



eDischarge Summary - Core

CDA Implementation Guide

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Related documents

Name	Version/ Release/Date
<i>Discharge Summary Release 1.0 – Business Requirements Specification</i>	V0.14
<i>Core Discharge Summary – Core Information Components</i>	V1.0
<i>Core Discharge Summary Structured Document Template</i>	V2.1
<i>Data Specifications – Guide for Use</i>	V1.0
<i>Document Header Data Specification</i>	V2.0
<i>Participation Data Specification</i>	V2.0
<i>Participation Specialisations Data Specification</i>	V1.0

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Table of contents

1	Introduction	1
1.1	Document Purpose and Scope	1
1.2	Discharge Summary Definition	1
1.3	HL7 Clinical Document Architecture	1
1.4	Intended Audience.....	2
1.5	Document Map.....	3
1.6	Acronyms.....	4
1.7	Keywords	4
1.8	Conformance	5
2	Guide for Use.....	6
2.1	Clinical Document Architecture Release 2	6
2.2	Mapping Interpretation	7
2.3	CDA Extensions.....	14
2.4	W3C XML Schema.....	14
2.5	Schematron.....	14
2.6	Implementation Strategies.....	15
3	Discharge Summary Header Data Hierarchy	16
4	Discharge Summary Detail Data Hierarchy	17
5	Administrative Observations.....	21
6	Header Data Specification – CDA Mapping	24
6.1	DISCHARGE SUMMARY	24
6.2	HEALTH EVENT CONTEXT	28
6.2.1	PATIENT	30
6.2.2	FACILITY.....	40
6.3	DOCUMENT CONTEXT	46
6.3.1	DOCUMENT RECIPIENT DETAIL	58
7	Body Data Specification – CDA Mapping	72
7.1	DISCHARGE SUMMARY.....	72
7.2	EVENT	75
7.2.1	ENCOUNTER	78
7.2.2	PROBLEMS/DIAGNOSES THIS VISIT.....	94
7.2.3	CLINICAL INTERVENTIONS PERFORMED THIS VISIT.....	99
7.2.4	CLINICAL SYNOPSIS.....	103
7.2.5	DIAGNOSTIC INVESTIGATIONS	109
7.3	MEDICATIONS	116
7.3.1	CURRENT MEDICATIONS ON DISCHARGE	119
7.3.2	CEASED MEDICATIONS	132
7.4	HEALTH PROFILE	141
7.4.1	HEALTHCARE PROVIDERS.....	144
7.4.2	ADVERSE REACTIONS	158
7.4.3	ALERTS.....	166
7.5	PLAN	171
7.5.1	ARRANGED SERVICES.....	174
7.5.2	RECOMMENDATIONS AND INFORMATION PROVIDED.....	181
8	Common Patterns	189
8.1	code	189
8.2	id.....	190
8.3	time	190

8.4	Entity Identifier	192
8.5	Person Name	195
8.6	Address	197
8.7	Electronic Communication Detail.....	201
8.8	Healthcare Provider Field of Practice.....	203
8.9	AssignedEntity.AssignedPerson.....	204
8.10	AssignedEntity.RepresentedOrganization	207
8.11	Attachment	210
9	NEHTA CDA Extensions	212
9.1	ClinicalDocument.completionCode.....	212
9.2	Employment	213
9.3	FieldOfPractice	214
9.4	IntendedRecipient.code	214
9.5	EntityIdentifier.....	215
9.6	Patient.deceasedTime	216
10	Vocabularies/Code Sets.....	217
10.1	HL7 v3: TelecommunicationAddressUse.....	217
10.2	AS 5017-2006 Health Care Client Identifier Sex.....	218
10.3	AS 5017-2006: Health Care Client Name Usage	219
10.4	AS 5017-2006: Health Care Client Name Conditional Use Flag	220
10.5	AS 5017-2006: Health Care Client Source of Death Notification.....	221
10.6	AS 5017-2006: Health Care Client Identifier Address Purpose	221
10.7	AS 5017-2006: Health Care Client Identifier Geographic Area	222
10.8	AS 5017-2006: Health Care Client Electronic Communication Medium	223
10.9	AS 5017-2006: Health Care Client Electronic Communication Usage Code.....	225
10.10	AS 5017-2006 Australian State/Territory Identifier - Postal	226
10.11	NCTIS: Admin Codes - Sections/Entries	227
10.12	NCTIS: Admin Codes - Document Status	229
10.13	HL7 v2.4: Table 0123 Result Status	230
10.14	HL7 v3: Confidentiality.....	231
10.15	OIDs	231
11	References.....	232
	Appendix A: Known Issues.....	234

1 Introduction

1.1 Document Purpose and Scope

The purpose of this document is to provide a guide to implementing the “logical” model details by NEHTA’s eDischarge Summary - Core Structured Document Template (eDS SDT) as an HL7 Clinical Document Architecture Release 2 (CDA) XML document. This guide is based on an upcoming maintenance release of the eDS SDT scheduled to be published in early 2010. The primary aim of the guide is to take implementers step by step through mapping each data component of the eDS SDT to a corresponding CDA attribute or element.

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

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

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

1.2 Discharge Summary Definition

A *discharge summary* is defined in [SA2007] as:

A collection of information about events during care by a provider or organisation.

A *discharge summary* is a document produced during a patient's stay in hospital as an admitted or non-admitted patient and issued when or after a patient leaves the care of the hospital.

Its primary function is to support the continuity of care when the patient returns to the care of their community healthcare providers. The primary recipients of the discharge summary are healthcare providers who were providing patient care prior to the hospital stay.

1.3 HL7 Clinical Document Architecture

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

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

Some of the advantages of CDA are:

- It is machine computable and human readable.
- It provides a standardised display of clinical information without loss of clinical meaning.
- It provides assurance of clinical quality and safety more effectively than message-based interfaces by storing and displaying the clinical data as entered by the clinician.

- It provides better support than HL7 V2 messages for:
 - more complex information structures, such as pathology synoptic reporting; and
 - terminologies such as SNOMED CT[®].¹
- 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.

The 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 [\[SA2007\]](#). Definitions and examples are provided to clarify relevant terminology usage and intent.

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

1.5 Document Map

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

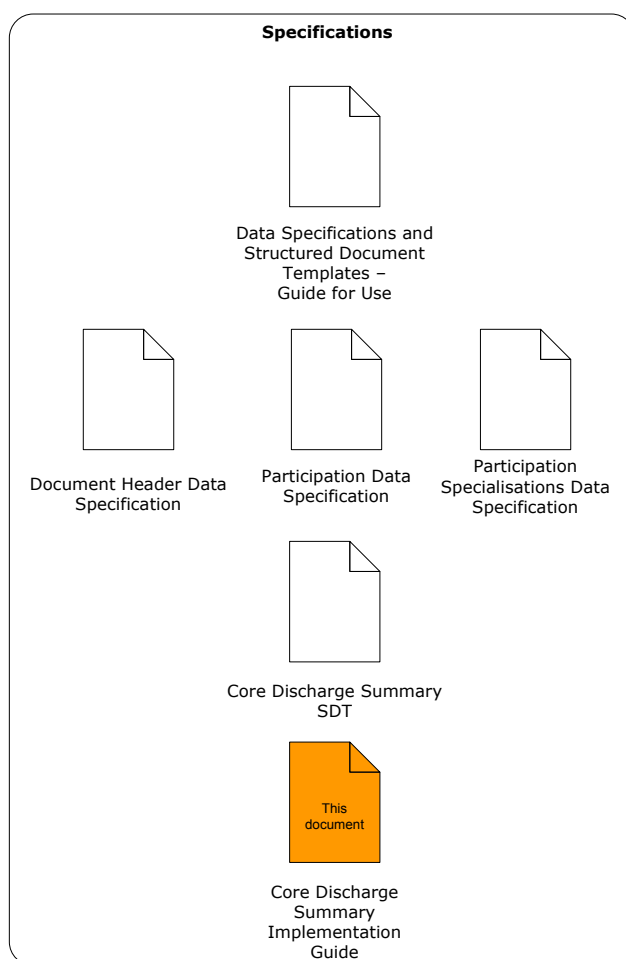


Figure 1: Document map

1. *Discharge Summary – Structured Document Template* [NEHT2010] – clinical content specification which describes the logical data structures, data components, and value domains which constitute a Core Discharge Summary.
2. *Data Specifications and Structured Document Templates – Guide for Use* [NEHT2009D] – which describes the generic data structures, data types, keywords and icons used within the Structured Document Template.
3. *Document Header Data Specification* [NEHT2009C] – which contains a comprehensive specification of the standardised header used across all NEHTA Structured Document Templates.
4. *Participation Data Specification* [NEHT2009E] – which contains the full specification which forms the basis of all participations contained in NEHTA Structured Document Templates.
5. *Participation Specialisations Data Specification* [NEHT2009F] – clinical content specification which describes the logical data structures, data components, and value domains which constitute a Core Discharge Summary.

1.6 Acronyms

CDA	Clinical Document Architecture
UUID	Universally Unique Identifier
HL7	Health Level 7
RIM	Reference Information Model
SDT	Structured Document Template
XHTML	Extensible Hypertext Markup Language
XML	Extensible Markup Language
XSL	Extensible Stylesheet Language

1.7 Keywords

Where used in this document, the keywords **MUST**, **SHOULD**, **MAY**, **MUST NOT** and **SHOULD NOT** are to be interpreted as described in [\[RFC1997\]](#).

Keywords used in this document

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

1.8 Conformance

This document describes how an eDS SDT is implemented as an CDA document. Conformance can be claimed to this *Implementation Guide*, either with regard to instances of eDischarge Summary – Core CDA XML documents, or to systems that consume or produce eDischarge Summary – Core CDA XML documents. When a conformance claim is made, it is made against this document, i.e. 'eDischarge Summary - Core: CDA Implementation Guide v1.0'.

A conformant document has the following properties:

- It **MUST** be a valid HL7 CDA instance. In particular:
 - It **MUST** be valid against the HL7 CDA Schema (once extensions have been removed, see Section 2.4: [W3C XML Schema](#)).
 - It **MUST** conform to the HL7 V3 data type specification.
 - It **MUST** render correctly using the HL7 provided CDA transform.
- It **MUST** be valid against the NEHTA CDA eDS Schema that accompanies this specification.
- It **MUST** use the mappings as they are stated in this document.
- It **MUST** use all fixed values as specified in the mappings. (e.g. @attribute='FIXED_VALUE').
- It **MUST** use vocabularies and codes sets as specified in the mappings, unless the vocabulary has been explicitly stated as *NS: Not specified - Use existing reference sets until NEHTA determines a suitable common reference set*.
- It **MUST** adhere to all cardinalities as specified in the mappings.
- It **MUST** be valid against the additional conformance requirements that are established in this document.
- The data as contained in the data types **MUST** conform to the additional data type specification [[NEHT2009D](#)].
- It **SHOULD** ensure that all the information in the CDA narrative sections is also present as coded entries. Note: it is a base CDA requirement that all data in the entries **MUST** be represented in the narrative.

A system that *produces* Core Discharge Summary CDA documents may claim conformance if all the documents it produces are conformant to this guide.

A system that *consumes* Core Discharge Summary CDA documents may claim conformance if it correctly processes conformant instance documents, including correctly understanding all the information in the header. It may, but is not required to, reject non-conformant documents. Note: conformant systems that consume Core Discharge Summary CDA documents are not required to process all the entries in the document (see below) but they **MUST** be able to correctly render the document for end-users when appropriate.

2 Guide for Use

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

1. A *Structured Document Template* (SDT), which, in conjunction with its related documents (see Section [1.5: Document Map](#)), describes the eDischarge Summary - Core, in a form that is consistent with other NEHTA specifications. It has the potential to be implemented in multiple different exchange formats as is most suitable for a particular context. It describes the data content of an eDischarge Summary - Core 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 SDT is properly represented in a CDA document.

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

For further information regarding NEHTA Structured Document Templates, see the links in Section [1.5: 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 structured text or a combination of both structured text and structured data. The structured text can easily be transformed to XHTML and displayed to a human. The structured data allows machine processing of the information shown in the renderable portion.

CDA contains a requirement that all of its clinical information must be marked up in CDA narratives. These narratives are CDA defined hypertext, able to be rendered in web browsers without accompanying transformations.

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

HL7 provides an XSL transform that can be used to provide an enhanced browser display of the CDA document.

The following are useful references to gain a better understanding of CDA and may assist the reader in understanding this guide:

- CDA Specification: [\[HL72009C\]](#)
- RIM, Data types and Vocabulary: [\[HL72009E\]](#)
- Useful CDA examples repository: [\[RING2009\]](#)
- CDA Validation Tools: [\[INFO2009\]](#)

2.2 Mapping Interpretation

The core of this guide is a mapping from the eDS SDT to the CDA document representation.

The mappings may not be deterministic; in some cases the differences in approach between the logical model specified in SDT and CDA document implementation specifics 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 SDT 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 SDT and the CDA document. These common mapping patterns are described in Section 8: [Common Patterns](#).

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

x.x ITEM NAME

Identification (normative)

Name	ITEM NAME
Metadata Type	Metadata type e.g. Section, Data Group or Data Element
Identifier	NEHTA internal Identifier.

