <participant typeCode="CAGNT">
       <participantRole>
         <playingEntity>
         <code code="90580008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"</pre>
          displayName="fish" />
         </playingEntity>
       </participantRole>
       </participant>
       <!-- 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"
         displayName="Reaction Event" />
         <!-- Manifestation -->
         <entryRelationship inversionInd="true" typeCode="MFST">
          <observation classCode="OBS" moodCode="EVN">
           <code code="271807003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"
           displayName="skin rash" />
          </observation>
         </entryRelationship>
       </observation>
       </entryRelationship>
```

</act> </entry>

...

</section> </component> <!-- End Adverse Reactions -->

...

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

7.1.4.2 EXCLUSION STATEMENT - ADVERSE REACTIONS

Identification

Name	EXCLUSION STATEMENT - ADVERSE REACTION
Metadata Type	Data Group
Identifier	DG-16137

Relationships

Data Type	Name	Obligation	Occurrence
	ADVERSE REACTIONS	Optional	01

Figure 7.16, "Exclusion Statement - 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.

The EXCLUSION STATEMENT - ADVERSE REACTION data group is represented by an observation class and is related to its containing section by an entry relationship.

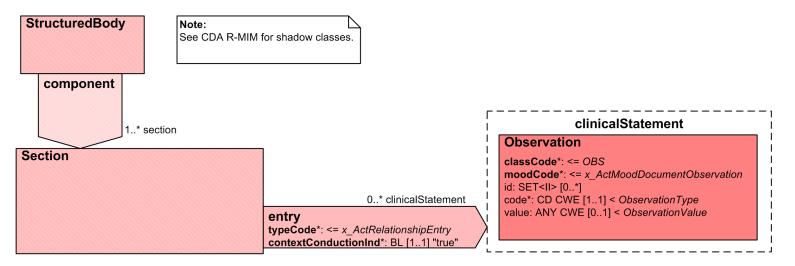


Figure 7.16. Exclusion Statement - Adverse Reaction



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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[adv_reacts]/section		
	Statements about Adverse Reactions that need to be positively recorded as absent or excluded.	01	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.

³ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Exclusion Statement - Adverse Reac-	The statement about the absence or exclusion.	11	entry[gbl_adv]		
tions > Global Statement			entry[gbl_adv]/observation		
			entry[gbl_adv]/observation/@classCode="OBS"		
			entry[gbl_adv]/observation/@moodCode="EVN"		
			entry[gbl_adv]/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 avail- able attributes.</id>
			entry[gbl_adv]/observation/code		
			entry[gbl_adv]/observation/code/@code="103.16302.2.2.2"		
			entry[gbl_adv]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[gbl_adv]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[gbl_adv]/observation/code/@displayName="Global Statement "		
			entry[gbl_adv]/observation/ value:CD	NCTIS: Admin Codes - Global Statement Values	See <code> for available attributes.</code>

Example 7.16. Exclusion Statement - 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>
     <!-- Exclusion Statement - Adverse Reaction -->
     <entry>
      <observation classCode="OBS" moodCode="EVN">
      <id root="D3BEC470-7531-11E0-846A-E2824824019B" />
       <code code="103.16302.2.2.2" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
       displayName="Global Statement" />
       <value code="02" codeSystem="1.2.36.1.2001.1001.101.104.16299" codeSystemName="NCTIS Global Statement Values"
       displayName="Not asked" xsi:type="CD" />
      </observation>
     </entry>
     <!-- End Exclusion Statement - Adverse Reaction -->
     . . .
   </section>
   </component>
   <!-- End Adverse Reactions -->
   </structuredBody>
 <component>
   <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.5 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*

Data Type	Name	Obligation	Occurrence	
	e-Referral	Optional	01	

Figure 7.17, "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.

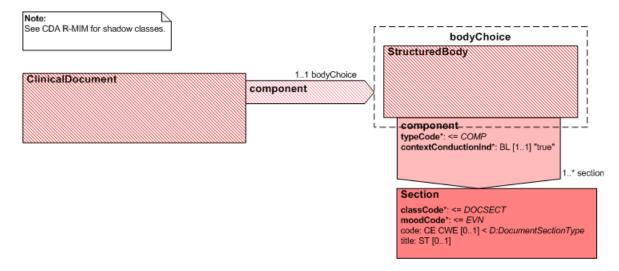


Figure 7.17. Diagnostic Investigations

NEHTA SCS Data Compon- ent	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 the subject of care during the healthcare event, that are considered to be relevant to the		component[diag_inv]/section/code			
	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"			
			component[diag_inv]/section/code/@codeSystemName="NCTIS Data Components"			
			component[diag_inv]/section/code/@displayName="Diagnostic Investigations"			
			component[diag_inv]/section/title="Diagnostic Investigations"			
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/			
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 spe- cialised 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 7.17. 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> <!-- Diagnostic Investigations --> <component> <section> <code code="101.20117" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Diagnostic Investigations" /> <title>Diagnostic Investigations</title> </section> </component> <!-- End Diagnostic Investigations --> </structuredBody> <component> <!-- End CDA Body --> </ClinicalDocument>

7.1.5.1 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*

Data Type	Name	Obligation	Occurrence
•	DIAGNOSTIC INVESTIGATIONS	Optional	0*

Figure 7.18, "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 Request Details.

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

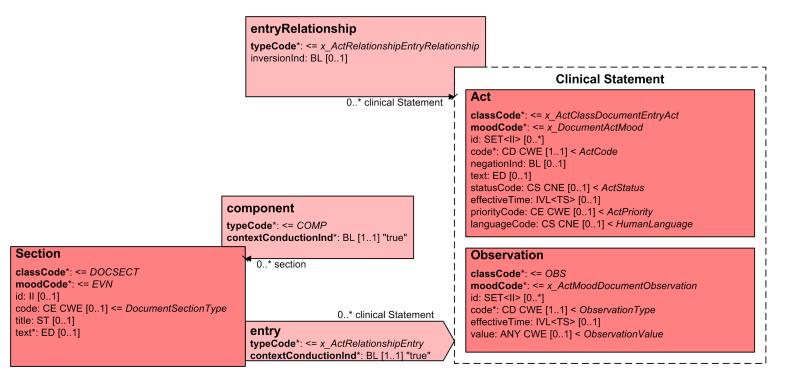


Figure 7.18. Pathology Test Result

NEHTA SCS Data Compon- ent	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		11	entry[path_test_res]/observation		
Test Result Name			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- tion.	01	entry[path_test_res]/observation/entryRelationship[diag_serv]/@typeCode="COMP"		
Service			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 Ser- vice Values (table 0074)	See <code> for available attributes.</code>

NEHTA SCS Data Compon- ent	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/@codeSystemVersion= "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 origin- al 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 Compon- ent	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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Pathology	Pathology Test Result > Pathology Concise and clinically contextualised narrative interpretation of the pathology test results.	01	entry[path_test_res]/observation/entryRelationship[path_conc]/@typeCode="REFR"		
lest Conclusion			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 avail- able 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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result > Test Comment	Additional narrative about the test not captured in	01	entry[path_test_res]/observation/entryRelationship[tst_cmt]/@typeCode="COMP"		
other fields.	other fields.		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/@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 Compon- ent	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.		$entry [path_test_res] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_name] / observation / entry Relationship [req_dets] / act / entry Relationship [req_dets] / ac$		
			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 avail- able 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 7.18. 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"
      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"
  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"
    codeSystemVersion="20110531" displayName="pathology service" />
   <value code="CH" codeSystem="2.16.840.1.113883.12.74" displayName="Chemistry"
    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="1.2.36.1.2001.1001.101.104.16501"
    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>
  </act>
  </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"
  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"
  codeSystemName="NCTIS Data Components" displayName="Test Comment" />
 <text>Known PKD</text>
 </act>
</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"
  codeSystemName="NCTIS Data Components" displayName="Test Request Details" />
  <!-- Begin Test Requested Name -->
  <entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="RQO">
   <code code="103.11017" codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components" displayName="Test Requested Name" />
   <value code="275707000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU"
    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"
  codeSystemName="NCTIS Data Components" displayName="Pathology test Result DateTime" />
  <effectiveTime value="201112141120+1000"/>
```

</entryRelationship> <!-- End Pathology test Result DateTime --> </observation> </entry> </section> </component>

<!-- End Pathology Test Result -->

</observation>

. . .

</section> </component> <!-- End Diagnostic Investigations -->

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

7.1.5.1.1 TEST SPECIMEN DETAIL

Identification

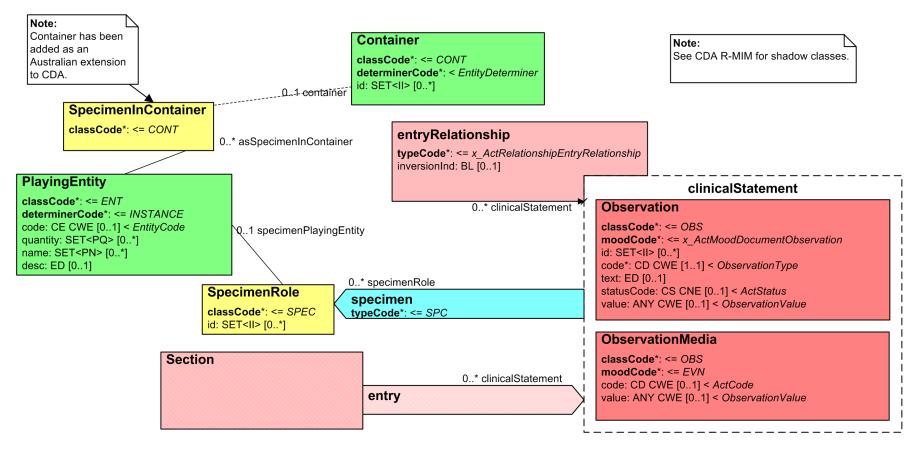
Name	Test Specimen Detail
Metadata Type	Data Group
Identifier	DG-16156.2.2.1

Relationships

Data Type	Name	Obligation	Occurrence
*	PATHOLOGY TEST RESULT	Essential	1*

Figure 7.19, "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.







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 Compon- ent	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_t	.est_res]/observation/
Test Specimen Detail Details about specimens to which this test result refers.		1*	entryRelationship[spec]/@typeCode="SUBJ"		
		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 Tis- sue 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.	

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

NEHTA SCS Data Compon- ent	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 Loc- ation 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 Lat- erality 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- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	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 observa- tionMedia.
			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 avail- able attributes.</id>
			entryRelationship[spec]/observation/entryRelationship[ana_im]/observationMedia/value		
Test Specimen Detail > Physical De- tails (Physical Properties of an Ob- ject)	Record of physical details such as weight and dimen- stions, of a body part, device, device, lesion or spe- cimen.	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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Test Specimen Detail > Physical Details 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 observa- tionMedia.	
		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	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.
			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
Test Specimen Detail > Collection and	Any conditions to be met before the sample should	01	entryRelationship[spec]/observation/entryRelationship[smp_pre]/@typeCode="COMP"		children.
handling > Sampling Preconditions	be taken.	0	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 Compon- ent	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		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 Compon- ent	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 avail- able 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 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 avail- able attributes.</id>
Test Specimen Detail > Identifiers > Container Identifier	Unique identifier given to the container in which the specimen is transported or processed.	91	entryRelationship[spec]/observation/specimen/specimenRole/ specimenPlayingEntity/ext:asSpecimenInContainer		See Australian CDA extension: Contain- er
			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 avail- able attributes.</id>

Example 7.19. 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>
       <entry>
          <observation>
         <!-- Begin Test Specimen Detail -->
         <entryRelationship typeCode="SUBJ">
          <observation classCode="OBS" moodCode="EVN">
           <code code="102.16156.2.2.1" codeSystem="1.2.36.1.2001.1001.101"
           codeSystemName="NCTIS Data Components" displayName="Test Specimen Detail" />
           <!-- Begin Collection DateTime -->
           <effectiveTime value="201112141120+1000" />
           <!-- End 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"
           displayName="cubital fossa">
            <!-- Begin Anatomical Location Description -->
            <originalText>left cubital fossa</originalText>
            <!-- End Anatomical Location Description -->
```

```
nehta
```

```
<!-- 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 xsi:type="CD" 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>
  <!-- Begin Specimen Tissue Type -->
   <code code="SER" codeSystem="2.16.840.1.113883.12.70" displayName="Serum" />
   <!-- End Specimen Tissue Type -->
   <!-- Begin Weight/Volume -->
   <quantity unit="mL" value="10" />
   <!-- End Weight/Volume -->
   <!-- Begin Description -->
   <desc xsi:type="ST">10 mL</desc>
   <!-- End Description -->
   <!-- Begin Continer Identifier -->
   <ext:asSpecimenInContainer classCode="CONT">
   <ext:container>
    <ext:id root="1.2.123.654321" />
   </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"
   codeSystemName="NCTIS Data Components" displayName="Sampling Preconditions" />
  <value code="182923009" codeSystem="2.16.840.1.113883.6.96" 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"
   codeSystemName="NCTIS Data Components" displayName="Collection Setting" />
 <value xsi:type="ST">Pathology Clinic</value>
 </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" 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" 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 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 Image --> </observation> </entryRelationship> <!-- End Test Specimen Detail --> . . . </observation> </entry> </section> </component> <!-- End Pathology Test Result --> </section> </component>

<!-- End Diagnostic Investigations -->

7.1.5.1.2 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

Dat	ta Type	Name	Obligation	Occurrence
~		PATHOLOGY TEST RESULT	Optional	0*

Figure 7.20, "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.

	clinicalStatement	
0* clinicalStatement	Observation classCode*: <= OBS moodCode*: <= x_ActMoodDocumentObservation id: SET <ii> [0*] code*: CD CWE [11] < ObservationType text: ED [01] statusCode: CS CNE [01] < ActStatus value: ANY CWE [01] < ObservationValue</ii>	0* observationRange 0* observationRange classCode*: <= OBS moodCode*: <= EVN.CRT code: CD CWE [01] < ActCode value: ANY CWE [01]
	Organizer classCode*: <= x_ActClassDocumentEntryOrganizer moodCode*: <= EVN id: SET <ii> [0*] code: CD CWE [01] < ActCode statusCode*: CS CNE [11] < ActStatus</ii>	component typeCode*: <= COMP contextConductionInd*: BL [11] "true" sequenceNumber: INT [01] seperatableInd: BL [01]
	Act classCode*: <= x_ActClassDocumentEntryAct moodCode*: < x_DocumentActMood id: SET <ii> [0*] code*: CD CWE [11] < ActCode negationInd: BL [01] text: ED [01]</ii>	0* clinicalStatement

