



**Pathology Result Report
CDA Implementation Guide
Version 1.0**

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1 Introduction

1.1 Document Purpose and Scope

This document provides a guide to implementing the 'logical' model detailed by NEHTA's Pathology Result Report (PRR) Structured Content Specification (SCS) as an HL7 Clinical Document Architecture Release 2 (CDA) XML document. This implementation guide is based on Version 1.0 of the PRR SCS [NEHT2013u]. The primary aim of the implementation guide is to take implementers step by step through mapping each data component of the PRR SCS to a corresponding CDA attribute or element.

The implementation 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 PRR. The resulting CDA document can be used for the electronic exchange of PRR information between healthcare providers.

In addition, this implementation 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 <clinicalinformation@nehta.gov.au>.

1.2 Pathology Result Report Definition

Pathology Result Report is defined in the PRR SCS [NEHT2013u] as:

A set of one or more results of pathology tests and associated interpretation.

1.3 HL7 Clinical Document Architecture

The CDA is a document markup standard that specifies the structure and semantics of 'clinical documents' for the purpose of supporting interoperable exchange and use 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®.¹

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

- It supports legal attestation by the clinician (requiring that a document has been signed manually or electronically by the responsible individual).
- 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).

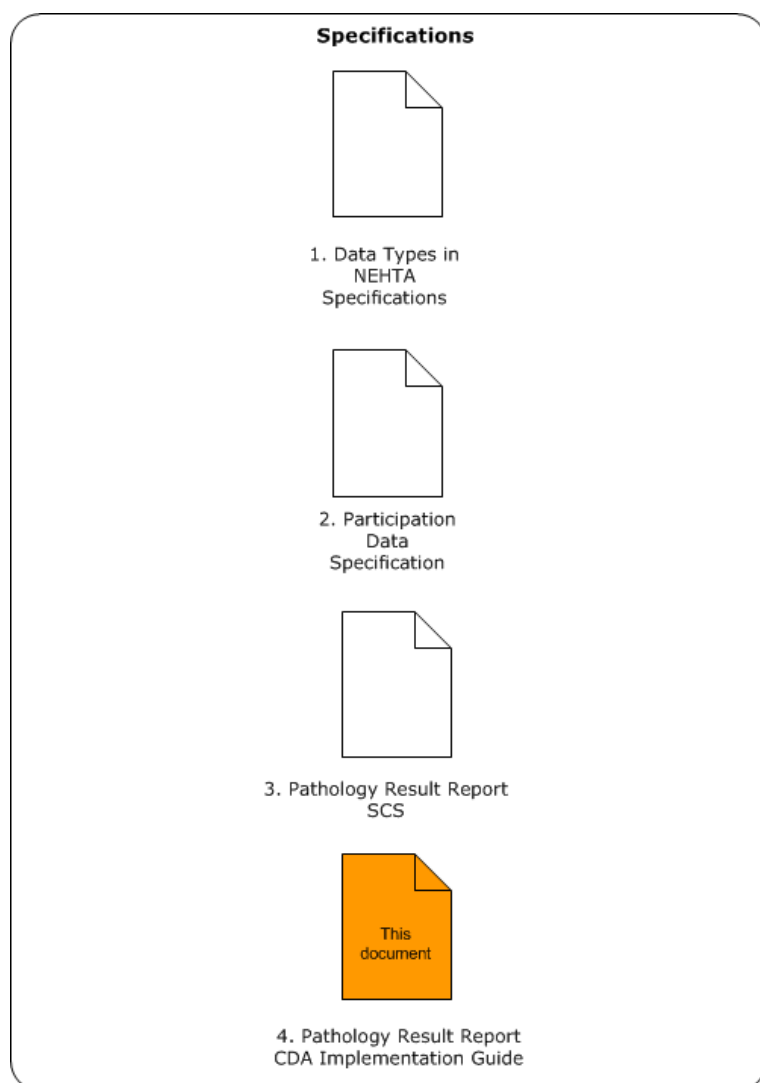
1.4 Intended Audience

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 IT-014 documents. 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 [\[NEHT2010c\]](#) is 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. Pathology Result Report – Structured Content Specification [\[NEHT2013u\]](#) is a clinical content specification describing the logical data structures, data components, and value domains which constitute a Pathology Result Report.

1.6 Acronyms

CDA	Clinical Document Architecture
HL7	Health Level Seven
PAI-D	PCEHR Assigned Identity - Device
PAI-O	PCEHR Assigned Identity - Organisation
PAI-R	PCEHR Assigned Identity - Repository
PRR	Pathology Result Report
RCPA	Royal College of Pathologists of Australasia
RIM	Reference Information Model

SCS	Structured Content Specification
UUID	Universally Unique Identifier
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 & Glossary of Terms \[NEHT2005a\]](#).

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 [RFC2119 - Key words for use in RFCs to Indicate Requirement Levels \[RFC2119\]](#).

Keywords used in this document

Keyword	Interpretation
SHALL	This word, or the term REQUIRED , means that the statement is an absolute requirement of the specification.
SHOULD	This word, or the term 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 term 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 means that the statement is an absolute prohibition of the specification.
SHOULD NOT	This phrase, or the phrase NOT RECOMMENDED means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

1.8 Conformance

This document describes how the Pathology Result Report 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 **SHALL** 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** be valid against the Australian CDA Schema that accompanies this implementation guide after any additional extension not in the NEHTA extension namespace have been removed, along with any other CDA content not described by this implementation guide.

- It **SHALL** use the mappings as they are stated in this document.
- It **SHALL** use all fixed values specified in the mappings (e.g. @attribute="FIXED_VALUE").
- If the vocabulary has been explicitly stated as 'NS' it **SHALL** 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 [HL7 code set registration procedure](#)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 normative use of the word 'shall' identified by the term presented in uppercase and bold typeface).
- The narrative **SHALL** conform to the requirements described in this implementation guide.
- The document **SHALL** conform to the requirements specified in the CDA Rendering Specification [\[NEHT2012s\]](#).
- 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 implementation 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* Pathology Result Report 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 Pathology Result Report 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 [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 section divisions optional.

1.9 Known Issues

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

Reference	Description
Pathology Result Report CDA-IG	This document version of the CDA-IG is based on the SCS document version 017.
Throughout document: XML Examples	While every effort has been taken to ensure that the examples are consistent with the normative mappings in this message specification, care needs to be taken when copying XML examples for implementation and validation.

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

Reference	Description
Throughout document: R-MIMs	While every effort has been taken to ensure that the R-MIM diagrams are consistent with the normative mappings in this message specification, there may be a few discrepancies between R-MIM diagrams and CDA mapping tables. The CDA mapping shall take precedence when such discrepancies are uncovered.
Throughout document: Participation types	The participation types in the OID register are not exhaustive, hence the absence of a participation type is not an error.
6.1.4 REQUESTER	The mapping for the Requester of the report does not follow the data hierarchy as specified in the SCS because CDA does not allow (without extensions) participations on Order in the header.
7.1.1.2 REPORTING PATHOLOGIST	The mapping for the Reporting Pathologist does not follow the data hierarchy as specified in the SCS because CDA does not cater well for this type of participant in the header. Also, the Reporting Pathologist is not the authenticator of the Authority to Post which would be implied if the Reporting Pathologist was in the header.
7.1.2.2 AUTHORISEE: Conforms to new schema	The new CDA XML Schema to be deployed makes use of an Australian extension beneath <scopingEntity> where <asOrganizationPartOf> requires the 'ext:' nameSpace to be used. The guidance in this implementation guide (including mapping table and xml fragment) conforms to the new schema not the schema current at the time of publication.
Log of Changes: Not present	Maintenance of the documented log of changes (typically included as Appendix B. Log of Changes) was dropped due to the frequency of revisions; as such this appendix has been omitted.

2 Guide for Use

This document describes how to properly implement the Australian PRR SCS as a conformant HL7 CDA XML document. The Pathology Result Report specification is contained in two publications:

- 1) A *Structured Content Specification* (SCS), which, in conjunction with its related documents (see [Document Map](#)), describes the Pathology Result Report 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 a Pathology Result Report 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 PRR SCS and the HL7 CDA documentation, and understand 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 **SHALL** 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 **SHALL** be able to stand alone as a source of authenticated information for consuming parties. Content from the CDA body **SHALL NOT** 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 implementation guide is a mapping from the PRR 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 implementation guide is illustrated below:

x.x ITEM NAME

Identification (normative)

Name	ITEM NAME
Metadata type	Metadata type e.g. Section, Data Group or Data Element

Relationships (normative)

Children

Data Type	Name	Occurrence
Icon illustrating the Metadata or Data type.	<div>ITEM NAME</div> <div>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.</div>	The number of instances of this child item that may occur.

Parent

Data Type	Name	Occurrences (child within parent)
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 child item within the parent 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.

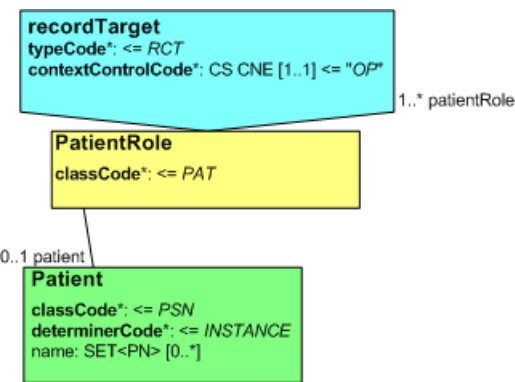


Figure 2.1. Example - Header Part

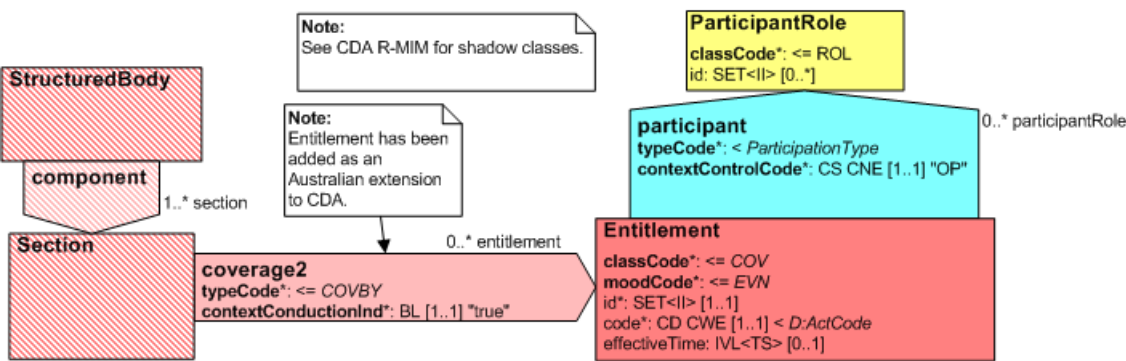


Figure 2.2. Example - Body Part

CDA Mapping (normative)

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Element Type (Header, Body Level 2 etc.)			Context: Parent of elements below		
<p>The path in the SCS.</p> <p>Each section in this document corresponds to an SCS section or data group, and is scoped by that section or data group. The hierarchical path uses ">" as a separator for paths within the SCS data hierarchy.</p> <p>If there is a name in round brackets after the path, this is the name of the reused data group for the SCS component.</p> <p>The data component in bold text (the last in the path) is the data component for this row.</p> <p>i.e. Parent Data Component > Child Data Component</p>	<p>The definition of the item from the SCS.</p>	<p>The cardinality of the data element in the SCS.</p> <p>The cardinality of the data element in the SCS maps to the cardinality of the element in the CDA document.</p> <p>Where the cardinality of the SCS data element is more constrained than the cardinality of the CDA element then the SCS cardinality takes precedence. i.e. if an element is mandatory in the SCS and optional in CDA then it will also become mandatory in the CDA document.</p> <p>If an item with a maximum cardinality > 1 maps to an xml attribute, the attribute will contain multiple values separated by spaces. No such item will have valid values that themselves contain spaces.</p>	<p>The schema element(s) in the CDA document that correspond(s) to the SCS data component.</p> <p>The syntax for this is similar to XPath:</p> <pre>{/name[{index}]}n{/<pattern>}</pre> <p>Where:</p> <ul style="list-style-type: none"> { } indicates optional {n means a section that may repeat <pattern> contains a link to a common pattern [index] differentiates two similar mappings <p>Examples:</p> <ol style="list-style-type: none"> component/act/participation[inf_prov]/role/<Address> participant participant/@typeCode="ORG" participant/associatedEntity participant/associatedEntity/@classCode="SDLOC" participant/associatedEntity/code <p>A sequence of names refers to the XML path in the CDA document. The path always starts from a defined context which is defined in the grey header row above each group of mapping rows. The last name is shown in bold to make the path easier to read. The last name may be a reference to an attribute or an element, as defined in the Australian CDA Schema. The cardinalities of the items map through from the SCS.</p> <p>It is possible to specify an index after the name, such as 'participation[inf_prov]' in Example 1. The presence of the index means there are two or more mappings to the same participation class that differ only in the inner detail. The indexes show which of the multiple mappings is the parent of the inner detail. Note that each of the indexed participations may exist more than once (as specified by the SCS group cardinality). To determine the mapping for these kinds of elements, a document reader must look at the content inside the element.</p> <p>It is possible for one SCS data component to map to more than one CDA Schema element as in Example 2.</p> <p>Any fixed attribute values are represented as a separate line of the mapping such as those shown in Example 2.</p> <p>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).</p>	<p>The name of the vocabulary.</p>	<p>Helpful additional information about the mapping.</p>

How to interpret the following example mapping:

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/		
Subject of Care	Person who receives healthcare services.	1..1	recordTarget/patientRole		
n/a	n/a	1..1	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element. If there are any entitlements for Subject of Care this value SHALL be the same as: ClinicalDocument/ component/ structuredBody/ component[admin_obs]/ section/ entry/ act/ participant/ participantRole/ id where participantRole/ @classCode = "PAT".
Subject of Care > Participant > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/ patient.
Subject of Care > Participant > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	recordTarget/patientRole/patient/<Person Name>		See common pattern: Person Name .

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/		
Subject of Care > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		See Australian CDA extension: Entitlement .
			ext:coverage2/ext:entitlement		All Data Elements within this section SHALL be deemed as CDA Header Data Elements for conformance assessment.
			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 ClinicalDocument/recordTarget/patientRole/id.
Subject of Care > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		
Subject of Care > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	See <code> for available attributes.
Subject of Care > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext:effectiveTime		

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

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

1) ClinicalDocument/recordTarget/patientRole

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

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

2) The next row in the mapping (n/a) is a row that is not defined in the SCS but which is required by CDA. The CDA schema data element is recordTarget/patientRole/id. This is a technical identifier that is used for system purposes such as matching the Entitlement details back to the Subject of Care (patient). This identifier **SHALL** 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 Header 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, the Entitlement CDA elements **SHALL** be deemed as CDA Header Data Elements for conformance assessment, See [4 Administrative Observations](#) for details):

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 **SHALL** 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

```
<!-- 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 Subject of Care - Header Part -->
<recordTarget>
  <!-- 1 Corresponds to:
```



```
        '//recordTarget/patientRole'
    in the mapping. -->
<patientRole>
    <!-- 2 Corresponds to:
        '//recordTarget/patientRole/id'
    in the mapping -->
    <id root="04A103C4-7924-11DF-A383-FC69DFD72085" />

    ...

    <telecom value="tel:0499999999" use="H" />
    <!-- 3 -->
    <patient>
        <!-- 4 Corresponds to:
            '//recordTarget/patientRole/patient/<Person Name>'
        in the mapping -->
        <name use="L">
            <prefix>Ms</prefix>
            <given>Sally</given>
            <family>Grant</family>
        </name>

        ...

    </patient>
    </patientRole>
</recordTarget>
<!-- End Subject of Care - Header Part -->

...

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

        <!-- Begin section -->
        <component>
            <section>

                ...

                <!-- Begin Subject of Care Entitlement -->
                <!-- 5 Corresponds to:
                    '//ext:coverage2'
                in the mapping. -->
                <ext:coverage2 typeCode="COVBY">
                    <!-- 6, 7, 8 Corresponds to:
                        '//ext:coverage2/ext:entitlement',
                        '//ext:coverage2/ext:entitlement/@classCode="COV"',
                        '//ext:coverage2/ext:entitlement/@moodCode="EVN"'
                    in the mapping -->
                    <ext:Entitlement classCode="COV" moodCode="EVN">
                        <!-- 12 Corresponds to:
                            '//ext:coverage2/ext:entitlement/ext:id'
                        in the mapping -->
                        <ext:id root="1.2.36.174030967.0.5" extension="1234567892"
                            assigningAuthorityName="Medicare Identifier" />
                        <!-- 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 CDA Extensions 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 CDA W3C XML Schema (referred to in this document as the Australian CDA Schema). This schema differs from the base HL7 CDA W3C XML Schema (referred to in this document as the HL7 CDA Schema) as mentioned below:

- Australian CDA extensions have been added to the Australian CDA Schema.

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

document that conforms to this specification **SHALL** validate against the Australian 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 implementation guide.

2.6 Implementation Strategies

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




















- Read or write CDA documents directly using a Document Object Model (DOM) or 3rd Generation Language (3GL) code (or both).
- 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 Australian 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 Pathology Result Report Data Hierarchy

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

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

		PATHOLOGY RESULT REPORT				
CONTEXT						
		SUBJECT OF CARE			1..1	
		DOCUMENT AUTHOR			1..1	
		Document Instance Identifier			1..1	
		Document Type			1..1	
		REPORTING PATHOLOGIST			1..1	
		ORDER DETAILS			1..1	
			REQUESTER		1..1	
			Requester Order Identifier		0..1	
CONTENT						
		PATHOLOGY			1..1	
			PATHOLOGY TEST RESULT		1..*	
				Test Result Name (Pathology Test Result Name)	1..1	
				Department Code (Diagnostic Service)	1..1	
				Test Specimen Detail (SPECIMEN)	1..1	
				HANDLING AND PROCESSING	1..1	
					Collection DateTime	1..1
				IDENTIFIERS	1..1	
					Specimen Identifier	1..1
				Observation DateTime	1..1	

			Pathology Test Result Instance Identifier	1..1
			Detailed Clinical Model Identifier	1..1
			Authority to Post (DOCUMENT USE AUTHORISATION)	0..1
			Pathology Report Identifier (Document Instance Identifier)	1..1
			Service Request Identifier	1..1
			Authoriser Instruction	1..1
			AUTHORISER	1..1
			AUTHORISEE	1..1
			REPOSITORY	1..1
			Authority to Post Instance Identifier (Document Use Authorisation Instance Identifier)	0..1
			Detailed Clinical Model Identifier	1..1
			Pathology Section Instance Identifier (Pathology Instance Identifier)	1..1
			RELATED DOCUMENT	1..1
			Link Nature	1..1
			Test Result Representation (Document Target)	1..1
			DOCUMENT PROVENANCE	1..1
			Document Type	1..1
			Report Name (Document Title)	1..1
			Report Identifier (Document Identifier)	1..1
			Report Status (Document Status)	1..1
			Section Type	1..1

4 Administrative Observations

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

CDA R-MIM Representation

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

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

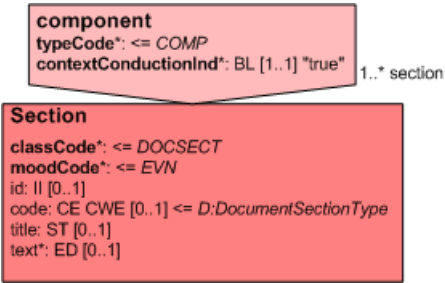


Figure 4.1. Administrative Observations

CDA Mapping

At most one instance of Administrative Observation section **SHOULD** be present in a CDA document. The cardinality of this section comes from its linking context data elements (Ex: CDA context Data Element(s) mapped to Administrative Observation Section). If any of the linking context data elements are mandatory, then this section **SHALL** be marked as a mandatory section.

This section **SHALL NOT** be populated if there are no entries or text to go in it.

This section **SHALL** contain a code if provided.

All data elements (with the exception of narrative text) within this section **SHALL** be deemed as **CDA Header Data Elements** for conformance assessment.

The <text> data element is **OPTIONAL** and **SHALL** be treated as a Level 2 CDA Data Element.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/component/structuredBody/		
n/a	n/a	Cardinality comes from linking context Data Elements	component/section[admin_obs]		
			component/section[admin_obs]/@classCode="DOCSECT"		
			component/section[admin_obs]/@moodCode="EVN"		
		0..1	component/section[admin_obs]/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
		1..1	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/section[admin_obs]/title="Administrative Observations"		
		0..1	component/section[admin_obs]/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 typeCode="COMP"><!-- [admin_obs] -->
        <section classCode="DOCSECT" moodCode="EVN">
          <id root="88CDBCA4-EFD1-11DF-8DE4-E4CDDFD72085"/>
          <code code="102.16080"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Administrative Observations"/>
          <title>Administrative Observations</title>

          <!-- Narrative text for Administrative Observations -->
          <text/>

          ...

        </section>
      </component><!-- [admin_obs] -->
      <!-- End Administrative Observations section -->

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

5 CDA Header

This chapter contains CDA specific header elements (both **REQUIRED** and **OPTIONAL**) that are not specified in the PRR SCS specification. The CDA Schema Data Element describes each element.

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

Name	Occurrence
LegalAuthenticator	0..1
Custodian	1..1

CDA R-MIM Representation

Figure 5.1 ClinicalDocument

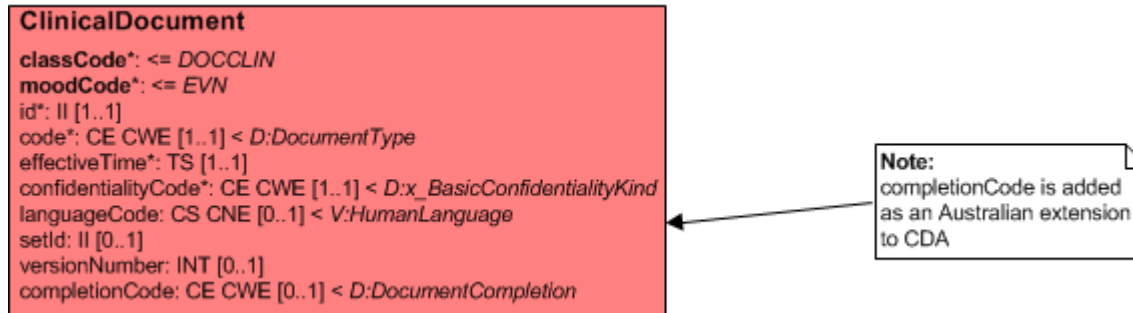


Figure 5.1. ClinicalDocument

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	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.	1..1		
ClinicalDocument/ typeld	A technology-neutral explicit reference to the CDA Release 2 specification.	1..1		
ClinicalDocument/typeld/@extension="POCD_HD000040"		1..1		The unique identifier for the CDA Release 2 Hierarchical Description.
ClinicalDocument/typeld/@root="2.16.840.1.113883.1.3"		1..1		The OID for HL7 Registered models.
ClinicalDocument/ templated		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 templated 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 template identifiers than the one below in order to understand the document as a [type] but these identifiers may influence how the document must be handled.
ClinicalDocument/templated/@root="1.2.36.1.2001.1001.100.1002.220"		1..1		The healthcare context-specific name of the published Pathology Result Report CDA Implementation Guide.
ClinicalDocument/templated/@extension="1.0"		1..1		The identifier of the version that was used to create the document instance.
ClinicalDocument/ id	Represents the unique instance identifier of a clinical document.	1..1		See common pattern: id .
ClinicalDocument/ code	The code specifying the particular kind of document (e.g. History and Physical, Discharge Summary, Progress Note).	1..1		See common pattern: code .
ClinicalDocument/code/@code="100.32001"				A set of one or more results of pathology tests and associated interpretation.
ClinicalDocument/code/@codeSystem="1.2.36.1.2001.1001.101"				
ClinicalDocument/code/@codeSystemName="NCTIS Data Components"				
ClinicalDocument/code/@displayName="Pathology Result Report"				
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 ClinicalDocument.effectiveTime is the time the original document is created.	1..1		See common pattern: time .

CDA Schema Data Element	Definition	Card	Vocab	Comments
ClinicalDocument/ confidentialityCode/@nullFlavor="NA"	Codes that identify how sensitive a piece of information is and/or that indicate how the information may be made available or disclosed.	1..1		
ClinicalDocument/ languageCode		0..1	[RFC3066] – Tags for the Identification of Languages	<Language Code> – <DIALECT> The <Language Code> SHALL be "en". The <DIALECT> SHOULD be "AU".
ClinicalDocument/ setId	Represents an identifier that is common across all document revisions.	0..1	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	
ClinicalDocument/ versionNumber/@value	An integer value used to version successive replacement documents.	0..1		
ClinicalDocument/ ext:completionCode	The lifecycle status of a document.	1..1	NCTIS: Admin Codes - Document Status	See Australian CDA extension: ClinicalDocument.completionCode .

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:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  xsi:schemaLocation="urn:hl7-org:v3 ../../library/schema_au/CDA/infrastructure/cda/CDA-AU-V1_0.xsd">

  <!--Document header -->
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId extension="1.0" root="1.2.36.1.2001.1001.100.1002.220"/>
  <templateId extension="1.0" root="1.2.36.1.2001.1001.100.149"/>
  <id root="2.9999.153724959637100541810547420309638164377"/>

  <!-- Document code system -->
  <code displayName="Pathology Result Report" codeSystemName="NCTIS Data Components"
    codeSystem="1.2.36.1.2001.1001.101" code="100.32001"/>
  <effectiveTime value="201211061639+1100"/>
  <confidentialityCode nullFlavor="NA"/>
  <languageCode code="en-AU"/>
  <setId root="fc7fecc0-8255-11e3-baa7-0800200c9a66"/>
  <versionNumber value="1"/>

  <!-- Document completion code -->
  <ext:completionCode displayName="Final" codeSystemName="NCTIS Document Status Values"
    codeSystem="1.2.36.1.2001.1001.101.104.20104" code="F"/>
  ...
  <!-- 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	0..1

CDA R-MIM Representation

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

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

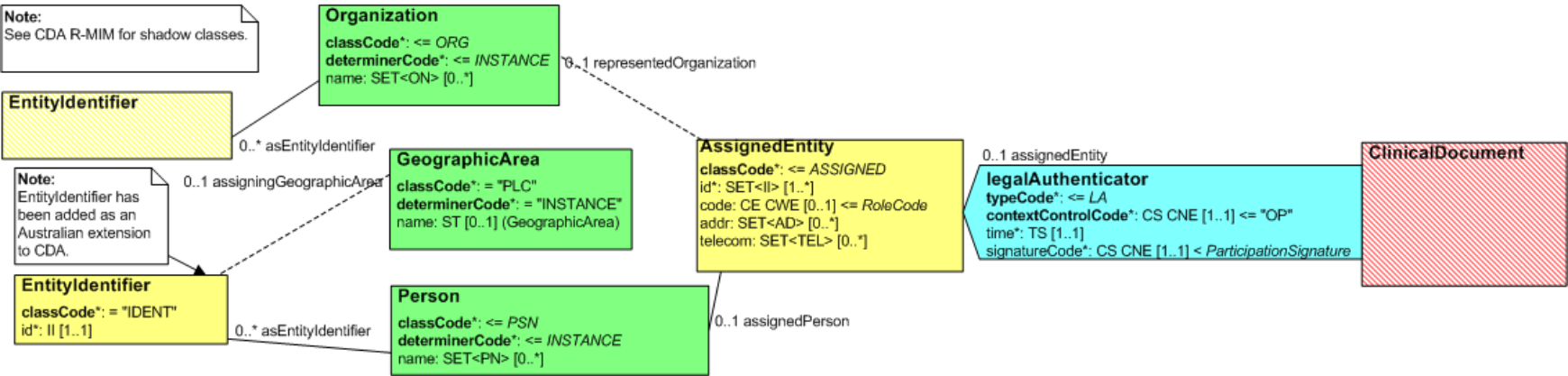


Figure 5.2. LegalAuthenticator

CDA Mapping



Note

NS = In the absence of national standard code sets, the code sets used **SHALL** be registered code sets, i.e. registered through the [HL7 code set registration procedure](#)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.	0..1		
legalAuthenticator/time/@value	Indicates the time of authentication.	1..1		
legalAuthenticator/signatureCode/@code="S"	Indicates that the signature has been affixed and is on file.	1..1		
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).	1..1		
legalAuthenticator/assignedEntity/code	The specific kind of role.	0..1	NS	See <code> for available attributes.
legalAuthenticator/assignedEntity/id	A unique identifier for the player entity in this role.	1..1	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
legalAuthenticator/assignedEntity/assignedPerson	The entity playing the role (assignedEntity) is a person.	0..1		
legalAuthenticator/assignedEntity/assignedPerson/<Entity Identifier>	The entity identifier of the person.	0..*		See common pattern: Entity Identifier .
legalAuthenticator/assignedEntity/<Address>	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0..*		See common pattern: Address .
legalAuthenticator/assignedEntity/<Electronic Communication Detail>	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0..*		See common pattern: Electronic Communication Detail .
legalAuthenticator/assignedEntity/assignedPerson/<Person Name>	A non-unique textual identifier or moniker for the entity (assignedPerson).	0..*		See common pattern: Person Name .

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

CDA Schema Data Element	Definition	Card	Vocab	Comments
legalAuthenticator/assignedEntity/ representedOrganization	The entity scoping the role (assignedEntity).	0..1		
legalAuthenticator/assignedEntity/representedOrganization/< Entity Identifier >	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 (representedOrganization).	0..*		

Example

Example 5.2. LegalAuthenticator XML Fragment

<!-- This example is provided for illustrative purposes only. It has had no clinical validation. While every effort has been taken to ensure that the examples are consistent with the message specification, where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->