Relationships (normative)

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
Icon illustrating the Metadata or Datatype	<p>ITEM NAME</p> <p>This is a link to another section containing the mapping for this item.</p>	Obligation of this child item to the item described on this page.	The number of instances of this child item that may occur.

Parent

Type	Name	Obligation	Occurrence
Icon illustrating the Metadata or Datatype	ITEM NAME This will always be a link to another section containing the mapping for this item.	Obligation of the item described on this page to this parent item.	The number of instances of the item described on this page that may occur.

CDA Model

Text with an explanation of the mapping (non-normative).

Constrained representation of the R-MIM (normative).

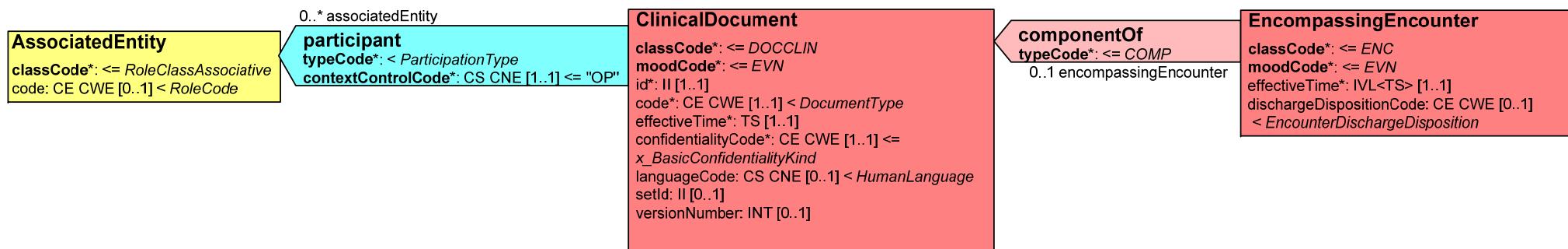


Figure 2: CDA Model for Example

SDT to CDA Mapping (normative)

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Type of CDA Element (Header, Body Level 2 etc)			Context: Context (parent of elements below)		
<p>The path in the SDT.</p> <p>Each section in this document corresponds to an SDT section or data group, and is scoped by that section or data group. The hierarchical path uses ">" as a separator for paths within the SDT 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 SDT 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 SDT.</p>	<p>The cardinality of the data element in the SDT.</p> <p>The cardinality of the data element in the SDT maps to the cardinality of the element in the CDA document.</p> <p>Where the cardinality of the SDT data element is more constrained than the cardinality of the CDA element then the SDT cardinality takes precedence. i.e. if an element is mandatory in the SDT 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 SDT 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 optionality { }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 NEHTA CDA Schema. The cardinalities of the items map through from the SDT.</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 details. The indexes show which of the multiple mappings is the parent of the inner detail. Note that each of the indexed participations may exist more than once (as specified by the SDT 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 SDT 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:

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Context: ClinicalDocument					
Encounter	Describes the general details about a stay in a healthcare facility as an admitted or non-admitted patient.	1..1	componentOf/ encompassingEncounter		
Encounter> DateTime Encounter Started	The date (and optionally time) of the start of the encounter that this discharge summary refers to. In the case of admitted patients, this is the date/time of their admission to the healthcare facility.	1..1	componentOf/encompassingEncounter/ effectiveTime/low		See <time> for available attributes.
Encounter> DateTime Encounter Ended	The date (and optionally time) of the end of the encounter that this discharge summary refers to. In the case of admitted patients, this is the date/time of their discharge.	1..1	componentOf/encompassingEncounter/ effectiveTime/high		See <time> for available attributes.
Encounter> Separation Mode	Status at separation of the patient (e.g. discharge/transfer/death) and place to which person is released (e.g. home).	1..1	componentOf/encompassingEncounter/ dischargeDispositionCode	AIHW Mode of Separation [AIHW2005]	
Encounter> Location of Discharge	The name or identifier of the physical location from which the patient was discharged. In the case of admitted patients, this should be the ward in which they were located at the time of discharge. For non-admitted patients, this may be the department in which the encounter occurred.	1..1	participant		
			participant/@ typeCode='ORG'		
			participant/ associatedEntity		
			participant/associatedEntity/@ classCode='SDLOC'		
Context: ClinicalDocument/component/structuredBody/component/section[admin_obs] (See Administrative Observations)					
Encounter> Specialty	A reverse chronological list of the clinical specialties under which the patient was treated during the encounter (i.e. the last specialty appears first). Each specialty should only appear once in the list, in its first (i.e. most recent) position.	0..*	entry		
			entry/@ typeCode='DRIV'		
			entry/ observation		
			entry/observation/@ classCode='OBS'		
			entry/observation/@ moodCode='EVN'		
			entry/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
entry/observation/ id	UUID	See <id> for available attributes.			
entry/observation/ value:LIST<CD>	NS				

The Encounter section is part of the detail section of the SDT (as opposed to being part of the header). Although it is located in the detail section of the SDT, it contains data components that map to the CDA header as well as data components that map to the CDA body. This information is specified in the grey header row located above each group of mapping rows. The context remains the same until a new grey header row starts.

The first row of the mapping (after the shaded header rows), 'Encounter', 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/componentOf/**encompassingEncounter**

See comment 1 in the example XML fragment below.

Due to the fact that 'Encounter' is part of the detail section of the SDT (as opposed to a header element), information about it and its child elements can be located in the SDT document by finding the data component in the table of contents under the Data Specifications section and navigating to the relevant page.

If the data component were part of the header section of the SDT, information about it could be located by finding the data component (or its parent) in the table of contents under the Discharge Summary Header section of the eDS SDT.

Moving down the table to the shaded context row 'CDA Body Level 3 Data Elements', the data components after this row map to the CDA body. For the data component 'Speciality', adding together the context and the mapping using '/' gives the following paths for the CDA body level 3 data elements:

2. ClinicalDocument/component/structuredBody/component/section[admin_obs]/**entry**
3. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/**@typeCode='DRIV'**
4. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/**observation**
5. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/observation/**@classCode='OBS'**
6. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/observation/**@moodCode='EVN'**
7. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/observation/**code**
8. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/observation/**id**
9. ClinicalDocument/component/structuredBody/component/section[admin_obs]/entry/observation/**value:LIST<CD>**

The order of the eDS SDT 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 NEHTA CDA Schema.

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

See comments 2-9 in the example below.

The preceding mappings produce the example XML fragment as follows:

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <!-- Begin CDA Header -->

  ...

  <!-- Begin Encounter discharge location -->
  <participant typeCode="ORG">
    <associatedEntity classCode="SDLOC">
      <code>
        <originalText>Ward B</originalText>
      <code>
    </associatedEntity>
  </participant>
  <!-- End Encounter discharge location -->

  <!-- Begin Encounter (header part) -->
  <componentOf>
    <!-- 1. Corresponds to 'encompassingEncounter' in the mapping. -->
    <encompassingEncounter>
      <effectiveTime>
        <low value="20090101" />
        <high value="20090125" />
      </effectiveTime>
      <dischargeDispositionCode code="9" codeSystem="2.16.840.1.113883.13.65"
        codeSystemName="Episode of admitted patient care-separation mode"
        displayName="Other (includes discharge to usual residence, own accommodation/welfare institution (includes prisons, hostels and group
homes providing primarily welfare services))" />

      ...

    </encompassingEncounter>
  </componentOf>
  <!-- End Encounter (header part) -->
  <!-- End CDA Header -->

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

      <!-- Begin Section Administrative Observations -->
      <component>
        <section>
          <code code="102.16080.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Administrative Observations" />
          <title>Administrative Observations</title>
          <text>
            <table>
```

```

        <tbody>
            ...
            <tr>
                <th>Specialty</th>
                <td>Dermatology, Paediatric cardiology, Rheumatology</td>
            </tr>
        </tbody>
    </table>
</text>

...

<!-- Begin Encounter - Specialty (Administrative Observations) -->
<!-- 2, 3 Corresponds to '//entry' and '//entry/typeCode='DRIV' in the mapping. -->
<entry typeCode="DRIV">
    <!-- 4, 5, 6 Corresponds to '//entry/observation' and
        '//entry/observation/@classCode='OBS'' and
        '//entry/observation/@moodCode='EVN'' in the mapping. -->
    <observation classCode="OBS" moodCode="EVN">
        <!-- 8 Corresponds to '//entry/observation/id' in the mapping. -->
        <id root="A27F2F28-C379-11DE-9550-A59055D89593" />
        <!-- 7 Corresponds to '//entry/observation/code' in the mapping. -->
        <code code="103.16028.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Specialty" />
        <!-- 9 Corresponds to '//entry/observation/value:LIST<CD>' in the mapping. -->
        <value xsi:type="CD" code="394582007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Dermatology" />
        <value xsi:type="CD" code="408459003" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Paediatric cardiology" />
        <value xsi:type="CD" code="394810000" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Rheumatology" />
    </observation>
</entry>
</section>
</component>
<!-- End Encounter - Specialty (Administrative Observations) -->
<!-- End Section Administrative Observations -->

...

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

```

2.3 CDA Extensions

The eDS SDT 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 could not be used to indicate that an observation does not apply.
- 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 1.0 of these extensions are incorporated in the namespace <http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0> 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/2.0”.

2.4 W3C XML Schema

This document refers to an accompanying NEHTA CDA W3C XML Schema for eDischarge Summary – Core (referred to in this document as the NEHTA CDA eDS Schema). This schema differs from the base HL7 CDA W3C XML Schema (referred to in this document as the HL7 CDA Schema) in two ways:

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

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

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

Discharge summaries that conform to this specification **MUST** validate against the NEHTA CDA Schema that accompanies this specification, and **MUST** 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 Section [1.8: 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 Schematrons assertions have not yet been developed: NEHTA is considering the distribution of these rules in association with future releases of this guide.

2.6 Implementation Strategies

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











- Read or write Core Discharge Summary CDA document directly using a Document Object Model (DOM) and/or 3rd Generation Language (3GL) code.
- Transform an existing XML format to and from a Core Discharge Summary CDA document.
- Use a popular toolkit to generate a set of classes from HL7 CDA Schema or the NEHTA eDS 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 Discharge Summary Header Data Hierarchy

The data hierarchy below provides a logical representation of the data structure of the eDS SDT header data components.















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






























	DISCHARGE SUMMARY HEADER		
	HEALTH EVENT CONTEXT		!
	PATIENT (SUBJECT OF CARE)		!
	FACILITY		!
	DOCUMENT CONTEXT		!
	DOCUMENT CONTROL		!
	ID	Document Instance Identifier	!
	ID	Document Set Identifier	!
	123	Version Number	!
	ID	Document Originating System Identifier	!
	T010	Business Document Type	!
	123	Business Document Type Version Number	!
	T010	Confidentiality Indicator	0
		DateTime Attested	!
	T010	Document Status	!
	T010	Language (default to en-AU)	!
	DOCUMENT AUTHOR		!
	DOCUMENT RECIPIENT DETAIL		! ↻
	T010	Document Recipient Type	!
		DOCUMENT RECIPIENT	!










4 Discharge Summary Detail Data Hierarchy













As represented in the data hierarchy below, the detail part of the eDS SDT contains information related to the patient's healthcare encounter, problems, interventions, medications and plans proposed for post discharge care.

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

	DISCHARGE SUMMARY DETAIL			
	EVENT			!
		ENCOUNTER		!
			DateTime Encounter Started	!
			DateTime Encounter Ended	!
		T010	Separation Mode	!
		VT..	Specialty	o ↻
		T	Location of Discharge	!
			RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE	!
			OTHER PARTICIPANT	o ↻
		PROBLEMS/DIAGNOSES THIS VISIT		!
			PROBLEM/DIAGNOSIS	! ↻
		T010	Problem/Diagnosis Type	!
		VT..	Problem/Diagnosis Description	!
		CLINICAL INTERVENTIONS PERFORMED THIS VISIT		o
			CLINICAL INTERVENTION	! ↻
		VT..	Clinical Intervention Description	!
		CLINICAL SYNOPSIS		!
		T	Clinical Synopsis Description	!
		DIAGNOSTIC INVESTIGATIONS		o
			DIAGNOSTIC INVESTIGATION	! ↻
		VT..	Diagnostic Investigation Type	!

		DISCHARGE SUMMARY DETAIL			
				Diagnostic Investigation Name	!
				DateTime of Diagnostic Investigation	!
				Result Status	!
				REPORT ATTACHMENT	o
		MEDICATIONS			!
		CURRENT MEDICATIONS ON DISCHARGE			!
			KNOWN MEDICATIONS		!
				Known Medications Type	!
				Known Medications Value	!
			ITEM DETAIL		o ↻
				Item Status	!
				ITEM	!
				Item Description	!
				Medication Duration	o
				Reason for Medication	o
				Unit of Use Quantity Dispensed	o
				DOSAGE	!
				Dose Instruction	!
				CHANGE DETAIL	o
				Changes Made	!
				Reason for Change	o
				MEDICATION ITEM AUTHORISER	!
				Additional Comments	o
		CEASED MEDICATIONS			!
			KNOWN MEDICATIONS		!
				Known Medications Type	!
				Known Medications Value	!
			ITEM DETAIL		o ↻

	DISCHARGE SUMMARY DETAIL				
			T₀₁₀	Item Status	!
			F	ITEM	!
				VT_{..} Item Description	!
			F	CHANGE DETAIL	!
				VT_{..} Changes Made	!
				T Reason for Change	!
S 	HEALTH PROFILE				!
	F	HEALTHCARE PROVIDERS			o
			NOMINATED PRIMARY HEALTHCARE PROVIDER		o ↻
	F	ADVERSE REACTIONS			!
		T₀₁₀	Known Adverse Reactions Value		!
		F	ADVERSE REACTION		o ↻
			T₀₁₀	Adverse Reaction Presence	!
			VT_{..}	Agent Description	!
			F	REACTION DETAIL	o ↻
				VT_{..} Reaction Description	!
	S 	ALERTS			o
		F	ALERT		! ↻
			VT_{..}	Alert Type	!
			VT_{..}	Alert Description	!
S 	PLAN				!
	S 	ARRANGED SERVICES			o
		F	ARRANGED SERVICE		! ↻
			VT_{..}	Arranged Service Description	!
				Service Commencement Window	o
				SERVICE PROVIDER	o
			VT_{..}	Service Booking Status	!
	S 	RECOMMENDATIONS AND INFORMATION PROVIDED			!

		DISCHARGE SUMMARY DETAIL		
			INFORMATION PROVIDED	O
			T Information Provided to Subject of Care and/or Relevant Parties	!
			RECOMMENDATIONS PROVIDED	! 
			RECOMMENDATION RECIPIENT	!
			T Recommendation Note	!
	ATTACHMENTS (Each section has an optional ATTACHMENT)			O
		ATTACHMENT		! 
		T	Document Name	!
			DOCUMENT CONTROL	O
			ID Document Instance Identifier	!
			ID Document Set Identifier	!
			123 Version Number	!
			ID Document Originating System Identifier	!
			T010 Business Document Type	!
			123 Business Document Type Version Number	!
			T010 Confidentiality Indicator	O
			DateTime Attested	!
			T010 Document Status	!
			T010 Language	!
			Link or Data	!

5 Administrative Observations

See Known Issues: [Administrative Observations](#)

The eDS SDT contains a number of data elements that are logically part of the Discharge Summary SDT header, 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 Model

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

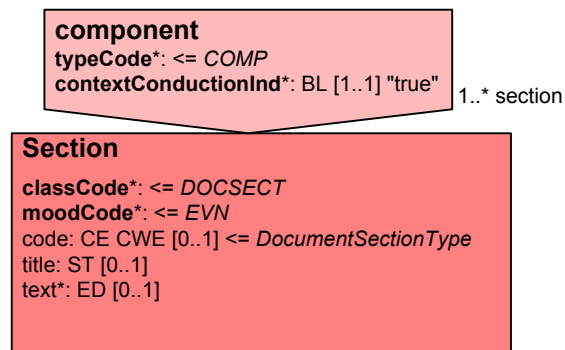


Figure 3: CDA Model for Administrative Observations

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="1.2.36.1.2001.1001.101.20000" extension="2.0" />
  <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593" />
  <code code="18842-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Discharge Summarization Note" />
  <effectiveTime value="200910201235" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality" />
  <languageCode code="en-AU" />
  <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593" />
  <versionNumber value="1" />
  <ext:completionCode code="AU" codeSystem="2.16.840.1.113883.5.33" codeSystemName="HL7 DocumentCompletion"
    displayName="authenticated" />
  ...
  <custodian>
    <assignedCustodian>
      <representedCustodianOrganization>
        <id nullFlavor="NA" />
        <name>Oz Health Clinic</name>
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />
          <ext:assigningScopingEntity classCode="IDENT">
            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
              codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area" displayName="National Identifier" />
            </ext:assigningScopingEntity>
          </ext:asEntityIdentifier>
        </representedCustodianOrganization>
      </assignedCustodian>
    </custodian>
    ...
    <component>
      <structuredBody>
        ...
      </structuredBody>
    </component>
  </ClinicalDocument>
```

CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody					
n/a	n/a		component/section[admin_obs]/ code	NCTIS: Admin Codes	See <code><code></code> for available attributes.
			component/section[admin_obs]/ title='Administrative Observations'		
			component/section[admin_obs]/ text		

6 Header Data Specification – CDA Mapping



6.1 DISCHARGE SUMMARY

Identification

Name	DISCHARGE SUMMARY
Metadata Type	Structured Document
Identifier	ES-20000

Relationships

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

Type	Name	Obligation	Occurrence
	HEALTH EVENT CONTEXT	Essential	1..1
	DOCUMENT CONTEXT	Essential	1..1

CDA Model

Figure 4 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to both CDA Header and CDA Body elements. For the CDA Body mappings see Section 7.1: [DISCHARGE SUMMARY](#).

The following extract from the CDA specification defines the ClinicalDocument class:

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

ClinicalDocument.typeId is a technology-neutral explicit reference to this CDA, Release Two specification, and must be valued as follows: ClinicalDocument.typeId.root = "2.16.840.1.113883.1.3" (which is the OID for HL7 Registered models); ClinicalDocument.typeId.extension = "POCD_HD000040" (which is the unique identifier for the CDA, Release Two Hierarchical Description).” (HL7 *Clinical Document Architecture, Release 2* <www.hl7.com>)

The ClinicalDocument element also carries the time that the document was created. This may be different to the time that the information in the document was created.

Stewardship is one of the core characteristics of CDA and is defined as follows:

“Stewardship – A clinical document is maintained by an organization entrusted with its care.” (HL7 *Clinical Document Architecture, Release 2* <www.hl7.com>)

The custodian participation satisfies this definition of Stewardship as it represents the organisation that has the obligation of maintaining the clinical document. The custodian is the steward that is entrusted with the care of the document. Every CDA document must have exactly one custodian. Although not specified in the eDS SDT, a custodian for each document must be nominated. The identity of this custodian must be provided. The custodian is usually the same as the organisation that hosts the authoring system.