Figure 7.20. Pathology Test Result Group

NEHTA SCS Data Compon- ent	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 avail- able attributes.</id>
			entryRelationship[res_gp]/organizer/statusCode/@code="completed"		Required CDA ele- ment.
Pathology Test Result Group > Patho- logy 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-			entryRelationship[res_gp]/organizer/component[ind_res]/		
al Pathology Test Result			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 avail- able 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 > Individu- al 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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individu- al 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 > Individu- al 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 Refer- ence Range Details			entryRelationship[res_gp]/organizer/component[ind_res]/observation/referenceRange/observationRange		
			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 > Individu- al 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 > Individu- al 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 > Individu- al Pathology Test Result > Individual	al ficant, unexpected or unreliable values, or informa-		entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[res_cmt]/ @typeCode="COMP"		
Pathology Test Result Comment			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"		
			$entry Relationship [res_gp]/organizer/component [ind_res]/observation/entry Relationship [res_cmt]/act/ code and the set of the se$		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individu- al 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"		
			entryRelationship[res_gp]/organizer/component[ind_res]/observation/entryRelationship[ref_guide]/act/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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Pathology Test Result Group > Individu- al 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 7.20. 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>
        <!-- Pathology Result Observation -->
        <entry>
          <observation>
          . . .
         <!-- 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"
           displayName="Chemistry studies (set)" />
           <!-- End Pathology Test Result Group Name -->
           <statusCode code="completed" />
           <!-- Begin Individual Pathology Test Result -->
           <component>
            <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 Individual Pathology Test Result Value -->
 <value unit="mmol/L" value="0.06" xsi:type="PQ" />
 <!-- End Individual Pathology Test Result Value -->
 <!-- Begin Result Value Normal Status -->
 <interpretationCode code="N" codeSystemName="HL7 ObservationInterpretationNormality"</pre>
     codeSystem="2.16.840.1.113883.1.11.10206" 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"
    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"
    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"
   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">
    <low value="0.04" />
    <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 --> <component> <observation classCode="OBS" moodCode="EVN"> <id root="888FBD14-F089-11E0-8B47-D1804824019B" /> <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" 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"> <low value="0.14" /> <high value="0.35" /> </value> </observationRange> </referenceRange> </observation> </component> </organizer> </entryRelationship> <!-- End Patholgy Test Result Group -->

...

```
</observation>
</entry>
<!-- End Pathology Result Observation -->
```

• • •

```
</section> </component>
```

```
<!-- End Pathology Test Result -->
```

/section>
</component>
<!-- End Diagnostic Investigations -->

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

7.1.5.1.2.1 RESULT GROUP SPECIMEN DETAIL

Identification

Name	Result Group Specimen Detail
Metadata Type	Data Group
Identifier	DG-16156.2.2.2

Relationships

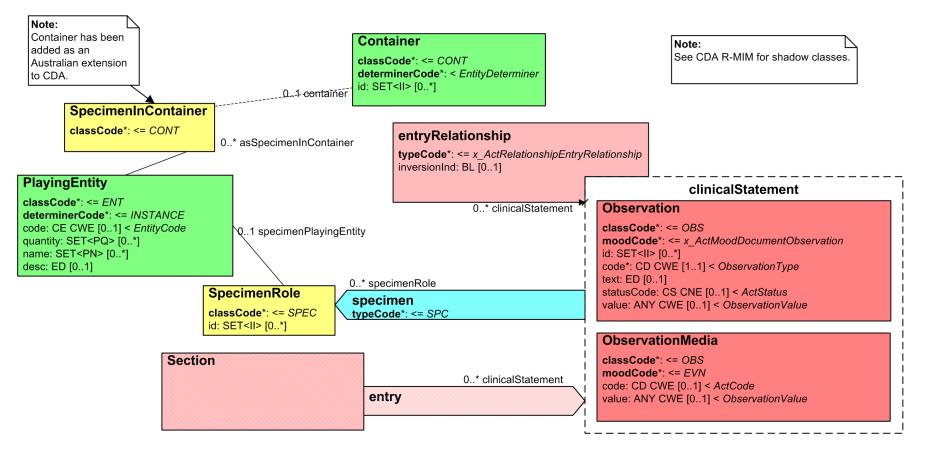
Parent

Data Type	Name	Obligation	Occurrence
~~	PATHOLOGY TEST RESULT GROUP	Optional	01

CDA R-MIM Representation

Figure 7.21, "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.





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 Compon- ent	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	tionship[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 > Speci- men 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 > Collec- tion Procedure	The method of collection to be used.	01	component/observation/methodCode	NS	See <code> for available attributes.</code>
Result Group Specimen Detail > Ana- tomical 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.

⁵ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Anatom- ical 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 > Anatom- ical Site > Specific Location > Anatom- ical 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- ical Site > Specific Location > Side	The lateraility of an anatomical location.	01	component/observation/targetSiteCode/qualifier		
ical Site > Specific Education > 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 Lat- erality Reference Set	See <code> for available attributes.</code>
Result Group Specimen Detail > Anatom- ical Site > Anatomical Location De- scription	Description of the Anatomical location.	01	component/observation/targetSiteCode/ originalText		
Result Group Specimen Detail > Anatom- ical 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 observa- tionMedia.
			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 avail- able attributes.</id>
			component/observation/entryRelationship[ana_im]/observationMedia/value		

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Phys- ical Details (Physical Properties of an Object)	Record of physical details such as weight and dimen- sions of a body part, device, lesion or specimen.	0*	component/observation/ specimen/specimenRole/specimenPlayingEntity		
Result Group Specimen Detail > Physic- al Details > Weight	Weight of the object.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		Either Weight OR Volume may be used mutually ex- clusive.
Result Group Specimen Detail > Physic- al 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.
Result Group Specimen Detail > Physic- al Details > Dimensions > Volume	Volume of the object.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/quantity:PQ		Either Weight OR Volume may be used mutually ex- clusive.
Result Group Specimen Detail > Physic- al Details > Description (Object De- scription)	A general description of the specimen preparation.	01	component/observation/specimen/specimenRole/specimenPlayingEntity/desc:ST		
Result Group Specimen Detail > Physic- al 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 observa- tionMedia.
			component/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/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.
			component/observation/entryRelationship[spec_im]/observationMedia/value		

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Result Group Specimen Detail > Collec- tion 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 > Collec-	Any conditions to be met before the sample should	01	component/observation/entryRelationship[smp_pre]/@typeCode="COMP"		
tion and handling > Sampling Precon- ditions	be taken.		component/observation/entryRelationship[smp_pre]/observation		
			component/observation/entryRelationship[smp_pre]/observation/@classCode="OBS"		
			component/observation/entryRelationship[smp_pre]/observation/@moodCode="EVN"		
			component/observation/entryRelationship[smp_pre]/observation/code		
			component/observation/entryRelationship[smp_pre]/observation/code/@code="103.16171"		
			component/observation/entryRelationship[smp_pre]/observation/code/@codeSystem= "1.2.36.1.2001.1001.101"		
			component/observation/entryRelationship[smp_pre]/observation/code/@codeSystemName="NCTIS Data Components"		
			component/observation/entryRelationship[smp_pre]/observation/code/@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 Compon- ent	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 Re- ceived	0		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 > Identi- fiers	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 > Identi- fiers > Specimen Identifier	Unique identifier of the specimen, normally assigned by the laboratory.	01	component/observation/specimen/specimenRole/ id		See <id> for avail- able attributes.</id>

NEHTA SCS Data Compon- ent	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	ers > 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 avail- able attributes.</id>
Result Group Specimen Detail > Identi- fiers > 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: Contain- er
			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:id		See <id> for avail- able attributes.</id>

Example 7.21. Result Group 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>
         <entry>
           <observation>
           <!-- Pathology Result Group -->
           <entryRelationship typeCode="COMP">
            <organizer classCode="BATTERY" moodCode="EVN">
            . . .
              <!-- Result Group Specimen Detail -->
             <component>
              <observation classCode="OBS" moodCode="EVN">
              <code code="102.16156.2.2.2" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Componenets"
               displayName="Result Group Specimen Detail" />
               <!-- Collection DateTime -->
               <effectiveTime value="20110427" />
               <!-- Collection Procedure -->
               <methodCode code="82078001" codeSystem="2.16.840.1.113883.6.96"</pre>
                codeSystemName="SNOMED-CT" displayName="blood draw" />
               <!-- Anatomical Location name -->
               <targetSiteCode code="50496004" codeSystem="2.16.840.1.113883.6.96"
                codeSystemName="SNOMED-CT" displayName="cubital fossa">
                <!-- Anatomical Location Description -->
```

```
<originalText>left cubital fossa</originalText>
 <!-- Side -->
 <qualifier>
  <name code="78615007" codeSystem="2.16.840.1.113883.6.96"
  codeSystemName="SNOMED-CT-AU" codeSystemVersion="20110531"
  displayName="with laterality" />
  <value code="7771000" codeSystem="2.16.840.1.113883.6.96"</pre>
  codeSystemName="SNOMED-CT" codeSystemVersion="20110531"
  displayName="left" />
 </qualifier>
</targetSiteCode>
<!-- Specimen Tissue Type -->
<specimen>
 <specimenRole>
  <!-- Specimen Identifier -->
  <id root="1.2.3.41123" />
  <specimenPlayingEntity>
  <code code="87612001" codeSystem="2.16.840.1.113883.6.96"
   codeSystemName="SNOMED-CT" displayName="blood" />
   <!-- Volume/Weight -->
  <quantity unit="mL" value="10" />
   <!-- Description -->
   <desc xsi:type="ST">10 mL of Blood</desc>
   <!-- Container Identifier -->
   <ext:specimenInContainer classCode="CONT">
   <ext:container>
    <ext:id root="CNH45218964" />
   </ext:container>
   </ext:specimenInContainer>
  </specimenPlayingEntity>
 </specimenRole>
</specimen>
<!-- 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 -->
<!-- Image -->
<entryRelationship typeCode="SPRT">
 <observationMedia classCode="OBS" moodCode="EVN">
  <id root="4C37EC20-7220-11E0-967C-A1C24724019B" />
  <value mediaType="image/jpeg">
  <reference value="specimen.jpg" />
  </value>
 </observationMedia>
</entryRelationship>
<!-- Sampling Preconditions -->
<entryRelationship typeCode="COMP">
 <observation classCode="OBS" moodCode="EVN">
  <code code="103.16171" codeSystem="1.2.36.1.2001.1001.101"
  codeSystemName="NCTIS Data Components" displayName="Sampling Preconditions" />
  <value code="16985007" codeSystem="2.16.840.1.113883.6.96"</pre>
  codeSystemName="SNOMED-CT" displayName="fasting" xsi:type="CD" />
 </observation>
</entryRelationship>
```

<!-- Collection Setting --> <entryRelationship typeCode="COMP"> <observation classCode="OBS" moodCode="EVN"> <code code="103.16529" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Collection Setting" /> <value xsi:type="ST">Ward 3B</value> </observation> </entryRelationship> <!-- DateTime Received --> <entryRelationship typeCode="COMP"> <observation classCode="OBS" moodCode="EVN"> <code code="103.11014" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="DateTime Received" /> <value xsi:type="TS" value="201104271000" /> </observation> </entryRelationship> <!-- Parent Specimen Identifier --> <entryRelationship typeCode="COMP"> <observation classCode="OBS" moodCode="EVN"> <code code="103.16187" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Parent Specimen Identifier" /> <specimen> <specimenRole> <id root="2.1.3.452812" /> </specimenRole> </specimen> </observation> </entryRelationship> </observation> </component> </organizer> </entryRelationship> <!-- End Pathology Test Result Group --> . . . </observation> </entry> . . . </section> </component> <!-- End Pathology Test Result --> </section> </component> <!-- End Diagnostic Investigations --> </structuredBody> <component> <!-- End CDA Body --> </ClinicalDocument>

7.1.5.2 IMAGING EXAMINATION RESULT

Identification

Name Im	maging Examination Result
Metadata Type Da	Data Group
Identifier DO	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

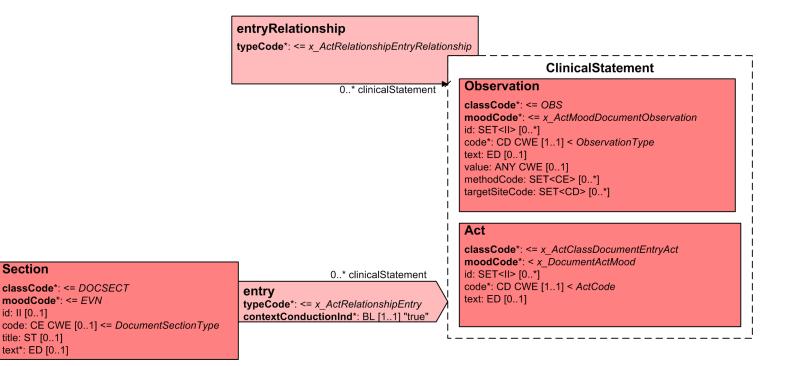
Figure 7.22, "Imaging Examination Result" shows a subset of the CDA R-MIM containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

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 the 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.





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 Compon- ent	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 examina- tion.	01	entry[img_exam_res]/observation/ methodCode	NS	See <code> for available attributes.</code>		

⁶ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Anatom- ical 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 > Anatom- ical 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 > Anatom- ical Site > Specific Location > Anatom- ical 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 Lat- erality Reference Set	See <code> for available attributes.</code>
Imaging Examination Result > Anatom- ical Site > Anatomical Location De- scription	Description of anatomical location.	01	entry[img_exam_res]/observation/targetSiteCode/ originalText		

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Anatom- ical Site > Anatomical Location Image		0*	entry[img_exam_res]/observation/entryRelationship[img]/@typeCode="REFR"		The image may or may not be attested to and is therefore mapped to observa- tionMedia.
			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 avail- able attributes.</id>
			entry[img_exam_res]/observation/entryRelationship[img]/observationMedia/ value		
Imaging Examination Result > Imaging	The status of the examination result as a whole.	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 Compon- ent	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 origin- al 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	Narrative description of findings, including compar-	01	entry[img_exam_res]/observation/entryRelationship[find]/@typeCode="REFR"		
	ative findings.		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 avail- able 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 > Examin- ation 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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result > Examin- ation Request Details	Details concerning a single examination requested.	0*	See: EXAMINATION REQUEST DETAILS		
Imaging Examination Result > Imaging The date and, optionally, time when the Imaging Examination Result DateTime 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/@codeSys- tem="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 7.22. 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>
       <code code="102.16145" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
        displayName="Imaging Examination Result" />
       <title>Imaging Examination Result</title>
       <text>Narrative about the imaging examination result goes here.</text>
       <entry>
        <observation classCode="OBS" moodCode="EVN">
         <id root="D1C49518-5994-11E0-A72D-45FBDFD72085" />
         <!-- Imaging Examination Result Name -->
         <code code="16310003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
         displayName="ultrasound scan" />
         <!-- Examination Result Representation -->
         <text xsi:type="ST">Examination Result Representation goes here. This is an example string.</text>
         <!-- Imaging Modality -->
         <methodCode code="16310003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
          displayName="ultrasound" />
         <!-- Anatomical Location Name -->
         <targetSiteCode code="113345001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"
          displayName="abdomen">
          <!-- Anatomical Location Description -->
          <originalText>Abdomen from left.</originalText>
          <!-- 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"
           displayName="left" xsi:type="CD" />
          </gualifier>
```

```
</targetSiteCode>
<!-- 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"
  codeSystemVersion="20110531" displayName="report status" />
 <value code="3" codeSystem="1.2.36.1.2001.1001.101.104.16501"
  codeSystemName="NCTIS Result Status Values" displayName="Final" xsi:type="CD" />
</observation>
</entryRelationship>
<!-- End Imaging Examination Result Status -->
<!-- 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>Patient pregnant. Confirm dates. Estimate from LNMP 18 weeks.</text>
</act>
</entryRelationship>
<!-- End Clinical Information Provided -->
<!-- Anatomical Location Image -->
<entryRelationship typeCode="REFR">
<observationMedia classCode="OBS" moodCode="EVN">
 <id root="060E2C54-7519-11E0-98E3-A5674824019B" />
 <value mediaType="image/jpeg">
  <reference value="abdomen.jpg" />
 </value>
</observationMedia>
</entryRelationship>
<!-- End Anatomical Location Image -->
<!-- Findings -->
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
 <id root="1165EC16-599B-11E0-AFD0-DA01E0D72085" />
 <code code="103.16503" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
  displayName="Findings" />
 <text>Normal obstetric ultrasound with foetal biometry indicating getational age of 18WOD.</text>
</observation>
</entryRelationship>
<!-- End Findings -->
<!-- Imaging Examination Result Group -->
<entryRelationship typeCode="COMP">
</organizer>
</entryRelationship>
<!-- End Imaging Examination Result Group -->
<!-- Examination Request Details -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
</act>
</entryRelationship>
<!-- End Examination Request Details -->
<!-- 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"
 displayName="Imaging Examination Result DateTime" />
 <codecutiveTime value="201104271100" />
 </observation>
 </entryRelationship>
 <!--- End Imaging Examination Result DateTime --->
 </observation>
 </entry>
 </esction>
 </esction>
 <//section>
 <//section>
</section></section>
</section>
</sect

</component> <!-- End Diagnositc Investigations -->

. . .

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

7.1.5.2.1 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 7.23, "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.

entryRelationship typeCode*: <= x_ActRelationshipEntryR	elationship	
0* clinicalStatement	clinicalStatement Observation classCode*: <= OBS moodCode*: <= x_ActMoodDocumentObservation id: SET <ii>[0*] code*: CD CWE [11] < ObservationType text: ED [01] statusCode: CS CNE [01] < ActStatus value: ANY CWE [01] < ObservationValue targetSiteCode: SET<cd> CWE [0*] <= ActSite</cd></ii>	ObservationRange 0* observationRange classCode*: <= OBS moodCode*: <= EVN.CRT code: CD CWE [01] < ActCode value: ANY CWE [01]
	Organizer classCode*: <= x_ActClassDocumentEntryOrganizer moodCode*: <= EVN id: SET <ii> [0*] code: CD CWE [01] < ActCode statusCode*: CS CNE [11] < ActStatus</ii>	0* clinicalStatement
		typeCode*: <= COMP contextConductionInd*: BL [11] "true" sequenceNumber: INT [01] seperatableInd: BL [01]

Figure 7.23. Imaging Examination Result Group

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 Compon- ent	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[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 avail- able attributes.</id>
			entryRelationship/[im_res_gp]/organizer/ statusCode="completed"		Required CDA ele- ment.
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>

⁷ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Compon- ent	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 Res- ult	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 avail- able 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	Tagged reference ranges for this value in its particular measurement context.	• 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/observa- tionRange/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/observa- tionRange/value:IVL_PQ		

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Imaging Examination Result Group > Individual Imaging Examination Result	May include statements about significant, unexpec- 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.	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		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 Loca- tion	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 Compon- ent	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 Lat- erality 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*	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 avail- able attributes.</id>
			entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/entryRelationship[img]/observationMedia/value		

Example 7.23. 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>
          <entry>
           <observation>
         <!-- Imaging Examination Result Group -->
         <entryRelationship typeCode="COMP">
          <organizer classCode="BATTERY" moodCode="EVN">
          <id root="0224C9E2-85CA-11E0-911F-D0D14724019B"/>
           <code code="268445003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
           displayName="ultrasound scan - obstetric" />
           <statusCode code="completed" />
           <!-- Individual Imaging Examination Result -->
           <component>
            <observation classCode="OBS" moodCode="EVN">
            <id root="59D44B0C-599E-11E0-B6BD-FA04E0D72085" />
             <code code="396551005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"</pre>
             displayName="femur length" />
             <!-- Result Value -->
             <value unit="mm" value="28" xsi:type="PQ" />
             <!-- Result Value Normal Status -->
             <interpretationCode code="N" codeSystemName="HL7 ObservationInterpretationNormality" codeSystem=" 2.16.840.1.113883.5.83" displayName="Normal" />
             <!-- Anatomical Location name -->
             <targetSiteCode code="182046008" codeSystem="2.16.840.1.113883.6.96"
              codeSystemName="SNOMED-CT" displayName="femur">
```

```
<!-- Anatomical Location Description -->
         <originalText>Left Femur</originalText>
        <!-- Side -->
         <qualifier>
         <name code="78615007" codeSystem="2.16.840.1.113883.6.96"
          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" xsi:type="CD" />
        </gualifier>
        </targetSiteCode>
       <!-- Anatomical Location Image -->
        <entryRelationship typeCode="REFR">
        <observationMedia classCode="OBS" moodCode="EVN">
         <id root="060E2C54-7519-11E0-98E3-A5674824019B" />
         <value mediaType="image/jpeg">
          <reference value="femur.jpg" />
          </value>
        </observationMedia>
       </entryRelationship>
       <!-- Result Comment -->
        <entryRelationship typeCode="COMP">
        <act classCode="INFRM" moodCode="EVN">
         <code code="281296001" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
          displayName="result comments" />
         <text>Femur measured during ultrasound scan.</text>
         </act>
        </entryRelationship>
       <!-- Result Value Reference Range Details -->
       <referenceRange typeCode="REFV">
        <observationRange classCode="OBS" moodCode="EVN.CRT">
         <code code="281301001" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
          displayName="within reference range" />
          <value xsi:type="IVL_PQ">
          <low value="25" unit="mm" />
          <high value="32" unit="mm" />
         </value>
        </observationRange>
       </referenceRange>
       <!-- End Result Value Reference Range Details -->
      </observation>
      </component>
      <!-- End Individual Imaging Examination Result -->
    </organizer>
   </entryRelationship>
   <!-- End Imaging Examination Result Group -->
     </observation>
     </entry>
</section>
</component>
<!-- End Imaging Examination Result -->
```