```
<ClinicalDocument
  xmlns="urn:hl7-org:v3"
  xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  ...
  >

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- Begin legalAuthenticator -->
  <legalAuthenticator>
    <time value="201001061149+1100"/>
    <signatureCode code="S"/>
    <assignedEntity>
      <id root="123F9366-78EC-11DF-861B-EE24DFD72085"/>
      <code code="253915"
        codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification
        of Occupations, First Edition, 2006"
        displayName="Pathologist"/>
      <!-- Address -->
      <addr use="WP">
        <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>
          <given>Testing</given>
          <family>Doctor</family>
        </name>
        <!-- Entity Identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003619900015717"/>
          <ext:assigningGeographicArea classCode="PLC">
            <ext:name>National Identifier</ext:name>
          </ext:assigningGeographicArea>
        </ext:asEntityIdentifier>
      </assignedPerson>
      <representedOrganization>
        <!-- Organisation Name -->
        <name>Pathology Laboratory Name</name>
```

```
<!-- Entity Identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</representedOrganization>
</assignedEntity>
</legalAuthenticator>
<!-- End legalAuthenticator -->
...

<!-- End CDA Header -->

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

...

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

5.1.2 Custodian

Identification

Name	Custodian
Definition	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	Occurrences (child within parent)
ClinicalDocument	1..1

CDA R-MIM Representation

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

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

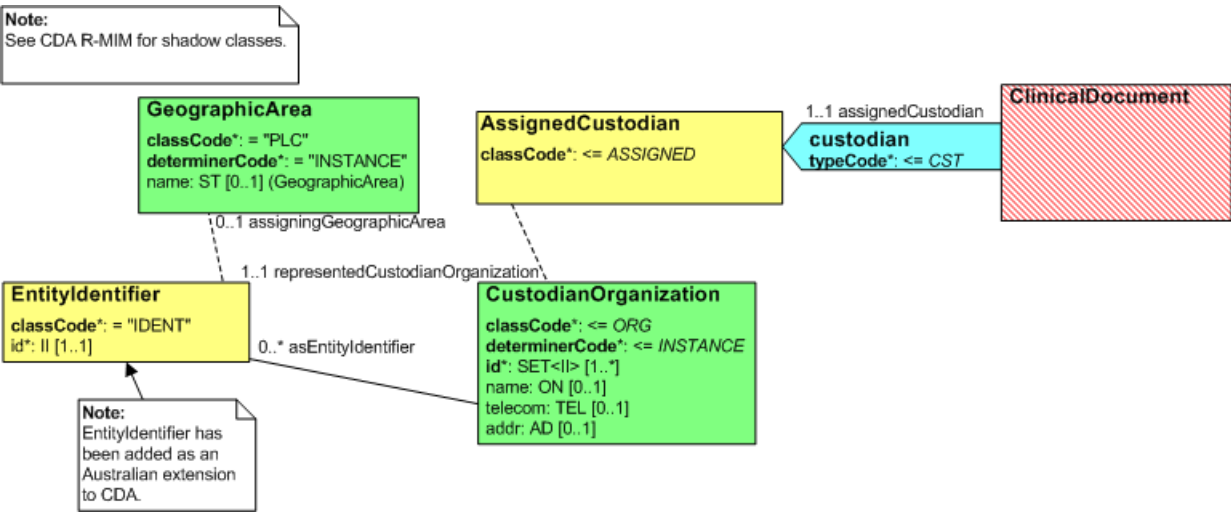


Figure 5.3. Custodian

CDA Mapping

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

Example 5.3. Custodian Body XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->

<ClinicalDocument
  xmlns="urn:hl7-org:v3"
  xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
...
>

...

<!-- Begin CDA Header -->

...

<!--Custodian Section-->
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id root="c9c04faf-d7a8-4802-8c69-980b0ce4d798"/>
      <name>National Consumer Portal</name>

      <!-- Optional Element -->
      <!-- Electronic Communication Detail -->
      <telecom use="WP" value="tel:0712341234"/>

      <!-- Optional Element -->
      <!-- Address -->
      <addr use="WP">
        <streetAddressLine>99 Clinician Street</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
      </addr>

      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="PAI-O"
          root="1.2.36.1.2001.1007.1.8003640001000036" />
        <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>

  ...
</component>
</structuredBody>
</component>
</CDA Body>
</CDA Document>
```

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

6 Context Data Specification - CDA Mapping





6.1 PATHOLOGY RESULT REPORT

Identification

Name	PATHOLOGY RESULT REPORT
Metadata Type	Structured Document
Identifier	SD-32001

Relationships

Children

Data Type	Name	Occurrence
	SUBJECT OF CARE	1..1
	DOCUMENT AUTHOR	1..1
	ORDER DETAILS	1..1
	REQUESTER	1..1

CDA R-MIM Representation

Figure 6.1 CDA Header Model for Pathology Result Report 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.

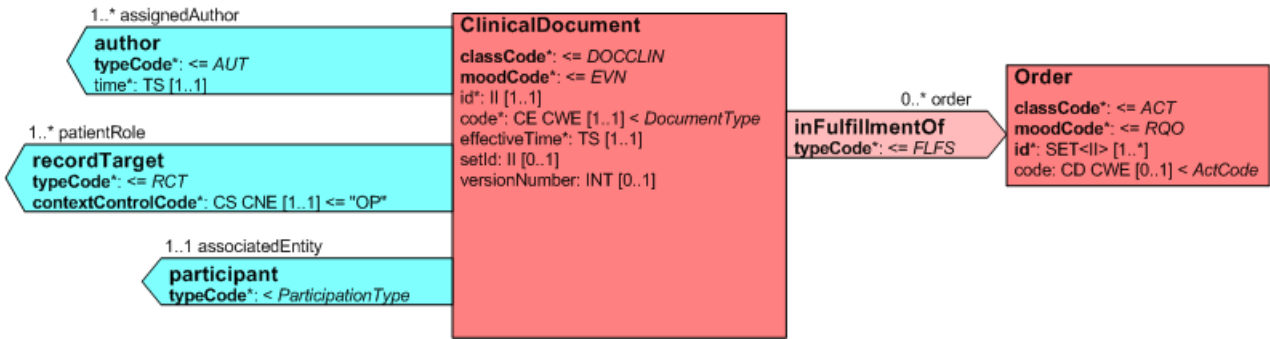


Figure 6.1. CDA Header Model for Pathology Result Report Context

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Pathology Result Report	A set of one or more results of pathology tests and associated interpretation.	1..1	ClinicalDocument		
Pathology Result Report > SUBJECT OF CARE	Person who receives healthcare services.	1..1	See: SUBJECT OF CARE		
Pathology Result Report > DOCUMENT AUTHOR	Composer of documents.	1..1	See: DOCUMENT AUTHOR		
Pathology Result Report > Document Instance Identifier	A globally unique identifier for each instance of a Pathology Result Report document.	1..1	ClinicalDocument/id		See <id> for available attributes.
Pathology Result Report > Document Type	Type of document.	1..1	ClinicalDocument/code		See <code> for available attributes.
			ClinicalDocument/code/@code="100.32001"		
			ClinicalDocument/code/@codeSystem="1.2.36.1.2001.1001.101"		
			ClinicalDocument/code/@codeSystemName="NCTIS Data Components"		
			ClinicalDocument/code/@displayName="Pathology Result Report"		
Pathology Result Report > REPORTING PATHOLOGIST	Pathologist who is responsible for the pathology test result.	1..1	See: REPORTING PATHOLOGIST		This logical data component could not be mapped to CDA Header elements and is instead mapped as a child of PATHOLOGY .
Pathology Result Report > ORDER DETAILS	Details of order that caused the creation of the document.	1..1	See: ORDER DETAILS		
Pathology Result Report > REQUESTER	Party that arranges provision of a service.	1..1	See: REQUESTER		This logical data component could not be mapped as a child of ORDER DETAILS and is instead mapped as ClinicalDocument/participant.

For CDA Header mappings and model which are not explicitly included in the SCS, see [ClinicalDocument](#).

Example 6.1. Pathology Result Report 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" 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">
  ...
  <id root="8f281000-498d-11e2-bcfd-0800200c9a66"/>
  <code code="100.32001" codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components" displayName="Pathology Result Report"/> ...
  <!-- Begin CDA Header -->
  ...
  <!-- Subject of Care -->
  <recordTarget>
    <!--Patient Identifier Section-->
    <patientRole>
      ...
    </patientRole>
  </recordTarget>

  <!-- Begin Document Author -->
  <author>
    ...
  </author>
  <!-- End Document Author -->

  <!-- Begin Order Details -->
  <inFulfillmentOf>
    ...
  </inFulfillmentOf>
  <!-- End Order Details -->

  <!-- Begin REQUESTER -->
  <participant typeCode="REF">
    ...
  </participant>
  <!-- End REQUESTER -->

  <!-- End CDA Header -->

  <!-- Begin CDA Body -->
  <component>
    ...
  </component>
  <!-- End CDA Body -->

</ClinicalDocument>
```


6.1.1 SUBJECT OF CARE

Identification

Name	SUBJECT OF CARE
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	1..1

CDA R-MIM Representation

Figure 6.2 SUBJECT OF CARE - Header Data Elements and Figure 6.3 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 with the Patient class by the PatientRole class. In order to represent the Date of Death of the Subject of Care, Patient.deceasedTime has been added as an Australian CDA extension.

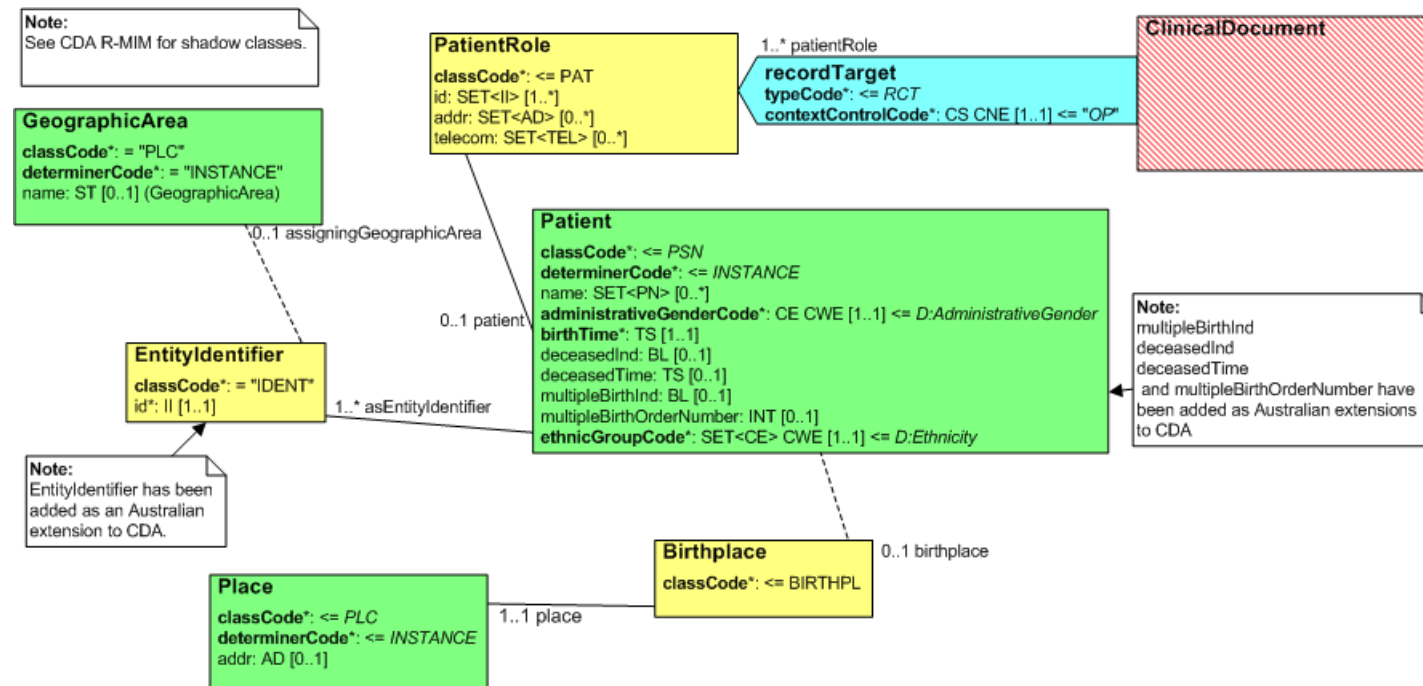


Figure 6.2. SUBJECT OF CARE - Header Data Elements



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](#)).

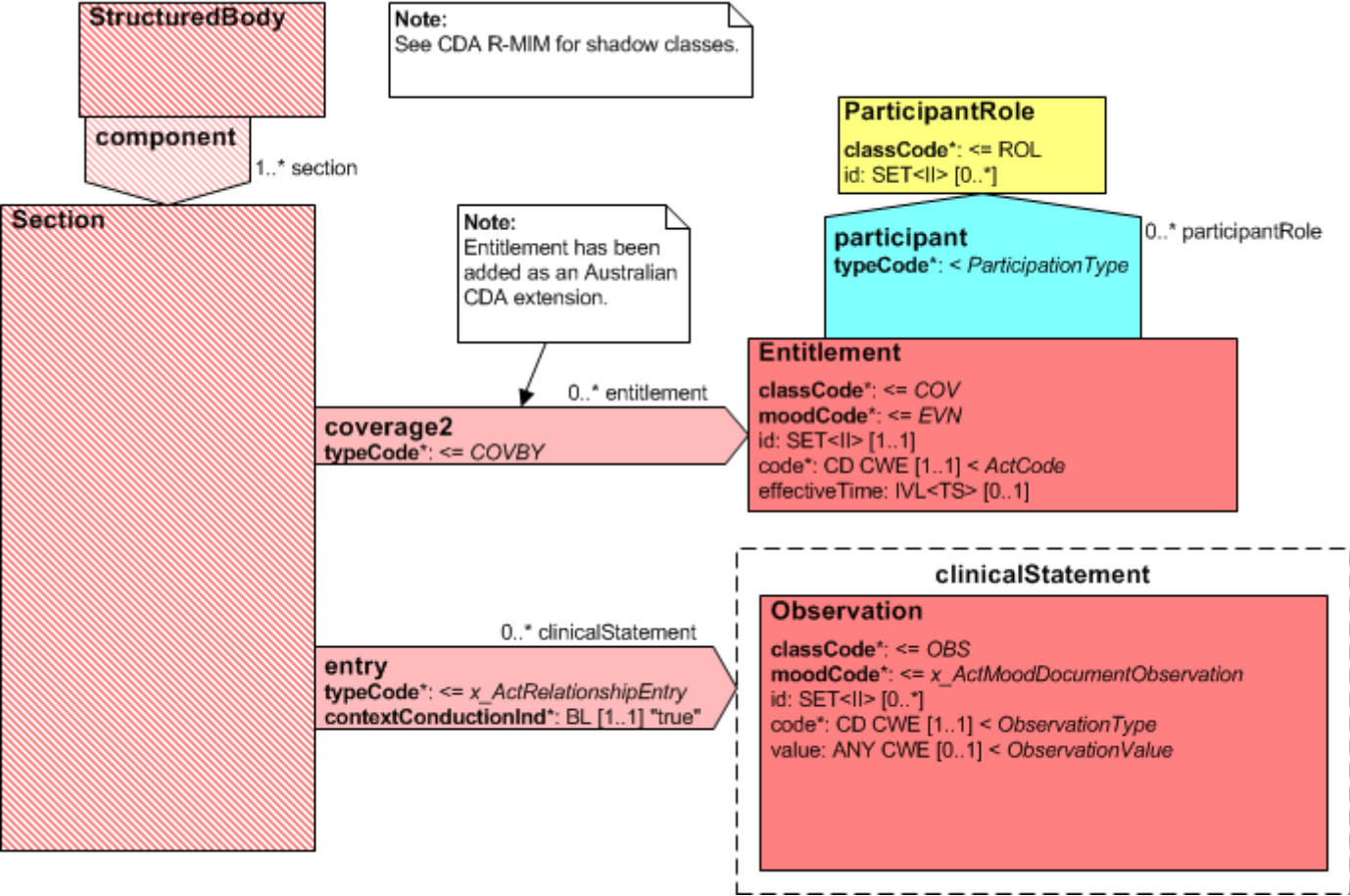


Figure 6.3. SUBJECT OF CARE - Body Data Elements

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/		
SUBJECT OF CARE	Person who receives healthcare services.	1..1	recordTarget/patientRole		
n/a	n/a	1..1	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element. If there are any entitlements for SUBJECT OF CARE this value SHALL be the same as: ClinicalDocument/ component/ structuredBody/ component[admin_obs]/ section/ entry/ act/ participant/ participantRole/ id where participantRole/ @classCode = "PAT".
SUBJECT OF CARE > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific fixed value equivalent to "Subject of Care".	Not mapped directly, encompassed implicitly in recordTarget/ typeCode = "RCT" (optional, fixed value).
SUBJECT OF CARE > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	n/a	Role SHALL have an implementation-specific fixed value equivalent to "Patient".	Not mapped directly, encompassed implicitly in recordTarget/ patientRole/ classCode = "PAT".
SUBJECT OF CARE > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	recordTarget/patientRole/patient		
SUBJECT OF CARE > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	recordTarget/patientRole/patient/<Entity Identifier>	The value of one Entity Identifier SHALL be an Australian IHI.	See common pattern: Entity Identifier . The Subject of Care's Medicare card number is recorded in Entitlement, not Entity Identifier.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1..*	recordTarget/patientRole/Address	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.	See common pattern: Address .
SUBJECT OF CARE > Participant > Electronic Communication Detail	The electronic communication details of entities.	0..*	recordTarget/patientRole/Electronic Communication Detail		See common pattern: Electronic Communication Detail .
SUBJECT OF CARE > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/patient.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	recordTarget/patientRole/patient/Person Name		See common pattern: 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.	1..1	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Sex	The biological distinction between male and female. Where there is inconsistency between anatomical and chromosomal characteristics, sex is based on anatomical characteristics.	1..1	recordTarget/patientRole/patient/administrativeGenderCode	AS 5017-2006 Health Care Client Identifier Sex	
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail	Details of the accuracy, origin and value of a person's date of birth.	1..1	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth	The date of birth of the person.	1..1	recordTarget/patientRole/patient/birthTime		See <time> for available attributes.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/ (See 4 Administrative Observations)		
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth is Calculated From Age	Indicates whether or not a person's date of birth has been derived from the value in the Age data element.	0..1	entry[calc_age]		
			entry[calc_age]/observation		
			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 available attributes.
			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 Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator	The level of certainty or estimation of a person's date of birth.	0..1	entry[dob_acc]		
			entry[dob_acc]/observation		
			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 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.
			entry[dob_acc]/observation/value:CS	AS 5017-2006 Health Care Client Identifier Date Accuracy Indicator	
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Day Accuracy Indicator	The accuracy of the day component of a person's date of birth.	1..1	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Month Accuracy Indicator	The accuracy of the month component of a person's date of birth.	1..1	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Year Accuracy Indicator	The accuracy of the year component of a person's date of birth.	1..1	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail	Details of the accuracy and value of a person's age.	0..1	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail > Age	The age of a person/subject of care at the time.	1..1	entry[age]		
			entry[age]/observation		
			entry[age]/observation/@classCode="OBS"		
			entry[age]/observation/@moodCode="EVN"		
			entry[age]/observation/code		
			entry[age]/observation/code/@code="103.20109"		
			entry[age]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[age]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[age]/observation/code/@displayName="Age"		
			entry[age]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entry[age]/observation/value:PQ		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail > Age Accuracy Indicator	The accuracy of a person's age.	0..1	entry[age_acc]		
			entry[age_acc]/observation		
			entry[age_acc]/observation/@classCode="OBS"		
			entry[age_acc]/observation/@moodCode="EVN"		
			entry[age_acc]/observation/code		
			entry[age_acc]/observation/code/@code="103.16279"		
			entry[age_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[age_acc]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[age_acc]/observation/code/@displayName="Age Accuracy Indicator"		
			entry[age_acc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entry[age_acc]/observation/value:BL		If the age is considered to be accurate, this is true, otherwise it is false.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Birth Plurality	An indicator of multiple birth, showing the total number of births resulting from a single pregnancy.	0..1	entry[brth_plr]		
			entry[brth_plr]/observation		
			entry[brth_plr]/observation/@classCode="OBS"		
			entry[brth_plr]/observation/@moodCode="EVN"		
			entry[brth_plr]/observation/code		
			entry[brth_plr]/observation/code/@code="103.16249"		
			entry[brth_plr]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[brth_plr]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[brth_plr]/observation/code/@displayName="Birth Plurality"		
			entry[brth_plr]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
entry[brth_plr]/observation/value:INT					
CDA Header Data Elements			Context: ClinicalDocument/		
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Birth Order	The sequential order of each baby of a multiple birth regardless of live or still birth.	0..1	recordTarget/patientRole/patient/ext:multipleBirthInd		See Australian CDA extension: Multiple Birth .
			recordTarget/patientRole/patient/ext:multipleBirthOrderNumber		
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.	0..1	n/a		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death	The date or date and time at which a person was estimated or certified to have died.	1..1	recordTarget/patientRole/patient/ext:deceasedInd		See Australian CDA extension: Deceased Time .
			recordTarget/patientRole/patient/ext:deceasedTime		See <time> for available attributes.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/ (See 4 Administrative Observations)		
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator	The level of certainty or estimation of a person's date of death.	0..1	entry[dod_acc]		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
			entry[dod_acc]/observation		
			entry[dod_acc]/observation/@classCode="OBS"		
			entry[dod_acc]/observation/@moodCode="EVN"		
			entry[dod_acc]/observation/code		
			entry[dod_acc]/observation/code/@code="102.16252"		
			entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[dod_acc]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[dod_acc]/observation/code/@displayName="Date of Death Accuracy Indicator"		
			entry[dod_acc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entry[dod_acc]/observation/value:CS	AS 5017-2006 Health Care Client Identifier Date Accuracy Indicator	
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Day Accuracy Indicator	The accuracy of the day component of a person's date of death.	1..1	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Month Accuracy Indicator	The accuracy of the month component of a person's date of death.	1..1	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Death Detail > Date of Death Accuracy Indicator > Date of Death Year Accuracy Indicator	The accuracy of the year component of a person's date of death.	1..1	n/a		Encompassed in the mapping for Date of Death Accuracy Indicator (above).
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Source of Death Notification	The person, location, organisation or other originator of information relating to the date of death.	0..1	entry[src_notif]		
			entry[src_notif]/observation		
			entry[src_notif]/observation/@classCode="OBS"		
			entry[src_notif]/observation/@moodCode="EVN"		
			entry[src_notif]/observation/code		
			entry[src_notif]/observation/code/@code="103.10243"		
			entry[src_notif]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[src_notif]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[src_notif]/observation/code/@displayName="Source of Death Notification"		
			entry[src_notif]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entry[src_notif]/observation/value:CD	AS 5017-2006: Health Care Client Source of Death Notification	See <code> for available attributes.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Mother's Original Family Name	The original family name of the person's mother.	0..1	entry[mothers_name]		
			entry[mothers_name]/observation		
			entry[mothers_name]/observation/@classCode="OBS"		
			entry[mothers_name]/observation/@moodCode="EVN"		
			entry[mothers_name]/observation/code		
			entry[mothers_name]/observation/code/@code="103.10245"		
			entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[mothers_name]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[mothers_name]/observation/code/@displayName="Mother's Original Family Name"		
			entry[mothers_name]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entry[mothers_name]/observation/value:PN		
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.	0..1	recordTarget/patientRole/patient/birthplace/place/addr/country	Standard Australian Classification 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.	0..1	recordTarget/patientRole/patient/birthplace/place/addr/state	AS 5017-2006 Australian State/Territory Identifier - Postal	
SUBJECT OF CARE > Participant > Person or Organisation or Device > Person > Demographic Data > Indigenous Status	Indigenous Status is a measure of whether a person identifies as being of Aboriginal or Torres Strait Islander origin.	1..1	recordTarget/patientRole/patient/ethnicGroupCode	METeOR 291036: Indigenous Status	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/		
SUBJECT OF CARE > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		See Australian CDA extension: Entitlement .
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	SHALL hold the same value as ClinicalDocument/ recordTarget/ patientRole/ id.
SUBJECT OF CARE > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		
SUBJECT OF CARE > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code		See <code> for available attributes.
SUBJECT OF CARE > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for available attributes.