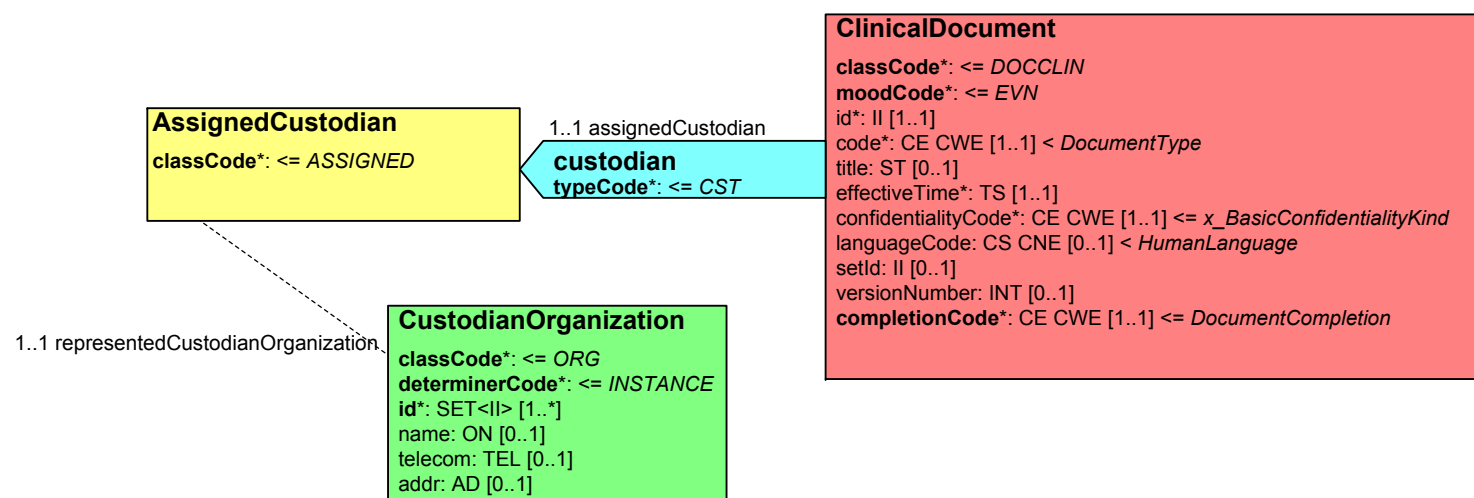


Figure 4: CDA Model for Discharge Summary

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Discharge Summary	A collection of information about events during care by a provider or organisation, which is released when the patient is discharged from the care of the provider organisation.	1..1	ClinicalDocument/typeId		
			ClinicalDocument/typeId/@extension='POCD_HD00040'		
			ClinicalDocument/typeId/@root='2.16.840.1.113883.1.3'		
			ClinicalDocument/code		
			ClinicalDocument/code/@code='18842-5'		
			ClinicalDocument/code/@codeSystem='2.16.840.1.113883.6.1'		
			ClinicalDocument/code/@codeSystemName='LOINC'		
			ClinicalDocument/code/@displayName='Discharge Summarization Note'		
			ClinicalDocument/effectiveTime		Document creation time.
n/a	n/a	1..1	ClinicalDocument/custodian		
n/a	n/a	1..1	ClinicalDocument/custodian/assignedCustodian		
n/a	n/a	1..1	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization		
n/a	n/a	1..1	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/id		
n/a	n/a	1..1	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/id/@nullFlavor='NA'		
n/a	n/a	1..*	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/<Entity Identifier>		
n/a	n/a	0..*	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/name		
n/a	n/a	0..*	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/telecom		
n/a	n/a	0..*	ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/addr		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="1.2.36.1.2001.1001.101.20000" extension="2.0" />
  <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593" />
  <code code="18842-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Discharge Summarization Note" />
  <effectiveTime value="200910201235" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality" />
  <languageCode code="en-AU" />
  <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593" />
  <versionNumber value="1" />
  <ext:completionCode code="AU" codeSystem="2.16.840.1.113883.5.33" codeSystemName="HL7 DocumentCompletion"
    displayName="authenticated" />
  ...
  <custodian>
    <assignedCustodian>
      <representedCustodianOrganization>
        <id nullFlavor="NA" />
        <name>Oz Health Clinic</name>
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />
          <ext:assigningScopingEntity classCode="IDENT">
            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
              codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area" displayName="National Identifier" />
          </ext:assigningScopingEntity>
        </ext:asEntityIdentifier>
      </representedCustodianOrganization>
    </assignedCustodian>
  </custodian>
  ...
  <component>
    <structuredBody>
      ...
    </structuredBody>
  </component>
</ClinicalDocument>
```



6.2 HEALTH EVENT CONTEXT

Identification


Name	HEALTH EVENT CONTEXT
Metadata Type	Data Group
Identifier	DG-20102

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	PATIENT	Essential	1..1
	FACILITY	Essential	1..1

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Essential	1..1

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Health Event Context	Describes the subject of care and the facility for the healthcare event/encounter/clinical interaction, including the care setting of the event.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.


6.2.1 PATIENT

Identification

Name	PATIENT [SUBJECT OF CARE]
Metadata Type	Data Group (reuse of PARTICIPATION BY NON-HEALTHCARE PROVIDER (PERSON) WITH DEMOGRAPHICS, please refer to Data Specification - PARTICIPATION SPECIALISATIONS for more detail [NEHT2009F]).
Identifier	DG-10296

Relationships

Parent

Type	Name	Obligation	Occurrence
	HEALTH EVENT CONTEXT	Essential	1..1

CDA Model

Figure 5 and Figure 6 show a subset of the CDA model containing those classes being referred to in the SDT to 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 Discharge Summary document belongs. The recordTarget is associated to the Patient class by the PatientRole class. In order to represent the Date of Death of a SUBJECT OF CARE, [Patient.deceasedTime](#) has been added as a NEHTA extension to CDA. [Employment](#) has also been added as a NEHTA extension to CDA to represent employment details.

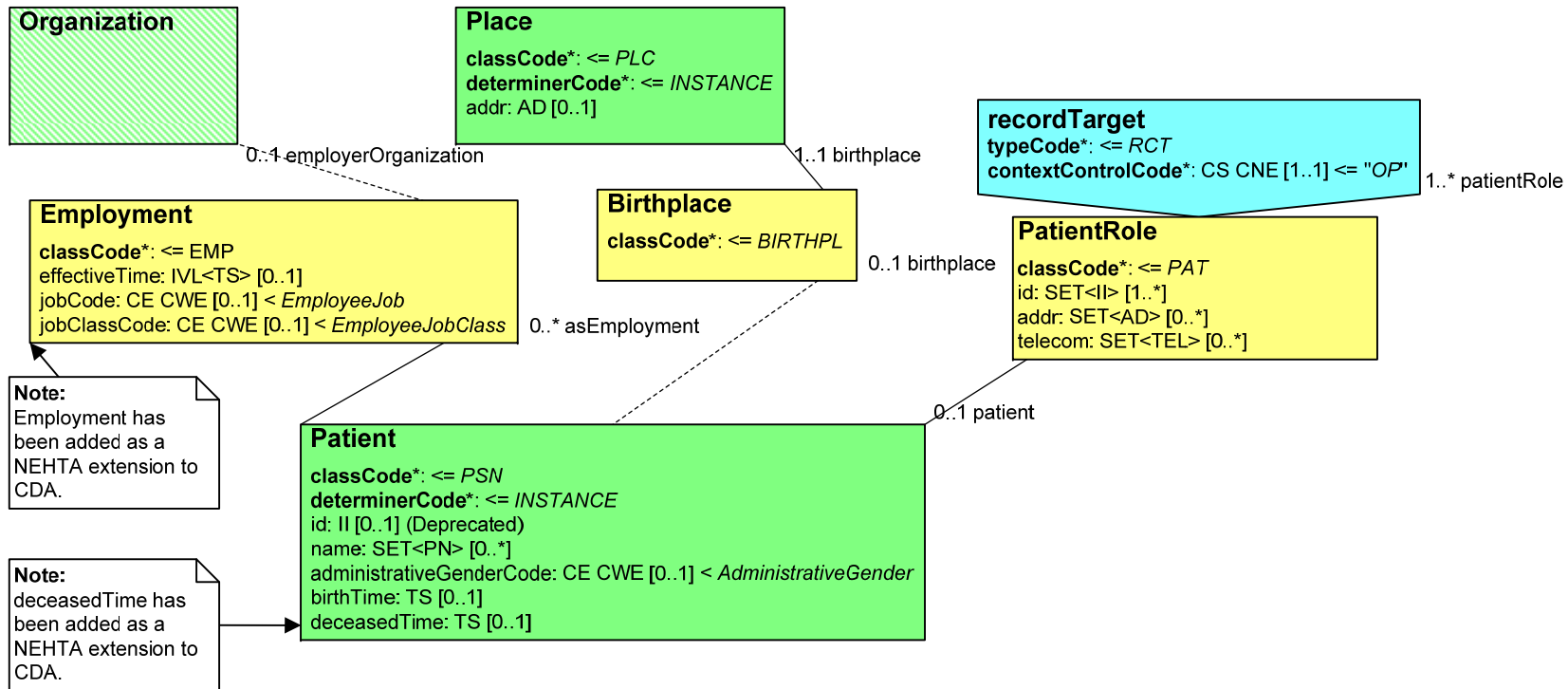


Figure 5: CDA Model for Patient – Header Data Elements

Note: Several data elements contained in the SUBJECT OF CARE data group could not be mapped to CDA Header elements. These data elements – Source of Death Notification, Mothers Original Family Name and Identification Notes have been mapped to Observations in the Administrative Observations section (see Section 5: [Administrative Observations](#)).

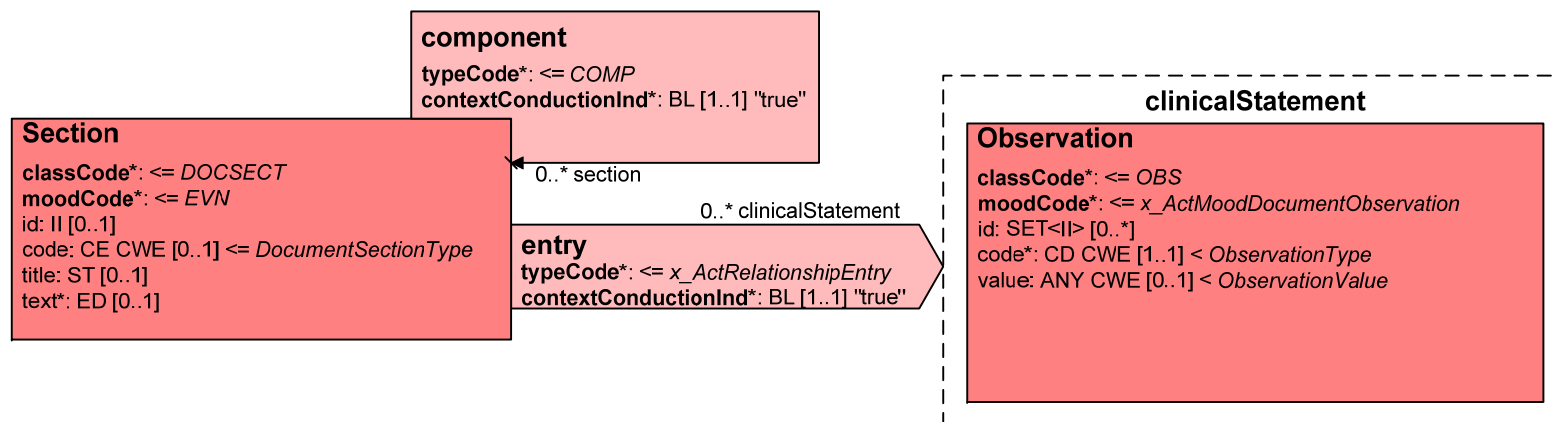


Figure 6: CDA Model for Patient – Body Data Elements

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Context: ClinicalDocument					
Patient (Subject of Care) (PARTICIPATION BY NON-HEALTHCARE PROVIDER (PERSON) WITH DEMOGRAPHICS)	Identifies the person about whom the healthcare event/encounter/clinical interaction has been captured and/or interchanged, that led to the creation of the document, i.e. the subject of the information.	1..1	recordTarget/patientRole		
n/a	n/a	1..1	recordTarget/patientRole/id/@nullFlavor='NA'		Required CDA element.
Patient> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a		Not mapped directly, encompassed implicitly in recordTarget/typeCode='RCT' (optional, fixed value).
Patient> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	recordTarget/patientRole/ patient		
Patient>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	recordTarget/patientRole/patient/< Entity Identifier >		See Common Pattern: Entity Identifier .
Patient>Participant> Address	The description of a location where an entity (person or organisation) 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..*	recordTarget/patientRole/< Address >		See Common Pattern: Address .
Patient>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	recordTarget/patientRole/< Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Patient>Participant> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/patient.
Patient>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 .
Patient>Participant>Person> Non Healthcare Provider Detail With Demographic Detail	Information including demographics about an individual who uses or is a potential user of a healthcare service, and is in a role that is not a healthcare provider.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Relationship to Subject of Care	Descriptor that specifies the relationship of a participant to a subject of care (patient).	1..1	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/patient.
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Sex	Sex is a biological distinction between male and female. Where there is inconsistency between anatomical and chromosomal characteristics, sex is based on anatomical characteristics.	0..1	recordTarget/patientRole/patient/ administrativeGenderCode	AS 5017-2006 Health Care Client Identifier Sex	
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Date of Birth	The date of birth of the person.	0..1	recordTarget/patientRole/patient/ birthTime		See <time> for available attributes.
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Date of Death	The date of death of the person.	0..1	recordTarget/patientRole/patient/ ext:deceasedTime		See NEHTA CDA extension: Patient.deceasedTime . See <time> for available attributes.
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component/section[admin_obs] (See Administrative Observations)		
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Source of Death Notification	Describes the source of death information relating to the date of death.	0..1	entry		
			entry/@typeCode='DRIV'		
			entry/observation		
			entry/observation/@classCode='OBS'		
			entry/observation/@moodCode='EVN'		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			entry/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
			entry/observation/ id	UUID	See <id> for available attributes.
			entry/observation/ value:CD	AS 5017-2006: Health Care Client Source of Death Notification	See <code> for available attributes.
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Mothers Original Family Name	The original family name of the person's mother.	0..1	entry		
			entry/@ typeCode='DRIV'		
			entry[mothers_name]/ observation		
			entry[mothers_name]/observation/@ classCode='OBS'		
			entry[mothers_name]/observation/@ moodCode='EVN'		
			entry/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
			entry/observation/ id	UUID	See <id> for available attributes.
			entry/observation/ value:PN		
CDA Header Data Elements			Context: ClinicalDocument		
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Country of Birth	The country in which the person was born.	0..1	recordTarget/patientRole/patient/ birthplace/place/addr/country	Australia Bureau of Statistics, Standard Australian Classification of Countries (SACC) Cat. No. 1269 [ABS2008]	Use the name, not the numbered code.
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component/section[admin_obs] (See Administrative)		
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Identification Notes	Notes which may be used to assist in distinguishing between two or more persons with the same or similar demographic information.	0..1	entry[id_notes]		
			entry[id_notes]/@ typeCode='DRIV'		
			entry[id_notes]/ observation		
			entry[id_notes]/observation/@ classCode='OBS'		
			entry[id_notes]/observation/@ moodCode='EVN'		
			entry/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
			entry/observation/ id	UUID	See <id> for available attributes.
			entry[id_notes]/observation/ value		
CDA Header Data Elements			Context: ClinicalDocument		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail> Employment Detail	Details of a non-healthcare provider's employment.	0..*	recordTarget/patientRole/patient/ ext:asEmployment		See NEHTA CDA extension: Employment .
			recordTarget/patientRole/patient/ext:asEmployment/@classCode='EMP'		
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*			This logical NEHTA data component has no mapping to CDA.
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail>Employer Organisation Detail> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..1	recordTarget/patientRole/patient/ext:asEmployment/<Entity Identifier>		See Common Pattern: Entity Identifier .
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	recordTarget/patientRole/patient/ext:asEmployment/ext:employerOrganization/name		
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail> Employment Type	The basis on which the person is employed by the employer organisation.	0..1	recordTarget/patientRole/patient/ext:asEmployment/ext:jobClassCode	NS	
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail> Occupation	A descriptor of the class of job based on similarities in the tasks undertaken.	0..1	recordTarget/patientRole/patient/ext:asEmployment/ext:jobCode	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899 [ABS2006]	
Patient>Participant>Person>Non Healthcare Provider Detail With Demographic Detail>Employment Detail> Occupation Date Range	The time period for which an individual practised in an identified occupation.	0..1	recordTarget/patientRole/patient/ext:asEmployment/ext:effectiveTime		See <time> for available attributes.

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="1.2.36.1.2001.1001.101.20000" extension="2.0" />
  <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593" />
  <code code="18842-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Discharge Summarization Note" />
  <effectiveTime value="200910201235" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality" />
  <languageCode code="en-AU" />
  <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593" />
  <versionNumber value="1" />
  <ext:completionCode code="AU" codeSystem="2.16.840.1.113883.5.33" codeSystemName="HL7 DocumentCompletion"
    displayName="authenticated" />
  <!-- Begin Subject of Care - Header Part -->
  <recordTarget>
    <patientRole>
      <id nullFlavor="NA" />
      <addr use="H">
        <streetAddressLine>1 Clinician Street</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
        <useablePeriod xsi:type="IVL_TS">
          <low value="01012001" />
          <high value="01012012" />
        </useablePeriod>
      </addr>
      <telecom value="tel:04999999999" use="H" />
    </patientRole>
    <patient>
      <name use="L">
        <prefix>Ms</prefix>
        <given>Sally</given>
        <family>Grant</family>
      </name>
      <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.13.68"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Sex" />
      <birthTime value="19680607" />
      <ext:deceasedTime value="20090101" />
      <birthplace>
        <place>
          <addr>
            <country partType="CNT">8104</country>
          </addr>
        </place>
      </birthplace>
      <ext:asEntityIdentifier classCode="IDENT">
```

XML Fragment

```

<ext:id root="1.2.36.174030967.0.5" extension="1234567892"
  assigningAuthorityName="Australian Medicare number" />
<ext:assigningScopingEntity classCode="IDENT">
  <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
    codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
    displayName="National Identifier" />
</ext:assigningScopingEntity>
</ext:asEntityIdentifier>
<ext:asEmployment classCode="EMP">
  <ext:effectiveTime value="20060101" />
  <ext:jobCode code="512111" codeSystem="2.16.840.1.113883.13.62"
    codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
    displayName="Office Manager" />
  <ext:jobClassCode code="FT" codeSystem="2.16.840.1.113883.8.1059"
    codeSystemName="HL7 EmployeeJobClass" displayName="full-time" />
  <ext:employerOrganization>
    <name>Business Name</name>
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />
      <ext:assigningScopingEntity classCode="IDENT">
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
          codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
          displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
  </ext:employerOrganization>
</ext:asEmployment>
</patient>
</patientRole>
</recordTarget>
<!-- End Subject of Care - Header Part -->

...

<component>
  <structuredBody>
    <component>
      <!-- Begin Subject of Care - Body part (Administrative Observations) -->
      <section>
        <code code="102.16080.4.1.1" codeSystem="1.2.36.1.2001.1001"
          codeSystemName="NCTIS DATA COMPONENTS" displayName="Administrative Observations" />
        <title>Administrative Observations</title>
        <entry typeCode="DRIV">
          <observation classCode="OBS" moodCode="EVN">
            <id root="C5EDB906-BC90-11DE-A577-AE4456D89593" />
            <code code="103.10243.4.1.1" codeSystem="1.2.36.1.2001.1001"
              codeSystemName="NCTIS DATA COMPONENTS" displayName="Source of Death Notification" />
            <value xsi:type="CD" code="D" codeSystem="2.16.840.1.113883.13.64"
              codeSystemName="AS 5017-2006 Health Care Client Source of Death Notification"
              displayName="Official death certificate or death register" />
          </observation>
        </entry>
      </component>
    </entry typeCode="DRIV">

```

XML Fragment

```
        <observation classCode="OBS" moodCode="EVN">
          <id root="BB23D046-BC90-11DE-81EB-374456D89593" />
          <code code="103.10245.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Mothers Original Family Name" />
          <value xsi:type="PN">Smith</value>
        </observation>
      </entry>
    </section>
  </component>
<component>
  <section>
    <code code="103.10247.4.1.1" codeSystem="1.2.36.1.2001.1001"
      codeSystemName="NCTIS DATA COMPONENTS" displayName="Identification Notes" />
    <title>Identification Notes</title>
    <entry typeCode="DRIV">
      <observation classCode="OBS" moodCode="EVN">
        <id root="A1511200-BC90-11DE-ABD8-074256D89593" />
        <code code="103.10247.4.1.1" codeSystem="1.2.36.1.2001.1001"
          codeSystemName="NCTIS DATA COMPONENTS" displayName="Identification Notes" />
        <value xsi:type="ED">Check date of birth.</value>
      </observation>
    </entry>
  </section>
</component>
</section>
<!-- End Subject of Care - Body part (Administrative Observations) -->
</component>
</structuredBody>
</component>
</ClinicalDocument>
```


6.2.2 FACILITY

Identification

Name	FACILITY
Metadata Type	Data Group (reuse of PARTICIPATION BY ORGANISATION, please refer to Data Specification – PARTICIPATION SPECIALISATION for more detail [NEHT2009F]).
Identifier	DG-10296

Relationships

Parent

Type	Name	Obligation	Occurrence
	HEALTH EVENT CONTEXT	Essential	1..1

CDA Model

Figure 7 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The FACILITY data group is mapped to the location class. The location participant relates a healthcare facility (HealthCareFacility class) to an encounter (Context: ClinicalDocument.componentOf.encompassingEncounter) to indicate where the encounter took place. The entity scoping the HealthCareFacility role is an organisation (Organization class). The department/unit name is mapped to serviceProviderOrganization.name (Organization class) and the organisation name is mapped to the wholeOrganization (Organization class) which represents a whole-part relationship using the OrganizationPartOf role. The organisation entity identifier is represented by the EntityIdentifier class (a NEHTA CDA extension) which is associated to the wholeOrganization.