. . .

</section> </component> <!-- End Diagnositc Investigations -->

...

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

7.1.5.2.2 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 7.24, "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 effectiveTime is the Image DateTime. The DICOM Series Identifier is mapped to a component Act. The Image is mapped to a related ObservationMedia class.

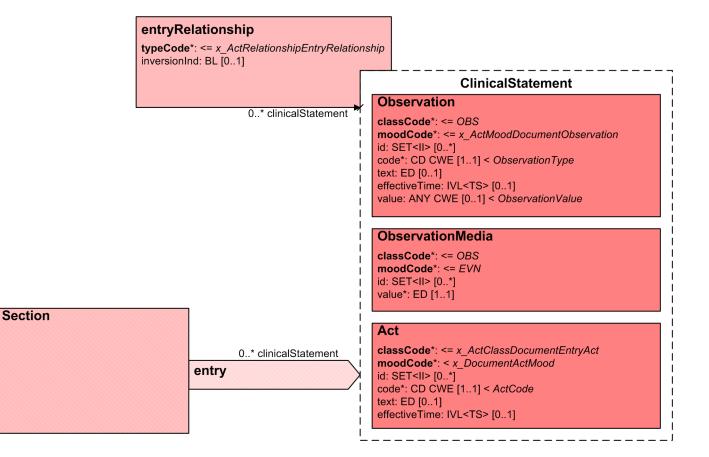


Figure 7.24. Examination Request Details

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*⁸ with an appropriate object identifier (OID), and **SHALL** be publicly available.</u>

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

NEHTA SCS Data Compon-	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ent					
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[im_example_component[im_e	m]/section/entry[img_exa	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"		

⁸ http://www.hl7.org/oid/index.cfm?ref=footer

NEHTA SCS Data Compon- ent	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 >Examina- tion Request Details > DICOM Study	Unique identifier of this study allocated by the ima- ging service.	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/@typeCode="SUBJ"		See <id> for avail- able 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/@codeSys- tem="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 avail- able attributes.</id>

NEHTA SCS Data Compon- ent	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 avail- able 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"		
			$entry Relationship [exam_req]/act/entry Relationship [exam_perf]/act/entry Relationship [img_det]/observation and the set of the s$		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/@classCode="OBS"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/@moodCode="EVN"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/code		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/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]/observa- tion/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/code/@displayName="Image Details"		
Examination Request Details > Image Details > Image Identifier	Unique identifier of this image allocated by the ima- ging service (often the DICOM image instance UID).	01	entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/ observation/id		See <id> for avail- able attributes.</id>

NEHTA SCS Data Compon- ent	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 ima- ging 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"		
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/ entryRelationship[dicom_ser]/act/id		See <id> for avail- able 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 Compon- ent	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/@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 Compon- ent	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 observa- tionMedia.
		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 avail- able attributes.</id>	
			entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observation/ entryRelationship/observationMedia/value:ED		

Example 7.24. Examination Request 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 Diagnositc Investigations section -->
  <component>
   <section>
     <!-- Begin Imaging Examination Result -->
     <component>
     <section>
       <!-- Begin Imaging Examination Result Observation -->
       <entry>
          <observation>
       <!-- 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" 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" codeSystemName="NCTIS Data Components" displayName="Examination Requested name" />
            <text>U/S Obstetric - Dating</text>
            </observation>
           </entryRelationship>
           <!-- End Examination Requested Name -->
           <!-- Report Identifier -->
           <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
            <id root="1.23456879" />
             <code code="103.16514" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Report Identifier" />
            </observation>
           </entryRelationship>
           <!-- End Report Identifier -->
           <!-- Imaging Examination Performed -->
           <entryRelationship typeCode="SUBJ">
```

```
<act classCode="ACT" moodCode="EVN">
   <!-- DICOM Study Identifier -->
   <id root="1.2.124.113532.192.168.224.50.20110427.83527.2623361" />
   <code code="103.16513" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="DICOM Study Identifier" />
   <!-- Image Details -->
   <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
     <!-- Image Identifier -->
     <id root="1.2.392.200036.9116.7.8.6.58542403.6.0.1289367131841248" />
     <code code="103.16515" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Image Details" />
     <!-- Image DateTime -->
     <effectiveTime value="201104271000" />
     <!-- Image View Name -->
     <value code="241510009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT-AU" codeSystemVersion="20101130" displayName="ultrasound scan of leg"
      xsi:type="CD" />
     <!-- DICOM Series Identifier -->
     <entryRelationship typeCode="REFR">
      <act classCode="ACT" moodCode="EVN">
       <id root="1.2.392.200036.9116.7.8.6.58542403.2.0.1125941630756854" />
       <code code="103.16517" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="DICOM Series Identifier" />
      </act>
     </entryRelationship>
     <!-- End DICOM Series Identifier -->
     <!-- Subject Position -->
     <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
       <code code="103.16519" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Subject Position" />
       <value xsi:type="ST">Supine</value>
      </observation>
     </entryRelationship>
     <!-- End Subject Position -->
     <!-- Image -->
     <entryRelationship typeCode="SPRT">
      <observationMedia classCode="OBS" moodCode="EVN">
       <id root="060E2C54-7519-11E0-98E3-A5674824019B" />
       <value mediaType="image/jpeg">
        <reference value="123456.jpg" />
       </value>
      </observationMedia>
     </entryRelationship>
     <!-- End Image -->
    </observation>
   </entryRelationship>
   <!-- End Image Details -->
  </act>
 </entryRelationship>
 <!-- End Imaging Examination Performed -->
</act>
</entryRelationship>
<!-- End Examination Request Details -->
 . . .
 </observation>
```

</entry> </section </component> </section> </component>

...

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

7.1.5.3 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 7.25, "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.

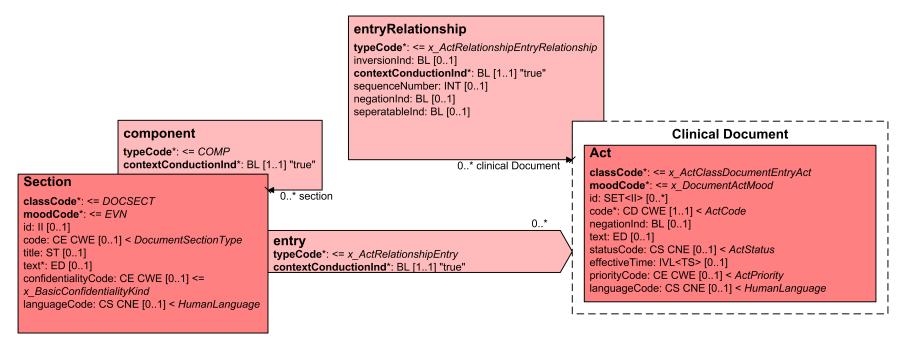


Figure 7.25. Requested Service

CDA Mapping

NEHTA SCS Data Compon- ent	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_section/component[req]]	rv]/section	
Requested Service > Requested Ser-	Describes the service arranged for, or provided to	11	entry[service]		
the subject of care.		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 Com- mencement Window	The datetime or date range at/during which the ar- ranged 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 Compon- ent	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 7.25. 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 </text> <!-- Begin Requested Service Description --> <entry> <!-- 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" 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" 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" /> </act> </entryRelationship> <!-- End Requested Service DateTime --> </act> </entry> <!-- End Requested Service Description --> </section> </component> <!-- End Requested Service --> </section> </component> <!-- End Diagnostic Investigations --> </structuredBody> </component> <!-- End CDA Body --> </ClinicalDocument>

7.1.5.3.1 SERVICE PROVIDER

Identification

Name	Service Provider
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
~	REQUESTED SERVICE	Optional	01

7.1.5.3.1.1 SERVICE PROVIDER - PERSON

CDA R-MIM Representation

Figure 7.26, "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 ARRAGNED SERVICE Act.

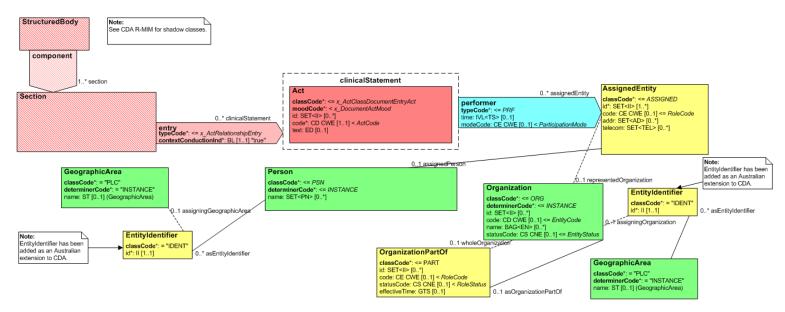


Figure 7.26. Service Provider - Person

CDA Mapping

NEHTA SCS Data Com- ponent	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[req_section/component]	erv]/section/entry[service	e]/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 im- plementation-specific fixed value equival- ent to "Service Pro- vider".	
Service Provider > Role	The involvement or role of the participant in the re- lated 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 Oc- cupations, First Edi- tion, 2006 - METeOR 350899. [ABS2006]. However, if a suit- able value in this set cannot be found, then any code set that is both re- gistered with HL7 and publically avail- able 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 ele- ment.
	or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	penonner/assignedEntity/assignedPerson		
Service Provider > Participant > Entity Identifier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	performer/assignedEntity/assignedPerson/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-I.	See common pat- tern: Entity Identifier.

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Service Provider > Participant > Ad- dress The description of a location where an ated or can be otherwise reached or for description of the purpose for which the primarily used by that entity.		1*	performer/assignedEntity/ <address></address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN AD- DRESS.	See common pat- tern: Address.
Service Provider > Participant > Elec- tronic Communication Detail	The electronic communication details of entities.	0*	performer/assignedEntity/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
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 propag- ates 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 ser- vice, 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 iden- tified separately from any other within a social con- text.	1*	performer/assignedEntity/assignedPerson/ <person name=""></person>		See common pat- tern: 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 pat- tern: Employment.

Example 7.26. 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 Section -->
   <component>
   <section>
     <!-- Begin Requsted Service Section -->
     <component>
      <section>
       <!-- Requested Service -->
       <entry>
       <act>
         <!-- Begin Service Provider - Person -->
         <performer typeCode="PRF">
          <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"
           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></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></prefix></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 --> <!-- Employer Organisation (Participant (Organisation)) --> <ext:asEmployment classCode="EMP"> <!-- Position In Organisation --> <ext:code> <originalText>Staff Radiologist</originalText> </ext:code> <!-- Occupation --> <ext:jobCode 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" displayName="Radiologist" /> <!-- 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>Radiology Specialists</name> <asOrganizationPartOf> <wholeOrganization> <!-- Organisation Name --> <name use="ORGB">Radiology 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>

</assignedPerson>