Example 6.2. 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 SUBJECT OF CARE - Header Part -->
  <recordTarget>
  <patientRole>
    <!-- This system generated id is used for matching patient Entitlement -->
    <id root="7AA0BAAC-0CD0-11E0-9516-4350DFD72085"/>

    <!-- Address -->
    <addr use="H">
      <streetAddressLine>1 Patient 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"
        displayName="Female" />

      <!-- Date of Birth -->
      <birthTime value="20110712"/>

      <!-- Indigenous Status -->
      <ethnicGroupCode code="4" codeSystem="2.16.840.1.113883.3.879.291036"
        codeSystemName="METeOR Indigenous Status"
        displayName="Neither Aboriginal nor Torres Strait Islander origin"/>

      <!-- Multiple Birth Indicator -->
      <ext:multipleBirthInd value="true"/>
      <ext:multipleBirthOrderNumber value="2"/>

    </patient>
  </patientRole>
</recordTarget>
</ClinicalDocument>
```

```

<!-- Date of Death -->
<ext:deceasedInd value="true"/>
<ext:deceasedTime value="20121112"/>

<!-- Country of Birth/State of Birth -->
<birthplace>
  <place>
    <addr>
      <country>Australia</country>
      <state>QLD</state>
    </addr>
  </place>
</birthplace>

<!-- Entity Identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id assigningAuthorityName="IHI" root="1.2.36.1.2001.1003.0.8003608833357361"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</patient>
</patientRole>
</recordTarget>
<!-- End SUBJECT OF CARE - 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>
      <table>
        <tbody>
          <tr>
            <th>Date of Birth is Calculated From Age</th>
            <td>True</td>
          </tr>
          <tr>
            <th>Date of Birth Accuracy Indicator</th>
            <td>AAA</td>
          </tr>
          <tr>
            <th>Age</th>
            <td>1</td>
          </tr>
          <tr>
            <th>Age Accuracy Indicator</th>

```



```
<td>True</td>
</tr>
<tr>
<th>Birth Plurality</th>
<td>3</td>
</tr>
<tr>
<th>Source of Death Notification</th>
<td>Relative</td>
</tr>
<tr>
<th>Mother's Maiden Name</th>
<td>Smith</td>
</tr>
<tr>
<th>Australian Medicare Number</th>
<td>1234567892</td>
</tr>
...
</tbody>
</table>
</text>

<!-- Begin SUBJECT OF CARE - 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 xsi:type="PQ" value="1" unit="a"/>
</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 Source of Death Notification-->
<entry>
<!-- [src_notif] -->
<observation classCode="OBS" moodCode="EVN">

  <!-- ID is used for system purposes such as matching -->
  <id root="C749A146-2789-11E1-90AC-74064824019B" />
  <code code="103.10243" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
    displayName="Source of Death Notification" />
  <value code="R" codeSystem="2.16.840.1.113883.13.64"
    codeSystemName="AS 5017-2006 Health Care Client Source of Death Notification" displayName="Relative"
    xsi:type="CD" />
</observation>
</entry>
<!-- [src_notif] -->
<!-- End Source of Death Notification-->

<!-- Begin Mother's Original Family Name -->
<entry>
<!-- [mothers_name] -->
<observation classCode="OBS" moodCode="EVN">

  <!-- ID is used for system purposes such as matching -->
  <id root="E432CD48-278C-11E1-BDA1-0F0A4824019B" />
  <code code="103.10245" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"
    displayName="Mother's Original Family Name" />
  <value xsi:type="PN">
    <family>Smith</family>
  </value>
</observation>
</entry>
<!-- [mothers_name] -->
<!-- End Mother's Original Family Name -->

<!-- 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 assigningAuthorityName="Medicare Card Number" extension="1234567892" root="1.2.36.1.5001.1.0.7.1" />
    <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 SUBJECT OF CARE - Body -->

...

</section>

</component>
<!-- End Section Administrative Observations -->

...

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


6.1.2 DOCUMENT AUTHOR

Identification

Name	DOCUMENT AUTHOR
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent



Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	1..1

Author Choices



Note

Mentioned below are the possible mutually exclusive 'DOCUMENT AUTHOR' instantiation choices.

Data Type	Name
	Document Author as a Person (Healthcare Provider)
	Document Author as a Device

6.1.2.1 Document Author as a Person (Healthcare Provider)

CDA R-MIM Representation

Figure 6.4 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 instantiated as 'PERSON' (Healthcare Provider) 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.

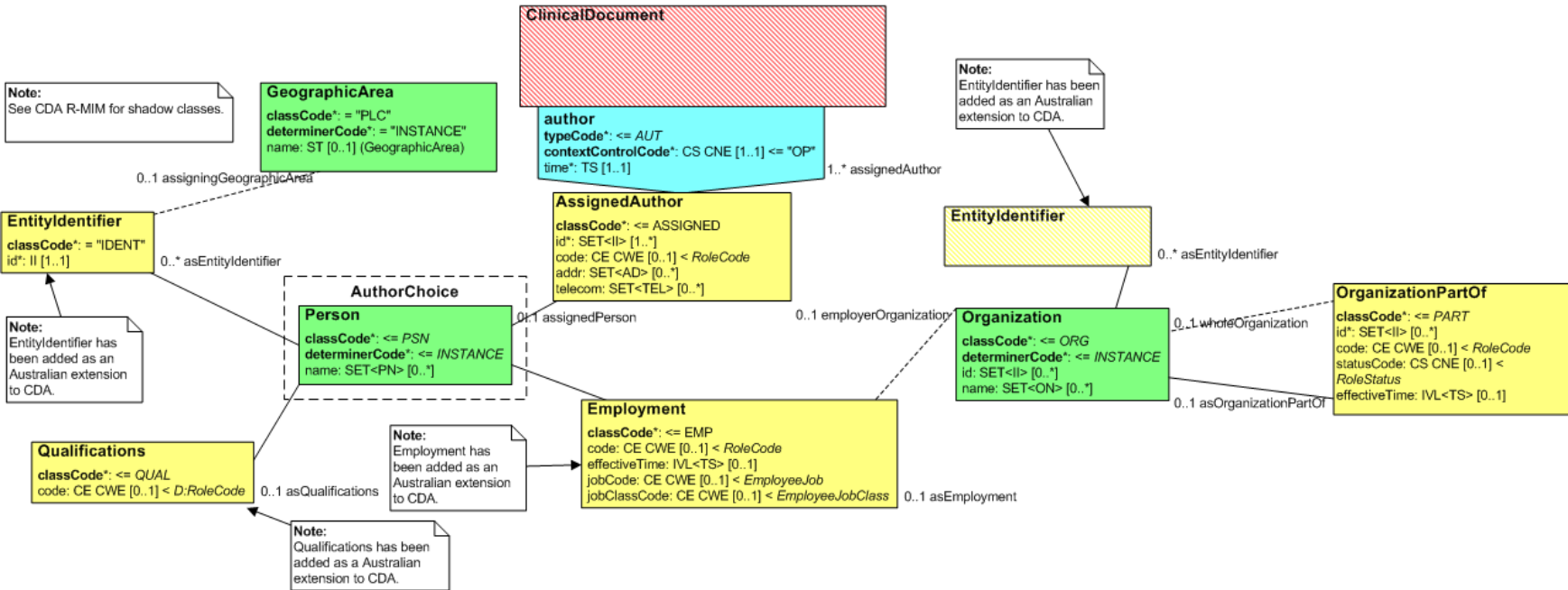


Figure 6.4. DOCUMENT AUTHOR

Figure 6.5 DOCUMENT AUTHOR - Entitlement 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.

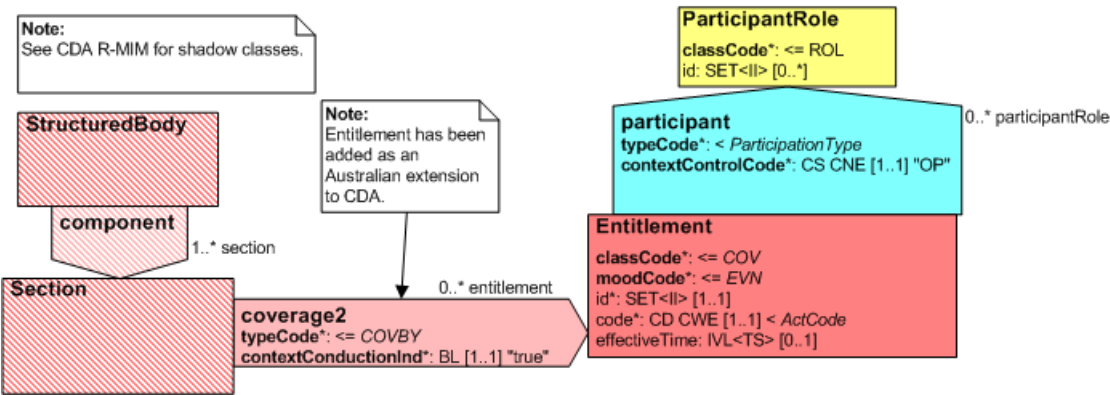


Figure 6.5. DOCUMENT AUTHOR - Entitlement

CDA Mapping



Note

CDA mapping for 'DOCUMENT AUTHOR' when 'DOCUMENT AUTHOR > Participant > Person or Organisation or Device' instantiated as '**PERSON**' (Healthcare Provider).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/		
DOCUMENT AUTHOR	Composer of documents.	1..1	author		Document Author SHALL be filled with the Healthcare Provider who authored the document.
DOCUMENT AUTHOR > Participation Period	The time interval during which the participation in the health care event occurred.	1..1	author/time	Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a Document Author participation is the time associated with the completion of editing the content of a document." Thus only the end time need be recorded.	Required CDA element.
DOCUMENT AUTHOR > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific fixed value equivalent to "Document Author".	Not mapped directly, encompassed implicitly in author/typeCode="AUT" (optional, fixed value).

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
DOCUMENT AUTHOR > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
DOCUMENT AUTHOR > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in author/assignedAuthor/assignedPerson.
DOCUMENT AUTHOR > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..1	author/assignedAuthor/assignedPerson/<Person Name>		See common pattern: Person Name .
DOCUMENT AUTHOR > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	1..1	author/assignedAuthor/assignedPerson/<Employment >		See common pattern: Employment .
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/		
DOCUMENT AUTHOR > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="HLD"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="ASSIGNED"		
			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.	This SHALL hold the same value as author/assignedAuthor/id.
DOCUMENT AUTHOR > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		See <id> for available attributes.
DOCUMENT AUTHOR > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
DOCUMENT AUTHOR > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext: effectiveTime		See <time> for available attributes.
CDA Header Data Elements			Context: ClinicalDocument/		
DOCUMENT AUTHOR > Participant > Qualifications	A list of professional certifications, and certificates recognising having passed a course.	0..1	author/assignedAuthor/assignedPerson/ext: asQualifications		See Australian CDA extension: Qualifications .
			author/assignedAuthor/assignedPerson/ext:asQualifications/@ classCode="QUAL"		
			author/assignedAuthor/assignedPerson/ext:asQualifications/ext: code/originalText	Qualifications is a text field, so the text list is entered in the originalText field of the code element.	

Example 6.3. DOCUMENT AUTHOR XML Fragment (PERSON Healthcare Provider)

<!-- 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 as a Healthcare Person-->
<author>
  <!-- DateTime Authored -->
  <time value="201110201235+1000" />
  <assignedAuthor>
    <!-- ID is used for system purposes such as matching -->
    <id root="7FCB0EC4-0CD0-11E0-9DFC-8F50DFD72085" />
    <!-- Role -->
    <code code="253915"
      codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
      displayName="Pathologist"/>
    <!-- Address -->
    <addr use="WP">
      <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" />
    <!-- Participant -->
    <assignedPerson>
      <!-- Person Name -->
      <name>
        <prefix>Dr</prefix>
        <given>Robert</given>
        <family>Grant</family>
      </name>
      <!-- Entity Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003619900015717"/>
        <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>Pathologist</originalText>
        </ext:code>
        <!-- Occupation -->
        <ext:jobCode code="253915"
          codeSystem="2.16.840.1.113883.13.62"
          codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
```

```

    displayName="Pathologist" />
<!-- Employment Type -->
<ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059" codeSystemName="HL7:EmployeeJobClass"
  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-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </wholeOrganization>
  </asOrganizationPartOf>
</ext:employerOrganization>
</ext:asEmployment>
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>M.B.B.S</originalText>
  </ext:code>
</ext:asQualifications>
</assignedPerson>
</assignedAuthor>
</author>
<!-- End Document Author as a Healthcare Person -->

...

<component>
  <structuredBody>
    ...
    <!-- Begin Section Administrative Observations -->
    <component>
      <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"/>
    ...
    <!-- Begin Document Author Healthcare Provider Entitlement -->
<ext:coverage2 typeCode="COVBY">
  <ext:entitlement classCode="COV" moodCode="EVN">
    <ext:id root="1.2.36.174030967.0.3" extension="1234568"
      assigningAuthorityName="Medicare Australia"/>
    <ext:code code="10" codeSystem="1.2.36.1.2001.1001.101.104.16047"
      codeSystemName="NCTIS Entitlement Type Values"
      displayName="Medicare Prescriber Number"/>
    <ext:effectiveTime>
      <low value="200501010101"/>
      <high value="202501010101"/>
    </ext:effectiveTime>
    <ext:participant typeCode="HLD">
      <ext:participantRole classCode="ASSIGNED">
        <!-- Same as the prescriber (assignedAuthor) id -->
        <ext:id root="7FCB0EC4-0CD0-11E0-9DFC-8F50DFD72085"/>
      </ext:participantRole>
    </ext:participant>
  </ext:entitlement>

```

```
</ext:coverage2>
<!-- End Document Author Healthcare Provider Entitlement -->
...
</section>
</component>
<!-- End Section Administrative Observations -->
...
</structuredBody>
</component>
</ClinicalDocument>
```

6.1.2.2 Document Author as a Device

CDA R-MIM Representation

Figure 6.6 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 Body elements.

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

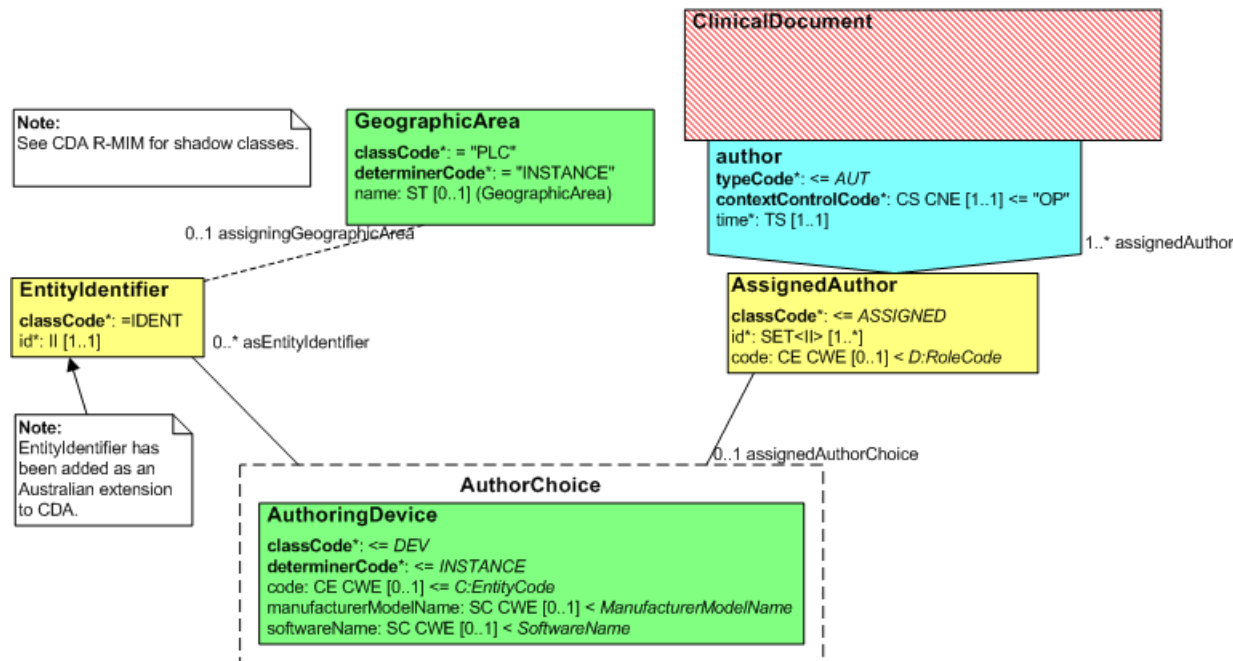


Figure 6.6. DOCUMENT AUTHOR

CDA Mapping



Note

CDA mapping for 'DOCUMENT AUTHOR' when 'DOCUMENT AUTHOR > Participant > Person or Organisation or Device' instantiated as '**DEVICE**'.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements			Context: ClinicalDocument/		
DOCUMENT AUTHOR	Composer of documents.	1..1	author		Document Author SHALL be filled with the Device that authored the document.
DOCUMENT AUTHOR > Participation Period	The time interval during which the participation in the health care event occurred.	1..1	author/time	Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a Document Author participation is the time associated with the completion of editing the content of a document.". Thus only the end time need be recorded.	Required CDA element.
DOCUMENT AUTHOR > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific fixed value equivalent to "Document Author".	Not mapped directly, encompassed implicitly in author/typeCode="AUT" (optional, fixed value).
DOCUMENT AUTHOR > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	author/assignedAuthor/code	Role SHALL have an implementation-specific fixed value equivalent to "Not Applicable".	n/a

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
n/a	n/a	1..1	author/assignedAuthor/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element.
DOCUMENT AUTHOR > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	author/assignedAuthor/assignedAuthoringDevice		
DOCUMENT AUTHOR > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	author/assignedAuthor/assignedAuthoringDevice/Entity Identifier	The value of one Entity Identifier SHALL be a PAI-D.	See common pattern: Entity Identifier .
DOCUMENT AUTHOR > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a DEVICE.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
DOCUMENT AUTHOR > Participant > Person or Organisation or Device > Device	Describes a device or software module of interest to, or involved in, the business of healthcare service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in author/assignedAuthor/assignedAuthoringDevice.
DOCUMENT AUTHOR > Participant > Person or Organisation or Device > Device > Device Name	The full name of the device.	1..1	author/assignedAuthor/assignedAuthoringDevice/softwareName		

Example 6.4. DOCUMENT AUTHOR XML Fragment (DEVICE)

```
<!-- 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 as a Device -->
  <author>
    <!-- DateTime Authored -->
    <time value="20110201235+1000" />
    <assignedAuthor>
      <!-- ID is used for system purposes such as matching -->
      <id root="7FCB0EC4-0CD0-11E0-9DFC-8F50D8572085" />
      <!-- The author code is not applicable -->
      <code nullFlavor="NA"/>
      <!-- Participant -->
      <assignedAuthoringDevice>
        <!-- Device Name -->
        <softwareName>Software Name</softwareName>
        <!-- Entity Identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id assigningAuthorityName="PAI-D" root="1.2.36.1.2001.1007.20.8003640003000026" />
        </ext:asEntityIdentifier>
      </assignedAuthoringDevice>
    </assignedAuthor>
  </author>
  <!-- End Document Author as a Device -->
  ...

  <component>
    <structuredBody>
      ...
    </structuredBody>
  </component>
</ClinicalDocument>
```


6.1.3 ORDER DETAILS

Identification

Name	ORDER DETAILS
Metadata Type	Data Group
Identifier	DG-16997

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	1..1

CDA R-MIM Representation

Figure 6.7 ORDER 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 ORDER DETAILS data group is represented by an Order related to its containing Clinical Document by an inFulfillmentOf relationship. Requester Order Identifier is represented by the id of the Order class.



Figure 6.7. ORDER 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 [HL7 code set registration procedure](#)¹ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Context: ClinicalDocument/					
ORDER DETAILS	Details of order that caused the creation of the document.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.
ORDER DETAILS > REQUESTER	Party that arranges provision of a service.	1..1	<REQUESTER>		<p>The mapping for the Requester of the report does not follow the data hierarchy specified in the SCS. CDA does not allow (without extensions) participations on Order in the header.</p> <p>Receiving systems/applications are required to process "inFulfillmentOf-> Order" and "Requester" details as integral/connected information components.</p>

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
ORDER DETAILS > Requester Order Identifier	The local ID assigned to the order by the order requester.	0..1	inFulfillmentOf		Required CDA element
			inFulfillmentOf/@typeCode="FLFS"		
			inFulfillmentOf/order		
			inFulfillmentOf/order/@classCode="ACT"		
			inFulfillmentOf/order/@moodCode="RQO"		
			inFulfillmentOf/order/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element.
			inFulfillmentOf/order/id/@extension		
			inFulfillmentOf/order/id/@root		
			inFulfillmentOf/order/code	NS	See <code> for available attributes.

Example 6.5. ORDER 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"
  ...
  >

  ...

  <inFulfillmentOf typeCode="FLFS">
    <order classCode="ACT" moodCode="RQO">
      <!-- Requester Order Identifier -->
      <id extension="10523475" root="2.16.840.1.113883.19.4.27"/>
      <code code="26604007"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Complete blood count"/>
    </order>
  </inFulfillmentOf>

  ...

  <component>
    <structuredBody>

      ...

    </structuredBody>
  </component>
</ClinicalDocument>
```

6.1.4 REQUESTER

Identification

Name	REQUESTER
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	1..1

CDA R-MIM Representation

Figure 6.8 REQUESTER 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 REQUESTER data group instantiated as 'PERSON' (Healthcare Provider) 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) and is associated to the associatedPerson.