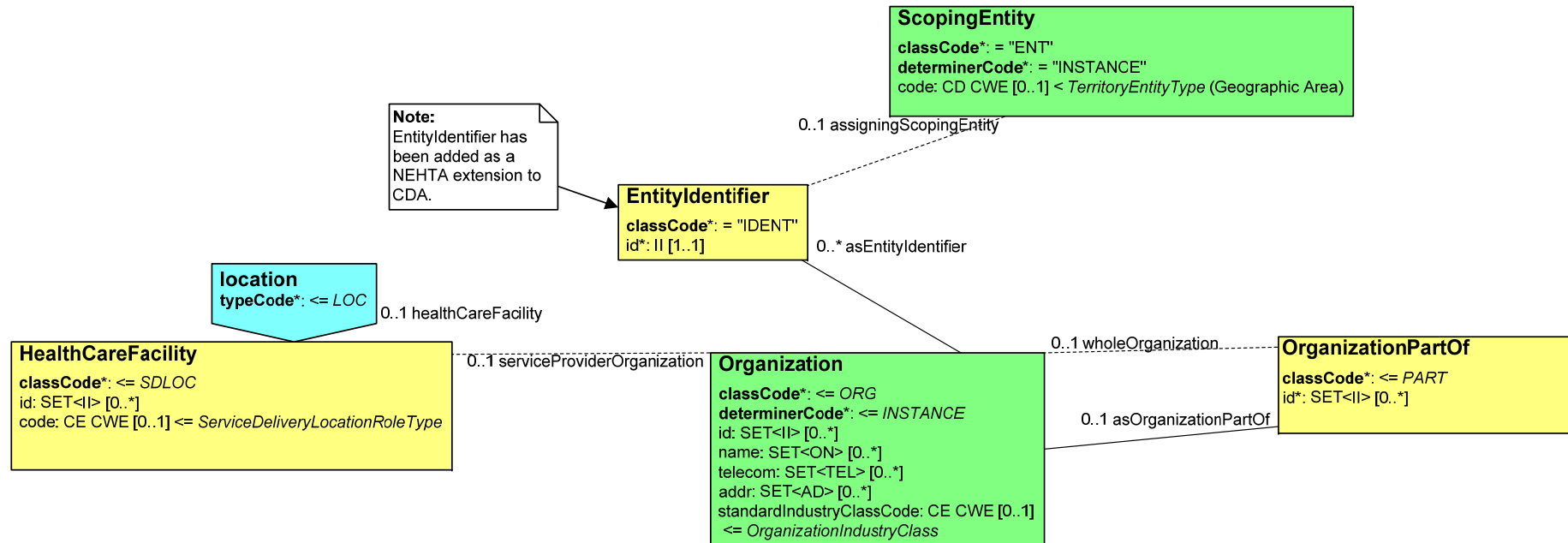


Figure 7: CDA Model for Facility

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Context: ClinicalDocument/componentOf/encompassingEncounter					
Facility (PARTICIPATION BY ORGANISATION)	The healthcare organisation involved in or associated with the delivery of the healthcare services to the subject of care.	0..*	location		
Facility> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a		Not mapped directly, encompassed implicitly in location/typeCode='LOC' (optional, fixed value).
Facility> Healthcare Role	Describes the involvement of the participant in the related action.	0..1	location/ healthCareFacility/code	NS	See <code> for available attributes.
Facility> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	location/healthCareFacility/ serviceProviderOrganization/asOrganizationPartOf/wholeOrganization		
Facility>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/< Entity Identifier >		See Common Pattern: Entity Identifier .
Facility>Participant> Address	The description of a location where an entity (person or organisation) 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..*	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/< Address >		See Common Pattern: Address .
Facility>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/< Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Facility>Participant> Organisation	Describes one or more organisations of interest to, or involved in, the business of health care service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization.
Facility>Participant>Organisation> Organisation Name Detail	Identifies organisations that exist within healthcare domains.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Facility>Participant>Organisation>Organisation Name Detail> Organisation Name	The name by which an organisation is known or called.	1..1	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/ name		
n/a	n/a	1..1	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/ id location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/id/@nullFlavor='NA'		Required CDA element.
Facility>Participant>Organisation>Organisation Name Detail> Department/Unit	The name by which a department or unit within an organisation is known or called.	0..1	location/healthCareFacility/serviceProviderOrganization/ name		
Facility>Participant>Organisation>Organisation Name Detail> Organisation Name Usage Detail	Enables differentiation between recorded names and the periods of time for which those names were applicable.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Facility>Participant>Organisation>Organisation Name Detail>Organisation Name Usage Detail> Name Usage	The classification that enables differentiation between recorded names for a person or an organisation/service location.	1..1	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/name/@ use		Space separated list of codes.
Facility>Participant>Organisation>Organisation Name Detail>Organisation Name Usage Detail> Name Usage Date Range	Indicates the beginning and end of the period during which a person or an organisation/service location is known by a particular name.	0..1	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/name/ validTime		See <time> for available attributes.

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="1.2.36.1.2001.1001.101.20000" extension="2.0" />
  <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593" />
  <code code="18842-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Discharge Summarization Note" />
  <effectiveTime value="200910201235" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality" />
  <languageCode code="en-AU" />
  <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593" />
  <versionNumber value="1" />
  <ext:completionCode code="AU" codeSystem="2.16.840.1.113883.5.33" codeSystemName="HL7 DocumentCompletion"
    displayName="authenticated" />

  ...

  <componentOf>
    <encompassingEncounter>

      ...

      <location>
        <healthCareFacility>
          <code code="HOSP" codeSystem="2.16.840.1.113883.1.11.17660"
            codeSystemName="HL7 ServiceDeliveryLocationRoleType" displayName="Hospital" />
          <serviceProviderOrganization>
            <name>Emergency Department</name>
            <asOrganizationPartOf>
              <id nullFlavor="NA" />
              <wholeOrganization>
                <name use="L">Nehtaville Hospital
                  <validTime>
                    <xsi:type="IVL_TS">
                      <low value="19850518" />
                    </validTime></name>
                <telecom value="tel:0799999999" use="WP" />
                <addr>
                  <streetAddressLine>1 Hospital Street</streetAddressLine>
                  <city>Nehtaville</city>
                  <state>QLD</state>
                  <postalCode>5555</postalCode>
                  <additionalLocator>32568931</additionalLocator>
                </addr>
                <ext:asEntityIdentifier classCode="IDENT">
                  <ext:id root="1.2.36.11123456999" assigningAuthorityName="Australian Business Number (ABN)" />
                  <ext:assigningScopingEntity classCode="IDENT">

```