```
</assignedEntity>
</performer>
<!-- End Service Provider - Person -->
```

</act>
</act>
</actpace>
</actpac

. . .

</section> </component> <!-- End Diagnostic Investigations Section -->

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

7.1.5.3.1.2 SERVICE PROVIDER - ORGANISATION

CDA R-MIM Representation

Figure 7.27, "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.

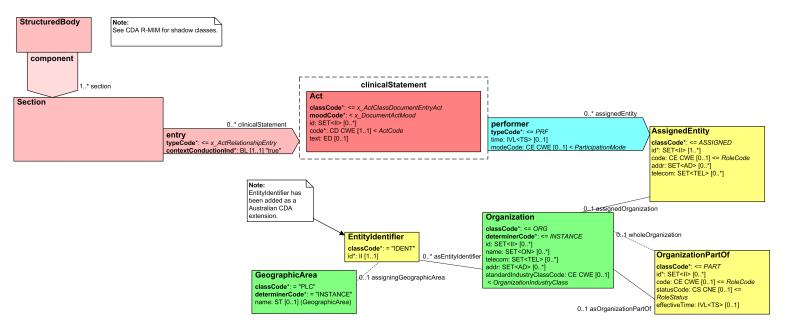


Figure 7.27. Service Provider - Organisation

CDA Mapping

NEHTA SCS Data Com- ponent	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[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 > Role	The involvement or role of the participant in the re- lated 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 ele- ment.		
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 identify- ing a participant within a healthcare context.	1*	performer/assignedEntity/representedOrganization/asOrganizationPartOf/wholeOrganization/ <entity Identifier></entity 	The value of one En- tity Identifier SHALL be an Australian HPI-O.	See common pat- tern: Entity Identifier.		
Service Provider > Participant > Ad- dress	The description of a location where an entity is loc- ated 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 > Elec- tronic 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 Com- ponent	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 propagates to its children.
Service Provider > Participant > Person or Organisation or Device > Organisa- tion	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 > Organisa- tion > Organisation Name	The name by which an organisation is known or called.	11	performer/assignedEntity/representedOrganization/asOrganizationPartof/wholeOrganization/name		
Service Provider > Participant > Person or Organisation or Device > Organisa- tion > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	01	performer/assignedEntity/representedOrganization/name		
Service Provider > Participant > Person or Organisation or Device > Organisa- tion > Organisation Name Detail > Or- ganisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	performer/assignedEntity/representedOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 7.27. 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 Section -->
   <component>
    <section>
     <!-- Begin Requested Service Section -->
     <component>
      <section>
       <!-- Requested Service -->
       <entry>
        <act>
         <!-- Begin Service Provider - Organisation -->
         <performer typeCode="PRF">
          <assignedEntity>
           <!-- ID is used for system purposes such as matching -->
           <id root="0B15F408-F2EA-11E0-9610-D3BC4824019B" />
           <!-- Begin Role -->
           <code code="309964003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
           displayName="radiology department" />
           <!-- End Role -->
           <!-- Begin Address -->
           <addr use="WP">
            <streetAddressLine>115 Radiology Street</streetAddressLine>
            <city>Nehtaville</city>
            <state>OLD</state>
            <postalCode>5555</postalCode>
            <additionalLocator>32568931</additionalLocator>
            <country>Australia</country>
           </addr>
           <!-- End Address -->
```

```
<!-- Begin Electronic Communication Detail -->
        <telecom use="WP" value="tel:0788324888" />
        <!-- End Electronic Communication Detail -->
        <representedOrganization>
        <!-- Begin Department/Unit -->
        <name>Xray Department</name>
        <!-- End Department/Unit -->
        <asOrganizationPartOf>
         <wholeOrganization>
          <!-- Begin Organisation Name -->
          <name use="ORGB">Private Radiology Clinic</name>
          <!-- End Organisation Name -->
          <!-- Begin Entity Identifier -->
          <ext:asEntityIdentifier classCode="IDENT">
           <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.8003345771167888" />
            <ext:assigningGeographicArea classCode="PLC">
            <ext:name>National Identifier</ext:name>
           </ext:assigningGeographicArea>
          </ext:asEntityIdentifier>
          <!-- End Entity Identifier -->
         </wholeOrganization>
        </asOrganizationPartOf>
       </representedOrganization>
      </assignedEntity>
      </performer>
     <!-- End Service Provider - Organisation -->
    </act>
   </entry>
   <!-- End Requested Service -->
  </section>
 </component>
 <!-- End Requested Service Section -->
</section>
</component>
<!-- End Diagnostic Investigations Section -->
```

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

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 <u>www.hl7.org</u>¹.

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
  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>
   stranslation
     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 --> <code

<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-0" 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

```
<period xsi:type="IVL_TS">
    <high value="200910301030+1000" />
</period>
```

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 Compon- ent Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Eleme	nts				
Entity Identifier	A number or code issued for the purpose of identi- fying an entity (person,	The cardinal- ity of the group comes	ext:asEntityIdentifier		See Australian CDA extension: Entity- Identifier.
	organisation or organisa- tion sub-unit) within a	from the link- ing parent	ext:asEntityIdentifier/@classCode="IDENT"		
	healthcare context.	and the car- dinality of	ext:asEntityIdentifier/ext:id		
		the children data ele- ments comes from the R-MIM	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 com- bination of geographic area, issuer and type. If no such OID exists, it SHALL be defined before any identifiers can be created.	
		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.	
			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

<!-- 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-0" root="1.2.36.1.2001.1003.0.8003621234567890" /> <ext:assigningGeographicArea classCode="PLC"> <ext:name>National Identifier</ext:name> </ext:assigningGeographicArea> </ext:asEntityIdentifier>

8.5 Person Name

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments				
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 per- son'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 differenti- ation between recorded names for a per- son.	01	name/@use	AS 5017-2006: Health Care Client Name Usage	Space separated list of codes.				

Example 8.9. Person Name

<!-- 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 -->

8.6 Address

CDA Mapping

NEHTA SCS Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Address	The description of a location where an entity is loc- ated 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- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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 ad- dress components describing a geographical/phys- ical 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 geo- graphical/physical address.	0*	addr/ streetAddressLine		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line	The standard low level address components describ- ing a geographical/physical location that, used in conjunction with the other high level address com- ponents, 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 identifi- able 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]	

Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Descriptor used to identify the floor or level of a multi- storey building/complex.	01	addr/ additionalLocator		
The numeric or alphanumeric reference number of a house or property that is unique within a street name.	01	addr/houseNumber		
The Australian Lot reference allocated to an address in the absence of street numbering.	01	addr/additionalLocator		
The name that identifies a public thoroughfare and differentiates it from others in the same sub- urb/town/locality.	01	addr/streetName		
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]	
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]	
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]	
Identification number for the channel of postal delivery.	01	addr/ deliveryAddressLine		
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 <u>www.auspost.com.au/postcodes</u>)	
The identifier of the Australian state or territory.	01	addr/state	AS 5017-2006 Australian State/Territory Identifier - Postal	
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 <u>www.auspost.com.au/postcodes</u>)	
	storey building/complex. The numeric or alphanumeric reference number of a house or property that is unique within a street name. The Australian Lot reference allocated to an address in the absence of street numbering. The name that identifies a public thoroughfare and differentiates it from others in the same sub- urb/town/locality. A code that identifies the type of public thoroughfare. Term used to qualify Australian Street Name used for directional references. Identification for the channel of postal delivery. Identification number for the channel of postal deliv- ery. The full name of the general locality contained within the specific address. The identifier of the Australian state or territory. The numeric descriptor for a postal delivery area (as defined by Australia Post), aligned with locality,	LessLessDescriptor used to identify the floor or level of a multistorey building/complex.01The numeric or alphanumeric reference number of a house or property that is unique within a street name.01The Australian Lot reference allocated to an address in the absence of street numbering.01The name that identifies a public thoroughfare and differentiates it from others in the same sub-urb/town/locality.01A code that identifies the type of public thoroughfare.01Term used to qualify Australian Street Name used for directional references.01Identification for the channel of postal delivery.01Identification number for the channel of postal delivery.01The full name of the general locality contained within the specific address.01The identifier of the Australian state or territory.01The numeric descriptor for a postal delivery area (as defined by Australia Post), aligned with locality.01	LessLessLessDescriptor used to identify the floor or level of a multi- storey building/complex.0.1addr/additionalLocatorThe numeric or alphanumeric reference number of name.0.1addr/houseNumberThe Australian Lot reference allocated to an address in the absence of street numbering.0.1addr/additionalLocatorThe name that identifies a public thoroughfare and urb/town/locality.0.1addr/streetNameA code that identifies the type of public thoroughfare.0.1addr/streetNameTypeTerm used to qualify Australian Street Name used for directional references.0.1addr/directionIdentification for the channel of postal delivery.0.1addr/directionIdentification number for the channel of postal delivery.0.1addr/deliveryAddressLineThe full name of the general locality contained within the specific address.0.1addr/cliveryAddressLineThe identifier of the Australian state or territory.0.1addr/cliveryAddressLineThe full name of the general locality contained within the specific address.0.1addr/cliveryAddressLineThe identifier of the Australian state or territory.0.1addr/stateThe numeric descriptor for a postal delivery area (as effend by Australia Posta), aligned with locality.0.1addr/state	Interview Interview <t< td=""></t<>

NEHTA SCS Data Compon- ent	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 Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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 ad- dress', http:URL', etc.
			telecom/@use	HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAd- dressUse	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:TelecommunicationAd- dressUse	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 Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments				
CDA Data Elements	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 Organ- isation	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 is- sue in NEHTA Parti- cipation Data Spe- cification for this lo- gical Data Compon- ent's cardinality. Furthermore the cor- responding CDA ele- ments ext:asEmploy- ment and ext:employ- erOrganization doesn't allow the cardinality to be '0*'/multiple. The cardinality SHALL be interpreted as '01' instead of '0*'.				
			ext:asEmployment/@classCode="EMP"						