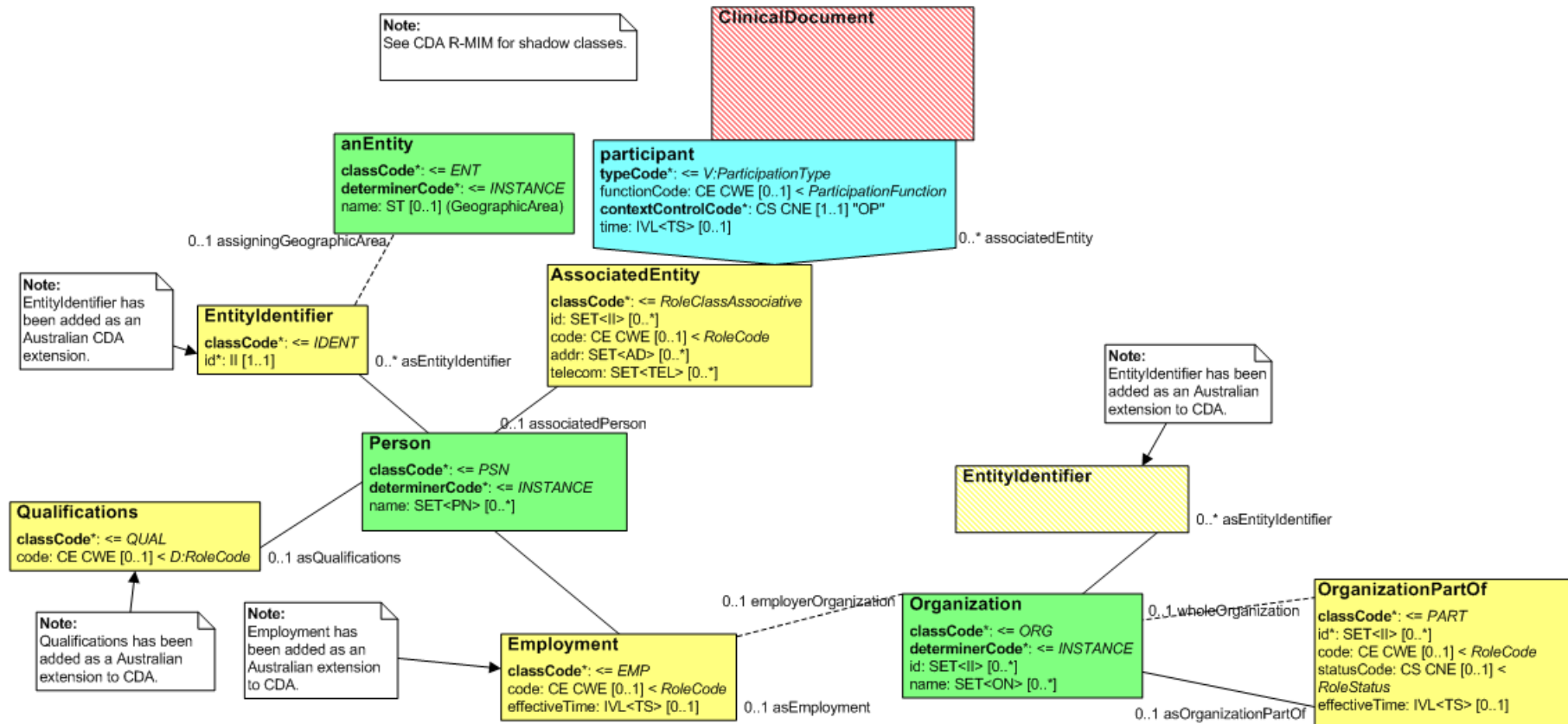


Figure 6.8. REQUESTER

Figure 6.9 REQUESTER - Entitlement 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.

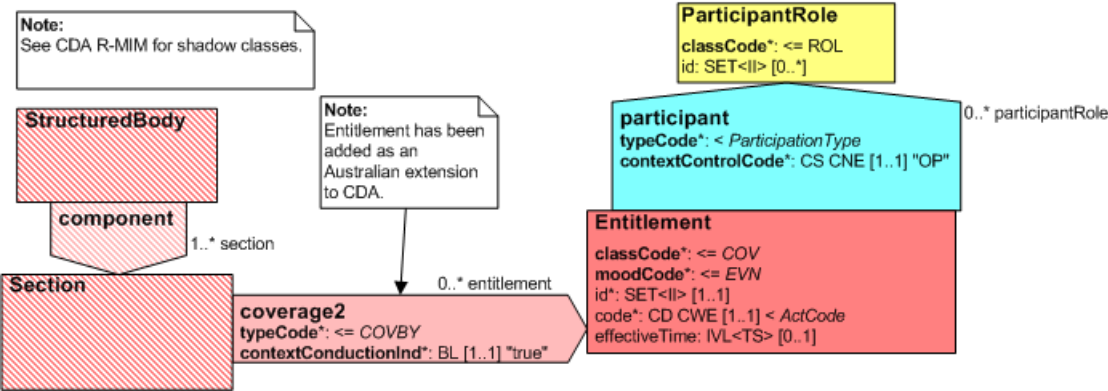


Figure 6.9. REQUESTER - Entitlement

CDA Mapping



Note

CDA mapping for 'REQUESTER' when 'REQUESTER > Participant > Person or Organisation or Device' instantiated as '**PERSON**' (Healthcare Provider).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Context: ClinicalDocument/					
REQUESTER	Party that arranges provision of a service.	1..1	participant		Receiving systems/applications are required to process "inFulfillmentOf-> Order" and "Requester" details as integral/connected information components.
REQUESTER > Participation Period	The time interval during which the participation in the health care event occurred.	1..1	participant/time	Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a [Participant] participation is the time associated with the completion of editing the content..." Thus only the end time need be recorded.	Required CDA element.
REQUESTER > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific fixed value equivalent to "Service Requester".	Not mapped directly, encompassed implicitly in participant@typeCode="REF" (optional, fixed value).

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
n/a	n/a	1..1	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 element.
REQUESTER > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	participant/associatedEntity/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006] . However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publicly available MAY be used.	
REQUESTER > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/associatedEntity/associatedPerson		
REQUESTER > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	participant/associatedEntity/associatedPerson/<Entity Identifier>	The value of one Entity Identifier SHOULD be an Australian HPI-I.	See common pattern: Entity Identifier .
REQUESTER > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1..*	participant/associatedEntity/<Address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.	See common pattern: Address .
REQUESTER > Participant > Electronic Communication Detail	The electronic communication details of entities.	1..*	participant/associatedEntity/<Electronic Communication Detail>		See common pattern: Electronic Communication Detail .

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
REQUESTER > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
REQUESTER > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in participant/associatedEntity/associatedPerson.
REQUESTER > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..1	participant/associatedEntity/associatedPerson/Person Name		See common pattern: Person Name .
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	1..1	participant/associatedEntity/associatedPerson/ext:asEmployment		
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	1..*	participant/associatedEntity/associatedPerson/ext:asEmployment/ext:employerOrganization		There is a known issue in the NEHTA Participation Data Specification [NEHT2011v] for this logical Data Component's cardinality. Furthermore the corresponding CDA elements ext:asEmployment and ext:employerOrganization do not allow the cardinality to be '0..*/multiple. The cardinality SHALL be interpreted as '0..1' instead of '0..*'. See common pattern: Employer Organisation .
			participant/associatedEntity/associatedPerson/ext:asEmployment/@classCode="EMP"		
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	participant/associatedEntity/associatedPerson/ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/Entity Identifier	The value of one Entity Identifier SHOULD be an Australian HPI-O.	See common pattern: Entity Identifier .

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation > Organisation	Any organisation of interest to, or involved in, the business of healthcare service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in assignedAuthor/ext:asEmployment/employerOrganization.
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation > Organisation > Organisation Name	The name by which an organisation is known or called.	1..1	participant/associatedEntity/associatedPerson/ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/ name		
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation > Organisation > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	0..1	participant/associatedEntity/associatedPerson/ext:asEmployment/ext:employerOrganization/ name		
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employer Organisation > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	0..1	participant/associatedEntity/associatedPerson/ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/name/ @use	AS 4846-2006: Health Care Provider Organisation Name Usage	
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Employment Type	The basis on which the person is employed by the employer organisation.	0..1	participant/associatedEntity/associatedPerson/ext:asEmployment/ ext:jobClassCode	NS	
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Occupation	A descriptor of the class of job based on similarities in the tasks undertaken.	0..*	participant/associatedEntity/associatedPerson/ext:asEmployment/ ext:jobCode	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006]	The corresponding CDA element ext:jobCode doesn't allow the cardinality to be '0..*/multiple. The cardinality SHALL be interpreted as '0..1' instead of '0..*'.
REQUESTER > Participant > Person or Organisation or Device > Person > Employment Detail > Position In Organisation	A descriptor of the job or the job role based on the management hierarchy of the organisation.	0..1	participant/associatedEntity/associatedPerson/ext:asEmployment/ ext:code	NS	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section/		
REQUESTER > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="HLD"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="ASSIGNED"		
			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.	This SHALL hold the same value as participant/associatedEntity/id.
REQUESTER > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		See <id> for available attributes.
REQUESTER > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	
REQUESTER > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for available attributes.
CDA Header Data Elements			Context: ClinicalDocument/		
REQUESTER > Participant > Qualifications	A list of professional certifications, and certificates recognising having passed a course.	0..1	participant/associatedEntity/associatedPerson/ext:asQualifications		See Australian CDA extension: Qualifications .
			participant/associatedEntity/associatedPerson/@classCode="QUAL"		
			participant/associatedEntity/associatedPerson/ext:asQualifications/ext:code/originalText	Qualifications is a text field, so the text list is entered in the originalText field of the code element.	

Example 6.6. Requester 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 REQUESTER -->
  <participant typeCode="REF">
    <time value="201308071639+1000"/>
    <associatedEntity classCode="ASSIGNED">
      <id root="3ee928c0-4100-11e3-aa6e-0800200c9a66" />
      <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" />
      <addr use="WP">
        <streetAddressLine>19 Park Tce</streetAddressLine>
        <city>Canberra</city>
        <state>ACT</state>
        <postalCode>2600</postalCode>
      </addr>
      <telecom use="WP" value="tel:0422222222" />
      <telecom use="WP" value="mailto:annasmith@internetprovider.com.au" />
      <associatedPerson>

        <!-- Person Name -->
        <name>
          <prefix>Dr.</prefix>
          <given>Anna</given>
          <family>SMITH</family>
        </name>

        <!-- Entity Identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id assigningAuthorityName="HPI-I"
            root="1.2.36.1.2001.1003.0.8003610200002355" />
          <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"
            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" displayName="full-time" />
<!-- Employer Organisation -->
<ext:employerOrganization>
  <!-- Department/Unit -->
  <name>GP Clinic</name>
  <asOrganizationPartOf>
    <wholeOrganization>
      <!-- Organisation Name -->
      <name use="ORGB">GP Group</name>
      <!-- Entity Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-0"
          root="1.2.36.1.2001.1003.0.8003621231166549" />
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </wholeOrganization>
  </asOrganizationPartOf>
</ext:employerOrganization>
</ext:asEmployment>

<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>M.B.B.S</originalText>
  </ext:code>
</ext:asQualifications>

</associatedPerson>
</associatedEntity>
</participant>
<!-- End REQUESTER -->
...

<!-- End CDA Header -->

<!-- Begin CDA Body -->
<component>
  <structuredBody>
    ...
    <!-- Begin Section Administrative Observations -->
    <component>
      <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"/>
        ...
        <text>
          <table>
            <tbody>
              <tr>
                <th>Australian Medicare Prescriber Number</th>
                <td>1234567</td>
              </tr>
            </tbody>
          </table>
        </text>

        <!-- Begin REQUESTER Entitlement -->
        <ext:coverage2 typeCode="COVBY">
          <ext:entitlement classCode="COV" moodCode="EVN">

```



```
<ext:id assigningAuthorityName="Medicare Prescriber Number"
      extension="1234567" root="1.2.36.174030967.0.3"/>
<ext:code code="10" codeSystem="1.2.36.1.2001.1001.101.104.16047"
      codeSystemName="NCTIS Entitlement Type Values"
      displayName="Medicare Prescriber Number"/>
<ext:effectiveTime>
  <low value="20050101"/>
  <high value="20250101"/>
</ext:effectiveTime>
<ext:participant typeCode="RESP">
  <ext:participantRole classCode="ASSIGNED">
    <ext:id root="3ee928c0-4100-11e3-aa6e-0800200c9a66"/>
  </ext:participantRole>
</ext:participant>
</ext:entitlement>
</ext:coverage2>
<!-- End REQUESTER Entitlement -->
...
</section>
</component>
<!-- End Section Administrative Observations -->
...
</structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```


7 Content Data Specification - CDA Mapping



7.1 PATHOLOGY RESULT REPORT

Identification

Name	PATHOLOGY RESULT REPORT
Metadata Type	Structured Document
Identifier	SD-32001

Relationships

Children

Data Type	Name	Occurrence
	PATHOLOGY	1..1
	Authority to Post (DOCUMENT USE AUTHORISATION)	0..1

CDA R-MIM Representation

Figure 7.1 Pathology Result Report 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 Result Report 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.

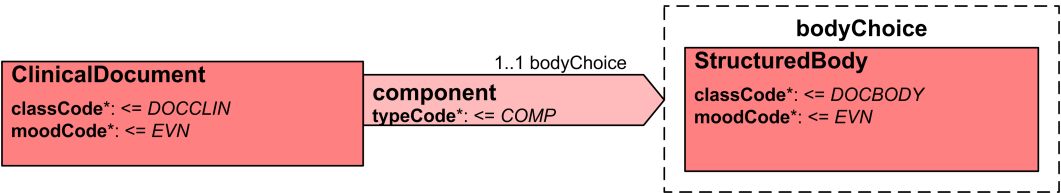


Figure 7.1. Pathology Result Report

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Pathology Result Report	A set of one or more results of pathology tests and associated interpretation.	1..1	ClinicalDocument		
CDA Body Level 2 Data Elements					
Pathology Result Report (Body)	See above.	1..1	ClinicalDocument/component/structuredBody		

Example 7.1. Pathology Result Report 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 PATHOLOGY

Identification




Name	PATHOLOGY
Metadata Type	Section
Identifier	S-20018

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	1..1

Children

Data Type	Name	Occurrence
	REPORTING PATHOLOGIST	1..1
	PATHOLOGY TEST RESULT	1..*
	RELATED DOCUMENT	1..1

CDA R-MIM Representation

Figure 7.2 PATHOLOGY 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 section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

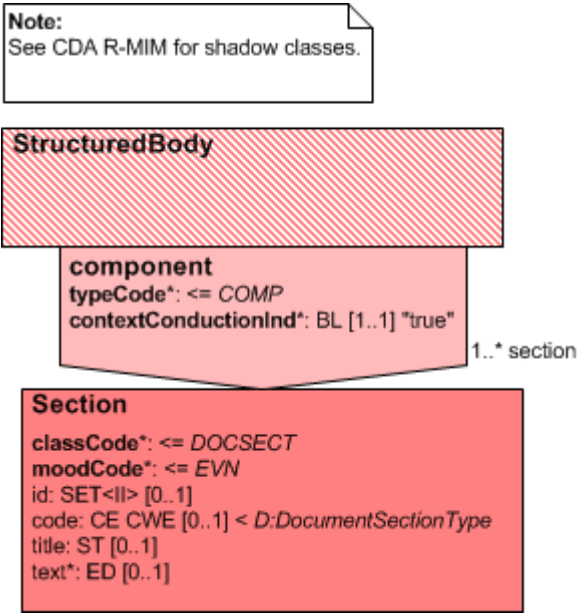


Figure 7.2. PATHOLOGY

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/		
PATHOLOGY	Group of pathology test results concerning a subject of care and supporting information.	1..1	component[pathology]/section		
			component[pathology]/section/@classCode="DOCSECT"		
			component[pathology]/section/@moodCode="EVN"		
			component[pathology]/section/title="Pathology"		
			component[pathology]/section/text		See Appendix A, CDA Narratives .
PATHOLOGY > Pathology Section Instance Identifier (Pathology Instance Identifier)	A globally unique identifier for each instance of a Pathology section.	1..1	component[pathology]/section/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.
PATHOLOGY > Section Type	NEHTA OID for type of Section.	1..1	component[pathology]/section/code		
			component[pathology]/section/code/@code="101.20018"		
			component[pathology]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[pathology]/section/code/@codeSystemName="NCTIS Data Components"		
			component[pathology]/section/code/@displayName="Pathology"		
PATHOLOGY > REPORTING PATHOLOGIST	Pathologist who is responsible for the pathology test result.	1..1	See: REPORTING PATHOLOGIST		
PATHOLOGY > PATHOLOGY TEST RESULT	Findings and interpretation of pathology tests performed on one or more specimens obtained from a person or environment.	1..*	See: PATHOLOGY TEST RESULT		
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/		
PATHOLOGY > RELATED DOCUMENT	Information about a document of interest.	1..1	See: RELATED DOCUMENT		

Example 7.2. PATHOLOGY 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 PATHOLOGY -->
      <component typeCode="COMP">
        <section classCode="DOCSECT" moodCode="EVN">
          <!-- Pathology Instance Identifier -->
          <id root="50846572-EFC7-11E0-8337-65094924019B" />
          <!-- Section Type -->
          <code code="101.20018" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="PATHOLOGY"/>
          <title>Pathology</title>

          <!--Narrative text start-->
          <!-- Note: DO NOT duplicate the content as narrative XML if the entire content is expressed as a PDF attachment. -->
          <!-- If narrative text has been provided, the attachments shall be the content that are part of the clinical content. Ex. XRay image files -->
          <text>Narrative Text
            <content>
              <linkHtml href="pcehr:1.2.36.1.2001.1007.10.8003640002000001/2.25.138657451588237770141070928117650397714" ID="link">PCEHR Pathology Report</linkHtml>
            </content>
          </text>
          <!--Narrative text end-->