```
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
              codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
              displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
  </wholeOrganization>
</asOrganizationPartOf>
</serviceProviderOrganization>
</healthCareFacility>
</location>
</encompassingEncounter>
</componentOf>
<component>
  <structuredBody>
    <component>
      ...
    </component>
  </structuredBody>
</component>
</ClinicalDocument>
```


6.3 DOCUMENT CONTEXT

Identification


Name	DOCUMENT CONTEXT
Metadata Type	Data Group
Identifier	DG-10326

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	DOCUMENT RECIPIENT DETAIL	Essential	1..*

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Essential	1..1

CDA Model

Figure 8 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The ClinicalDocument class carries information that identifies the Discharge Summary.

The identifier of the document itself is globally unique. In addition to the identifier, the document also carries a setId and a version number. The setId is the logical identifier of the Discharge Summary itself – it will remain constant across all the documents that describe the same Discharge Summary. Each document for the Discharge Summary must carry a different version number. The combination of the Discharge Summary identifier and version number has the same uniqueness requirements as the document id, but all three elements/attributes must be represented in the document. As a matter of convenience, implementers may concatenate the discharge summary identifier and the version number to produce the document id, but this is not required.

The templateId element is used to denote that the clinical document is conformant with this specification. Any CDA document carrying the templateId "1.2.36.1.2001.1001.101.20000" must conform to the constraints described in this document. The constraints described in this section do not apply to documents not carrying the templateId "1.2.36.1.2001.1001.101.20000".

The DOCUMENT AUTHOR data group is related to its context of ClinicalDocument by the author participation class. An author is a person in the role of assignedAuthor (AssignedAuthor class). The entity playing the role is assignedAuthorChoice (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) and is associated to the assignedAuthorChoice. Healthcare provider field of practice details are mapped to the FieldOfPractice class (NEHTA CDA Extension).

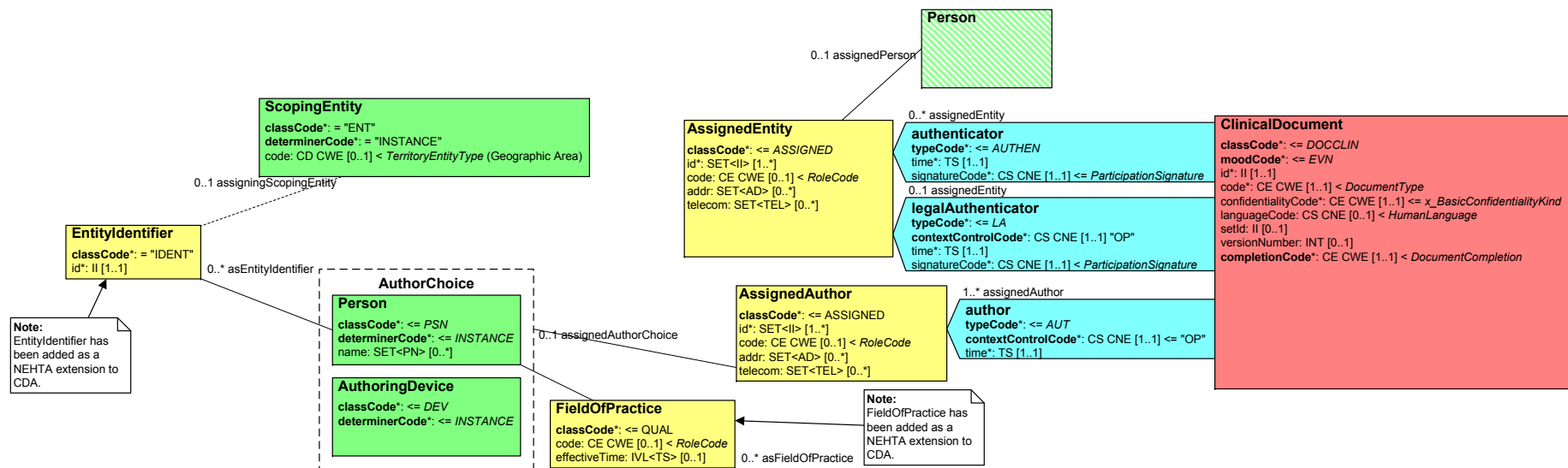


Figure 8: CDA Model for Document Context

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Elements					
Context: ClinicalDocument					
Document Context	Provides specific contextual information about the document itself so that it can be uniquely identified, and identifies the creators and recipients of the document.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.
Document Context> Document Control	Identifies the document instance and the type of document that it is an instance of.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.
Document Context>Document Control> Document Instance Identifier	Unique identifier of an instance of the document being created. The value is globally unique and generally not for human consumption.	1..1	id		See <id> for available attributes.
Document Context>Document Control> Document Set Identifier	Represents an identifier that is common across all revisions of the same business document type.	1..1	setId		
Document Context>Document Control> Version Number	Identifier of a document within a document set, it is used to version successive replacement documents.	1..1	versionNumber		
Document Context>Document Control> Document Originating System Identifier	The application or device where a clinical document originates.	1..1	author/time		Required CDA element.
			author/time/@nullFlavor='NA'		
			author/assignedAuthor/id		This author is additional to Document Author. See <id> for available attributes.
			author/assignedAuthor/authoringDevice		
Document Context>Document Control> Business Document Type	The business name used as qualifier of a published Structured Document Template.	1..1	templateId		
			templateId/@root='1.2.36.1.2001.1001.101.20000'		
Document Context>Document Control> Business Document Type Version Number	This is the version number of the business document type.	1..1	templateId/@extension='3.0'		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Context>Document Control> Confidentiality Indicator	The degree of sensitivity of information and the extent to which it can be shared.	0..1	confidentialityCode	HL7 v3: Confidentiality	
Document Context>Document Control> DateTime Attested	The date (and time if known) that the document author or document authoriser/approver confirms (usually by signature) that a document is complete and genuine.	1..1	authenticator/time OR legalAuthenticator/time		Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator. See <time> for available attributes.
			author/assignedAuthor/ time		This is the document author. See <time> for available attributes.
n/a	n/a	1..1	authenticator/ signatureCode OR legalAuthenticator/ signatureCode		Required CDA element. Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
			authenticator/signatureCode/@ code='S' OR legalAuthenticator/signatureCode/@ code='S'		
Document Context>Document Control> Document Status	A code depicting a life-cycle status of a clinical document.	1..1	ext:completionCode	NCTIS: Admin Codes - Document Status	See NEHTA CDA extension: ClinicalDocument.completionCode

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Context>Document Control> Language	Specifies the human language of character data (whether they be in contents or attribute values).	1..1	languageCode	[ISO2009] - Codes for the Representation of Names of Languages [ISO2007] - Codes for the Representation of Names of Countries	<Language Code> - <Country Code> Default to en-AU.
Document Context> Document Author (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	The healthcare provider who is the main author of the document. A party that originates the Act document and therefore has responsibility for the information given in the document.	1..1	author		
Document Context>Document Author> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a		Not mapped directly, encompassed implicitly in author/typeCode='AUT' (optional, fixed value).
Document Context>Document Author> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	author/ assignedAuthor/code	NS	See <code> for available attributes.
			legalAuthenticator/ assignedEntity/code OR authenticator/ assignedEntity/code	NS	Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator. See <code> for available attributes.
n/a	n/a	1..1	author/ assignedAuthor/id author/ assignedAuthor/id/@nullFlavor='NA'		Required CDA element.
n/a	n/a	1..1	legalAuthenticator/ assignedEntity/id OR authenticator/ assignedEntity/id		Required CDA element. Use

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			legalAuthenticator/assignedEntity/id/@nullFlavor='NA' OR authenticator/assignedEntity/id/@nullFlavor='NA'		legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author> Participation Period	The valid time interval during which the participation occurred.	0..1	author/ time		See <time> for available attributes.
Document Context>Document Author> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	author/assignedAuthor/ assignedPerson legalAuthenticator/assignedEntity/ assignedPerson OR authenticator/assignedEntity/ assignedPerson		Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	author/assignedAuthor/assignedPerson/<Entity Identifier>		See Common Pattern: Entity Identifier .
			legalAuthenticator/assignedEntity/assignedPerson/<Entity Identifier> OR authenticator/assignedEntity/assignedPerson/<Entity Identifier>		See Common Pattern: Entity Identifier . Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant> Address	The description of a location where an entity (person or organisation) is located or can be otherwise reached or	0..*	author/assignedAuthor/<Address>		See Common Pattern: Address .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
	found and a description of the purpose for which that address is primarily used by that entity.		legalAuthenticator/assignedEntity/ <Address> OR authenticator/assignedEntity/ <Address>		See Common Pattern: Address . Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	author/assignedAuthor/ <Electronic Communication Detail>		See Common Pattern: Electronic Communication Detail .
			legalAuthenticator/assignedEntity/ <Electronic Communication Detail> OR authenticator/assignedEntity/ <Electronic Communication Detail>		See Common Pattern: Electronic Communication Detail . Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in author/assignedAuthor/assignedPerson.
Document Context>Document Author>Participant>Person>	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 .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Person Name			legalAuthenticator/assignedEntity/assignedPerson/ <Person Name> OR authenticator/assignedEntity/assignedPerson/ <Person Name>		See Common Pattern: Person Name . Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant>Person> Healthcare Provider Detail	Information about an individual who is in the role of healthcare provider. A healthcare provider is any person who is involved in or associated with the delivery of healthcare to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Document Context>Document Author>Participant>Person>Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	author/assignedAuthor/assignedPerson/ <Healthcare Provider Field of Practice> OR legalAuthenticator/assignedEntity/assignedPerson/ <Healthcare Provider Field of Practice> OR authenticator/assignedEntity/assignedPerson/ <Healthcare Provider Field of Practice>		See Common Pattern: Healthcare Provider Field of Practice . See Common Pattern: Healthcare Provider Field of Practice . Use legalAuthenticator if the participant has privileges to legally authenticate the document otherwise use authenticator.
Document Context>Document Author>Participant>Person>Healthcare Provider Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*	author/assignedAuthor/representedOrganization OR legalAuthenticator/assignedEntity/representedOrganization OR authenticator/assignedEntity/representedOrganization		
Document	A number or code issued for the	0..1	author/assignedAuthor/representedOrganization/ <Entity Identifier>		See Common

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Context>Document Author>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Entity Identifier	purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.		legalAuthenticator/assignedEntity/representedOrganization/ <Entity Identifier> OR authenticator/assignedEntity/representedOrganization/ <Entity Identifier>		Pattern: Entity Identifier .
Document Context>Document Author>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	author/assignedAuthor/representedOrganization/ name legalAuthenticator/assignedEntity/representedOrganization/ name OR authenticator/assignedEntity/representedOrganization/ name		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="1.2.36.1.2001.1001.101.20000" extension="2.0" />
  <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593" />
  <code code="18842-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Discharge Summarization Note" />
  <effectiveTime value="200910201235" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality" />
  <languageCode code="en-AU" />
  <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593" />
  <versionNumber value="1" />
  <ext:completionCode code="F" codeSystem="" codeSystemName="NCTIS Document Status Values"
    displayName="Final" />

  ...

  <!-- Document Originating System Identifier -->
  <author>
    <time nullFlavor="NA" />
    <assignedAuthor>
      <id root="945FE614-BC92-11DE-80E5-1D5756D89593" />
      <assignedAuthoringDevice />
    </assignedAuthor>
  </author>

  <!-- Document Author -->
  <author>
    <time value="200910201235" />
    <assignedAuthor>
      <id nullFlavor="NA" />
      <code code="AT" codeSystem="2.16.840.1.113883.12.443" codeSystemName="HL7 Provider Role"
        displayName="Attending" />
      <addr use="H">
        <streetAddressLine>1 Clinician Street</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
      </addr>
      <telecom value="tel:0712341234" use="WP" />
      <assignedPerson>
        <name>
          <prefix>Dr.</prefix>
          <given>Super</given>
          <family>Man</family>
        </name>
      </assignedPerson>
    </assignedAuthor>
  </author>
</ClinicalDocument>
```

XML Fragment

```

    </name>
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD55D89593" extension="SOME_EXTENSION"
        assigningAuthorityName="Doctor Number" />
      <ext:assigningScopingEntity classCode="IDENT">
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
          codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
          displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
    <ext:asFieldOfPractice classCode="QUAL">
      <ext:code code="253321" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
        displayName="Paediatrician" />
      <ext:effectiveTime>
        <low value="20090101" />
      </ext:effectiveTime>
    </ext:asFieldOfPractice>
  </assignedPerson>
  <representedOrganization>
    <name>Oz Health Clinic</name>
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="1.2.36.144456789" assigningAuthorityName="Australian Business Number (ABN)" />
      <ext:assigningScopingEntity classCode="IDENT">
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
          codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
          displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
  </representedOrganization>
</assignedAuthor>
</author>

...

<legalAuthenticator>
  <time value="200910201235" />
  <signatureCode code="S" />
  <assignedEntity>
    <id nullFlavor="NA" />
    <code code="AT" codeSystem="2.16.840.1.113883.12.443" codeSystemName="HL7 Provider Role"
      displayName="Attending" />
    <addr use="WP">
      <streetAddressLine>1 Clinician Street</streetAddressLine>
      <city>Nehtaville</city>
      <state>QLD</state>
      <postalCode>5555</postalCode>
      <additionalLocator>32568931</additionalLocator>
    </addr>
    <telecom value="tel:0712341234" use="WP" />
  </assignedEntity>
  <assignedPerson>
    <name>
      <prefix>Dr.</prefix>
      <given>Super</given>
    </name>
  </assignedPerson>

```

XML Fragment

```

    <family>Man</family>
  </name>
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD55D89593" extension="SOME_EXTENSION"
      assigningAuthorityName="Doctor Number" />
    <ext:assigningScopingEntity classCode="IDENT">
      <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
        displayName="National Identifier" />
    </ext:assigningScopingEntity>
  </ext:asEntityIdentifier>
  <ext:asFieldOfPractice classCode="QUAL">
    <ext:code code="253321" codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
      displayName="Paediatrician" />
    <ext:effectiveTime>
      <low value="20090101" />
    </ext:effectiveTime>
  </ext:asFieldOfPractice>
</assignedPerson>
<representedOrganization>
  <name>Oz Health Clinic</name>
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.144456789" assigningAuthorityName="Australian Business Number (ABN)" />
    <ext:assigningScopingEntity classCode="IDENT">
      <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
        displayName="National Identifier" />
    </ext:assigningScopingEntity>
  </ext:asEntityIdentifier>
</representedOrganization>
</assignedEntity>
</legalAuthenticator>

...

<component>
  <structuredBody>

  ...

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

```

6.3.1 DOCUMENT RECIPIENT DETAIL


6.3.1.1 DOCUMENT RECIPIENT DETAIL (PERSON)

Identification

Name	DOCUMENT RECIPIENT DETAIL
Metadata Type	Data Group
Identifier	DG-20141

Relationships

Parent

Type	Name	Obligation	Occurrence
	DOCUMENT CONTEXT	Essential	1..*

CDA Model

Figure 9 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The DOCUMENT RECIPIENT DETAIL (person) data group is related to its context of ClinicalDocument by the informationRecipient participation class. An informationRecipient is a person in the role of intendedRecipient (IntendedRecipient class). The entity playing the role is informationRecipient (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the informationRecipient. Healthcare provider field of practice details are mapped to the FieldOfPractice class (NEHTA CDA Extension). The employer details are mapped to receivedOrganization (Organization class) which also has entity identifier mapped to the EntityIdentifier class.