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

NEHTA SCS Data Com- ponent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Employment Detail > Employer Organ- isation > Entity Identifier	A number or code issued for the purpose of identify- ing a participant within a healthcare context.	1*	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>	The value of one En- tity Identifier SHALL be an Australian HPI-O.	See common pat- tern: Entity Identifier.
Employment Detail > Employer Organ- isation > 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 Organ- isation > 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 Organ- isation > 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 Or- ganisation	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 -->
    <ext:code>
        <originalText>Senior Medical Oncologist</originalText>
    </ext:code>
    <!-- Occupation -->
    <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>
        <asOrganizationPartOf>
            <wholeOrganization>
                <!-- Organisation Name -->
               <name use="ORGB">GP Clinics</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>
```

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 <procedure>) 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.

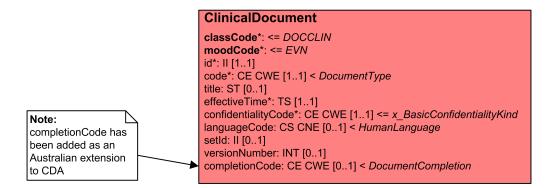


Figure 9.1. CDA R-MIM Representation

9.2 EntityIdentifier

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.

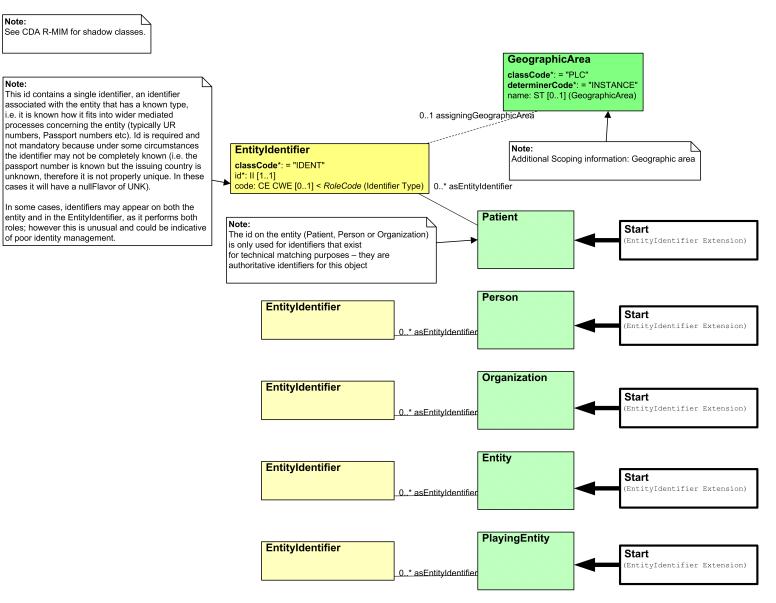


Figure 9.2. CDA R-MIM Representation

Note:

Note:

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.

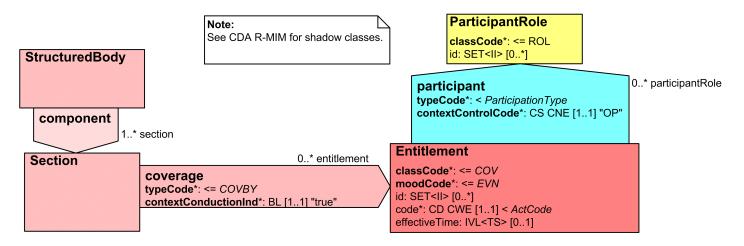


Figure 9.3. CDA R-MIM Representation

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.

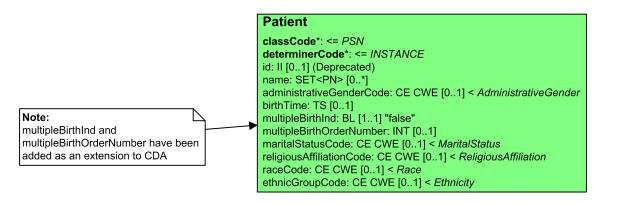


Figure 9.4. CDA R-MIM Representation

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.

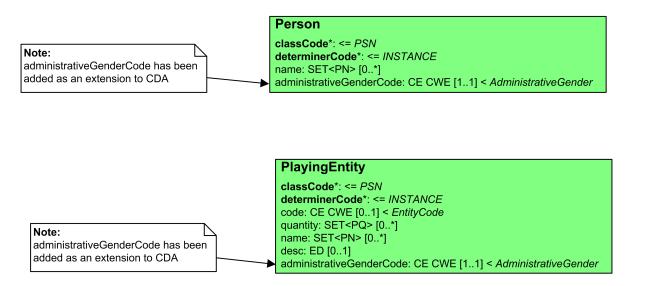


Figure 9.5. CDA R-MIM Representation

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.

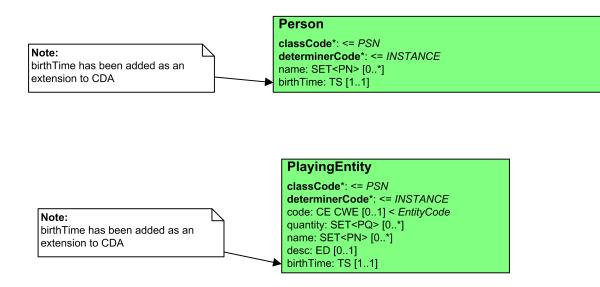


Figure 9.6. CDA R-MIM Representation

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.

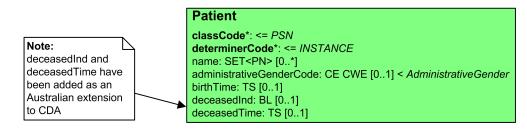


Figure 9.7. CDA R-MIM Representation

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.

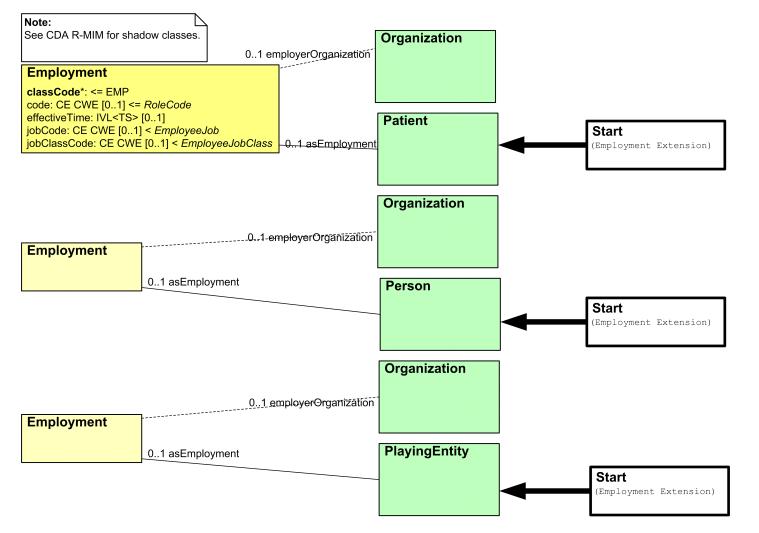


Figure 9.8. CDA R-MIM Representation

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.

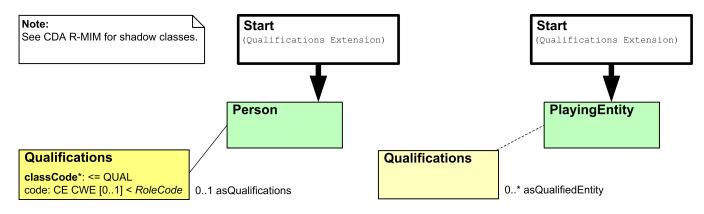


Figure 9.9. CDA R-MIM Representation

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.

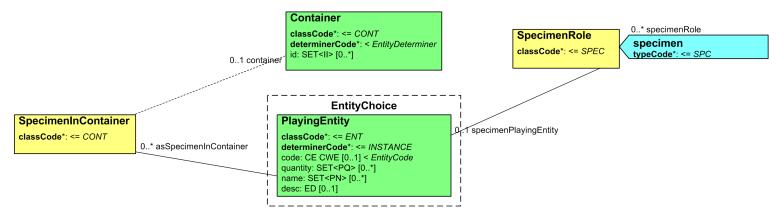


Figure 9.10. CDA R-MIM Representation

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



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	1	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

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	Ν	Newborn Name	NB	(EXT)	(EXT)
4	В	Professional or Business Name	Α	(R1) Artist/Stage	(R1) Includes writer's pseudonym, stage name, etc
5	М	Maiden Name (Name at birth)	М	(R2) Maiden Name	A name used prior to marriage.
8	0	Other Name (Alias)	Р	(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	А	Abbreviated name	ORGA	(EXT)	(EXT)
6	E	Enterprise name	ORGE	(EXT)	(EXT)
8	Х	Other	ORGX	(EXT)	(EXT)
9	Y	Unknown	ORGY	(EXT)	(EXT)

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

displayName	code	codeSystemName	codeSystem
Official death certificate or death register	D	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	М	Mailing or Postal	PST	Postal Address	Used to send mail.
3	Т	Temporary Accommodation (individual provider only)	ТМР	Temporary Ad- dress	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 De- scribed	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	A	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) telephoneNOTE: Mobile will also need a TelecommunicationAd- dress Use code of MC (Mobile Contact) (see HL7 v3: TelecommunicationAddressUse)	M	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: Telecommunica- tionAddressUse)	P	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 ap- propriate code from the list be- low:		
			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 com- mon 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.

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	Ρ	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	A	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 - Document Status

displayName	code	codeSystemName	codeSystem
Interim	I	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

10.13 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

10.14 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		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

10.15 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.		
АРТ	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).		

10.16 HL7 v3 CDA: RelatedDocument.typeCode

Code Value		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.		

10.17 METeOR 291036: Indigenous Status

displayName		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

10.18 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

10.19 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	Ν	HL7 ObservationInterpretationNormality	2.16.840.1.113883.5.83

10.20 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

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 to Version 1.1 05 July 2011

ID	Document Ref.		Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
1	5	CDA Header	Cardinalities changed	ClinicalDocument/code cardinality changed to 11	NEHTA	Document Review - not aligned with SCS	16 May 2011
2	5.1	ClinicalDocument	Code changed	Changed displayName to "Referral Note" from "e-Referral"	NEHTA	Document Review - not aligned with SCS	3 June 2011
3	5.1	ClinicalDocument	Mapping table changed	Added completionCode mapping	NEHTA	Document Review - not aligned with SCS	3 June 2011
4	5.1.2	Information Recipient	XML Example changed	Removed Sex and Date of Birth from the XML example	NEHTA	Document Review - not aligned with mapping table	6 June 2011
5	5.1.2	Information Recipient	Cardinalities changed	InformationRecipient cardinality changed to 0*	NEHTA	Document Review - not aligned with CDA R-MIM	30 June 2011
6	5.1.4	Encompassing En- counter	Removed Section	Removed EncompassingEncounter section as it wasn't required.	NEHTA	Document Review	30 June 2011
7	6.1	e-Referral	Changed RMIM Dia- gram	Added legalAuthenticator to RMIM diagram	NEHTA	Document Review	6 June 2011
8	6.1.1	Document Author	XML example changed	Added @use to example xml under wholeOrganization/name	NEHTA	Document Review - not aligned with mapping table	6 June 2011
9	6.1.1	Document Author	Cardinalities changed	Document Author > Participant > Entity Identifier Changed to 1* Document Author > Participant > Address Changed to 12 Document Author > Participant > Electronic Communication Detail Changed to 1* Document Author > Participant > Person or Organisation or Device > Person > Employer Organisation Changed to 0* Document Author > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Changed to 11	NEHTA	Document Review - not aligned with SCS	30 June 2011
10	6.1.1	Document Author	Mapping table changed	Removed reference to "Organisation Name Detail"	NEHTA	Document Review	2 June 2011
11	6.1.2	Subject of Care	XML Example changed	Code changed to 102.16279	NEHTA	Document Review - not aligned with mapping table	6 June 2011
12	6.1.2	Subject of Care	Cardinalities changed	Entityldentifier cardinality changed to 1* Address cardinality changed to 12 Date of Death cardinality changed to 11	NEHTA	Document Review - not aligned with SCS	1 July 2011
13	7.1.1	Referral Detail	Mapping table changed	Changed mapping for Referral Detail	NEHTA	Document Review - mapping wrong	6 June 2011
14	7.1.1	Referral Detail	Cardinalities changed	Changed Obligation from Optional to Essential	NEHTA	Document Review - not aligned with SCS	6 June 2011

ID	Document Ref.		Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
15	7.1.1	Referral Detail	Mapping table changed	Changed referral dateTime to entry/observation	NEHTA	Document Review	6 June 2011
16	7.1.1.1	Referee	Cardinalities changed	Referee > Participant > Entity Identifier Changed to 0* Referee > Participant > Address Changed to 12 Referee > Participant > Electronic Communication Detail Changed to 1* Referee > Participant > Person or Organisation or Device > Person > Employer Organisation Changed to 0*		Document Review - not aligned with SCS	6 June 2011
17	7.1.1.1	Referee	XML example changed	Added @use to example xml under wholeOrganization/name	NEHTA	Document Review - not aligned with mapping table	8 June 2011
18	7.1.1.2	Usual GP	Cardinalities changed	Usual GP Changed to 01 Usual GP > Participant > Entity Identifier Changed to 1* Usual GP > Participant > Address Changed to 0* Usual GP > Participant > Person or Organisation or Device > Person > Demo- graphic Data > Date of Birth Detail > Date of Birth Changed to 11 Usual GP > Participant > Person or Organisation or Device > Person > Employer Organisation Changed to 0*	NEHTA	Document Review - not aligned with SCS	30 June 2011
19	7.1.1.2	Usual GP	XML example changed	Added @use to example xml under wholeOrganization/name	NEHTA	Document Review - not aligned with mapping table	8 June 2011
20	7.1.2.1	Problem/Diagnosis	XML Example changed	Changed from using a NCTIS code to using a SNOMED code	NEHTA	Document Review - not aligned with mapping table	30 June 2011
21	7.1.2.1	Problem/Diagnosis	XML Example changed	Date of Resolution/Remission - removed id from xml example.	NEHTA	Document Review - not aligned with mapping table	30 June 2011
22	7.1.2.1	Problem Diagnosis	Mapping Table Changed	Changed SNOMED CT-AU Clinical finding foundation reference set to SNOMED CT-AU Problem/Diagnosis Reference Set	NEHTA	Document Review - not aligned with SCS	18 May 2011
23	7.1.2.2	Exclusion Statement - Problems and Dia- gnoses	XML example changed	Removed id from Exclusion Statement - Problem/Diagnoses in XML Example.	NEHTA	Document Review - not aligned with mapping table	17 May 2011
24	7.1.2.2	Exclusion Statement - Problems and Dia- gnoses	XML example changed	Changed code Exclusion Statement - Problem/Diagnoses in XML Example to 103.16302.2.2.1	NEHTA	Document Review - not aligned with mapping table	17 May 2011
25	7.1.2.4	Exclusion Statement - Procedures	Mapping table changed	entry[gbl_pro]/observation/typeCode="OBS" changed typeCode to classCode	NEHTA	Document Review - error	17 May 2011
26	7.1.2.4	Exclusion Statement - Procedures	XML example changed	Changed Exclusion Statement - Procedures > Global statement code to 103.16302.2.2.2	NEHTA	Document Review - not aligned with mapping table	30 June 2011
27	7.1.2.4	Exclusion Statement - Procedures	XML example changed	Removed id from XML example	NEHTA	Document Review - not aligned with mapping table	17 May 2011
28	7.1.2.4	Exclusion Statement - Procedures	Identification table changed	Changed id to 16603	NEHTA	Document Review - error	30 June 2011
29	7.1.2.5	Other Medical History Item	Mapping table changed	Added missing code	NEHTA	Document Review - error	30 June 2011
30	7.1.4.1	Adverse Substance Reaction	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Adverse Substance Reaction > Reaction Event cardin- ality changed to 11	NEHTA	Document Review - not aligned with SCS	3 June 2011
31	7.1.4.1	Adverse Substance Reaction	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Adverse Substance Reaction > Manifestation cardinality changed to 1.*	NEHTA	Document Review - not aligned with SCS	3 June 2011

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
32	7.1.4.1	Adverse Substance Reaction	XML Example changed	Changed code to 102.16473	NEHTA	Document Review - not aligned with mapping table	30 June 2011
33	7.1.4.1	Adverse Substance Reaction	XML Example changed	Removed playingEntity	NEHTA	Document Review - not aligned with mapping table	30 June 2011
34	7.1.4.1	Adverse Substance Reaction	Mapping table changed	@inversionIndicator moved to entry/act/entryRelationship[rct_evnt]/observation/entryRelationship[mfst]/@inversionInd="true"	NEHTA	Document Review - not aligned with CDA.	16 May 2011
35	7.1.4.2	Exclusion Statement - Adverse Substance Reactions	Mapping table changed	Added mapping for entry/[gbl_adv]/observation/id	NEHTA	Document Review - missing mapping	29 June 2011
36	7.1.4.2	Exclusion Statement - Adverse Substance Reactions	XML example changed	Changed value of code in example.	NEHTA	Document Review - invalid code used.	17 May 2011
37	7.1.2	Medical History	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Medical History cardinality changed to 11	NEHTA	Document Review - not aligned with SCS	3 June 2011
38	7.1.3	Medications	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Medications Cardinality changed to 11	NEHTA	Document Review - not aligned with SCS	3 June 2011
39	7.1.3.1	Medication Instruction	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Medication Instruction > Directions cardinality changed to 11	NEHTA	Document Review - not aligned with SCS	3 June 2011
40	7.1.5	Diagnostic Investiga- tions	XML Example changed	Added section/text to xml example.	NEHTA	Document Review - not aligned with mapping table	30 June 2011
41	7.1.5.1	Pathology Test Result	XML Example changed	Example rewritten	NEHTA	Document Review - not aligned with mapping table	30 June 2011
42	7.1.5.1	Pathology Test Result	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Pathology Test Result cardinality changed to 0*	NEHTA	Document Review - not aligned with SCS	3 June 2011
43	7.1.5.1	Pathology Test Result	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Pathology Test Result > Test Result Representation cardinality changed to 01	NEHTA	Document Review - not aligned with SCS	3 June 2011
44	7.1.5.1	Pathology Test Result	Constrained out	(Data hierarchy, relationship table, mapping table) Pathology Test Result > Test Request Details > Requester Order Identifier removed.	NEHTA	Document Review - not aligned with SCS	3 June 2011
45	7.1.5.1	Pathology Test Result	Constrained out	(Data hierarchy, relationship table, mapping table) Pathology Test Result > Test Request Details > Receiver Order Identifier removed.	NEHTA	Document Review - not aligned with SCS	3 June 2011
46	7.1.5.1.1	Test Specimen Detail	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review - not aligned with mapping table	30 June 2011
47	7.1.5.1.2	Pathology Test Result Group	Mapping table changed	Changed vocab to NS	NEHTA	Document Review	29 June 2011
48	7.1.5.1.2	Pathology Test Result Group	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review	29 June 2011
49	7.1.5.1.2.1	Result Group Speci- men Detail	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review	29 June 2011

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
50	7.1.5.1.2.1	Result Group Speci- men Detail	Cardinalities changed	Result Group Specimen Detail cardinality changed to 01	NEHTA	Document Review - not aligned with SCS	29 June 2011
51	7.1.5.2	Imaging Examination Result	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review	29 June 2011
52	7.1.5.2	Imaging Examination Result	Cardinalities changed	(Data hierarchy, relationship table, mapping table) Imaging Examination Result cardinality changed to 0*	NEHTA	Document Review - not aligned with SCS	3 June 2011
53	7.1.5.2	Imaging Examination Result	Mapping table changed	Changes to mappings	NEHTA	Document Review - not aligned with SCS	29 June 2011
54	7.1.5.2.1	Imaging Examination Result Group	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review - not aligned with SCS	29 June 2011
55	7.1.5.2.2	Examination Request Details	XML Example changed	Rewrote parts of XML Example	NEHTA	Document Review - not aligned with SCS	29 June 2011
56	7.1.5.2.2	Examination Request Details	Constrained out	(Data hierarchy, relationship table, mapping table) Receiver Order Identifier removed.	NEHTA	Document Review - not aligned with SCS	29 June 2011
57	8.1	Code	Added information	Added direction on how to use translations and alternate code systems.	Feedback from Implementation workshop	Needed clarification	30 June 2011
58	8.4	Entity Identifier	XML example changed	Removed Medicare Number example from Entity Identifier in Common patterns and replaced with IHI example.	NEHTA	Document Review - example wrong	28 June 2011