          <!-- Begin PATHOLOGY TEST RESULT -->
          ...
          <!-- End PATHOLOGY TEST RESULT -->

          <!-- Begin REPORTING PATHOLOGIST -->
          ...
          <!-- End REPORTING PATHOLOGIST -->

          <!-- Begin RELATED DOCUMENT -->
          ...
          <!-- End RELATED DOCUMENT -->

        </section>
      </component>
      <!-- End PATHOLOGY -->

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

```

</ClinicalDocument>


7.1.1.1 PATHOLOGY TEST RESULT

Identification


Name	PATHOLOGY TEST RESULT
Metadata Type	Data Group
Identifier	DG-16144

Relationships

Parent

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

Children

Data Type	Name	Occurrence
	Test Specimen Detail (SPECIMEN)	1..1

CDA R-MIM Representation

Figure 7.3 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 represented by an Observation related to its containing section by an entry relationship. Data group elements are represented by further Observations related to the containing Observation by entryRelationship relationships.

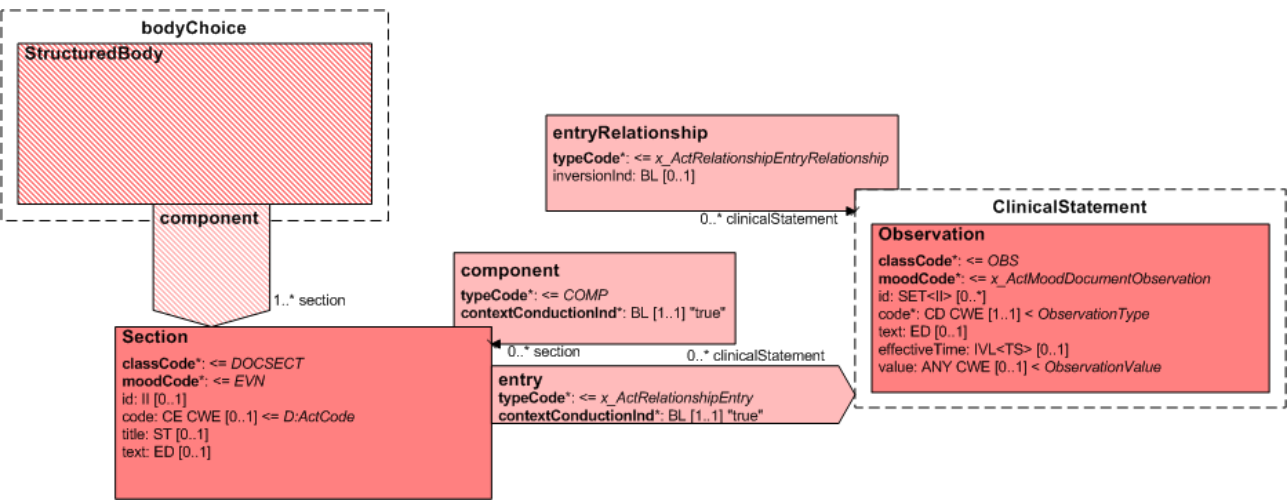


Figure 7.3. PATHOLOGY TEST RESULT

CDA Mapping



Note

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

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/		
PATHOLOGY TEST RESULT	Findings and interpretation of pathology tests performed on one or more specimens obtained from a person or environment.	1..*	component[path_test]/section		
			component[path_test]/section/@classCode="DOCSECT"		
			component[path_test]/section/@moodCode="EVN"		
			component[path_test]/section/title="Pathology Test Result"		
			component[path_test]/section/text		See Appendix A, CDA Narratives
PATHOLOGY TEST RESULT > Pathology Test Result Instance Identifier	A globally unique identifier for each instance of a Pathology Test Result observation.	1..1	component[path_test]/section/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.
PATHOLOGY TEST RESULT > Detailed Clinical Model Identifier	The NEHTA OID for the concept represented by this Detailed Clinical Model.	1..1	component[path_test]/section/code		
			component[path_test]/section/code/@code="102.16144"		
			component[path_test]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[path_test]/section/code/@codeSystemName="NCTIS Data Components"		
			component[path_test]/section/code/@displayName="Pathology Test Result"		

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/component[path_test]/section/		
PATHOLOGY TEST RESULT > Test Result Name (Pathology Test Result Name)	Identification of the pathology test performed, sometimes including specimen type.	1..1	entry[path_test_res]/observation		
			entry[path_test_res]/observation/@classCode="OBS"		
			entry[path_test_res]/observation/@moodCode="EVN"		
			entry[path_test_res]/observation/code:CD	NS	See <code> for available attributes.
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/component[path_test]/section/entry[path_test_res]/observation/		
PATHOLOGY TEST RESULT > Department Code (Diagnostic Service)	The diagnostic service that performs the examination.	1..1	entryRelationship[diag_serv]/@typeCode="COMP"		
			entryRelationship[diag_serv]/observation		
			entryRelationship[diag_serv]/observation/@classCode="OBS"		
			entryRelationship[diag_serv]/observation/@moodCode="EVN"		
			entryRelationship[diag_serv]/observation/code		
			entryRelationship[diag_serv]/observation/code/@code="310074003"		
			entryRelationship[diag_serv]/observation/code/@codeSystem="2.16.840.1.113883.6.96"		
			entryRelationship[diag_serv]/observation/code/@codeSystemName="SNOMED CT-AU"		
			entryRelationship[diag_serv]/observation/code/@displayName="pathology service"		
			entryRelationship[diag_serv]/observation/value:CD	HL7 V3: Diagnostic Service Section ID	See <code> for available attributes.
			entryRelationship[diag_serv]/observation/value/@code		
			entryRelationship[diag_serv]/observation/value/@codeSystem="2.16.840.1.113883.12.74"		
			entryRelationship[diag_serv]/observation/value/@codeSystemName="HL7 Diagnostic service section ID"		
			entryRelationship[diag_serv]/observation/value/@displayName		
PATHOLOGY TEST RESULT > Test Specimen Detail (SPECIMEN)	Details about specimens to which this test result refers.	1..1	See: Test Specimen Detail (SPECIMEN)		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
PATHOLOGY TEST RESULT > Observation DateTime	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.	1..1	entryRelationship[tst_date]/@typeCode="COMP"		
			entryRelationship[tst_date]/observation		
			entryRelationship[tst_date]/observation/@classCode="OBS"		
			entryRelationship[tst_date]/observation/@moodCode="EVN"		
			entryRelationship[tst_date]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	See <id> for available attributes.
			entryRelationship[tst_date]/observation/code		Observation DateTime is mapped to Pathology Test Result DateTime and retains the original oid and displayName of that concept for backwards compatability.
			entryRelationship[tst_date]/observation/code/@code="103.16605"		
			entryRelationship[tst_date]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[tst_date]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[tst_date]/observation/code/@displayName="Pathology Test Result DateTime"		This element will hold the same value as Test Specimen Detail (SPECIMEN) > HANDLING AND PROCESSING > Collection DateTime (entryRelationship[specimen]/observation/effectiveTime)
			entryRelationship[tst_date]/observation/effectiveTime		

Example 7.3. 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>

    <!-- Begin PATHOLOGY -->
    <component>
      <section>
        ...

        <!-- Begin PATHOLOGY TEST RESULT -->
        <component>
          <section classCode="DOCSECT" moodCode="EVN">
            <!-- Pathology Test Result Instance Identifier -->
            <id root="CCF0D55C-EFD0-11DF-BEA2-A6CCDFD72085"/>
            <!-- Detailed Clinical Model Identifier -->
            <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>
              <table>
                <thead>
                  <tr>
                    <th>Test</th>
                    <th>DateTime</th>
                  </tr>
                </thead>
                <tbody>
                  <tr>
                    <td>Serum Creatinine</td>
                    <td>12/02/2013</td>
                  </tr>
                </tbody>
              </table>
            </text>

            <entry>
              <observation classCode="OBS" moodCode="EVN">

                <!-- Begin Test Result Name (Pathology Test Result Name) -->
                <code code="275711006" codeSystem="2.16.840.1.113883.6.96"
                  codeSystemName="SNOMED CT-AU" codeSystemVersion="20110531"
                  displayName="Serum Chemistry Test" xsi:type="CD"/>
                <!-- End Test Result Name (Pathology Test Result Name) -->
              </observation>
            </entry>
          </section>
        </component>
      </section>
    </component>
  </structuredBody>
</component>
</CDA Body -->
</ClinicalDocument>
```

```
<!-- Begin Department Code (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"
      displayName="pathology service" />
    <value code="CH"
      codeSystem="2.16.840.1.113883.12.74"
      codeSystemName="HL7 Diagnostic service section ID"
      displayName="Chemistry"
      xsi:type="CD" />
  </observation>
</entryRelationship>
<!-- End Department Code (Diagnostic Service) -->

<!-- Begin Test Specimen Detail -->
...
<!-- End Test Specimen Detail -->

<!-- Begin Observation DateTime -->
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <!-- ID is used for system purposes such as matching -->
    <id root="CCFD055C-EFD0-11DF-BEA2-A6CCDFD72085"/>
    <code code="103.16605"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Pathology Test Result DateTime"/>
    <effectiveTime value="201310201235+1000"/>
    <effectiveTime value="201310201235+1000"/>
  </observation>
</entryRelationship>
<!-- End Pathology Test Result DateTime -->

  </observation>
</entry>
</section>
</component>
<!-- End PATHOLOGY TEST RESULT -->

</section>
</component>
<!-- End PATHOLOGY -->

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


7.1.1.1.1 Test Specimen Detail (SPECIMEN)

Identification

Name	Test Specimen Detail (SPECIMEN)
Metadata Type	Data Group
Identifier	DG-16156

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY TEST RESULT	1..1

CDA R-MIM Representation

Figure 7.4 Test Specimen Detail (SPECIMEN) 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 Test Specimen Detail data group is represented by an Observation related to its containing section by an entry relationship. The Collection DateTime is represented by the effectiveTime. The Specimen Identifier is represented by the SpecimenRole.id that is related to the Observation by a specimen relationship.

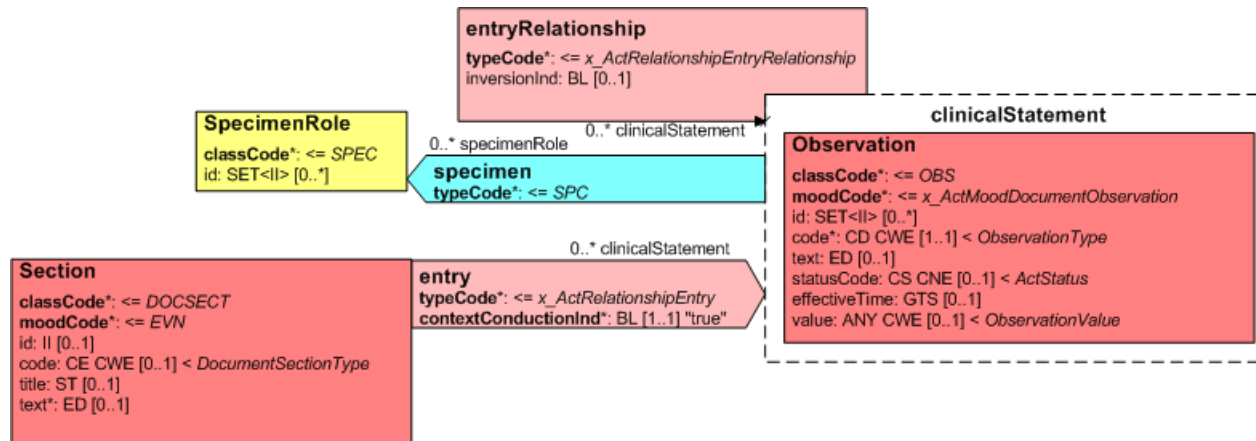


Figure 7.4. Test Specimen Detail (SPECIMEN)

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/component[path_test]/section/entry[path_test_res]/observation/		
Test Specimen Detail (SPECIMEN)	Details about specimens to which this test result refers.	1..1	entryRelationship[specimen]/@typeCode="SUBJ"		
			entryRelationship[specimen]/observation		
			entryRelationship[specimen]/observation/@classCode="OBS"		
			entryRelationship[specimen]/observation/@moodCode="EVN"		
			entryRelationship[specimen]/observation/code		
			entryRelationship[specimen]/observation/code/@code="102.16156"		
			entryRelationship[specimen]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entryRelationship[specimen]/observation/code/@codeSystemName="NCTIS Data Components"		
			entryRelationship[specimen]/observation/code/@displayName="Specimen"		
Test Specimen Detail (SPECIMEN) > HANDLING AND PROCESSING	Workflow of specimen processing or handling.	1..1	N/A		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Test Specimen Detail (SPECIMEN) > HANDLING AND PROCESSING > Collection DateTime	Date and time of collection.	1..1	entryRelationship[specimen]/observation/effectiveTime		See <time> for available attributes.
Test Specimen Detail (SPECIMEN) > IDENTIFIERS	Sample identifications.	1..1	N/A		This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
Test Specimen Detail (SPECIMEN) > IDENTIFIERS > Specimen Identifier	Unique identifier of the specimen, normally assigned by the laboratory.	1..1	entryRelationship[specimen]/observation/specimen/specimenRole/id		See <id> for available attributes.

Example 7.4. Test Specimen Detail (SPECIMEN) 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 -->
...
<!-- End CDA Header -->
<!-- Begin CDA Body -->
<component>
  <structuredBody>
    ...
    <!-- Begin PATHOLOGY -->
    <component typeCode="COMP">
      <section classCode="DOCSECT" moodCode="EVN">
        ...
        <!-- Begin PATHOLOGY TEST RESULT -->
        <component>
          <section classCode="DOCSECT" moodCode="EVN">
            ...
            <entry>
              <observation classCode="OBS" moodCode="EVN">
                ...
                <!-- Begin Test Specimen Detail -->
                <entryRelationship typeCode="SUBJ">
                  <observation classCode="OBS" moodCode="EVN">
                    <code code="102.16156"
                      codeSystem="1.2.36.1.2001.1001.101"
                      codeSystemName="NCTIS Data Components"
                      displayName="Specimen" />

                    <!-- Collection DateTime -->
                    <effectiveTime value="201310201235+1000" />

                    <!-- Begin Specimen Identifier -->
                    <specimen>
                      <specimenRole>
                        <id root="1.2.3456.123" />
                      </specimenRole>
                    </specimen>
                    <!--End Specimen Identifier -->
                  </observation>
                </entryRelationship>
              <!-- End Test Specimen Detail -->
            ...
          </observation>
        </entry>
      </section>
```

```

        </component>
        <!-- End PATHOLOGY TEST RESULT -->
    </section>
</component>
<!-- End PATHOLOGY -->
...
</structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```


7.1.1.2 REPORTING PATHOLOGIST

Identification

Name	REPORTING PATHOLOGIST
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

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

CDA R-MIM Representation

Figure 7.5 REPORTING PATHOLOGIST 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 REPORTING PATHOLOGIST data group instantiated as 'PERSON' is represented by the author participation of the AssignedAuthor Person relationship. The entity identifier of the participant is mapped to the EntityIdentifier class (Australian CDA Extension).

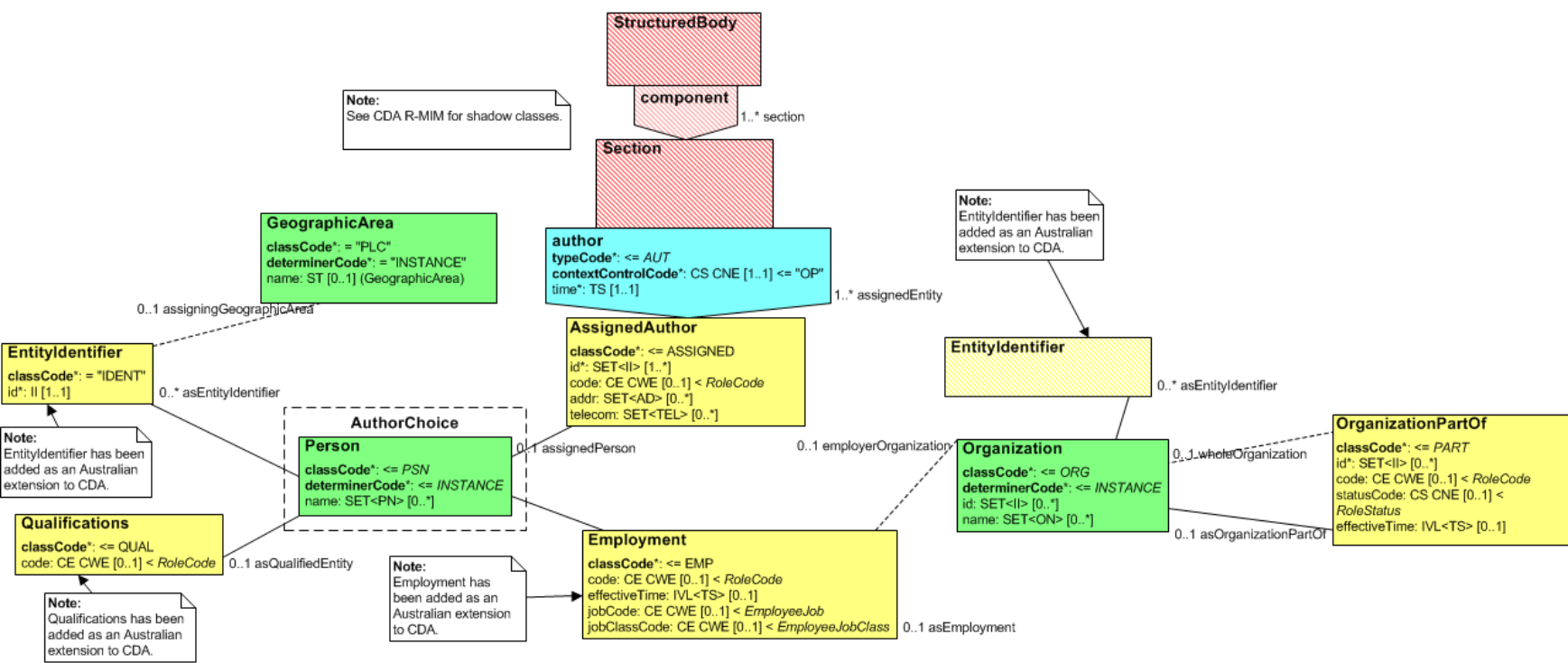


Figure 7.5. REPORTING PATHOLOGIST

Figure 7.6 REPORTING PATHOLOGIST - Entitlement 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.

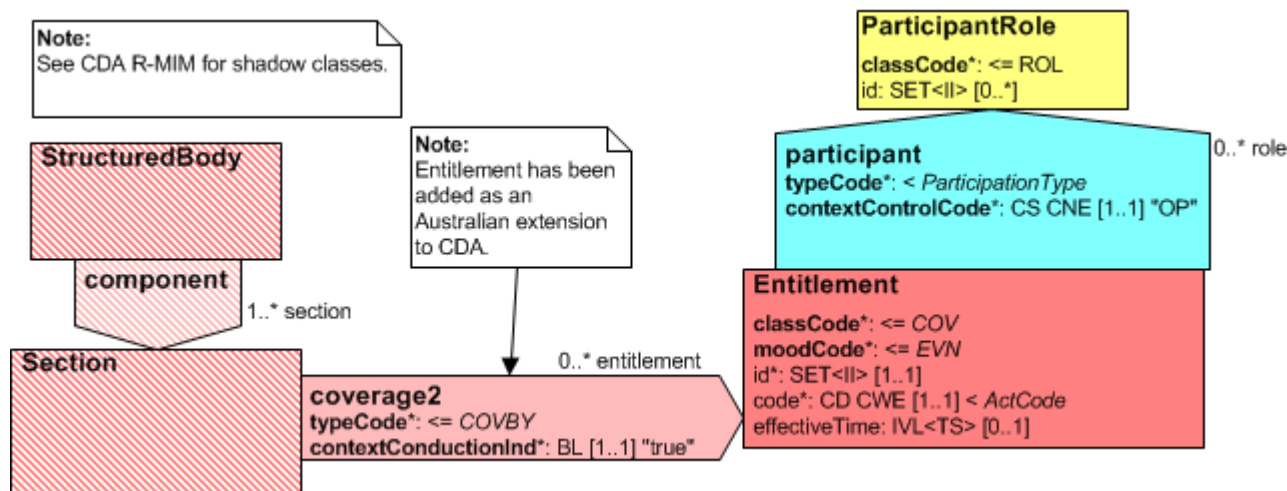


Figure 7.6. REPORTING PATHOLOGIST - Entitlement

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements		Context: ClinicalDocument/component/structuredBody/component[pathology]/section/			
REPORTING PATHOLOGIST	Pathologist who is responsible for the report.	1..1	author		
REPORTING PATHOLOGIST > Participation Period	The time interval during which the participation in the health care event occurred.	1..1	author/ time	Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a [Author] participation is the time associated with the completion of editing the content..." Thus only the end time need be recorded.	Required CDA element.
REPORTING PATHOLOGIST > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific value equivalent to "Reporting Pathologist".	Not mapped directly, encompassed implicitly in author/ @typeCode = "AUT" (optional, fixed value).
n/a	n/a	1..1	author/ assignedAuthor/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
REPORTING PATHOLOGIST > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	author/assignedAuthor/ code	Role SHOULD have a value chosen from <i>1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006]</i> . However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publicly available MAY be used.	
REPORTING PATHOLOGIST > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	author/assignedAuthor/ assignedPerson		
REPORTING PATHOLOGIST > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	author/assignedAuthor/assignedPerson/Entity Identifier	The value of one Entity Identifier SHALL be an Australian HPI-I.	See common pattern: Entity Identifier .
REPORTING PATHOLOGIST > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	1..*	author/assignedAuthor/Address	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.	See common pattern: Address .
REPORTING PATHOLOGIST > Participant > Electronic Communication Detail	The electronic communication details of entities.	1..*	author/assignedAuthor/Electronic Communication Detail		See common pattern: Electronic Communication Detail .
REPORTING PATHOLOGIST > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
REPORTING PATHOLOGIST > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in author/assignedAuthor/assignedPerson.
REPORTING PATHOLOGIST > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..1	author/assignedAuthor/assignedPerson/Person Name		See common pattern: Person Name .

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
REPORTING PATHOLOGIST > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	1..1	author/assignedAuthor/assignedPerson/employment		See common pattern: Employment .
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/		
REPORTING PATHOLOGIST > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="HLD"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="ASSIGNED"		
			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.	This SHALL hold the same value as author/assignedAuthor/id.
REPORTING PATHOLOGIST > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		See <id> for available attributes.
REPORTING PATHOLOGIST > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	
REPORTING PATHOLOGIST > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for available attributes.
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/		
REPORTING PATHOLOGIST > Participant > Qualifications	A list of professional certifications, and certificates recognising having passed a course.	0..1	author/assignedAuthor/assignedPerson/ext:asQualifications		See Australian CDA extension: Qualifications .
			author/assignedAuthor/assignedPerson/ext:asQualifications/@classCode="QUAL"		
			author/assignedAuthor/assignedPerson/ext:asQualifications/ext:code/originalText	Qualifications is a text field, so the text list is entered in the original-Text field of the code element.	

Example 7.5. REPORTING PATHOLOGIST 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 PATHOLOGY -->
      <component>
        <section>
          ...
          <text>
            <table>
              <tbody>
                <tr>
                  <th>Australian Medicare Prescriber Number</th>
                  <td>1234567</td>
                </tr>
              </tbody>
            </table>
          </text>

          <!-- Begin Reporting Pathologist Entitlement -->
          <ext:coverage2 typeCode="COVBY">
            <ext:entitlement classCode="COV" moodCode="EVN">
              <ext:id root="1.2.36.174030967.0.3" extension="1234567"
                assigningAuthorityName="Medicare Prescriber Number"/>
              <ext:code code="10" codeSystem="1.2.36.1.2001.1001.104.16047"
                codeSystemName="NCTIS Entitlement Type Values"
                displayName="Medicare Prescriber Number"/>
              <ext:effectiveTime>
                <low value="20050101"/>
                <high value="20250101"/>
              </ext:effectiveTime>
              <ext:participant typeCode="HLD">
                <ext:participantRole classCode="ASSIGNED">
                  <!-- Same as the prescriber (assignedAuthor) id -->
                  <ext:id root="7FCB0EC4-0CD0-11E0-9DFC-8F50DFD72085"/>
                  </ext:participantRole>
                </ext:participant>
              </ext:entitlement>
            </ext:coverage2>
          <!-- End Reporting Pathologist Entitlement -->
          ...

          <!-- Begin REPORTING PATHOLOGIST -->
          <author>
            <!-- DateTime Authored -->

```

```
<time value="201110201235+1000" />

<assignedAuthor>
  <!-- ID is used for system purposes such as matching -->
  <id root="7FCB0EC4-0CD0-11E0-9DFC-8F50DFD72085" />

  <!-- Role -->
  <code code="253915" codeSystem="2.16.840.1.113883.13.62"
    codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
    displayName="Pathologist" />

  <!-- Address -->
  <addr use="WP">
    <streetAddressLine>8 Pathology Street</streetAddressLine>
    <city>Nehtaville</city>
    <state>QLD</state>
    <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
  </addr>

  <!-- Electronic Communication Detail -->
  <telecom use="WP" value="tel:0712341234" />

  <!-- Participant -->
  <assignedPerson>

    <!-- Person Name -->
    <name>
      <prefix>Dr</prefix>
      <given>Sean</given>
      <family>Grady</family>
    </name>

    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003619900015717"/>
      <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>Pathologist</originalText>
      </ext:code>

      <!-- Occupation -->
      <ext:jobCode code="253915" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006"
        displayName="Pathologist" />

      <!-- Employment Type -->
      <ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059" codeSystemName="HL7:EmployeeJobClass" 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-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</wholeOrganization>
</asOrganizationPartOf>
</ext:employerOrganization>
</ext:asEmployment>

<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>M.B.B.S</originalText>
  </ext:code>
</ext:asQualifications>

</assignedPerson>
</assignedAuthor>
</author>
<!-- End REPORTING PATHOLOGIST -->
...
</section>
</component>
<!-- End PATHOLOGY -->

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

</ClinicalDocument>
```



7.1.1.3 RELATED DOCUMENT

Identification

Name	RELATED DOCUMENT
Metadata Type	Data Group
Identifier	DG-16971

Relationships

Parent

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

CDA R-MIM Representation

Figure 7.7 RELATED DOCUMENT 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 RELATED DOCUMENT data group is represented by an Act class related to its containing section by an entry relationship. Document Target is modelled as an external-Document relating to the containing act by a reference relationship (representing Link Nature). The id of the externalDocument represents Report Identifier. Report Status is modelled as Observation class related to the containing act by an entryRelationship. Report Name is modelled as an Act class related to the containing act by an entryRelationship.

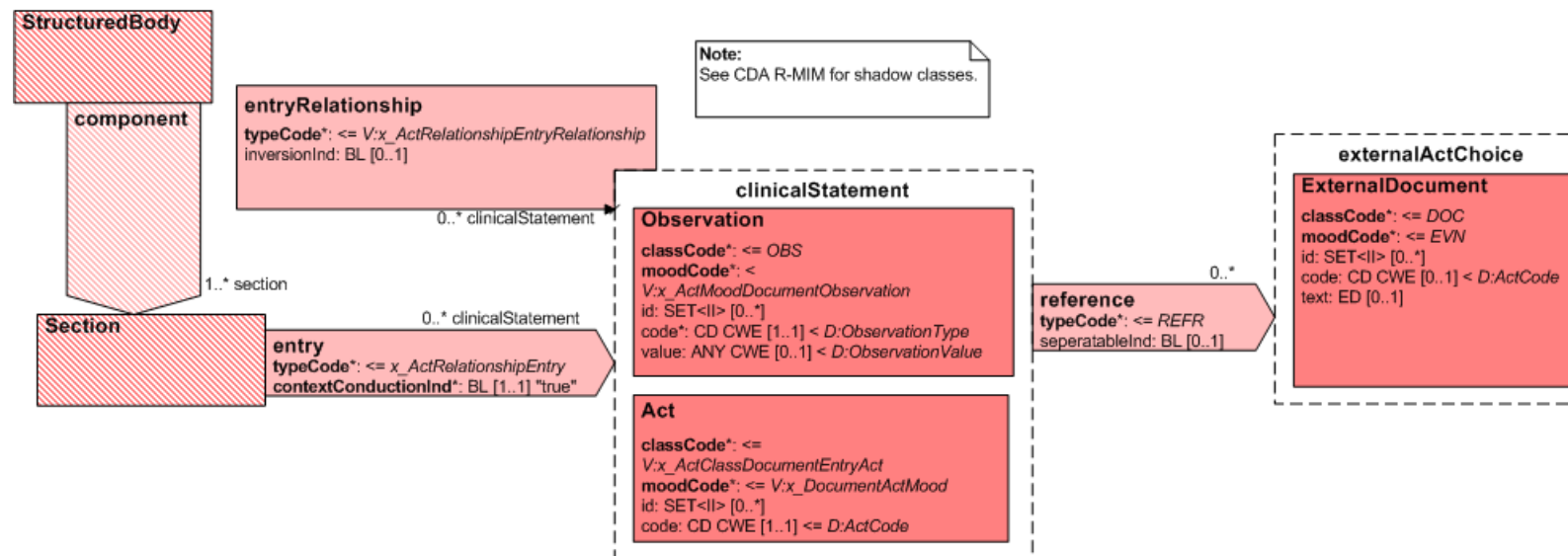


Figure 7.7. RELATED DOCUMENT

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pathology]/section/		
RELATED DOCUMENT	Information about a document of interest.	1..1	entry[doc_detail]/@typeCode="COMP"		
			entry[doc_detail]/act		
			entry[doc_detail]/act/@classCode="ACT"		
			entry[doc_detail]/act/@moodCode="EVN"		
			entry[doc_detail]/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.
			entry[doc_detail]/act/code		
			entry[doc_detail]/act/code/@code="102.16971"		
			entry[doc_detail]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[doc_detail]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[doc_detail]/act/code/@displayName="Related Document"		
RELATED DOCUMENT > Link Nature	The general semantic category of the relationship between this instance of this Detailed Clinical Model (DCM), i.e. the source, and the target DCM instance or target document.	1..1	entry[doc_detail]/act/reference[document]		LINK-E0 ("is a related documentation") is mapped to typeCode="REFR".
			entry[doc_detail]/act/reference[document]/seperatableInd/@value="true"		
			entry[doc_detail]/act/reference[document]/@typeCode="REFR"		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
RELATED DOCUMENT > Test Result Representation (Document Target)	The logical to object in the link relation.	1..1	entry[doc_detail]/act/reference[document]/externalDocument		
			entry[doc_detail]/act/reference[document]/externalDocument/@classCode="DOC"		
			entry[doc_detail]/act/reference[document]/externalDocument/@moodCode="EVN"		
			entry[doc_detail]/act/reference[document]/externalDocument/text:ED		
			entry[doc_detail]/act/reference[document]/externalDocument/text/@mediaType		The file SHALL be one of the following formats: <ul style="list-style-type: none"> • GIF (image/gif) • JPEG (image/jpg, image/jpeg) • PDF (application/pdf) • PNG (image/png) • TIFF (image/tif, image/tiff)
			entry[doc_detail]/act/reference[document]/externalDocument/text/@integrityCheck		
			entry[doc_detail]/act/reference[document]/externalDocument/text/reference		
			entry[doc_detail]/act/reference[document]/externalDocument/text/reference/@value		
RELATED DOCUMENT > DOCUMENT PROVENANCE	Information about a document of interest at a specific point-in-time.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.
RELATED DOCUMENT > DOCUMENT PROVENANCE > Document Type	Type of the document of interest.	1..1	entry[doc_detail]/act/reference[document]/externalDocument/code		
			entry[doc_detail]/act/reference[document]/externalDocument/code/@code="11526-1"		
			entry[doc_detail]/act/reference[document]/externalDocument/code/@codeSystem="2.16.840.1.113883.6.1"		
			entry[doc_detail]/act/reference[document]/externalDocument/code/@codeSystemName="LOINC"		
			entry[doc_detail]/act/reference[document]/externalDocument/code/@displayName="Pathology study"		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
RELATED DOCUMENT > DOCUMENT PROVENANCE > Report Name (Document Title)	Title of the document of interest.	1..1	entry[doc_detail]/act/entryRelationship[title]/@typeCode="COMP"		
			entry[doc_detail]/act/entryRelationship[title]/act		
			entry[doc_detail]/act/entryRelationship[title]/act/@classCode="ACT"		
			entry[doc_detail]/act/entryRelationship[title]/act/t@moodCode="EVN"		
			entry[doc_detail]/act/entryRelationship[title]/act/code		
			entry[doc_detail]/act/entryRelationship[title]/act/code/@code="103.16966"		
			entry[doc_detail]/act/entryRelationship[title]/act/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[doc_detail]/act/entryRelationship[title]/act/code/@codeSystemName="NCTIS Data Components"		
			entry[doc_detail]/act/entryRelationship[title]/act/code/@displayName="Document Title"		
			entry[doc_detail]/act/entryRelationship[title]/act/text:ST		
RELATED DOCUMENT > DOCUMENT PROVENANCE > Report Identifier (Document Identifier)	Unique identifier of the document of interest.	1..1	entry[doc_detail]/act/reference[document]/externalDocument/id		The unique identifier of the target document. See common pattern: id .
RELATED DOCUMENT > DOCUMENT PROVENANCE > Report Status (Document Status)	Status of the document of interest.	1..1	entry[doc_detail]/act/entryRelationship[status]/@typeCode="COMP"		
			entry[doc_detail]/act/entryRelationship[status]/observation		
			entry[doc_detail]/act/entryRelationship[status]/observation/@classCode="OBS"		
			entry[doc_detail]/act/entryRelationship[status]/observation/@moodCode="EVN"		
			entry[doc_detail]/act/entryRelationship[status]/observation/code		
			entry[doc_detail]/act/entryRelationship[status]/observation/code/@code="103.20104"		
			entry[doc_detail]/act/entryRelationship[status]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry[doc_detail]/act/entryRelationship[status]/observation/code/@codeSystemName="NCTIS Data Components"		
			entry[doc_detail]/act/entryRelationship[status]/observation/code/@displayName="Document Status"		
			entry[doc_detail]/act/entryRelationship[status]/observation/value:CD	NCTIS: Admin Codes - Result Status	See <code> for available attributes.