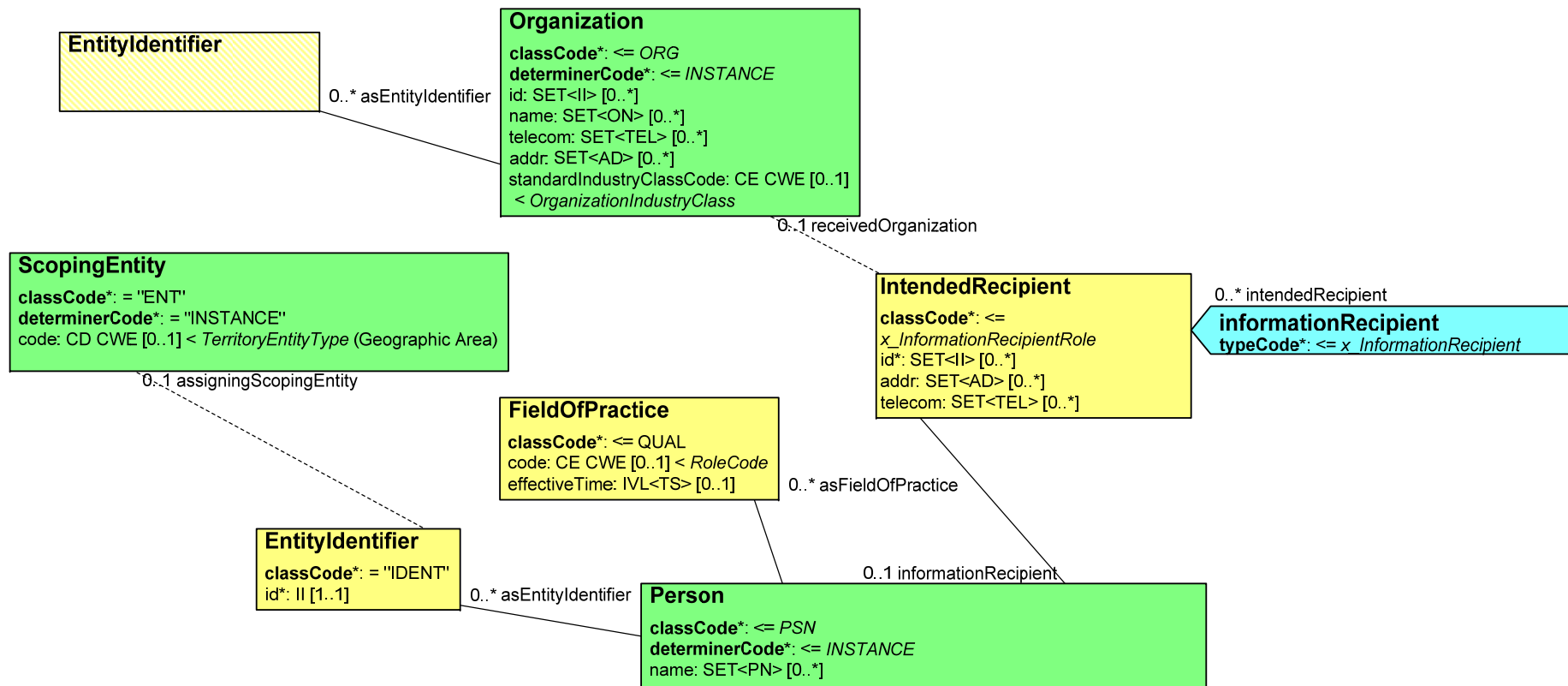


Figure 9: CDA Model for Document Recipient Detail

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
		Context:	ClinicalDocument		
Document Recipient Detail	The persons and/or organisations who are recipients of the document.	1..*	informationRecipient		
Document Recipient Detail> Document Recipient Type	The type of recipient of the document. Each document should have at least one primary recipient.	1..1	informationRecipient/@ typeCode	NS	For primary recipient typeCode='PR CP' else typeCode='TR C'
Document Recipient Detail> Document Recipient (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	Details pertaining to the identification of an individual or organisation associated with a potential or actual subject of care, who is designated to receive a copy of the document.	1..1	informationRecipient/ intendedRecipient		
Document Recipient Detail>Document Recipient> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in informationRecipient.
Document Recipient Detail>Document Recipient> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	informationRecipient/intendedRecipient/ ext:code	NS	See NEHTA CDA extension: IntendedRecipient.code . See <code> for available attributes.
n/a	n/a	1..1	informationRecipient/intendedRecipient/ id informationRecipient/intendedRecipient/id/@ nullFlavor='NA'		Required CDA element.
Document Recipient Detail>Document Recipient> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	informationRecipient/intendedRecipient/ informationRecipient		
Document Recipient Detail>Document Recipient>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	informationRecipient/intendedRecipient/informationRecipient/ <Entity Identifier>		See Common Pattern: Entity Identifier .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Recipient Detail>Document Recipient>Participant> Address	The description of a location where an entity (person or organisation) 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..*	informationRecipient/intendedRecipient/ < Address >		See Common Pattern: Address .
Document Recipient Detail>Document Recipient>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	informationRecipient/intendedRecipient/ < Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .
Document Recipient Detail>Document Recipient>Participant> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in informationRecipient/intendedRecipient.
Document Recipient Detail>Document Recipient>Participant> Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	informationRecipient/intendedRecipient/informationRecipient/ < Person Name >		See Common Pattern: Person Name .
Document Recipient Detail>Document Recipient>Participant> Person Healthcare Provider Detail	Information about an individual who is in the role of healthcare provider. A healthcare provider is any person who is involved in or associated with the delivery of healthcare to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Document Recipient Detail>Document Recipient>Participant>Person Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	informationRecipient/intendedRecipient/informationRecipient/ < Healthcare Provider Field of Practice >		See Common Pattern: Healthcare Provider Field of Practice .
Document Recipient Detail>Document Recipient>Participant>Person Healthcare Provider Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*	informationRecipient/intendedRecipient/ < receivedOrganization >		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Recipient Detail>Document Recipient>Participant>Person >Healthcare Provider Detail>Employer Organisation Detail> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..1	informationRecipient/intendedRecipient/receivedOrganization/ <Entity Identifier>		See Common Pattern: Entity Identifier .
Document Recipient Detail>Document Recipient>Participant>Person >Healthcare Provider Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	informationRecipient/intendedRecipient/receivedOrganization/ name		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- Start Document Recipient Detail (Person) - Primary -->
  <informationRecipient typeCode="PRCP">
    <intendedRecipient>
      <id nullFlavor="NA" />
      <ext:code code="PP" codeSystem="2.16.840.1.113883.12.443" codeSystemName="HL7 Provider Role"
        displayName="Primary Care Provider" />
      <addr use="WP">
        <streetAddressLine>1 Primary Care Provider Street</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
      </addr>
      <telecom value="tel:0712341245" use="WP" />
    </informationRecipient>
    <name>
      <prefix>Dr.</prefix>
      <given>Primary</given>
      <given>Care</given>
      <family>Provider</family>
    </name>
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD55D89593" extension="SOME_OTHER_EXTENSION"
        assigningAuthorityName="Doctor Number" />
      <ext:assigningScopingEntity classCode="IDENT">
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
          codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
          displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
    <ext:asFieldOfPractice classCode="QUAL">
      <ext:code code="253111" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
        displayName="General Medical Practitioner" />
      <ext:effectiveTime>
        <low value="20081201" />
      </ext:effectiveTime>
    </ext:asFieldOfPractice>
  </informationRecipient>
  </intendedRecipient>
</ClinicalDocument>
```

XML Fragment

```
</informationRecipient>
<receivedOrganization>
  <name>Primary Healthcare Clinic Name</name>
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.123456457" assigningAuthorityName="Australian Business Number (ABN)" />
    <ext:assigningScopingEntity classCode="IDENT">
      <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
        displayName="National Identifier" />
    </ext:assigningScopingEntity>
  </ext:asEntityIdentifier>
</receivedOrganization>
</intendedRecipient>
</informationRecipient>
<!-- End Document Recipient Detail (Person) - Primary -->

...

<!-- End CDA Header -->

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

  ...


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

6.3.1.2 DOCUMENT RECIPIENT DETAIL (ORGANISATION)

Identification

Name	DOCUMENT RECIPIENT DETAIL
Metadata Type	Data Group
Identifier	DG-20141

Relationships*Parent*

Type	Name	Obligation	Occurrence
	DOCUMENT CONTEXT	Essential	1..*

CDA Model

Figure 10 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The DOCUMENT RECIPIENT DETAIL (organisation) data group is related to its context of ClinicalDocument by the informationRecipient Participation class. An informationRecipient is an organisation in the role of intendedRecipient (IntendedRecipient class). The entity playing the role is receivedOrganization (Organization class). The department/unit name is mapped to receivedOrganization .name (Organization class) and the organisation name is mapped to the wholeOrganization (Organization class) which represents a whole-part relationship using the OrganizationPartOf role. The organisation entity identifier is represented by the EntityIdentifier class (NEHTA CDA extension) which is associated to the wholeOrganization.

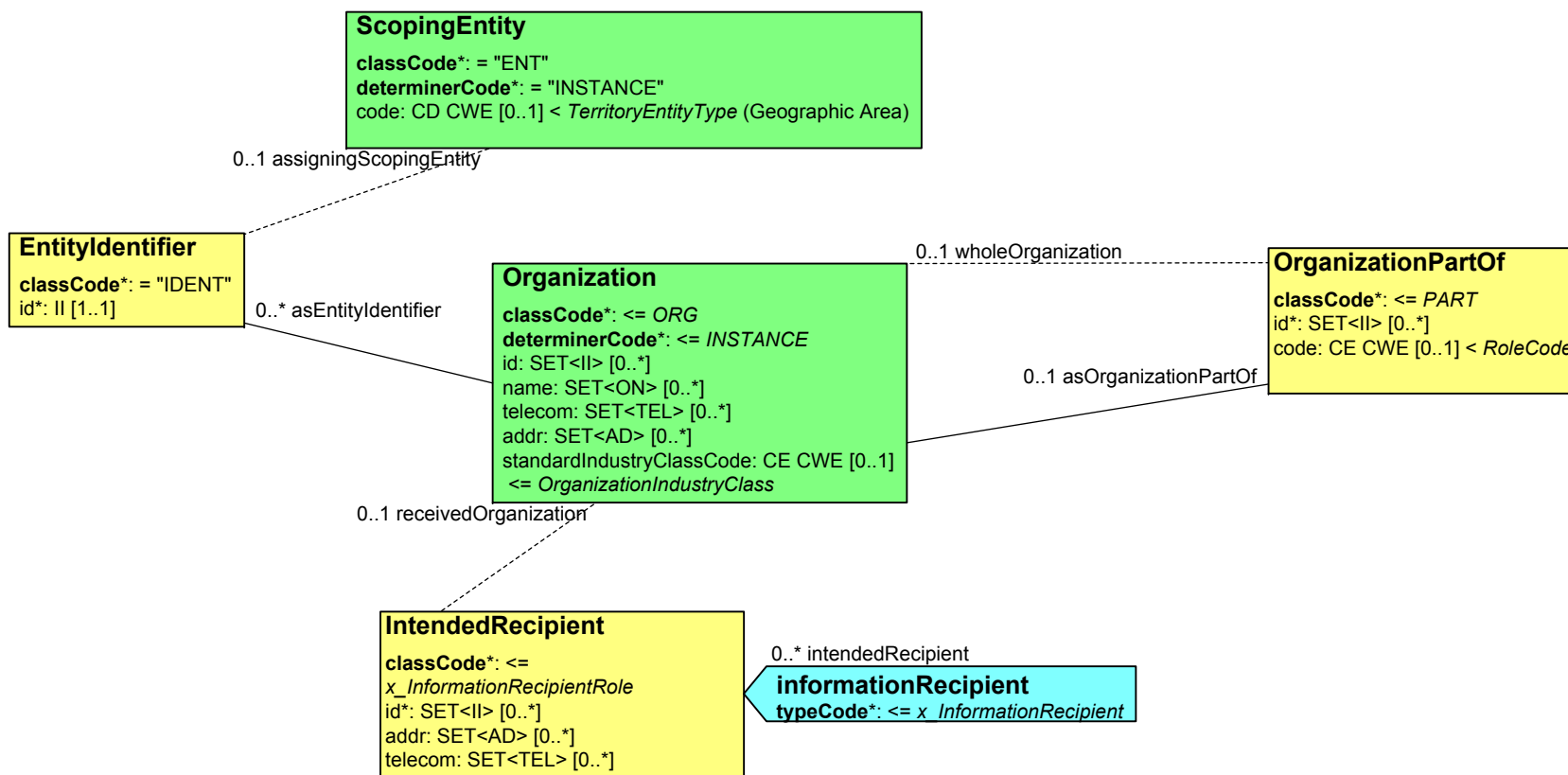


Figure 10: CDA Model for Document Recipient Detail (Organisation)

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Context: ClinicalDocument					
Document Recipient Detail	The persons and/or organisations who are recipients of the document.	0..*	informationRecipient		
Document Recipient Detail>Document Recipient Type	The type of recipient of the document. Each document should have at least one primary recipient.	1..1	informationRecipient/@ typeCode	NS	For primary recipient typeCode='PR CP' else typeCode='TR C'
Document Recipient Detail>Document Recipient (PARTICIPATION BY ORGANISATION)	Details pertaining to the identification of an organisation associated with a potential or actual subject of care who is designated to receive a copy of the document.	0..*	informationRecipient/ intendedRecipient		
Document Recipient Detail>Document Recipient>Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in informationRecipient.
Document Recipient Detail>Document Recipient>Healthcare Role	Describes the involvement of the participant in the related action.	1..1	informationRecipient/intendedRecipient/ ext:code	NS	See NEHTA CDA extension: IntendedRecipient.code . See <code> for available attributes.
n/a	n/a	1..1	informationRecipient/intendedRecipient/ id informationRecipient/intendedRecipient/id/@ nullFlavor='NA'		Required CDA element.
Document Recipient Detail>Document Recipient>Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	informationRecipient/intendedRecipient/ receivedOrganization/asOrganizationPartOf/wholeOrganization		
Document Recipient Detail>Document Recipient>Participant>Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	informationRecipient/intendedRecipient/receivedOrganization/asOrganizationPartOf/wholeOrganization/ <Entity Identifier>		See Common Pattern: Entity Identifier .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Recipient Detail>Document Recipient>Participant> Address	The description of a location where an entity (person or organisation) 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..*	informationRecipient/intendedRecipient/ <Address>		See Common Pattern: Address .
Document Recipient Detail>Document Recipient>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	informationRecipient/intendedRecipient/ <Electronic Communication Detail>		See Common Pattern: Electronic Communication Detail .
Document Recipient Detail>Document Recipient>Participant> Organisation	Describes one or more organisations of interest to, or involved in, the business of health care service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in intendedRecipient/receivedOrganization.
Document Recipient Detail>Document Recipient>Participant>Organisation> Organisation Name Detail	Data elements commonly used to identify organisations that exist within healthcare domains.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Document Recipient Detail>Document Recipient>Participant>Organisation>Organisation Name Detail> Organisation Name	The name by which an organisation is known or called.	1..1	informationRecipient/intendedRecipient/receivedOrganization/ asOrganizationPartOf/wholeOrganization/name		
Document Recipient Detail>Document Recipient>Participant>Organisation>Organisation Name Detail> Department/Unit	The name by which a department or unit within an organisation is known or called.	0..1	informationRecipient/associatedEntity/receivedOrganization/ name		
n/a	n/a	1..1	informationRecipient/intendedRecipient/receivedOrganization/ asOrganizationPartOf/id informationRecipient/intendedRecipient/receivedOrganization/ asOrganizationPartOf/id/@nullFlavor='NA'		Required CDA element.
Document Recipient Detail>Document Recipient>Participant>Organisation>Organisation Name Detail> Organisation Name Usage Detail	Enables differentiation between recorded names and the periods of time for which those names were applicable.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Document Recipient Detail>Document Recipient>Participant>Organisation>Organisation Name Detail>Organisation Name Usage Detail> Name Usage	The classification that enables differentiation between recorded names for a person or an organisation/service location.	1..1	informationRecipient/intendedRecipient/receivedOrganization/asOrganizationPartOf/wholeOrganization/name/@ use		Space separated list of codes.
Document Recipient Detail>Document Recipient>Participant>Organisation>Organisation Name Detail>Organisation Name Usage Detail> Name Usage Date Range	Indicates the beginning and end of the period during which a person or an organisation/service location is known by a particular name.	0..1	informationRecipient/intendedRecipient/receivedOrganization/asOrganizationPartOf/wholeOrganization/name/ validTime		See <time> for available attributes.