59	10.14	Vocabularies/Code Sets	Added section	Added NCTIS: Admin Codes Entitlement Type	NEHTA	Document Review - vocab missing	28 June 2011
60	n/a	Sections	Mapping table changed	Where the component relationship between a section and an entry had been explicitly stated, this has been removed - it is the default and does not need to be stated. entry/typeCode="COMP" changed to entry	NEHTA	Document Review - not aligned with example.	30 June 2011

Changes Version 1.1 05 July 2011 date to Version 1.1 09 September 2011

ID	Documen Section	t Ref. Section Name		Change Detail	Changed Instigated	Rationale For Change	Date Changed
					Ву		
1	5.1	ClinicalDocument	XML example up- dated	Fixed errors in XML example.	NEHTA	Document Review - not aligned with mapping table	9 September 2011
2	6.1	eReferral	Cardinalities changed	eReferral > DateTime Attested cardinality changed to 11	NEHTA	Document Review - Consistency across specifications.	9 September 2011
3	6.1.1	Document Author	Cardinalities changed	Document Author > Participation Period cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
4	6.1.1	Document Author	Cardinalities changed	Document Author > Address cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name	-		Instigated By		Changed
5	6.1.1	Document Author	Cardinalities changed	Document Author > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
6	6.1.1	Document Author	Cardinalities changed	Document Author > Participant > Person or Organisation or Device > Person > Employer Organisation > Organisation > Organisation Name Usage cardinality change to 01	NEHTA	Document Review - Consistency across specifications.	9 September 2011
7	6.1.1	Document Author	XML Example up- dated	Changed XML example of Document Author > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier.	NEHTA	Incorrect example of Entity Identifier.	9 September 2011
8	6.1.2	Subject Of Care	Cardinalities changed	Subject Of Care > Participant > Electronic Communication Detail change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
9	6.1.2	Subject Of Care	Cardinalities changed	Subject Of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Indigenous Status change to 11	NEHTA	Document Review - Consistency across specifications.	9 September 2011
10	6.1.2	Subject Of Care	Cardinalities changed	Subject Of Care > Participant > Address cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
11	6.1.2	Subject Of Care	XML Example up- dated	Changed XML example of Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail > Age to use datatype PQ.	NEHTA	Incorrect use of INT datatype.	9 September 2011
12	7.1.1	Referral Detail	Definition changed	Referral Detail > Referral Reason definition updated.	NEHTA	Document Review - Consistency across specifications.	9 September 2011
13	7.1.1	Referral Detail	Code and XML ex- ample updated.	Referral Detail > Referral DateTime @code changed to 103.16620.	NEHTA	Incorrect code used.	9 September 2011
14	7.1.1.1	Referee	Cardinalities changed	Referee > Participant > Electronic Communication Detail cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
15	7.1.1.1	Referee	Cardinalities changed	Referee > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
16	7.1.1.1	Document Author	XML Example up- dated	Changed XML example of Referree > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier.	NEHTA	Incorrect example of Entity Identifier.	9 September 2011
17	7.1.1.2	Usual GP	Cardinalities changed	Usual GP cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
18	7.1.1.2	Usual GP	Cardinalities changed	Usual GP > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier cardinality change to 1*	NEHTA	Document Review - Consistency across specifications.	9 September 2011
19	7.1.1.2	Usual GP	XML Example up- dated	Changed XML example of Usual GP > Participant > Person or Organisation or Device > Person > Employer Organisation > Entity Identifier.	NEHTA	Incorrect example of Entity Identifier.	9 September 2011
20	7.1.4	Adverse Substance Reaction	Cardinalities changed	Adverse Substance Reaction > Reaction Event > Manifestation cardinality change to 11	NEHTA	Document Review - Consistency across specifications.	9 September 2011
21	10.13	NCTIS: Admin Codes - Global Statement Values	New value added	Added "None Supplied".	NEHTA	Values supplied insufficient for re- quirements.	9 September 2011
22	N/A	N/A	id comment.	Comment updated to: "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"	NEHTA	Updated definition to better explain the use of id's.	9 September 2011

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

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
1	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
2	7.1.5.1	IMMUNISATIONS	Cardinality	Immunisations cardinality old spec: "Essential 1*" new spec: "Optional 0*"	NEHTA	Alignment of specifications	2 Dec 2012
3	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
4	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail cardinalityold spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
5	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing cardinalityold spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
6	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing > Collection DateTime cardinalityold spec: 0* new spec: 1*	NEHTA	Alignment of specifications	2 Dec 2012
7	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
8	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
)	7.1.6.3.1.1	Service Provider - Per- son	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
10	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
11	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
12	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
13	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]/ob- servation"	NEHTA	Alignment of specifications	2 Dec 2012
14	7.1.6.1.1	TEST SPECIMEN DE- TAIL	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
15	7.1.6.1.2	PATHOLOGY TEST RESULT GROUP	Context changed	Pathology Test Result Group Pathology Test Result Group Context was: ClinicalDocument/component/struc- turedBody/component[diag_inv]/section/component[path_test]/section/entryRelationship[res_gp]/organizer Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/compon- ent[path_test]/section/entry[path_test_res]/observation/entryRelationship[res_gp]/organizer	NEHTA	Alignment of specifications	2 Dec 2012
16	7.1.6.1.2.1	Result Group Speci- men Detail	Context changed	Result Group Specimen Detail Context was: ClinicalDocument/component/structuredBody/compon- ent[diag_inv]/section/component[path_test]/section/entryRelationship[res_gp]/organizer/component/obser- vation Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/compon- ent[path_test]/section/entry[path_test_res]/observation/entryRelationship[res_gp]/organizer/component/ob- servation	NEHTA	Alignment of specifications	2 Dec 2012
17	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

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name	-		Instigated By		Changed
18	7.1.6.2.1	IMAGING EXAMINA- TION RESULT GROUP	Context changed	Imaging Examination Result Group Context was: ClinicalDocument/component/structuredBody/compon- ent[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]/sec- tion/entry[img_exam_res]/observation/entryRelationship[im_res_gp]/organizer	NEHTA	Alignment of specifications	2 Dec 2012
19	7.1.6.2.2	EXAMINATION RE- QUEST DETAILS	Context changed	Examination Request Details Context was: ClinicalDocument/component/structuredBody/compon- ent[diag_inv]/section/component[im_exam]/section/entryRelationship[exam_req]/act Context now: Clinical- Document/component/structuredBody/component[diag_inv]/section/component[img_exam]/sec- tion/entry[img_exam_res]/observation/entryRelationship[exam_req]/act	NEHTA	Alignment of specifications	2 Dec 2012
20	7.1.6.3	Requested Service	Context changed	CDA Body Level 3 Data Elements Context was: ClinicalDocument/component/structuredBody/compon- ent[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
21	7.1.6.3.1.1	Service Provider - Per- son	Context changed	Service Provider (Person) Context was: ClinicalDocument/component/structuredBody/compon- ent[diag_inv]/section/component[req_serv]/section/entry[service]/act/performer Context now: ClinicalDocu- ment/component/structuredBody/component[diag_inv]/section/component[req_serv]/entry[service]/act/per- former	NEHTA	Alignment of specifications	2 Dec 2012
22	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/representedOrgan- isation (table entries plus xml fragment)	NEHTA	Alignment of specifications	2 Dec 2012
23	7.1.4.3	MEDICAL HISTORY	Element Removed	Medical History Item > Medical History Item Comment entry/act/entryRelationship/act/id: removed	NEHTA	Alignment of specifications	2 Dec 2012
24	7.1.6.3.1.1	Service Provider - Per- son	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
25	7.1.6.3.1.1	Service Provider - Per- son	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
26	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
27	7.1.4.3	MEDICAL HISTORY	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
28	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
29	7.1.6.1.1	TEST SPECIMEN DE- TAIL	Element Changed	Test Specimen Detail > Identifiers > Container Identifier Element entryRelationship[spec]/observation/spe- cimen/specimenRole/specimenPlayingEntity/ ext:asSpecimenInContainer/ext:container/id changed to entryRelationship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ ext:asSpecimenIn- Container/ext:container/ext:id	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/observa- tion/targetSiteCode/qualifier/value:CD now value ANY, ie component/observation/targetSiteCode/qualifi- er/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:container/ext:d	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name	-		Instigated By		Changed
32	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
33	7.1.6.2	IMAGING EXAMINA- TION RESULT	Element Changed	Imaging Examination Result > Examination Result Representation Element: entry[img_exam_res]/observa- tion/value:ED now text, ie entry[img_exam_res]/observation/text	NEHTA	Alignment of specifications	2 Dec 2012
34	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
35	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/quali- fier/value	NEHTA	Alignment of specifications	2 Dec 2012
36	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
37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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

ID	Documer	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
46	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
47	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
48	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
49	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
50	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
51	7.1.6.3.1.1	Service Provider - Per- son	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 09 September 2011 to Version 2.1 09 December 2011

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
1	5.1	ClinicalDocument	Cardinality change	legalAuthenticator old spec: Essential 11 new spec: optional 01	NEHTA	Alignment of specifications	2 Dec 2012
2	6.1.1	DOCUMENT AUTHOR	Cardinality	Document Author > Participation Period was 11 and now 01 This is a required CDA element so cannot be 01	NEHTA	Alignment of specifications	2 Dec 2012
3	6.1.1	DOCUMENT AUTHOR	Cardinality change	Document Author > Participation Period maps to author/time old spec: Essential 11 new spec: optional 01	NEHTA	Alignment of specifications	2 Dec 2012
4	6.1.1	DOCUMENT AUTHOR	Cardinality	Document Author > Participant > Person or Organisation or Device > Person > Person Name was 11 now 1*	NEHTA	Alignment of specifications	2 Dec 2012
5	6.1.2	SUBJECT OF CARE	Cardinality	Subject of Care > Participant > Person or Organisation or Device > Person > Person Name was 11 and now 1*	NEHTA	Alignment of specifications	2 Dec 2012
6	7.1.1.1.1	REFEREE - PERSON	Cardinality	Referee > Participant > Address was 12 now 1*	NEHTA	Alignment of specifications	2 Dec 2012
7	7.1.1.1.1	REFEREE - PERSON	Cardinality	Referee > Participant > <personname> was 11 now 1*</personname>	NEHTA	Alignment of specifications	2 Dec 2012
8	7.1.1.1.1	REFEREE - PERSON	Cardinality change	participant/associatedEntity/ <address> was 12 now 1*</address>	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
9	7.1.1.2.1	USUAL - GP - PER- SON	Cardinality	Usual GP - Person was Essential 1* now Optional 01	NEHTA	Alignment of specifications	2 Dec 2012
10	7.1.4.1	ADVERSE REACTION	Cardinality	Adverse Reaction > Reaction Event was 11 now 01	NEHTA	Alignment of specifications	2 Dec 2012
11	7.1.4.1	ADVERSE REACTION	Cardinality	Adverse Reaction > Reaction Event > Manifestation was 11 now 1*	NEHTA	Alignment of specifications	2 Dec 2012
12	7.1.5.1	PATHOLOGY TEST RESULT	Cardinality	Pathology Test Result > Test Result Representation was 0* now 01	NEHTA	Alignment of specifications	2 Dec 2012
13	7.1.5.1	PATHOLOGY TEST RESULT	Cardinality change	Pathology Test Result > Test Result Representation was 0* now 01 Only one full representation now allowed.	NEHTA	Alignment of specifications	2 Dec 2012
14	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Cardinality	TEST SPECIMEN DETAIL was 0* now 1*	NEHTA	Alignment of specifications	2 Dec 2012
15	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
16	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Cardinality	Test Specimen Detail > Handling and Processing > Collection DateTime was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
17	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Cardinality	Result Group Specimen Detail > Handling and Processing was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
18	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Cardinality	Result Group Specimen Detail > Handling and Processing > Collection DateTime was 01 now 11	NEHTA	Alignment of specifications	2 Dec 2012
19	7.1.2.3	OTHER MEDICAL HISTORY ITEM	Code Change	entry/act/code/@code change from "102.15513" to "102.166627" Reflects Data Group change.	NEHTA	Alignment of specifications	2 Dec 2012
20	7.1.3	MEDICATIONS	Code Change	Medications @code was 101.16022 chaged to 101.16146	NEHTA	Alignment of specifications	2 Dec 2012
21	7.1.3.2	EXCLUSION STATE- MENT - MEDICA- TIONS	Code Change	Medications @code was 103.16302.2.2.3 changed to 103.16302.2.2.1	NEHTA	Alignment of specifications	2 Dec 2012
22	7.1.3.2	EXCLUSION STATE- MENT - MEDICA- TIONS	Code Change	XML Fragment Medications @code was 103.16302 changed to 103.16302.2.2.1	NEHTA	Alignment of specifications	2 Dec 2012
23	7.1.4.1	ADVERSE REACTION	Code Change	Medications @code was 102.16473 changed to 102.15517 Reflects Data Group change.	NEHTA	Alignment of specifications	2 Dec 2012
24	7.1.4.2	EXCLUSION STATE- MENT - ADVERSE REACTIONS	Code Change	Global statement @code was 103.16302.2.2.4 changed to 103.16302.2.2.2	NEHTA	Alignment of specifications	2 Dec 2012
25	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Context Changed	"Test Specimen Detail Context was : ClinicalDocument/component/structuredBody/component[diag_inv]/sec- tion/entry[path_test_res]/observation/entryRelationship[spec]/observation Context now: ClinicalDocument/com- ponent/structuredBody/component[diag_inv]/section/component[path_test_res]/entry[path_test_res]/obser- vation/entryRelationship[spec]/observation"	NEHTA	Alignment of specifications	2 Dec 2012
26	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Context Changed	Result Group Specimen Detail Context was: ClinicalDocument/component/structuredBody/compon- ent[diag_inv]/section/component[path_test]/section/entry[path_test_res]/observation/entryRelation- ship[res_gp]/organizer/component/observation/entryRelationship[PathDiag]/observation/ Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/sec- tion/entry[path_test_res]/observation/entryRelationship[res_gp]/organizer/component/observation	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
27	7.1.5.2.1	IMAGING EXAMINA- TION RESULT GROUP	Context Changed	Imaging Examination Result Group Context was: ClinicalDocument/component/structuredBody/compon- ent[diag_inv]/section/entryRelationship/observation[im_exam_res]/entryRelationship[im_res_gp]/organizer Context now: ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[img_ex- am]/section/entry[img_exam_res]/observation/entryRelationship[im_res_gp]/organizer	NEHTA	Alignment of specifications	2 Dec 2012