Example 7.6. RELATED DOCUMENT 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 PATHOLOGY -->
      <component typeCode="COMP">
        <section classCode="DOCSECT" moodCode="EVN">
          ...
          <text>
            <paragraph>
              <linkHtml href="attachment.pdf">Attached Report</linkHtml>
            </paragraph>
          </text>

          <!-- Begin RELATED DOCUMENT -->
          <entry typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
              <!-- Technical Identifier to uniquely identify this act -->
              <id root="31c45290-2883-11e2-81c1-0800000c9a67"/>
              <code code="102.16971" codeSystem="1.2.36.1.2001.1001.101"
                codeSystemName="NCTIS Data Components"
                displayName="Related Document"/>

              <!-- Begin Document Target -->
              <!-- Begin Link Nature / Link Role -->
              <reference typeCode="REFR">
                <seperatableInd value="true"/>
                <!-- End Link Nature / Link Role -->

              <!-- Begin Document Target -->
              <externalDocument classCode="DOC" moodCode="EVN">
                <!-- Report Identifier (Document Identifier) -->
                <id root="50846672-EFC7-11E0-8337-66094924019B"/>

                <!-- Document Type -->
                <code code="11526-1"
                  codeSystem="2.16.840.1.113883.6.1"
                  codeSystemName="LOINC"
                  displayName="Pathology study" />

                <!-- attachment as encapsulated data -->
                <text integrityCheck="IiZnlyLY4gyewfICeWhFe2NcDDw="
                  mediaType="application/pdf">

```

```

        <reference value="attachment.pdf"/>
      </text>

    </externalDocument>
    <!-- End Document Target -->
  </reference>

  <!-- Begin Report Name (Document Title) -->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <id root="D1ECC286-F093-11E0-9BC8-508D4724078B"/>
      <code code="103.16966"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Document Title"/>
      <text xsi:type="ST">Full Blood Count</text>
    </act>
  </entryRelationship>
  <!-- End Report Name (Document Title) -->

  <!-- Begin Report Status (Document Status) -->
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <id root="D1ECC286-F093-11E0-9BC8-508D4724078B"/>
      <code code="103.20104"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Document 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 Report Status (Document Status) -->

  </act>
</entry>
<!-- End RELATED DOCUMENT -->
...

</section>
</component>
<!-- End PATHOLOGY -->
...

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

</ClinicalDocument>

```


7.1.2 Authority to Post (DOCUMENT USE AUTHORISATION)

Identification




Name	Authority to Post (DOCUMENT USE AUTHORISATION)
Metadata Type	Data Group
Identifier	DG-16982

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	PATHOLOGY RESULT REPORT	0..1

Children

Data Type	Name	Occurrence
	AUTHORISER	1..1
	AUTHORISEE	1..1
	REPOSITORY	1..1

CDA R-MIM Representation

Figure 7.8 Authority to Post (DOCUMENT USE AUTHORISATION) 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 Authority to Post (DOCUMENT USE AUTHORISATION) data group is represented by an Observation class. Pathology Report Identifier and Service Request Identifier are each represented by an externalDocument relating to the containing Observation by a reference relationship.

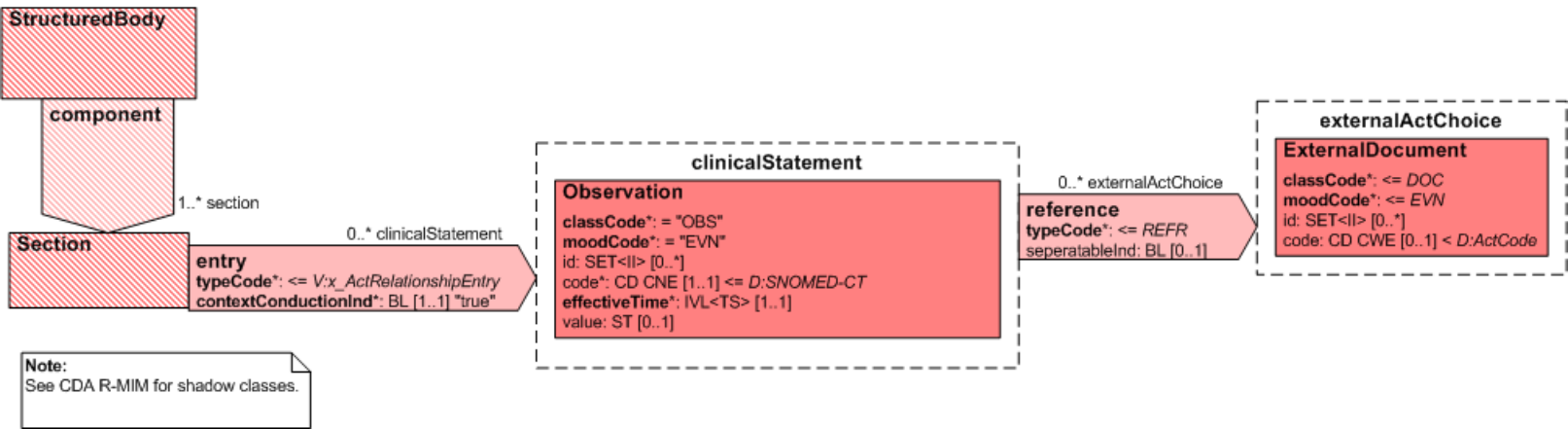


Figure 7.8. Authority to Post (DOCUMENT USE AUTHORISATION)

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 [HL7 code set registration procedure](#)² with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/		
Authority to Post (DOCUMENT USE AUTHORISATION)	Details of an authorisation to perform an action with a document.	0..1	component[atp]/section		
Authority to Post (DOCUMENT USE AUTHORISATION) > Authority to Post Instance Identifier (Document Use Authorisation Instance Identifier)	A globally unique identifier for each instance of a Document Use Authorisation instruction.	0..1	component[atp]/section/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.
Authority to Post (DOCUMENT USE AUTHORISATION) > Detailed Clinical Model Identifier	The NEHTA OID for the concept represented by this Detailed Clinical Model.	1..1	component[atp]/section/code		
			component[atp]/section/code/@code="102.16982"		
			component[atp]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		
			component[atp]/section/code/@codeSystemName="NCTIS Data Components"		
			component[atp]/section/code/@displayName="Document Use Authorisation"		

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/		
Authority to Post (DOCUMENT USE AUTHORISATION) > Authoriser Instruction	Action authorised to be performed with the document of interest.	1..1	entry/observation/code		
			entry/observation/code/@code="103.16988"		
			entry/observation/code/@codeSystem="1.2.36.1.2001.1001.101"		
			entry/observation/code/@codeSystemName="NCTIS Data Components"		
			entry/observation/code/@displayName="Authoriser Instruction"		
			entry/observation/value:CD		
			entry/observation/value/@code="1"		
			entry/observation/value/@codeSystem="1.2.36.1.2001.1001.101.104.16987"		
			entry/observation/value/@codeSystemName="NCTIS Authoriser Instruction Values"		
			entry/observation/value/@displayName="Post document"		
Authority to Post (DOCUMENT USE AUTHORISATION) > AUTHORISER	Party who authorises action.	1..1	entry/observation/<AUTHORISER>		
Authority to Post (DOCUMENT USE AUTHORISATION) > AUTHORISEE	Party who is authorised to perform action.	1..1	entry/observation/<AUTHORISEE>		
Authority to Post (DOCUMENT USE AUTHORISATION) > REPOSITORY	Repository of documents.	1..1	entry/observation/<REPOSITORY>		
Authority to Post (DOCUMENT USE AUTHORISATION) > Pathology Report Identifier (Document Instance Identifier)	Identifier of the document of interest.	1..1	entry/observation/reference[doc_instance_id]/externalDocument		
			entry/observation/reference[doc_instance_id]/externalDocument/id	This data element SHALL have the same value as Document Identifier (entry[doc_detail]/act/reference[document]/externalDocument/id).	See <id> for available attributes.
			entry/observation/reference[doc_instance_id]/externalDocument/code		
			entry/observation/reference[doc_instance_id]/externalDocument/code/@code="11526-1"		
			entry/observation/reference[doc_instance_id]/externalDocument/code/@codeSystem="2.16.840.1.113883.6.1"		
			entry/observation/reference[doc_instance_id]/externalDocument/code/@codeSystemName="LOINC"		
			entry/observation/reference[doc_instance_id]/externalDocument/code/@displayName="Pathology study"		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Authority to Post (DOCUMENT USE AUTHORISATION) > Service Request Identifier	Requester's identifier of the service request which lead to the creation of the document of interest.	1..1	entry/observation/reference[serv_rqst_id]/externalDocument		
			entry/observation/reference[serv_rqst_id]/externalDocument/id	This data element SHALL have the same value as Requester Order Identifier.	See <id> for available attributes.
			entry/observation/reference[serv_rqst_id]/externalDocument/code	NS	See <code> for available attributes.

Example 7.7. Authority to Post (DOCUMENT USE AUTHORISATION) 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 PATHOLOGY -->
    <component>
      <section>
        ...
      </section>
    </component>
    <!-- End PATHOLOGY -->

    <!-- Begin Authority to Post (DOCUMENT USE AUTHORISATION) -->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <!-- Authority to Post Instance Identifier -->
        <id root="234a4440-7e50-11e3-baa7-0800200c9a66"/>
        <!-- Detailed Clinical Model Identifier -->
        <code code="102.16982" codeSystem="1.2.36.1.2001.1001.101"
              codeSystemName="NCTIS Data Components"
              displayName="Document Use Authorisation"/>
        <title>Document Use Authorisation</title>
        <!-- Begin Narrative text -->
        <text>Narrative Text</text>
        <!-- End Narrative text -->

        <!-- Begin Authoriser Instruction -->
        <entry typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <code code="103.16988" codeSystem="1.2.36.1.2001.1001.101"
                  codeSystemName="NCTIS Data Components"
                  displayName="Authoriser Instruction"/>
            <value code="1" codeSystem="1.2.36.1.2001.1001.101.104.16987"
                  codeSystemName="NCTIS Authoriser Instruction Values"
                  displayName="Post document" xsi:type="CD"/>

            <!-- Begin AUTHORISER -->
            ...
            <!-- End AUTHORISER -->

            <!-- Begin AUTHORISEE -->
            ...
            <!-- End AUTHORISEE -->
          </observation>
        </entry>
      </section>
    </component>
  </structuredBody>
</component>
</ClinicalDocument>
```

```
<!-- Begin REPOSITORY -->
...
<!-- End REPOSITORY -->

<reference typeCode="REFR">
  <externalDocument>
    <!-- Pathology Report Identifier -->
    <id root="50846672-EFC7-11E0-8337-66094924019B"/>
    <code code="11526-1"
          codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"
          displayName="Pathology study"/>
    </externalDocument>
  </externalDocument>
</reference>
<reference typeCode="REFR">
  <externalDocument>
    <!-- Service Request Identifier -->
    <id extension="10523475"
          root="2.16.840.1.113883.19.4.27"/>
    <code code="26604007"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Complete blood count"/>
    </externalDocument>
  </reference>
</observation>
</entry>
<!-- End Authoriser Instruction -->
</section>
<!-- End Authority to Post (DOCUMENT USE AUTHORISATION) -->
</component>

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


7.1.2.1 AUTHORISER

Identification

Name	AUTHORISER
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	Authority to Post (DOCUMENT USE AUTHORISATION)	1..1

CDA R-MIM Representation

Figure 7.9 **AUTHORISER** 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 **AUTHORISER** data group instantiated as 'PERSON' is related to its context of ClinicalStatement 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.

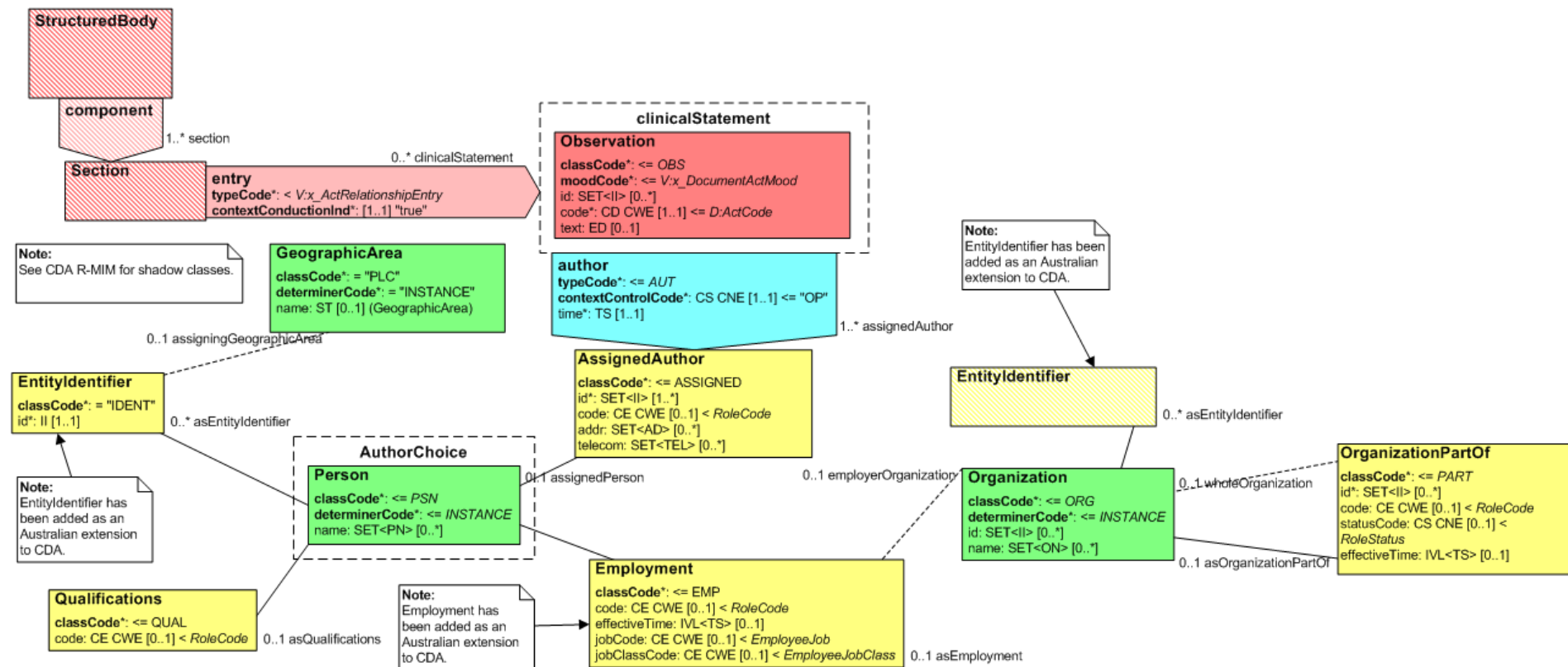


Figure 7.9. AUTHORISER

Figure 7.10 **AUTHORISER - Entitlement** 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.

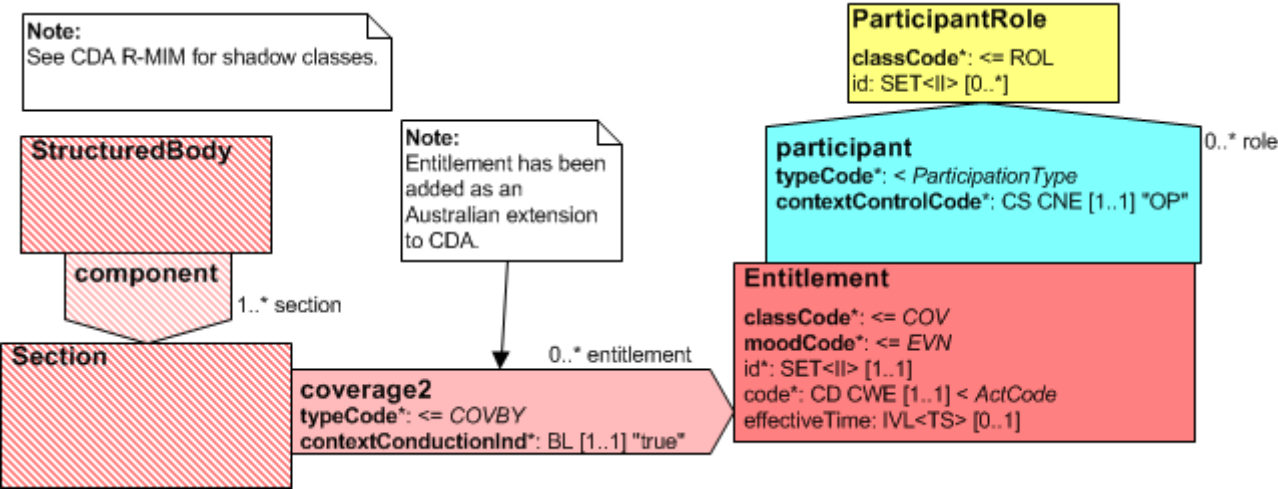


Figure 7.10. **AUTHORISER - Entitlement**

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/entry/observation/		
AUTHORISER	Party who authorises action.	1..1	author		
AUTHORISER > Participation Period	The time interval during which the participation in the health care event occurred.	1..1	author/time	Although the definition of this element states that it is a time interval, the following applies: "The end of the participation period of a [Author] participation is the time associated with the completion of editing the content..." Thus only the end time need be recorded.	Required CDA element.
AUTHORISER > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	n/a	Participation Type SHALL have an implementation-specific value equivalent to "Authoriser".	Not mapped directly, encompassed implicitly in author/@typeCode = "AUT" (optional, fixed value).
n/a	n/a	1..1	author/assignedAuthor/id	UUID This is a technical identifier that is used for system purposes such as matching. If a suitable internal key is not available, a UUID MAY be used.	Required CDA element.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
AUTHORISER > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	author/assignedAuthor/code	Role SHOULD have a value chosen from 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006] . However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and publicly available MAY be used.	
AUTHORISER > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	author/assignedAuthor/assignedPerson		
AUTHORISER > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	author/assignedAuthor/assignedPerson/<Entity Identifier>	The value of one Entity Identifier SHALL be an Australian HPI-I.	See common pattern: Entity Identifier .
AUTHORISER > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0..*	author/assignedAuthor/<Address>	AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS.	See common pattern: Address .
AUTHORISER > Participant > Electronic Communication Detail	The electronic communication details of entities.	0..*	author/assignedAuthor/<Electronic Communication Detail>		See common pattern: Electronic Communication Detail .
AUTHORISER > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
AUTHORISER > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in author/assignedAuthor/assignedPerson.

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
AUTHORISER > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	author/assignedAuthor/assignedPerson/<Person Name>		See common pattern: Person Name .
AUTHORISER > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	1..1	author/assignedAuthor/assignedPerson/<Employment>		See common pattern: Employment .
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/		
AUTHORISER > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0..*	ext:coverage2/@typeCode="COVBY"		
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="HLD"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="ASSIGNED"		
			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.	This SHALL hold the same value as author/assignedAuthor/id.
AUTHORISER > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	1..1	ext:coverage2/ext:entitlement/ext:id		See <id> for available attributes.
AUTHORISER > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	1..1	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	
AUTHORISER > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	0..1	ext:coverage2/ext:entitlement/ext:effectiveTime		See <time> for available attributes.
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/entry/observation/		
AUTHORISER > Participant > Qualifications	A list of professional certifications, and certificates recognising having passed a course.	0..1	author/assignedAuthor/assignedPerson/ext:asQualifications		See Australian CDA extension: Qualifications .
			author/assignedAuthor/assignedPerson/ext:asQualifications/@classCode="QUAL"		
			author/assignedAuthor/assignedPerson/ext:asQualifications/ext:code/originalText	Qualifications is a text field, so the text list is entered in the originalText field of the code element.	

Example 7.8. Authoriser 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 Authority to Post (DOCUMENT USE AUTHORISATION) -->
      <component>
        <section>
          ...
          <text>
            <table>
              <tbody>
                <tr>
                  <th>Australian Medicare Prescriber Number</th>
                  <td>1234567</td>
                </tr>
              </tbody>
            </table>
          </text>

          <!-- Begin AUTHORISER Entitlement -->
          <ext:coverage2 typeCode="COVBY">
            <ext:entitlement classCode="COV" moodCode="EVN">
              <ext:id assigningAuthorityName="Medicare Prescriber Number"
                extension="1234567" root="1.2.36.174030967.0.3"/>
              <ext:code code="10" codeSystem="1.2.36.1.2001.1001.101.104.16047"
                codeSystemName="NCTIS Entitlement Type Values"
                displayName="Medicare Prescriber Number"/>
              <ext:effectiveTime>
                <low value="20050101"/>
                <high value="20250101"/>
              </ext:effectiveTime>
              <ext:participant typeCode="HLD">
                <ext:participantRole classCode="ASSIGNED">
                  <!-- Same as the prescriber (assignedAuthor) id -->
                  <ext:id root="AE0DB4EE-0CD0-11E0-8D84-CC50DFD72085"/>
                </ext:participantRole>
              </ext:participant>
            </ext:entitlement>
          </ext:coverage2>
          <!-- End AUTHORISER Entitlement -->
          ...
        </entry>
```

```

<observation classCode="OBS" moodCode="EVN">
...

<!-- Begin AUTHORISER -->
<author>
  <!-- Participation Period -->
  <time value="200910301639+1000"/>
  <assignedAuthor>
    <!-- ID is used for system purposes such as matching -->
    <id root="AE0DB4EE-0CD0-11E0-8D84-CC50DFD72085"/>
    <!-- Role -->
    <code code="253915" 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="WP">
      <streetAddressLine>1 Medical 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 use="L">
        <prefix>Dr</prefix>
        <given>Bone</given>
        <family>Doctor</family>
      </name>
      <!-- Entity Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-I"
          root="1.2.36.1.2001.1003.0.8003619900015717"/>
        <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 Medical Practitioner</originalText>
        </ext:code>

        <!-- Occupation -->
        <ext:jobCode 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"/>

        <!-- Employment Type -->
        <ext:jobClassCode code="FT"
          codeSystem="2.16.840.1.113883.5.1059"
          codeSystemName="HL7:EmployeeJobClass"
          displayName="full-time"/>
      </ext:asEmployment>
    </assignedPerson>
  </author>
</observation>

```

```
<ext:employerOrganization>
  <!-- Department/Unit -->
  <name>General Practice Clinic</name>

  <asOrganizationPartOf>
    <wholeOrganization>

      <!-- Organisation Name -->
      <name use="ORGB">General Practice Clinics</name>

      <!-- Entity Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-0"
          root="1.2.36.1.2001.1003.0.8003621566684455"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </wholeOrganization>
  </asOrganizationPartOf>
</ext:employerOrganization>
</ext:asEmployment>
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>M.B.B.S</originalText>
  </ext:code>
</ext:asQualifications>
</assignedPerson>
</assignedAuthor>
</author>
<!-- End AUTHORISER -->
...

</observation>
</entry>
</section>
</component>
<!-- End Authority to Post (DOCUMENT USE AUTHORISATION) -->
</structuredBody>
<component>
  <!-- End CDA Body -->
</ClinicalDocument>
```


7.1.2.2 AUTHORISEE

Identification

Name	AUTHORISEE
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	Authority to Post (DOCUMENT USE AUTHORISATION)	1..1

CDA R-MIM Representation

Figure 7.11 AUTHORISEE 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 DOCUMENT AUTHOR data group instantiated as 'PERSON' is related to its context of ClinicalStatement 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.