28	6.1	e-Referral	New Element	e-Referral > DateTime Authored ClinicalDocument/author/time/@value added	NEHTA	Alignment of specifications	2 Dec 2012
29	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 defined as the common Pattern Employment and this removes the need for the previous requirement of assignedAuthor/representedOrganisation	NEHTA	Alignment of specifications	2 Dec 2012
30	7.1.1.1.2	REFEREE - ORGAN- ISATION	New	New Data Group defined Referree - Organisation	NEHTA	Alignment of specifications	2 Dec 2012
31	7.1.1.2.1	USUAL - GP - PER- SON	New	New Data Group defined USUAL GP - PERSON	NEHTA	Alignment of specifications	2 Dec 2012
32	7.1.1.2.1	USUAL - GP - PER- SON	New Element (com- mon Pattern Employ- ment added)	Usual GP > 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 assigned- Person instead of scopingOrganisation	NEHTA	Alignment of specifications	2 Dec 2012
33	7.1.1.2.2	USUAL - GP - ORGAN- ISATION	New	New Data Group defined USUAL GP - ORGANISATION	NEHTA	Alignment of specifications	2 Dec 2012
34	7.1.2.3	OTHER MEDICAL HISTORY ITEM	New	Other Medical History Item > Medical History Item Time Interval	NEHTA	Alignment of specifications	2 Dec 2012
35	7.1.2.3	OTHER MEDICAL HISTORY ITEM	New	Other Medical History Item > Medical History Item Comment	NEHTA	Alignment of specifications	2 Dec 2012
36	7.1.5	DIAGNOSTIC INVEST- IGATIONS	New	Requested service data element added	NEHTA	Alignment of specifications	2 Dec 2012
37	7.1.5.1.1	TEST SPECIMEN DE- TAIL	New Data Compon- ent	Test Specimen Detail > Anatomical Site > Anatomical Location Image added with Optionality 0*	NEHTA	Alignment of specifications	2 Dec 2012
38	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	New Data Compon- ent	Result Group SpecimenDetail > Anatomical Site > Anatomical Location Image added with Optionality 0*	NEHTA	Alignment of specifications	2 Dec 2012
39	7.1.5.3	REQUESTED SER- VICE	New Data Compon- ent	REQUESTED SERVICE added as Optional 01	NEHTA	Alignment of specifications	2 Dec 2012
40	6.1.1	DOCUMENT AUTHOR	Deleted	administrativeGenderCode and birthTime extension removed.	NEHTA	Alignment of specifications	2 Dec 2012
41	7.1.1.1.1	REFEREE - PERSON	Removed	administrativeGenderCode removed.	NEHTA	Alignment of specifications	2 Dec 2012
42	7.1.2.2	EXCLUSION STATE- MENT - PROBLEMS AND DIAGNOSES	Removed	Group Removed	NEHTA	Alignment of specifications	2 Dec 2012
43	7.1.2.4	EXCLUSION STATE- MENT - PROCED- URES	Removed	Group Removed	NEHTA	Alignment of specifications	2 Dec 2012
44	7.1.2.3	OTHER MEDICAL HISTORY ITEM	Removed	Other Medical History Item > DateTime Recorded now removed was 01	NEHTA	Alignment of specifications	2 Dec 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
45	7.1.5.1	PATHOLOGY TEST RESULT	Vocab Change	Pathology Test Result > Diagnostic Service mapped to entry[path_test_res]/observation/entryRelation- ship[diag_serv]/observation.entry[path_test_res]/observation/entryRelationship[diag_serv]/observa- tion/value:CD has Vocab change from NS (none Specified) to HL7 Diagnositc Service Values (table0074)	NEHTA	Alignment of specifications	2 Dec 2012
46	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Data Type change	Test Specimen Detail > Anatomical Site > Specific Location > Side Was: entry[spec]/observation/targetSite- Code/qualifier/value:CD Now: entryRelationship[spec]/observation/targetSiteCode/qualifier/value with CD removed for ANY.	NEHTA	Alignment of specifications	2 Dec 2012
47	7.1.5.2.1	IMAGING EXAMINA- TION RESULT GROUP	Data Type change	Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Reference Range Details Was : entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/value:PQ Now : entryRelationship[im_res_gp]/organizer/component[ind_im_res]/observation/referenceRange/observationRange/value:IVL_PQ	NEHTA	Alignment of specifications	2 Dec 2012
48	7.1.5.1	PATHOLOGY TEST RESULT	Element Mapping change.	Pathology Test Result > Test Request Details > Test Requested Name Was: entry[path_test_res]/observa- tion/entryRelationship[req_dets]/act/entryRelationship[req_name]/act/text Now: entry[path_test_res]/obser- vation/entryRelationship[req_dets]/act/entryRelationship[req_name]/observation/value:CD	NEHTA	Alignment of specifications	2 Dec 2012
49	7.1.5.1.1	TEST SPECIMEN DE- TAIL	Element Mapping change.	Test Specimen Detail > Handling and Processing > Collection Setting Old Spec: entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/text:ST New Spec: entryRelationship[spec]/observation/entryRelationship[coll_set]/observation/value:ST	NEHTA	Alignment of specifications	2 Dec 2012
50	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Element Mapping change.	Result Group Specimen Detail > Handling and Processing > Collection Setting Old Spec: component/ob- servation/entryRelationship[coll_set]/observation/text:ST New Spec: component/observation/entryRelation- ship[coll_set]/observation/value:ST	NEHTA	Alignment of specifications	2 Dec 2012
51	7.1.4.1	ADVERSE REACTION	XPATH Error	Error in Mapping with code defined in Path. Old Spec: entry/act/code/entryRelationship[rct_evnt]/ New Spec: entry/act/entryRelationship[rct_evnt]/ Error is repeated for @code/@codeSystem/@codeSystem-Name/@displayName	NEHTA	Alignment of specifications	2 Dec 2012
52	7.1.5.1.1	TEST SPECIMEN DE- TAIL	XML Element change	Test Specimen Detail > Identifiers > Container Identifier Was : entryRelationship[spec]/observation/speci- men/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/id Now : entryRela- tionship[spec]/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContain- er/ext:container/ext:id	NEHTA	Alignment of specifications	2 Dec 2012
53	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	XML Element change	Result Group Specimen Detail > Handling and Processing > DateTime Received Was : component/observation/entryRelationship[date_rec]/observation/effectiveTime Now : component/observation/entryRelation-ship[date_rec]/observation/value:TS	NEHTA	Alignment of specifications	2 Dec 2012
54	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	XML Element change	Result Group Specimen Detail > Identifiers > Container Identifier Was : component/observation/speci- men/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:container/id Now : compon- ent/observation/specimen/specimenRole/specimenPlayingEntity/ext:asSpecimenInContainer/ext:contain- er/ext:id	NEHTA	Alignment of specifications	2 Dec 2012
55	7.1.5.1.1	Test Specimen Detail	Corrected context path.	Path changed - From: "Context: ClinicalDocument/component/structuredBody/component[diag_inv]/sec- tion/entry[path_test_res]/observation" To: "Context: ClinicalDocument/component/structuredBody/component[diag_inv]/section/compon- ent[path_test_res]/entry[path_test_res]/observation/"	NEHTA	Document Feedback	27 September 2011
56	Throughout Document	Throughout Document	Participations Up- dated	Updated document to use Participation 3.2.	NEHTA	Updated SCS	14 November 2011

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
57	7.1.3	Medications	Code changed	Code updated to 101.16146	NEHTA	Bug	14 November 2011
58	N/A	N/A	Document Status	Updated to Final	NEHTA	Status Change	08 December 2011
59	N/A	N/A	Participation Map- ping Change	All participations that contain Employment details have been updated to include the CDA AU extension for Employment Details.	NEHTA	Corrected mapping	08 December 2011
60	N/A	Requested Service	New section added	Requested Service has been added - 7.1.5.3.	NEHTA	Updated SCS	08 December 2011
61	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Data type change.	Test Request Details changed from Text to Codeable Text with mapping changes to support this.	NEHTA	Updated SCS	08 December 2011
62	7.1.5.2.1	IMAGING EXAMINA- TION RESULT GROUP	Data type change.	Result Group Name changed from Coded Text to Codeable Text	NEHTA	Updated SCS	08 December 2011
63	7.1.5.2	IMAGING EXAMINA- TION RESULT GROUP	Data type change.	Result Name changed from Coded Text to Codeable Text	NEHTA	Updated SCS	08 December 2011
64	7.1.1.1, 7.1.1.2	REFEREE, USUAL GP	Mappings Changed	Mappings changed to allow for both Person and Organisation.	NEHTA	Updated SCS	08 December 2011
65	7.1.2.2, 7.1.2.4	EXCLUSION STATE- MENT - PROBLEM AND DIAGNOSIS, EXCLUSION STATE- MENT - PROCED- URES	Removed	Removed.	NEHTA	Updated SCS	08 December 2011
66	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	08 December 2011

Changes Version 2.1 09 December 2011 to Version 2.2 07 March 2012

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name	-		Instigated By		Changed
1	1.8	Conformance	Updated conform- ance statement	Updated the conformance statement from. This document describes how an e-RF SCS is implemented as a CDA document. Conformance can be claimed to this Implementation Guide, either with regard to instances of e-Referral CDA XML documents, or to systems that consume or produce e-Referral CDA XML documents. When a conformance claim is made, it is made against this document, i.e. 'e-Referral: CDA Implementation Guide v2.1'. to This document describes how a an e-Referral 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 con-	NEHTA	Document Feedback	07 March 2012
2	1.8	Conformance	Updated conform- ance statement	 formance profile must meet these base requirements. 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 e-Referral CDA documents may claim conformance if all the documents it produces are conformant to this guide. 	NEHTA	Document Feedback	07 March 2012
3	1.8	Conformance	Updated conform- ance 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
4	1.8	Conformance	Updated conform- ance 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
5	1.8	Conformance	Updated Conform- ance 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

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
6	1.8	Conformance	Updated conform- ance statement	Updated the conformance statement from.	NEHTA	Document Feedback	07 March 2012
			ance statement	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.			
7	1.8	Conformance	Updated conform- ance statement	Updated the conformance statement from.	NEHTA	Document Feedback	07 March 2012
				A system that consumes e-Referral CDA documents may claim conformance if it correctly processes con- formant 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 e-Referral 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 e-Referral CDA documents may claim conformance if it correctly processes con- formant 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 e-Referral 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).			
8	1.8	Conformance	Updated conform-	Added the following statements to the conformance section.	NEHTA	Document Feedback	07 March 2012
			ance statement	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			
9	1.9	Known Issues	Added Known Issue	Added known issue entry for 'Patient Nominated Contacts - Person > Relationship to Subject of Care' mapping.	NEHTA	Document Feedback	07 March 2012
10	1.9	Known Issues	Removed Known Is- sue	Removed the following Known Issue	NEHTA	Document Feedback	07 March 2012
				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?			

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
11	1.9	Known Issues	Removed Known Is- sue	Removed the following Known Issue	NEHTA	Document Feedback	07 March 2012
			sue	Entity Identifier			
				Conformance statements in the comments column need to be verified.			
12	1.9	Known Issues	Added Known Issue	Added the following Known Issue	NEHTA	Document Feedback	07 March 2012
				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.			
13	10.17	METeOR 291036: Indi- genous Status	Updated CodeSys- tem	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
14	2.3	3 CDA Extensions	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
			numbers	Changed the future CDA extension namespace version number reference from 2.0 to 4.0			
15	3	e-Referral	Updated Data Hier- archy	Updated datatype of	NEHTA	Document Feedback	07 March 2012
			u.o.ry	1) DIAGNOSTIC INVESTIGATIONS > PATHOLOGY TEST RESULT > Result Group (PATHOLOGY TEST RESULT GROUP) > Result Group Name (Pathology Test Result Group Name)			
				2) DIAGNOSTIC INVESTIGATIONS > PATHOLOGY TEST RESULT > Result Group (PATHOLOGY TEST RESULT GROUP) > Result (INDIVIDUAL PATHOLOGY TEST RESULT) > Result Name (Individual Pathology Test Result Name)			
				3) DIAGNOSTIC INVESTIGATIONS > IMAGING EXAMINATION RESULT > Result Group (IMAGING EX- AMINATION RESULT GROUP) > Result Group Name (Imaging Examination Result Group Name)			
				4) DIAGNOSTIC INVESTIGATIONS > IMAGING EXAMINATION RESULT > Result Group (IMAGING EX- AMINATION RESULT GROUP) > Result (INDIVIDUAL IMAGING EXAMINATION RESULT) > Result Name (Individual Imaging Examination Result Name)			
				from			
				CodedText			
				to			
				CodeableText			
16	3	e-Referral	Updated Data Hier- archy	Added PATIENT NOMINATED CONTACTS and DateTime Attested to the Data Hierarchy table.	NEHTA	Document Feedback	07 March 2012
17	5.1	ClinicalDocument	Updated mapping and XML example	Updated mapping and XML example from:	NEHTA	Document Feedback	21 February 2012
				templateId/@extension="2.1"			2012
				to:			
				templateId/@extension="2.2"			

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
18	5.1	ClinicalDocument	Updated Mapping and XML example	Changed templateId/@root and XML example from.	NEHTA	Document Feedback	07 March 2012
			fragment	1.2.36.1.2001.1001.101.100.21000			
				to			
				1.2.36.1.2001.1001.101.100.1002.2			
19	5.1	ClinicalDocument	Updated Mapping table	Changed templateId/@root 'Comments' column from.	NEHTA	Document Feedback	07 March 2012
				The healthcare context-specific name of the published Structured Content Specification.			
				to			
				The healthcare context-specific name of the published eReferral CDA Implementation Guide.			
20	5.1	ClinicalDocument	Updated Cardinality and comment	Changed ClinicalDocument/templateld cardinality from 11 to 1* in the mapping table.	NEHTA	Document Feedback	07 March 2012
				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.				
21	5.1.1	LegalAuthenticator	Updated Mapping reference	Changed all occurrences of 'LegalAuthenticator' in the mapping table to 'legalAuthenticator'.	NEHTA	Document Feedback	07 March 2012
22	6.1	e-Referral	Updated Relation- ships table	Added 'Patient Nominated Contact' mapping to the relationships table.	NEHTA	Document Feedback	07 March 2012
23	6.1	e-Referral	Updated mapping table	Added 'Patient Nominated Contact' mapping to the mapping table.	NEHTA	Document Feedback	07 March 2012
24	6.1.1	DOCUMENT AU- THOR	Updated Mapping table	Added 'See common pattern:Entity Identifier' to the 'Document Author > Participant > Entity Identifier' Comments column.	NEHTA	Document Feedback	07 March 2012
25	6.1.2	SUBJECT OF CARE	Updated R-MIM rep- resentation	Added 01 as cardinality for assignedGeographicArea association	NEHTA	Document Feedback	07 March 2012
26	6.1.3	PATIENT'S NOMIN- ATED CONTACTS	Added section and XML example	Added PATIENT'S NOMINATED CONTACTS section with mapping table, R-MIM representation and XML example.	NEHTA	Document Feedback	07 March 2012
27	7.1.1	REFERRAL DETAIL	Updated definition	Updated Referral Detail definition from	NEHTA	Document Feedback	07 March 2012
				Specific information about the clinical referral.			
				to			
				This section captures detailed information about the clinical referral			
28	7.1.1	REFERRAL DETAIL	Updated relationship table	Changed Usual GP Obligation in the relationships table from 'Essential' to 'Optional'.	NEHTA	Document Feedback	07 March 2012

ID	Documer	nt Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name	•		Instigated By		Changed
29	7.1.1.1.1	REFEREE - PERSON	Fixed typo	Changed 'Context: ClincalDocument' to 'Context: ClinicalDocument'.	NEHTA	Document Feedback	07 March 2012
30	7.1.1.1.1	REFEREE - 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
31	7.1.1.1.2	REFEREE - ORGAN- ISATION	Updated XML ex- ample fragment	Added asOrganizationPartOf/wholeOrganization elements to the XML example.	NEHTA	Document Feedback	10 February 2012