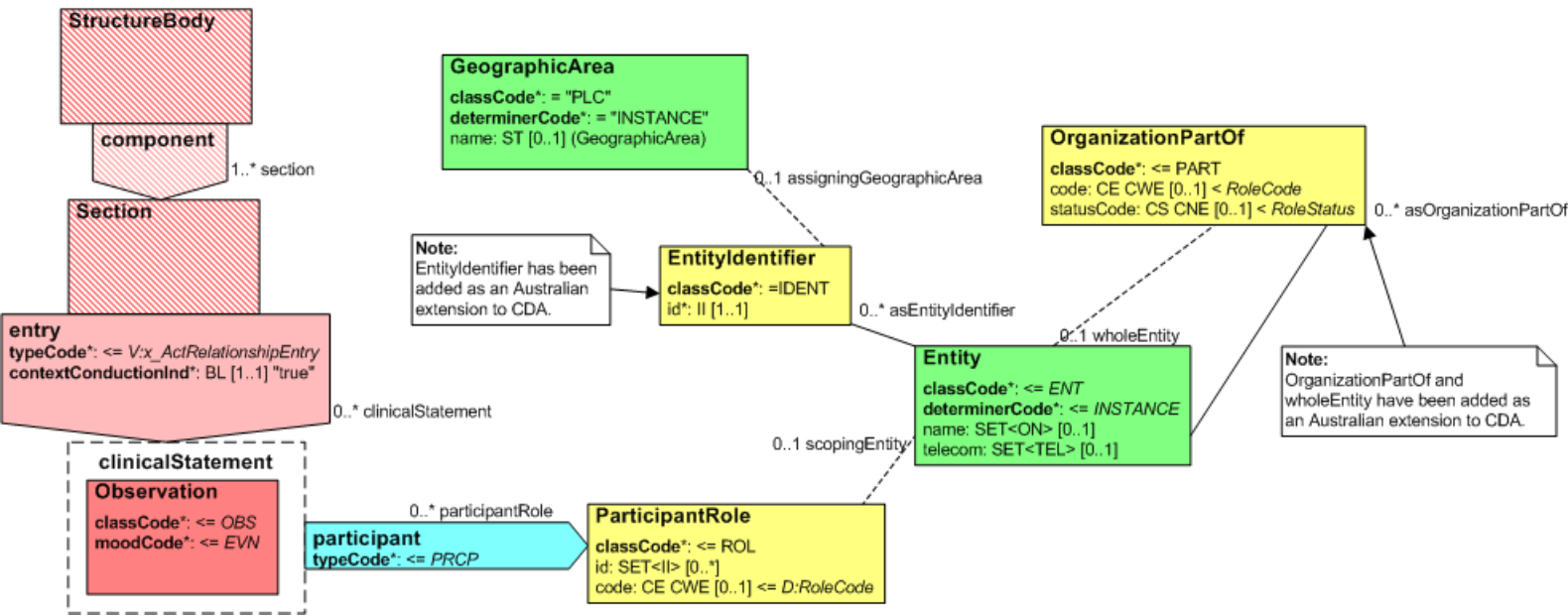


Figure 7.11. AUTHORISEE

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/entry/observation/		
AUTHORISEE	Party who is authorised to perform action.	1..1	participant		
AUTHORISEE > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	participant/@typeCode="PRCP"	Participation Type SHALL have an implementation-specific fixed value equivalent to "authorised party".	
AUTHORISEE > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	participant/participantRole/code	Role SHOULD have a value representing the type of Healthcare Facility e.g. Hospital, Clinic. Role MAY have an implementation specific null flavour.	See <code> for available attributes.
n/a	n/a	1..1	participant/participantRole/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.
AUTHORISEE > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as an ORGANISATION.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
AUTHORISEE > Participant > Person or Organisation or Device > Organization	Any organisation of interest to, or involved in, the business of healthcare service provision.	1..1	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity		
AUTHORISEE > Participant > Person or Organisation or Device > Organisation > Electronic Communication Detail	The electronic communication details of entities.	0..*	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity/<Electronic Communication Detail>		See common pattern: Electronic Communication Detail .

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
AUTHORISEE > Participant > Person or Organisation or Device > Organisation > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	0..*	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity/Address	Address SHALL have an Address Purpose value of "Business".	Australian or International Address SHALL be instantiated as an Australian Address. See common pattern: Address .
AUTHORISEE > Participant > Person or Organisation or Device > Organisation > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity/Entity Identifier	The value of one Entity Identifier SHOULD be a NATA Lab Accreditation Number.	See common pattern: Entity Identifier .
AUTHORISEE > Participant > Person or Organisation or Device > Organisation > Organisation Name	The name by which an organisation is known or called.	1..1	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity/ext:name		
AUTHORISEE > 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.	0..1	participant/participantRole/scopingEntity/ext:name		
AUTHORISEE > Participant > Person or Organisation or Device > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	0..1	participant/participantRole/scopingEntity/ext:asOrganizationPartOf/ext:wholeEntity/ext:name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 7.9. Authorisee 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>
      <component>
        <!-- Begin Pathology -->
        <section>
          ...
          <!-- Begin Document Use Authorisation -->
          <entry typeCode="DRIV">
            <observation classCode="OBS" moodCode="EVN">
              ...
              <!-- Begin AUTHORISEE -->
              <participant typeCode="PRCP">
                <participantRole>
                  <!-- ID is used for system purposes such as matching -->
                  <id root="bf0e97c0-69c3-11e2-bcfd-0800200c9a66" />
                  <!-- Role -->
                  <code code="394595002" codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT-AU" codeSystemVersion="20090731" displayName="Pathology" />

                  <scopingEntity classCode="ORG">
                    <!-- Department/Unit -->
                    <ext:name>Acme Laboratory One</ext:name>
                    <ext:asOrganizationPartOf>
                      <ext:wholeEntity classCode="ORG">
                        <!-- Organisation Name -->
                        <ext:name use="ORGB">Acme Laboratory Group</ext:name>
                        <!-- Electronic Communication Detail -->
                        <ext:telecom use="WP" value="tel:0712341234" />
                        <!-- Address -->
                        <ext:addr use="WP">
                          <streetAddressLine>8 Pathology Street</streetAddressLine>
                          <city>Nehtaville</city>
                          <state>QLD</state>
                          <postalCode>5555</postalCode>
                          <additionalLocator>32568931</additionalLocator>
                          <country>Australia</country>
                        </ext:addr>
                        <!-- Entity Identifier -->
                        <ext:asEntityIdentifier classCode="IDENT">

```

```

        <ext:id assigningAuthorityName="NATA"
            root="1.2.36.1.2001.1005.12" extension="3715"/>
        <ext:code code="XX"
            codeSystem="2.16.840.1.113883.12.203"
            codeSystemName="Identifier Type (HL7)"
            displayName="Organization identifier"/>
    </ext:asEntityIdentifier>

    </ext:wholeEntity>
</ext:asOrganizationPartOf>
</scopingEntity>

    </participantRole>
</participant>
<!-- End AUTHORISEE -->
...
    </observation>
</entry>
<!-- End Document Use Authorisation -->
</section>
<!-- End Pathology -->
</component>
</structuredBody>
</component>

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


7.1.2.3 REPOSITORY

Identification

Name	REPOSITORY
Metadata Type	Data Group
Identifier	DG-10296

Relationships

Parent

Data Type	Name	Occurrences (child within parent)
	Authority to Post (DOCUMENT USE AUTHORISATION)	1..1

CDA R-MIM Representation

Figure 7.12 REPOSITORY 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 DEVICE Entity class is connected to an Observation clinicalStatement via a ParticipantRole and Device participant classes.

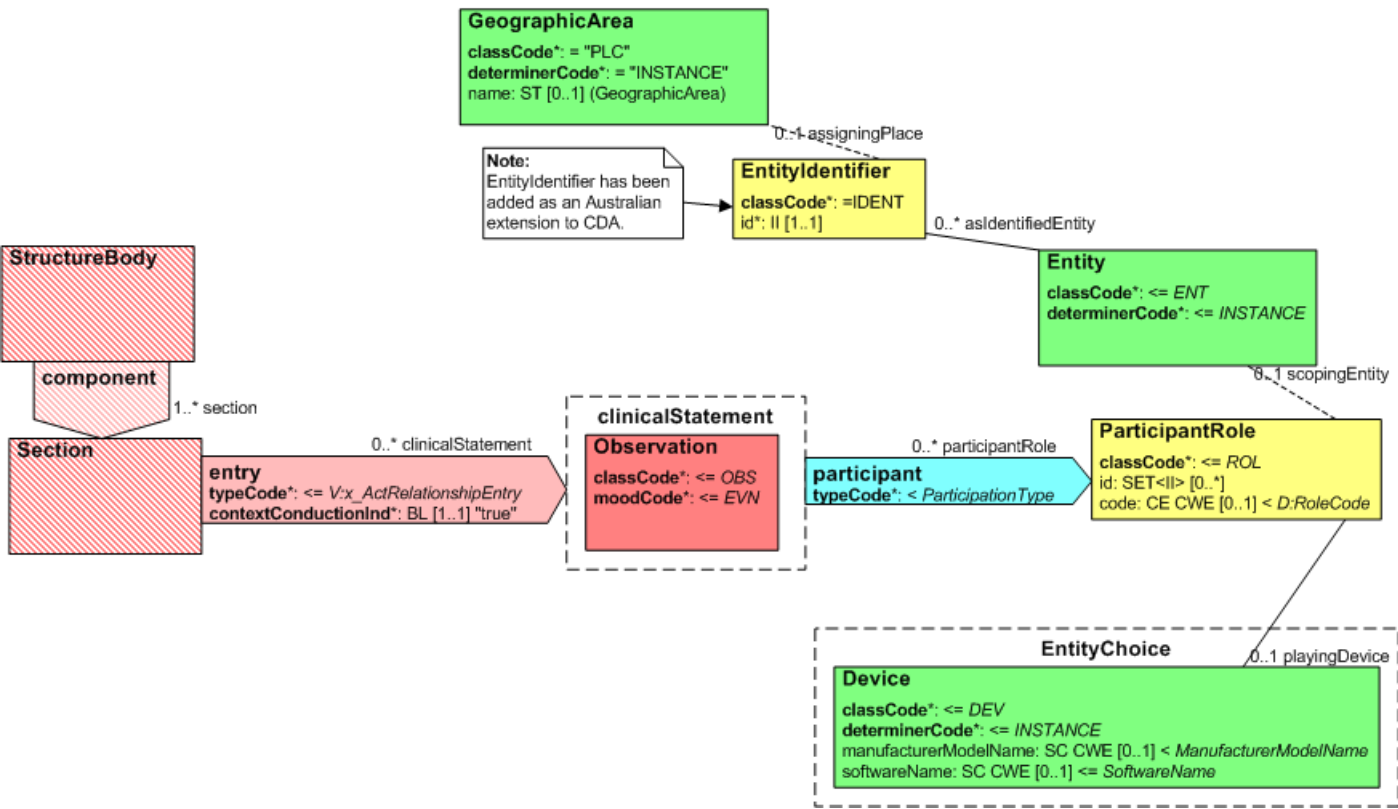


Figure 7.12. REPOSITORY

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 [HL7 code set registration procedure](#)³ with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[atp]/section/entry/observation/		
REPOSITORY	Repository of documents.	1..1	participant		
REPOSITORY > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	1..1	participant/@typeCode="DEV"	Participation Type SHALL have an implementation-specific equivalent to "Repository"	Encompassed implicitly in participant/@typeCode="DEV".
REPOSITORY > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	1..1	participant/participantRole/code/@nullFlavor="NA"	NS	See <code> for available attributes. Specifically mapped to a nullFlavor.
n/a	n/a	1..1	participant/participantRole/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.
REPOSITORY > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/participantRole/playingDevice		
REPOSITORY > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..1	participant/participantRole/scopingEntity/<Entity Identifier>	The value of Entity Identifier SHALL be the Australian PAI-R for the PCEHR National Repository (1.2.36.1.2001.1007.10.8003640002000050).	See common pattern: Entity Identifier .

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
REPOSITORY > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION or DEVICE.	1..1	n/a	PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a DEVICE.	This logical NEHTA data component has no mapping to CDA. The cardinality of this component propagates to its children.
REPOSITORY > Participant > Person or Organisation or Device > Device	Describes a device or software module of interest to, or involved in, the business of healthcare service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in participant/@typeCode="DEV".
REPOSITORY > Participant > Person or Organisation or Device > Device > Device Name	The full name of the device.	1..1	participant/participantRole/playingDevice/ softwareName	The value of Device Name SHALL be "PCEHR National Repository".	

Example 7.10. XML Fragment (DEVICE)

```

<!-- 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>
      <component>
        <!-- Begin Pathology -->
        <section>
          ...
        </section>
      </component>
    <!-- End Pathology -->

    <!-- Begin Document Use Authorisation -->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <entry typeCode="DRIV">
          <observation classCode="OBS" moodCode="EVN">
            ...
            <!-- Begin Repository Instantiated as DEVICE -->
            <participant typeCode="DEV">
              <participantRole>
                <!-- ID is used for system purposes such as matching -->
                <id root="bf0e97c0-69c3-11e2-bcfd-0800200c9a66" />
                <!-- The author code is not applicable -->
                <code nullFlavor="NA"/>
                <!-- Participant -->
                <playingDevice>
                  <!-- Device Name -->
                  <softwareName>PCEHR National Repository</softwareName>
                </playingDevice>
              <scopingEntity>
                <!-- Entity Identifier -->
                <ext:asEntityIdentifier classCode="IDENT">
                  <ext:id assigningAuthorityName="PAI-R"
                    root="1.2.36.1.2001.1007.10.8003640002000050" />
                  <ext:assigningGeographicArea classCode="PLC">
                    <ext:name>National Identifier</ext:name>
                  </ext:assigningGeographicArea>
                </ext:asEntityIdentifier>
              </scopingEntity>
            </participantRole>
          </observation>
        </entry>
      </section>
    </component>
  </structuredBody>
</ClinicalDocument>

```

```

        </participant>
        <!-- End Repository Instantiated as DEVICE -->
        ...
    </observation>
</entry>
<!-- End Document Use Authorisation -->
</section>
</component>
</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 www.hl7.org¹.

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

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

Where used, the *originalText* element **SHALL** be used to carry the full text associated with this code as selected by, typed by or displayed to 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 implementation guide and no suitable code, can be found the *originalText* element **SHALL** be used to carry the full text as selected by, typed by or displayed to the author of this statement.

¹ <http://www.hl7.org>

If a vocabulary is specified in this implementation 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 by, typed by or displayed to 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 by, typed by or displayed to 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. 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">
  <originalText>Patient is Asthmatic</originalText>
  <translation
    code="195967001"
    codeSystem="2.16.840.1.113883.19.6.96"
    codeSystemName="SNOMED CT-AU"
    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">
  <originalText>Patient is Asthmatic</originalText>
</code>

<!-- No suitable code can be found or there is no code system in use -->
<code
  <originalText>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 *assigningAuthorityName*
- a *root* and an *assigningAuthorityName*
- a *root* and an *assigningAuthorityName* and a *displayable*
- a *root* and an *extension* and a *displayable*
- a *root* and an *extension* and an *assigningAuthorityName* and a *displayable*
- a *root* and a *displayable*

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 **SHALL** 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 **RECOMMENDED**.

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 **SHALL** always be the same identifier in all versions of the record, and it **SHALL** be globally unique per the rules of the II data type.

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

Example 8.2. id

```
<id root="2.16.840.1.113883.19" extension="123A45" />  
<ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
```


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 time zone.

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="wk" />  
</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 Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	The cardinality of the group comes from the linking parent and the cardinality of the children data elements comes from the R-MIM diagram.	ext:asEntityIdentifier		See Australian CDA extension: Entity-Identifier .
			ext:asEntityIdentifier/@classCode="IDENT"		
			ext:asEntityIdentifier/ext:id		
			ext:asEntityIdentifier/ext:id/@root	Attribute @root SHALL be used, SHALL be an OID and SHALL NOT be a UUID. Attribute @root SHALL be a globally unique object identifier (OID) that identifies the combination of geographic area, issuer and type. If no such OID exists, it SHALL be defined before any identifiers can be created.	
			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 SHOULD 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.
			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="1.2.36.1.2001.1003.0.8003608833357361" assigningAuthorityName="IHI" />
  <xs:assigningGeographicArea classCode="PLC">
    <xs:name>National Identifier</xs:name>
  </xs:assigningGeographicArea>
</xs:asEntityIdentifier>

<xs:asEntityIdentifier classCode="IDENT">
  <xs:id root="1.2.36.1.2001.1005.29.8003621566684455" extension="542181" assigningAuthorityName="Croydon GP Centre" />
  <xs:code code="MR" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />
</xs:asEntityIdentifier>

<!-- organisation -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
  <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.	1..1	name/ family		
Person Name > Given Name	The person's identifying names within the family group or by which the person is uniquely socially identified.	0..*	name/ given		
Person Name > Name Suffix	The additional term used following a person's name to identify that person.	0..*	name/ suffix		
Person Name > Preferred Name Indicator	A flag to indicate that this is the name a person has selected for use.	0..1	name/ @use		Space separated list of codes. true='L' false=blank
Person Name > Person Name Usage	The classification that enables differentiation between recorded names for a person.	0..1	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 -->

<!-- preferred name -->
<name use="L">
  <prefix>Ms</prefix>
  <given>Sally</given>
  <family>Grant</family>
</name>
```

8.6 Address

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	Cardinality comes from linking parent.	addr		<p>In an event where the Address of the Subject of Care is 'Unknown' or 'Masked / Not to be disclosed from privacy reason'. The following conditions SHOULD be applied.</p> <p>The nullFlavor = "UNK" SHOULD be permitted if the value of address is not known and the value of 'No Fixed Address Indicator' is false.</p> <p>The nullFlavor = "MSK" SHOULD be permitted if the value of address is masked and the value of 'No Fixed Address Indicator' is false.</p> <p>The nullFlavor = "NA" SHOULD be permitted if value of 'No Fixed Address Indicator' is true. (This is the same as the current CDA IG constraint).</p> <p>The value of the <addr> data group SHALL be populated in all other circumstances.</p>
Address > No Fixed Address Indicator	A flag to indicate whether or not the participant has no fixed address.	1..1	addr/@ nullFlavor	If true, nullFlavor="NA". If false omit nullFlavor and fill in address.	

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address	Represents a choice to be made at run-time between an AUSTRALIAN ADDRESS and an INTERNATIONAL ADDRESS.	1..1	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.	0..1	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 > International 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 post-code and country, forms a complete geographic/physical address	0..*	addr/streetAddressLine		
Address > Australian or International Address > International Address > International 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	0..1	addr/state		
Address > Australian or International Address > International Address > International 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	0..1	addr/postalCode		
Address > Australian or International Address > International Address > Country	The country component of the address.	0..1	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.	0..1	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 > Unstructured Australian Address Line	A composite of one or more low level standard address components describing a geographical/physical location that, used in conjunction with the other high level address components, e.g. Australian suburb/town/locality name, Australian postcode and Australian State/Territory, forms a complete geographical/physical address.	0..*	addr/streetAddressLine		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Structured Australian Address Line	The standard low level address components describing a geographical/physical location that, used in conjunction with the other high level address components, i.e. Australian suburb/ town/locality name, Australian postcode and Australian State/Territory, form a complete geographical/physical address.	0..1	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 > Structured Australian Address Line > Australian Unit Type	The specification of the type of a separately identifiable portion within a building/complex, marina etc. to clearly distinguish it from another.	0..1	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 > Structured Australian Address Line > Australian Unit Number	The specification of the number or identifier of a building/complex, marina etc. to clearly distinguish it from another.	0..1	addr/unitID		
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Address Site Name	The full name used to identify the physical building or property as part of its location.	0..1	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Level Type	Descriptor used to classify the type of floor or level of a multistorey building/complex.	0..1	addr/additionalLocator	AS 5017 (2006) - Healthcare Client Identification: Australian Level Type [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Level Type [SA2006b]	
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Level Number	Descriptor used to identify the floor or level of a multistorey building/complex.	0..1	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Street Number	The numeric or alphanumeric reference number of a house or property that is unique within a street name.	0..1	addr/houseNumber		
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Lot Number	The Australian Lot reference allocated to an address in the absence of street numbering.	0..1	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Street Name	The name that identifies a public thoroughfare and differentiates it from others in the same suburb/town/locality.	0..1	addr/streetName		

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Street Type	A code that identifies the type of public thoroughfare.	0..1	addr/ streetNameType	AS 5017 (2006) - Healthcare Client Identification: Australian Street Type Code [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Street Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Street Suffix	Term used to qualify Australian Street Name used for directional references.	0..1	addr/ direction	AS 5017 (2006) - Healthcare Client Identification: Australian Street Suffix [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Street Suffix [SA2006b]	
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Postal Delivery Type	Identification for the channel of postal delivery.	0..1	addr/ deliveryAddressLine	AS 5017 (2006) - Healthcare Client Identification: Australian Postal Delivery Type Code [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Postal Delivery Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Structured Australian Address Line > Australian Postal Delivery Number	Identification number for the channel of postal delivery.	0..1	addr/ deliveryAddressLine		
Address > Australian or International Address > Australian Address > Australian Suburb/Town/Locality	The full name of the general locality contained within the specific address.	0..1	addr/ city	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	
Address > Australian or International Address > Australian Address > Australian State/Territory	The identifier of the Australian state or territory.	0..1	addr/ state	AS 5017-2006 Australian State/Territory Identifier - Postal	
Address > Australian or International Address > Australian Address > Australian Postcode	The numeric descriptor for a postal delivery area (as defined by Australia Post), aligned with locality, suburb or place for the address.	0..1	addr/ postalCode	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	
Address > Australian or International Address > Australian Address > Australian Delivery Point Identifier	A unique number assigned to a postal delivery point as recorded on the Australia Post Postal Address File.	0..1	addr/ additionalLocator		
Address > Address Purpose	The purpose for which the address is being used by the entity.	1..1	addr/ @use	AS 5017-2006: Health Care Client Identifier Address Purpose	Space separated list of codes.

Example 8.10. Address

```
<!-- These examples are provided for illustrative purposes only. They have had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->

<!-- no fixed address -->
<addr nullFlavor="NA" />

<!--Australian home address (unstructured) -->
<addr use="H">
  <streetAddressLine>1 Clinician Street</streetAddressLine>
  <city>Nehtaville</city>
  <state>QLD</state>
  <postalCode>5555</postalCode>
  <additionalLocator>32568931</additionalLocator>
</addr>

<!--Australian business address (structured) -->
<addr use="WP">
  <houseNumber>1</houseNumber>
  <streetName>Clinician</streetName>
  <streetNameType>St</streetNameType>
  <city>Nehtaville</city>
  <state>QLD</state>
  <postalCode>5555</postalCode>
  <additionalLocator>32568931</additionalLocator>
</addr>

<!--international postal address -->
<addr use="PST">
  <streetAddressLine>51 Clinician Bay</streetAddressLine>
  <city>Healthville</city>
  <state>Manitoba</state>
  <postalCode>R3T 3C6</postalCode>
  <country>Canada</country>
</addr>
```

8.7 Electronic Communication Detail

CDA Mapping

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
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.	1..1	telecom/@value	AS 5017-2006: Health Care Client Electronic Communication Medium > HL7:URLScheme	Makes up part of the value attribute as 'tel:phone number', 'mailto:email address', 'http:URL', etc.
Electronic Communication Detail > Electronic Communication Usage Code	The manner of use that is applied to an electronic communication medium.	0..1	telecom/@use	HL7 v3: TelecommunicationAddressUse > HL7:TelecommunicationAddressUse	Space separated list of codes. The section AS 5017-2006: Health Care Client Electronic Communication Usage Code explains how to map AS 5017-2006 to HL7 Telecommunication-AddressUse (HL7 TAU) code
Electronic Communication Detail > Electronic Communication Address	A unique combination of characters used as input to electronic telecommunication equipment for the purpose of contacting an entity.	1..1	telecom/@value		Makes up part of the value attribute as 'tel:phone number', 'mailto:email address', 'http:URL', etc.

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 [HL7 code set registration procedure](#)² with an appropriate object identifier (OID), and **SHALL** be publicly available.