32	7.1.1.1.2	REFEREE - ORGAN- ISATION	Updated XML ex- ample fragment	Added asOrganizationPartOf/wholeOrganization/name element to the XML example.	NEHTA	Document Feedback	10 February 2012
33	7.1.1.1.2	REFEREE - ORGAN- ISATION	Updated mapping	Updated mapping from: participant/associatedEntity/participant/associatedEntity/@classCode to: participant/associatedEntity/@classCode	NEHTA	Document Feedback	07 March 2012
34	7.1.1.1.2	REFEREE - ORGAN- ISATION	Added Mapping and XML example	Added mapping and XML example for Organisation Name Usage Mapping: participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganiza- tion/name/@use	NEHTA	Document Feedback	07 March 2012
35	7.1.1.1.2	REFEREE - ORGAN- ISATION	Fixed typo	Changed 'Context: ClincalDocument' to 'Context: ClinicalDocument'.	NEHTA	Document Feedback	07 March 2012
36	7.1.1.1.2	REFEREE - ORGAN- ISATION	Updated SCS Data Component Name	Updated Usual GP SCS Data Component Name from Prescriber Organisation > Participant > Person or Organisation or Device > Organisation > Department/Unit to Referee > Participant > Person or Organisation or Device > Organisation > Department/Unit	NEHTA	Document Feedback	07 March 2012
37	7.1.1.1.2	REFEREE - ORGAN- ISATION	Fixed typo	Changed text in the CDA R-MIM Representation paragraph from. Figure 7.6, "Usual GP" shows a subset of the CDA R-MIM to Figure 7.4, "Referee" shows a subset of the CDA R-MIM	NEHTA	Document Feedback	07 March 2012
38	7.1.1.2.1	USUAL GP - PER- SON	Updated mapping	Changed Address, Electronic Communication Detail cardinality from 1* to 0*	NEHTA	Document Feedback	07 March 2012
39	7.1.1.2.1	USUAL GP - PER- SON	Updated mapping	Changed Employment Detail cardinality from 01 to 11	NEHTA	Document Feedback	07 March 2012
40	7.1.1.2.1	USUAL GP - PER- SON	Updated mapping	Added mapping for participant/associatedEntity/id to the mapping table.	NEHTA	Document Feedback	07 March 2012
41	7.1.1.2.1	USUAL GP - PER- SON	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
42	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated XML ex- ample fragment	Added missing asOrganizationPartOf/wholeOrganization elements to the XML example.	NEHTA	Document Feedback	10 February 2012

ID	Documer	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
43	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated XML ex- ample fragment	Added asOrganizationPartOf/wholeOrganization/name element to the XML example.	NEHTA	Document Feedback	10 February 2012
44	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Fixed typo	Changed 'Context: ClincalDocument' to 'Context: ClinicalDocument'.	NEHTA	Document Feedback	07 March 2012
45	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated mapping	Updated mapping from: participant/functionCode="PCP" to: participant/functionCode/@code="PCP"	NEHTA	Document Feedback	07 March 2012
46	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated mapping	Updated mapping from: participant/associatedEntity/participant/associatedEntity/@classCode to: participant/associatedEntity/@classCode	NEHTA	Document Feedback	07 March 2012
47	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated mapping	Changed Address, Electronic Communication Detail cardinality from 1* to 0*	NEHTA	Document Feedback	07 March 2012
48	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Updated SCS Data Component Name	Updated Usual GP SCS Data Component Name from Prescriber Organisation > Participant > Person or Organisation or Device > Organisation > Department/Unit to Usual GP > Participant > Person or Organisation or Device > Organisation > Department/Unit	NEHTA	Document Feedback	07 March 2012
49	7.1.1.2.2	USUAL GP - ORGAN- ISATION	Added Mapping and XML example	Added mapping and XML example for Organisation Name Usage Mapping: participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganiza- tion/name/@use	NEHTA	Document Feedback	07 March 2012
50	7.1.2.3	OTHER MEDICAL HISTORY ITEM	Updated XML ex- ample fragment	Removed /entry/act/entryRelationship/act/id element from the XML example.	NEHTA	Document Feedback	10 February 2012
51	7.1.2.3	OTHER MEDICAL HISTORY ITEM	Updated XML ex- ample	Updated displayName from: Medical History Item to: Other Medical History Item	NEHTA	Document Feedback	07 March 2012
52	7.1.2.3	OTHER MEDICAL HISTORY ITEM	Updated XML ex- ample	Updated displayName from: Medical History Comment to: Medical History Item Comment	NEHTA	Document Feedback	07 March 2012

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
53	7.1.3.1	MEDICATION IN- STRUCTION	Updated mapping	Removed the reference sets for prescribing and administering contexts.	NEHTA	Document Feedback	07 March 2012
		STRUCTION		Removed:			
				929360081000036101 Medicinal product pack reference set			
				929360071000036103 Medicinal product unit of use reference set			
				929360041000036105 Trade product pack reference set			
				929360031000036100 Trade product unit of use reference set			
				929360051000036108 Containered trade product pack reference set			
54	7.1.4.1	ADVERSE REAC- TION	Updated Mapping	Replaced all occurrences of 'entry/act/code/entryRelationship[rct_evnt]/observation/' to 'entry/act/entryRe- lationship[rct_evnt]/observation/code/'.	NEHTA	Document Feedback	10 February 2012
55	7.1.5	DIAGNOSTIC IN- VESTIGATIONS	Updated XML ex- ample fragment	Removed <text> element from the XML example.</text>	NEHTA	Document Feedback	10 February 2012
56	7.1.5	DIAGNOSTIC IN- VESTIGATIONS	Updated R-MIM Representation	Removed text attribute from the R-MIM Section class.	NEHTA	Document Feedback	10 February 2012
57	7.1.5.1	PATHOLOGY TEST RESULT	Updated XML ex-	Updated codeSystem value in 'Overall Pathology Test Result Status' XML example from .	NEHTA	Document Feedback	07 March 2012
		RESULT ample	codeSystem="1.2.36.2001.1001.104.16501"				
				to			
				codeSystem="1.2.36.1.2001.1001.101.104.16501"			
58	7.1.5.1.1	TEST SPECIMEN DETAIL	Updated XML ex- ample	Removed two occurrences of xsi:type="ED" attribute from observationMedia/value data elements.	NEHTA	Document Feedback	07 March 2012
59	7.1.5.1.1	TEST SPECIMEN DETAIL	Updated XML ex- ample	Updated code from:	NEHTA	Document Feedback	07 March 2012
		DETAIL	ampie	102.16156.132.1.1			
				to:			
				102.16156.2.2.1			
60	7.1.5.1.1	TEST SPECIMEN DETAIL	Updated XML ex- ample fragment	Changed id to ext:id in the 'Test Specimen Detail > Identifiers > Container Identifier' XML example.	NEHTA	Document Feedback	10 February 2012
61	7.1.5.1.1	TEST SPECIMEN	Updated context.	Updated context from:	NEHTA	Document Feedback	10 February 2012
		DETAIL	DETAIL	ClinicalDocument/component/structuredBody/component[diag_inv]/section/compon- ent[path_test_res]/entry[path_test_res]/observation/entryRelationship[spec]/observation			2012
				to:			
				ClinicalDocument/component/structuredBody/component[diag_inv]/section/component[path_test]/section/entry[path_test_res]/observation/entryRelationship[spec]/observation			

ID	Documen	t Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
62	7.1.5.1.2	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>			
63	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL	Updated XML ex- ample	Removed xsi:type="ED" attribute from 'Anatomical Location Image' observationMedia/value data element.	NEHTA	Document Feedback	07 March 2012
64	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL; Result Group Speci- men Detail > Handling and Processing > DateTime Received	Updated XML ex- ample	Removed effectiveTime elements from the XML example.	NEHTA	Document Feedback	07 March 2012
65	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL; Result Group Speci- men Detail > Handling and Processing > DateTime Received	Updated XML ex- ample	Updated displayName from displayName="Date and Time of Receipt" to displayName="DateTime Received"	NEHTA	Document Feedback	07 March 2012
66	7.1.5.1.2.1	RESULT GROUP SPECIMEN DETAIL; Result Group Speci- men Detail > Handling and Processing > DateTime Received	Updated XML ex- ample	Added value:TS element to the XML example	NEHTA	Document Feedback	07 March 2012
67	7.1.5.2.1	IMAGING EXAMINA- TION RESULT GROUP	Updated XML ex- ample	Updated 'Imaging Examination Result Group > Individual Imaging Examination Result > Imaging Examination Result Value Normal Status' XML fragment from. <interpretationcode code="N" codesystem="2.16.840.1.113883.1.11.10206" codesystemname="HL7 ObservationInterpretationNor-
mality" displayname="Normal"></interpretationcode> to <interpretationcode code="N" codesystem="2.16.840.1.113883.5.83" codesystemname="HL7 ObservationInterpretationNor-
mality" displayname="Normal"></interpretationcode>	NEHTA	Document Feedback	07 March 2012

ID	Documer	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
68	7.1.5.2.2	EXAMINATION RE- QUEST DETAILS	Updated mapping	Updated 5 occurrences of Examination Request Details > Image Details > DICOM Series Identifier mapping from	NEHTA	Document Feedback	07 March 2012
				entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/entryRelationship[dicom_ser]/observation/			
				to			
				entryRelationship[exam_req]/act/entryRelationship[exam_perf]/act/entryRelationship[img_det]/observa- tion/entryRelationship[dicom_ser]/act/			
69	7.1.5.2.2	EXAMINATION RE- QUEST DETAILS	Updated XML ex- ample fragment	Removed /entryRelationship[exam_req]/act/id element from the XML example.	NEHTA	Document Feedback	10 February 2012
70	7.1.5.3.1.1	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
71	8.4	Entity Identifier	Updated cardinality	Updated card 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.			
72	8.7	Electronic Communic- ation 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:TelecommunicationAd- dressUse.			
				to			
				HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAddressUse.			
73	8.7	Electronic Communic- ation 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.			
74	8.8	Employment	Added Mapping	Added ext:asEmployment/@classCode mapping to the mapping table.	NEHTA	Document Feedback	07 March 2012
75	8.8	Employment	Added Mapping and XML example	Added mapping and XML examples for @ClassCode,ext:jobClassCode, ext:jobCode and ext:code elements.	NEHTA	Document Feedback	07 March 2012
				Added the 'Note' text above the Employment Mapping table.			
76	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*'.			

ID	Documen	it Ref.	Change Type	Change Detail	Changed	Rationale For Change	Date
	Section	Section Name			Instigated By		Changed
77	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*'.			
78	8.8	Employment	Updated Mapping	Changed employerOrganization to ext:employerOrganization in the mapping table.	NEHTA	Document Feedback	07 March 2012
79	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.			
80	8.8	Employment	Updated cardinality	Changed cardinality for 'Employment Detail > Employer Organisation' from '1*' to'0*'	NEHTA	Document Feedback	07 March 2012
81	Appendix A CDA N	ndix A CDA Narratives	A Narratives Updated Conform- ance points	Changed the following conformance point from.	NEHTA	Document Feedback	07 March 2012
				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.			
82	Appendix A	CDA Narratives	Updated Conform- ance 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
83	Page ii	Copyright	Updated Copyright year	Changed year from '2011' to '2012'.	NEHTA	Document Feedback	07 March 2012

Reference List

- [ABS2006] Australian Bureau Of Statistics, September 2006, 1220.0 ANZSCO Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 METeOR 350899, accessed 15 March 2010. http://www.abs.gov.au/ausstats/abs@.nsf/mf/1220.0
- [ABS2008] Australian Bureau Of Statistics, May 2008, Standard Australian Classification of Countries (SACC) Cat. No. 1269, accessed 15 March 2010. <u>http://www.abs.gov.au/ausstats/abs@.nsf/mf/1269.0</u>
- [AIHW2005] Australian Institute of Health and Welfare, March 2005, *AIHW Mode of Separation*, accessed 15 March 2010.

http://meteor.aihw.gov.au/content/index.phtml/itemId/270094

- [HL7CDAR2] Health Level Seven, Inc., January 2010, *HL7 Clinical Document Architecture*, Release 2, accessed 18 November 2010. http://www.hl7.org/implement/standards/cda.cfm
- [HL7RIM] Health Level Seven, Inc., January 2010, *HL7 Version 3 Standard Reference Information Model*, accessed 15 March 2010. http://www.hl7.org/v3ballot/html/infrastructure/rim/rim.htm
- [HL7V3] Health Level Seven, Inc., January 2010, *HL7 Version 3 Standard*, accessed 15 March 2010. <u>http://www.hl7.org/v3ballot/html/welcome/environment/index.htm</u>
- [HL7V3DT] Health Level Seven, Inc., January 2010, *HL7 V3 RIM, Data types and Vocabulary*, accessed 18 November 2009. http://www.hl7.org/memonly/downloads/v3edition.cfm
- [IHTS2009] International Health Terminology Standards Development Organisation, January 2010, SNOMED-CT, accessed 15 March 2010. http://www.ihtsdo.org/snomed-ct
- [INFO2009] Canada Health Infoway, CDA Validation Tools: infoway_release_2_2X_18.zip, accessed 18 November 2009. http://www.hl7.org/memonly/downloads/v3edition.cfm
- [ISO21090-2008] International Organization for Standardization, *ISO 21090:2008 Health Informatics Harmonized data types for information interchange*, Edition 1 (Monolingual), accessed 09 November 2009. <u>http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=35646</u>
- [ISO8601-2004] International Organization for Standardization, 18 March 2008, *ISO 8601:2004 Data elements and interchange formats - Information interchange - Representation of dates and times*, Edition 3 (Monolingual), accessed 09 November 2009. <u>http://www.iso.org/iso/iso catalogue/catalogue tc/catalogue detail.htm?csnumber=40874</u>
- [NEHT2005a] National E-Health Transition Authority, 25 May 2005, NEHTA Acronyms, Abbreviations & Glossary of Terms, Version 1.2, accessed 09 November 2009. http://www.nehta.gov.au/component/docman/doc_download/8-clinical-information-glossary-v12
- [NEHT2007b] National E-Health Transition Authority, 24 September 2007, *Interoperability Framework*, Version 2.0. <u>http://www.nehta.gov.au/connecting-australia/ehealth-interoperability</u>
- [NEHT2010a] National E-Health Transition Authority, February 2010, *Australian Medicines Terminology*, accessed 15 March 2010. <u>http://www.nehta.gov.au/connecting-australia/clinical-terminologies/australian-medicines-terminology</u>
- [NEHT2010c] National E-Health Transition Authority, September 2010, *Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification*, Version 1.0, accessed 13 September 2010. http://www.nehta.gov.au/component/docman/doc_download/1121-data-types-in-nehta-specifications-v10
- [NEHT2010d] National E-Health Transition Authority, September 2010, *Data Specifications and Structured Document Templates Guide for Use*, Version 1.1, accessed 13 September 2010.

	<u>http://www.nehta.gov.au/component/docman/doc_download/1120-data-specifications-and-structured-document-templates-guide-for-use-v11</u>
[NEHT2011bj]	National E-Health Transition Authority, 09 December 2011, <i>e-Referral Structured Content Specification</i> , Version 2.1.
[NEHT2011v]	National E-Health Transition Authority, 20 July 2011, <i>Participation Data Specification</i> , Version 3.2, accessed 22 July 2011. <u>http://www.nehta.gov.au/component/docman/doc_download/1341-participation-data-specification-v32</u>
[RFC2119]	Network Working Group, 1997, <i>RFC2119 - Key words for use in RFCs to Indicate Requirement Levels</i> , accessed 13 April 2010. <u>http://www.faqs.org/rfcs/rfc2119.html</u>
[RFC3066]	Network Working Group, 2001, <i>RFC3066 - Tags for the Identification of Languages</i> , accessed 13 April 2010. http://www.ietf.org/rfc/rfc3066.txt
[RING2009]	Ringholm, 2009, CDA Examples, accessed 15 March 2010. http://www.ringholm.de/download/CDA_R2_examples.zip
[SA2006a]	Standards Australia, 2006, <i>AS 4846 (2006) – Healthcare Provider Identification</i> , accessed 12 November 2009. <u>http://infostore.saiglobal.com/store/Details.aspx?ProductID=318554</u>
[SA2006b]	Standards Australia, 2006, <i>AS 5017 (2006) – Healthcare Client Identification</i> , accessed 12 November 2009. http://infostore.saiglobal.com/store/Details.aspx?ProductID=320426
[SA2007a]	Standards Australia, 2007, AS 4700.6 (2007) – Implementation of Health Level 7 (HL7) Version 2.5 – Part 6: Referral, discharge and health record messaging. <u>http://www.saiglobal.com/online/</u>