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Employment Detail	A person's occupation and employer.	Cardinality comes from linking parent.	n/a		This logical NEHTA data component has no mapping to CDA.
Employment Detail > Employer Organization	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	1..*	ext:asEmployment/ext:employerOrganization		<p>There is a known issue in the NEHTA Participation Data Specification [NE-HT2011v] for this logical Data Component's cardinality.</p> <p>Furthermore the corresponding CDA elements ext:asEmployment and ext:employerOrganization do not allow the cardinality to be '0..*/multiple'. The cardinality SHALL be interpreted as '0..1' instead of '0..*'.²</p>
			ext:asEmployment/@classCode="EMP"		

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

NEHTA SCS Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Employment Detail > Employer Organisation > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	1..*	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/<Entity Identifier>	The value of one Entity Identifier SHALL be an Australian HPI-O.	See common pattern: Entity Identifier .
Employment Detail > Employer Organisation > Organisation	Any organisation of interest to, or involved in, the business of healthcare service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in assignedAuthor/ext:asEmployment/employerOrganization.
Employment Detail > Employer Organisation > Organisation > Organisation Name	The name by which an organisation is known or called.	1..1	ext:asEmployment/ext:employerOrganization/asOrganizationPartOf/wholeOrganization/name		
Employment Detail > Employer Organisation > Organisation > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	0..1	ext:asEmployment/ext:employerOrganization/name		
Employment Detail > Employer Organisation > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	0..1	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.	0..1	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 Occupations, First Edition, 2006 [ABS2006]	The corresponding CDA element ext:jobCode doesn't allow the cardinality to be '0..*/multiple'. The cardinality SHALL be interpreted as '0..1' instead of '0..*'.
Employment Detail > Position In Organisation	A descriptor of the job or the job role based on the management hierarchy of the organisation.	0..1	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>Chief Oncologist</originalText>
  </ext:code>

  <!-- Occupation -->
  <ext:jobCode code="253314" codeSystem="2.16.840.1.113883.13.62"
    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" codeSystemName="HL7:EmployeeJobClass" displayName="full-time" />

  <!-- Employer Organisation -->
  <ext:employerOrganization>
    <!-- Department/Unit -->
    <name>Oncology Ward</name>
    <asOrganizationPartOf>
      <wholeOrganization>

        <!-- Organisation Name -->
        <name use="ORGB">Acme Hospital</name>

        <!-- Entity Identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
          <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.

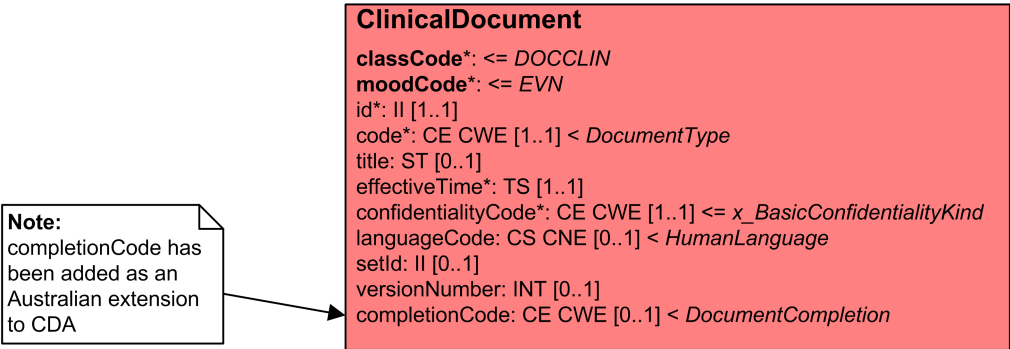


Figure 9.1. CDA R-MIM Representation

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.

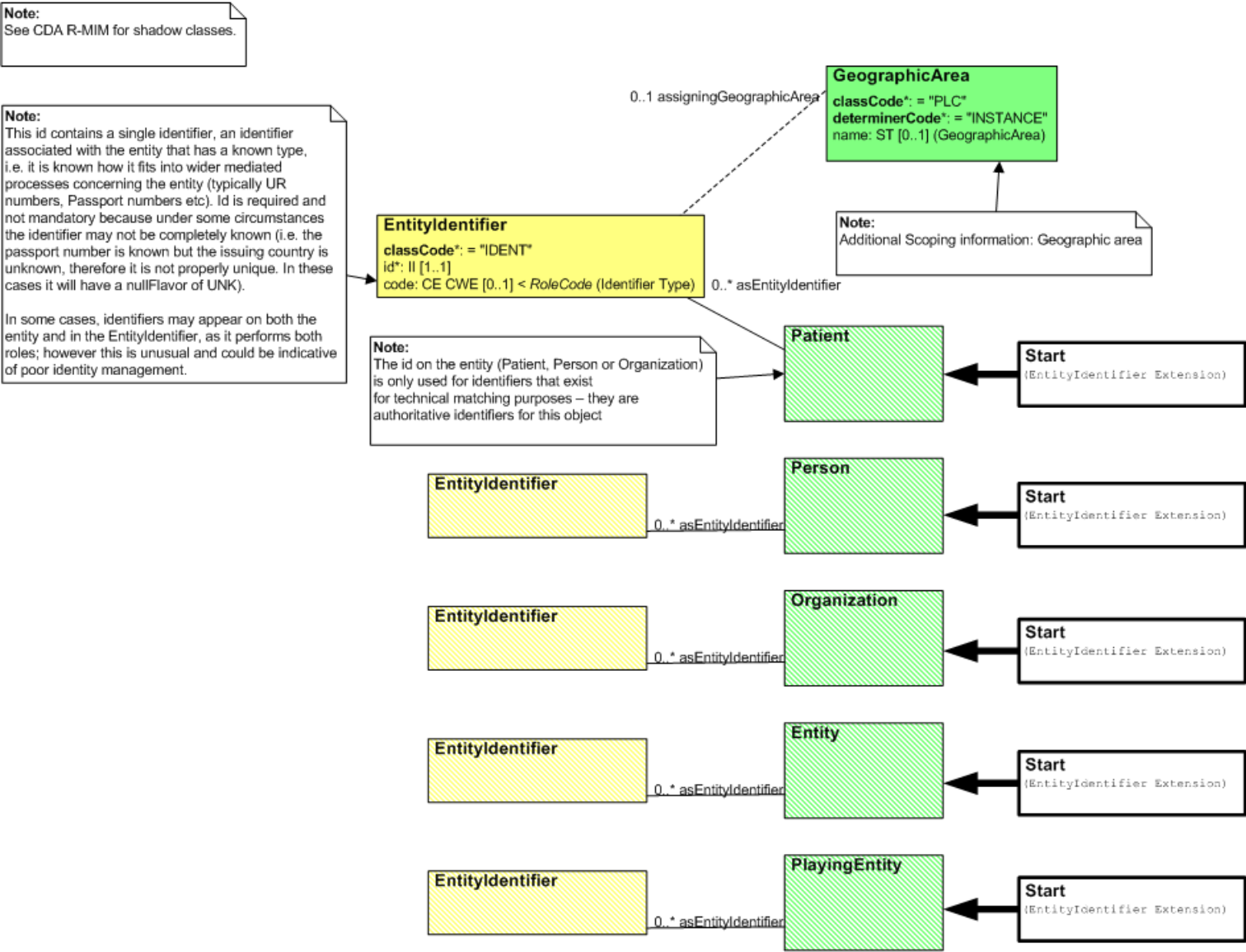


Figure 9.2. CDA R-MIM Representation

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.

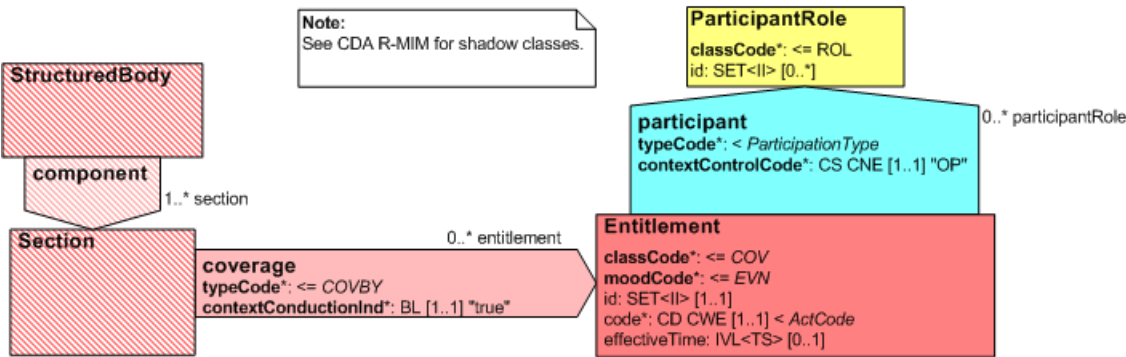


Figure 9.3. CDA R-MIM Representation

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.

```
Patient  
classCode*: <= PSN  
determinerCode*: <= INSTANCE  
id: II [0..1] (Deprecated)  
name: SET<PN> [0..*]  
administrativeGenderCode: CE CWE [0..1] < AdministrativeGender  
birthTime: TS [0..1]  
multipleBirthInd: BL [0..1]  
multipleBirthOrderNumber: INT [0..1]  
maritalStatusCode: CE CWE [0..1] < MaritalStatus  
religiousAffiliationCode: CE CWE [0..1] < ReligiousAffiliation  
raceCode: CE CWE [0..1] < Race  
ethnicGroupCode: CE CWE [0..1] < Ethnicity
```

Figure 9.4. CDA R-MIM Representation

9.5 Deceased Time

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.

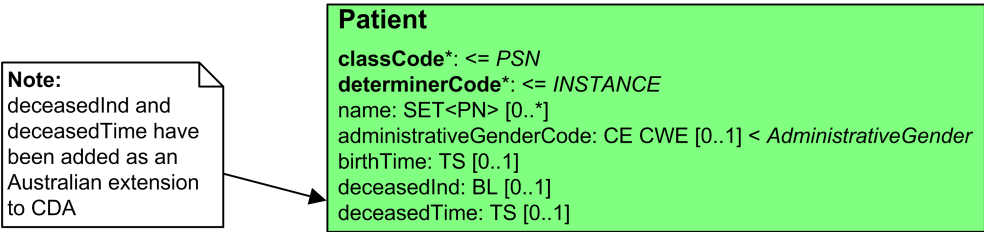


Figure 9.5. CDA R-MIM Representation

9.6 Employment

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.

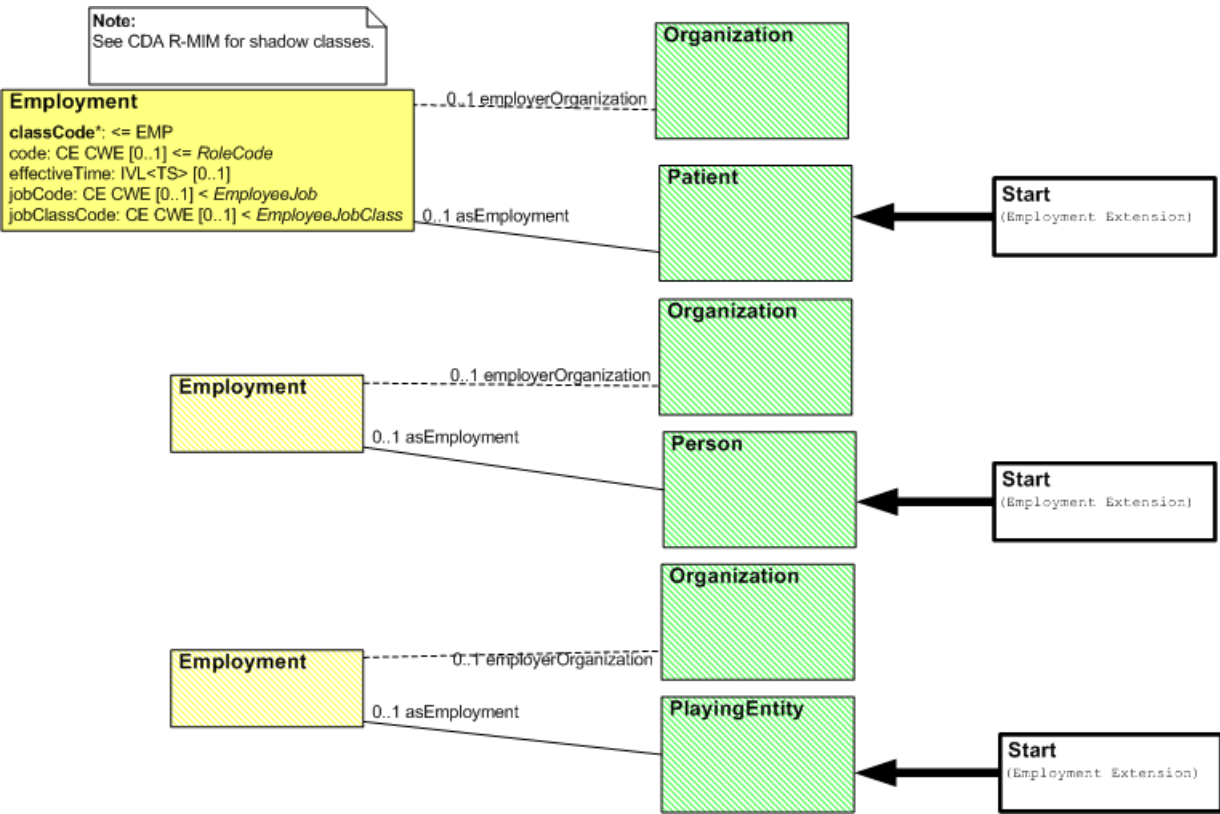


Figure 9.6. CDA R-MIM Representation

9.7 Qualifications

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.

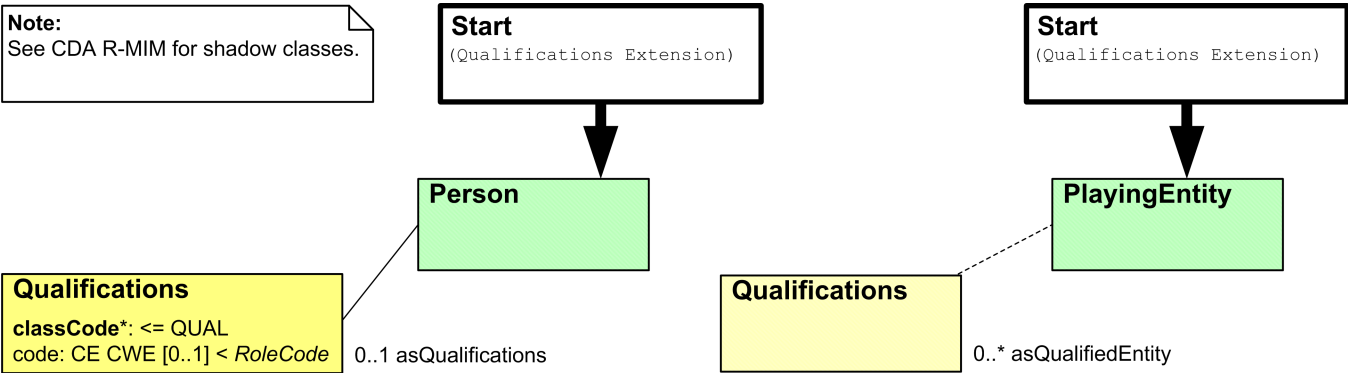


Figure 9.7. CDA R-MIM Representation

9.8 Participant Entity Organization

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.

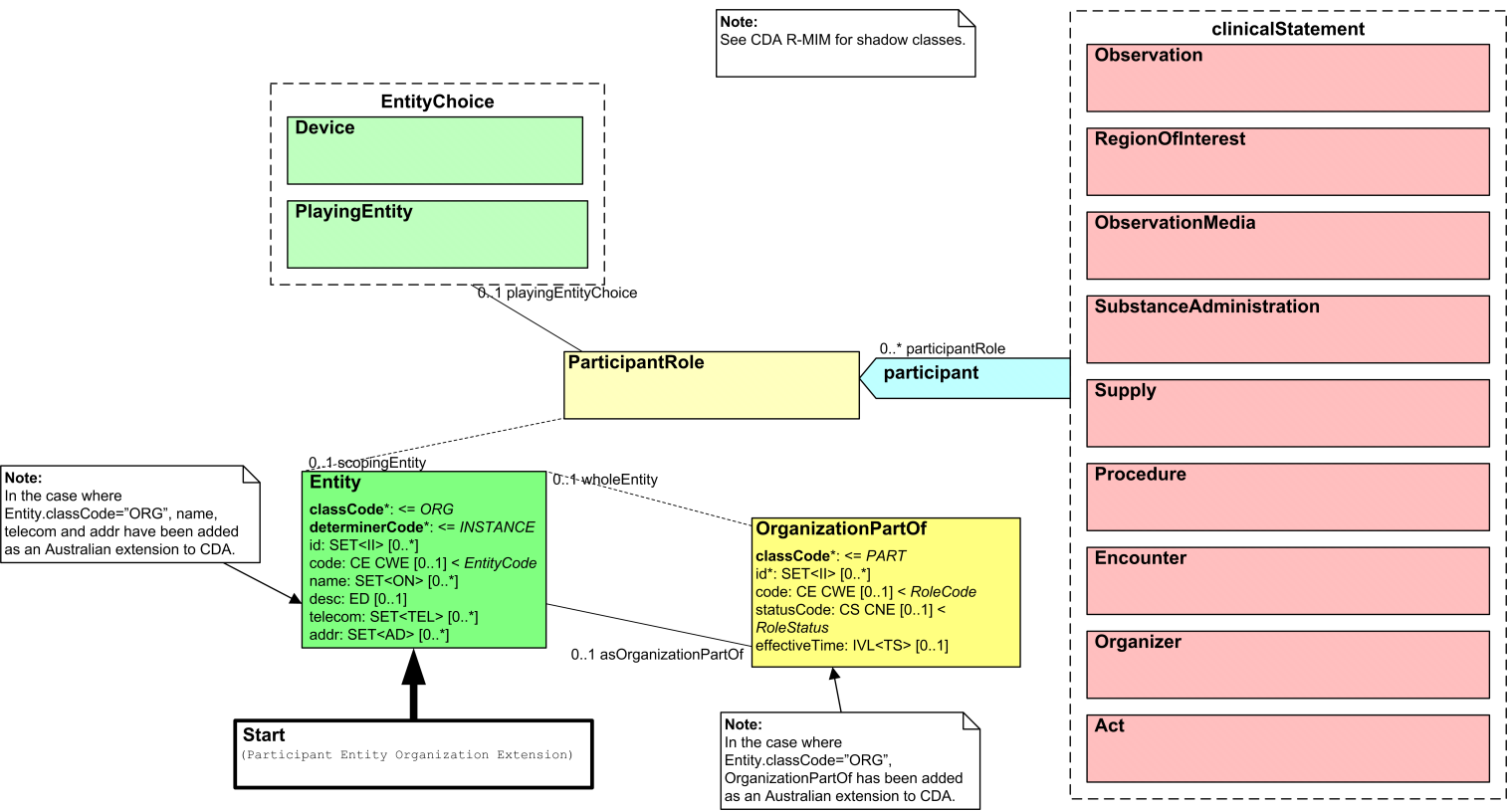


Figure 9.8. CDA R-MIM Representation

10 Vocabularies and Code Sets

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

Example 10.1. All values

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

Example 10.2. One value

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

10.1 HL7 v3: TelecommunicationAddressUse

Code	Value
H	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	M	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Female	F	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Intersex or Indeterminate	I	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68
Not Stated/Inadequately Described	N	AS 5017-2006 Health Care Client Identifier Sex	2.16.840.1.113883.13.68

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	C	(R1) License	(R1) As recorded on a license, record, certificate, etc. (only if different from legal name)
3	N	Newborn Name	NB	(EXT)	(EXT)
4	B	Professional or Business Name	A	(R1) Artist/Stage	(R1) Includes writer's pseudonym, stage name, etc
5	M	Maiden Name (Name at birth)	M	(R2) Maiden Name	A name used prior to marriage.
8	O	Other Name (Alias)	P	(R1) Pseudonym	(R1) A self-asserted name that the person is using or has used

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

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



Note

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

AS 4846-2006 Code	AS 4846-2006 Alternative Code	AS 4846-2006 Descriptor	HL7 Name Use Code	HL7 Name Use Name	HL7 Name Use Definition
1	U	Organizational unit/section/division name	ORGU	(EXT)	(EXT)
2	S	Service location name	ORGS	(EXT)	(EXT)
3	B	Business name	ORGB	(EXT)	(EXT)
4	L	Locally used name	ORGL	(EXT)	(EXT)
5	A	Abbreviated name	ORGA	(EXT)	(EXT)
6	E	Enterprise name	ORGE	(EXT)	(EXT)
8	X	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	H	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	O	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	B	Business	WP	Work Place	An office address. First choice for business related contacts during business hours.
2	M	Mailing or Postal	PST	Postal Address	Used to send mail.
3	T	Temporary Accommodation (individual provider only)	TMP	Temporary Address	A temporary address, may be good for visit or mailing.
4	R	Residential (permanent) (individual provider only)	H	Home Address	A communication address at a home.
9	U	Not Stated/Unknown/Inadequately Described	In this case simply omit the Address Use Code		

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

displayName	code	codeSystemName	codeSystem
Local Client (Unit Record) Identifier	L	AS 5017-2006 Health Care Client Identifier Geographic Area	2.16.840.1.113883.13.63
Area/Region/District Identifier	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)	T	tel	Telephone	A voice telephone number.
2	Mobile (cellular) telephone NOTE: Mobile will also need a Telecommunication-Address 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: TelecommunicationAddressUse)	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	U	Use the most appropriate code from the list below:		
			file	File	Host-specific local file names [RCF 1738]. Note that the file scheme works only for local files. There is little use for exchanging local file names between systems, since the receiving system likely will not be able to access the file.
			ftp	FTP	The File Transfer Protocol (FTP).
			http	HTTP	Hypertext Transfer Protocol.
			mlp	MLLP	The traditional HL7 Minimal Lower Layer Protocol. The URL has the form of a common IP URL e.g., mlp://<host>:<port>/ with <host> being the IP address or DNS hostname and <port> being a port number on which the MLLP protocol is served.
			modem	Modem	A telephone number served by a modem device.
			nfs	NFS	Network File System protocol. Some sites use NFS servers to share data files.
			telnet	Telnet	Reference to interactive sessions. Some sites, (e.g., laboratories) have TTY based remote query sessions that can be accessed through telnet.

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

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

Code	Descriptor	Alternative Code	HL7 TAU Code	HL7 TAU Name	HL7 TAU Description
1	Business	B	WP	Work place	An office address. First choice for business related contacts during business hours.
2	Personal	P	H	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’.

The data elements that use this value set contain 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

code	descriptor
AEU	Accurate day, estimated month, unknown year
AUE	Accurate day, unknown month
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 - Entitlement Type

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

10.14 HL7 v3 CDA: Act.moodCode

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

10.15 HL7 RoleCode and RoleClass codes

displayName	code	codeSystemName	codeSystem
agent	AGNT	RoleClass	2.16.840.1.113883.5.110
Self	SELF	RoleCode	2.16.840.1.113883.5.111

10.16 METeOR 291036: Indigenous Status

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

10.17 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

10.18 OIDs

codeSystem (OID)	codeSystemName
1.2.36.1.2001.1001.101	NCTIS Data Components
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
2.16.840.1.113883.6.96	SNOMED CT-AU
2.16.840.1.113883.6.96	Australian Medicines Terminology (AMT)
2.16.840.1.113883.6.1	LOINC

10.19 HL7 V3: Diagnostic Service Section ID

displayName	code	codeSystemName	codeSystem
Audiology	AU	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Bedside ICU Monitoring	ICU	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Blood Bank	BLB	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Blood Gases	BG	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Cardiac Catheterization	CTH	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Cardiac Ultrasound	CUS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
CAT Scan	CT	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Chemistry	CH	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Cineradiograph	XRC	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Cytopathology	CP	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Electrocardiac (e.g., EKG, EEC, Holter)	EC	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Electroneuro (EEG, EMG,EP,PSG)	EN	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Hematology	HM	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Immunology	IMM	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Laboratory	LAB	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Microbiology	MB	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Mycobacteriology	MCB	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Mycology	MYC	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Nuclear Magnetic Resonance	NMR	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Nuclear Medicine Scan	NMS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Nursing Service Measures	NRS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
OB Ultrasound	OUS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Occupational Therapy	OT	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74

displayName	code	codeSystemName	codeSystem
Other	OTH	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Outside Lab	OSL	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Pharmacy	PHR	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Physical Therapy	PT	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Physician (Hx. Dx, admission note, etc.)	PHY	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Pulmonary Function	PF	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Radiation Therapy	RT	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Radiograph	RX	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Radiology	RAD	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Radiology Ultrasound	RUS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Respiratory Care (therapy)	RC	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Serology	SR	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Surgical Pathology	SP	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Toxicology	TX	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Vascular Ultrasound	VUS	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74
Virology	VR	HL7 Diagnostic service section ID	2.16.840.1.113883.12.74

Appendix A. CDA Narratives

CDA requires that each Section in its Body include a narrative block, containing a clinically complete version of the section's encoded content using custom hypertext markup defined by HL7. The narrative is the human-readable and attestable part of a CDA document, and **SHALL** stand alone as an accurate representation of the content of the document without any need to consult entries in the body.

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 narrative contents **SHALL** conform to the requirements specified in the CDA Rendering Specification.
 - In accordance with the requirement to completely represent Section contents, values of codedText or codedableText data elements defined in the SCS **SHALL** include an originalText or a displayName component (or both). Where available, the originalText **SHOULD** be found in the narrative, otherwise the displayName **SHOULD** be found in the narrative.
- It **SHALL** completely and accurately represent the clinical 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.

Clinical judgement is required to determine the appropriate presentation for narrative. NEHTA may release additional guidance in this regard. The examples provided in sections of this document, and the separate full example, offer some guidance for narrative block markup. They may be easily adapted as boilerplate markup.

DRAFT

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