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  ...

  <!-- Begin CDA Header -->

  ...

  <!-- Begin Document Recipient Detail (Organisation) -->
  <informationRecipient typeCode="TRC">
    <intendedRecipient>
      <id nullFlavor="NA" />
      <ext:code code="80522000" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
        displayName="Rehabilitation hospital" />
      <addr use="WP">
        <streetAddressLine>99 Rehab Road</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
      </addr>
      <telecom value="tel:0712341999" use="WP" />
      <receivedOrganization>
        <name use="L">Foot Rehab Department
          <validTime>
            <low value="19950101" />
          </validTime></name>
        <asOrganizationPartOf>
          <id nullFlavor="NA" />
          <wholeOrganization>
            <name>Rehab Clinic Name</name>
            <ext:asEntityIdentifier classCode="IDENT">
              <ext:id root="1.2.36.333456457" assigningAuthorityName="Australian Business Number (ABN)" />
              <ext:assigningScopingEntity classCode="IDENT">
                <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                  codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                  displayName="National Identifier" />
              </ext:assigningScopingEntity>
            </ext:asEntityIdentifier>
          </wholeOrganization>
        </asOrganizationPartOf>
      </receivedOrganization>
    </intendedRecipient>
  </informationRecipient>
  <!-- End Document Recipient Detail (Organisation) -->

  <!-- Begin CDA Body -->

```

XML Fragment

```
<component>
  <structuredBody>

    ...

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

7 Body Data Specification – CDA Mapping









7.1 DISCHARGE SUMMARY

Identification

Name	DISCHARGE SUMMARY
Metadata Type	Structured Document
Identifier	ES-20000

Relationships

Children Not Included in Mapping for This Section (Body Data Elements)

Type	Name	Obligation	Occurrence
 	EVENT	Essential	1..1
 	MEDICATIONS	Essential	1..1
 	HEALTH PROFILE	Essential	1..1
 	PLAN	Essential	1..1

CDA Model

Figure 11 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to both CDA Header and CDA Body elements.

The Discharge Summary is composed of a ClinicalDocument, which is the entry point into the CDA R-MIM and is a documentation of clinical observations and services. 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.

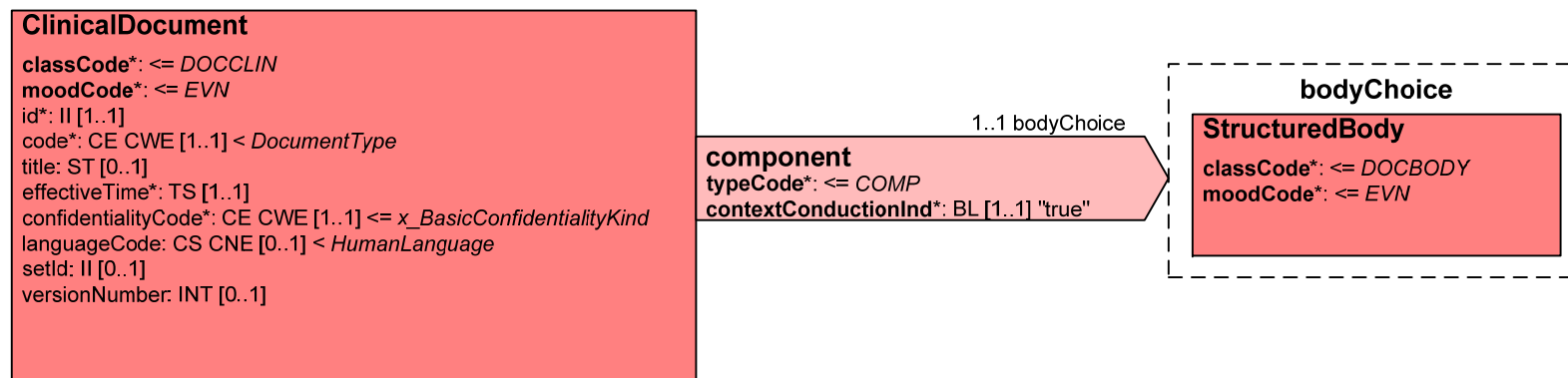


Figure 11: CDA Model for Discharge Summary Body

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Discharge Summary	A collection of information about events during care by a provider or organisation, which is released when the patient is discharged from the care of the provider organisation.	1..1	ClinicalDocument		
CDA Body Level 2 Data Elements					
Discharge Summary (Body)		1..1	ClinicalDocument/ component/structuredBody		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
...
```

```
<!-- Begin CDA Header -->
```

```
...
```

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

```
    ...
```

```
  </structuredBody>
```

```
</component>
```

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

```
</ClinicalDocument>
```






7.2 EVENT

Identification


Name	EVENT
Metadata Type	Section
Identifier	S-16006

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	ENCOUNTER	Essential	1..1
	PROBLEMS/DIAGNOSES THIS VISIT	Essential	1..1
	CLINICAL INTERVENTIONS PERFORMED THIS VISIT	Optional	0..1
	CLINICAL SYNOPSIS	Essential	1..1
	DIAGNOSTIC INVESTIGATIONS	Optional	0..1

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Essential	1..1

CDA Model

Figure 12 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

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

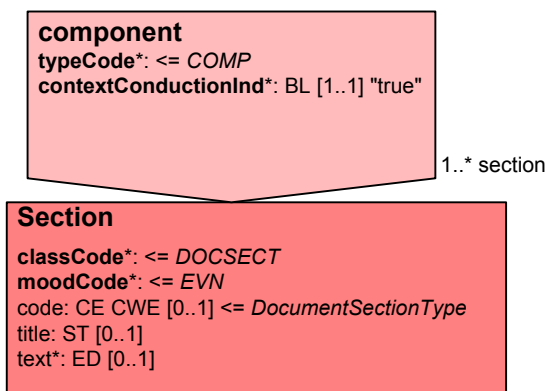


Figure 12: CDA Model for Event

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody					
Event	The details of the healthcare encounter which instigated the creation of the discharge summary.	1..1	component/section/ code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.
			component/section/ title='Event'		
			component/section/ text		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

...

```
    <!-- Begin Event section -->
```

```
    <component>
```

```
      <section>
```

```
        <code code="101.16006.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Event"
          codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <title>Event</title>
```

...

```
      </section>
```

```
    </component>
```

```
    <!-- End Event section -->
```

...

```
  </structuredBody>
```

```
</component>
```

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

```
</ClinicalDocument>
```



7.2.1 ENCOUNTER

Identification


Name	ENCOUNTER
Metadata Type	Data Group
Identifier	DG-20136

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE	Essential	1..1
	OTHER PARTICIPANT	Optional	0..*

Parent

Type	Name	Obligation	Occurrence
	EVENT	Essential	1..1

CDA Model

Figure 13 and Figure 14 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to both CDA Header and CDA Body elements.

The CDA Header part of the ENCOUNTER data group comprises the EncompassingEncounter class, which represents the setting of the clinical encounter during which the documented act(s) occurred, which is related to the ClinicalDocument by the component relationship and a Participant representing the Location of Discharge.

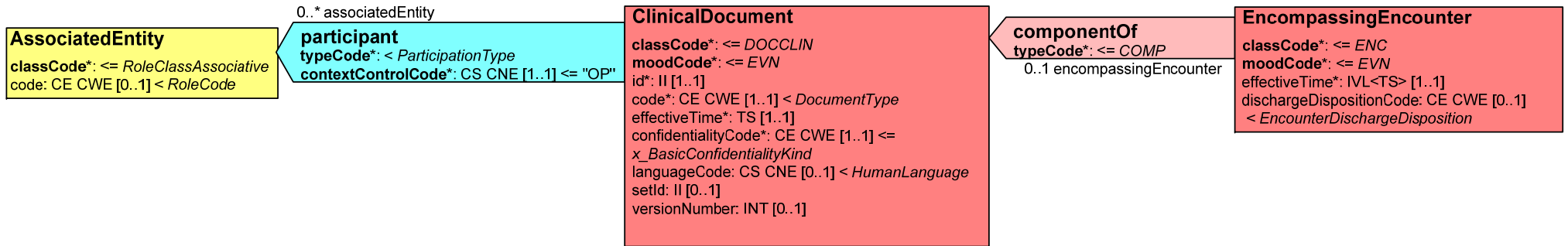


Figure 13: CDA Model for Encounter – Header Elements

The CDA Body part of the ENCOUNTER data group comprises an instance of the Observation class containing a list of Specialties. The Observation class is related to the Administrative Observations Section by an entry relationship.

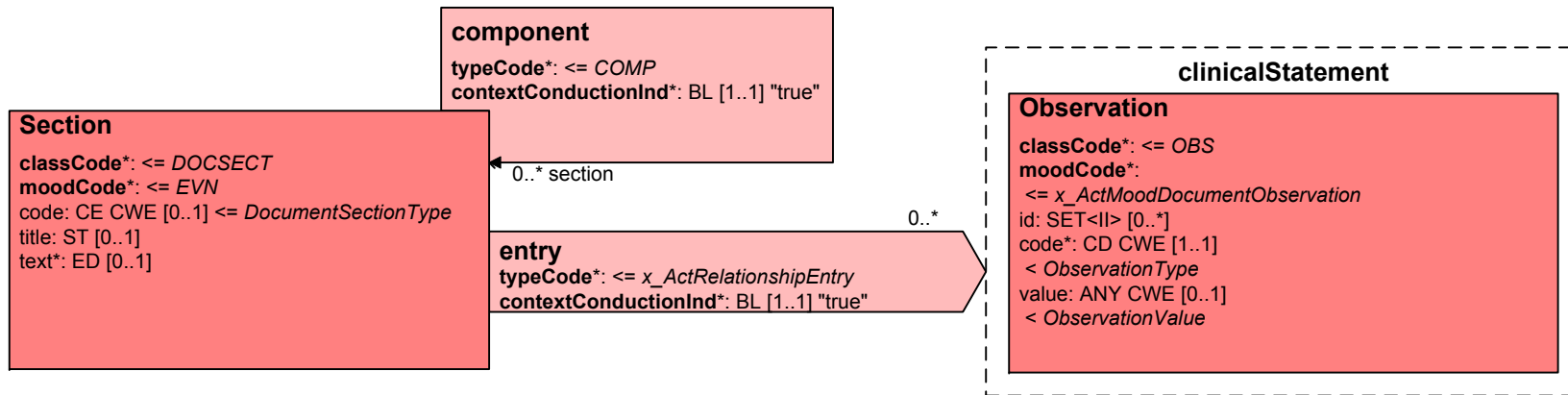


Figure 14: CDA Model for Encounter – Body Elements

Conformance

For context, follow link to element in mapping table.

CONF 1 Element **effectiveTime/low** **MUST** include a date component and **SHOULD** include a time component if available.

CONF 2 Element **effectiveTime/high** **MUST** include a date component and **SHOULD** include a time component if available.

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements Context: ClinicalDocument					
Encounter	Describes the general details about a stay in a healthcare facility as an admitted or non-admitted patient.	1..1	componentOf/ encompassingEncounter		
Encounter> DateTime Encounter Started	The date (and optionally time) of the start of the encounter that this discharge summary refers to. In the case of admitted patients, this is the date/time of their admission to the healthcare facility.	1..1	componentOf/encompassingEncounter/ effectiveTime/low	See CONF 1 .	See <time> for available attributes.
Encounter> DateTime Encounter Ended	The date (and optionally time) of the end of the encounter that this discharge summary refers to. In the case of admitted patients, this is the date/time of their discharge.	1..1	componentOf/encompassingEncounter/ effectiveTime/high	See CONF 2 .	See <time> for available attributes.
Encounter> Separation Mode	Status at separation of the patient (e.g. discharge/transfer/death) and place to which person is released (e.g. home).	1..1	componentOf/encompassingEncounter/ dischargeDispositionCode	AIHW Mode of Separation [AIHW2005]	
Encounter> Location of Discharge	The name or identifier of the physical location from which the patient was discharged. In the case of admitted patients, this should be the ward in which they were located at the time of discharge. For non-admitted patients, this may be the department in which the encounter occurred.	1..1	participant participant/ @typeCode='ORG' participant/ associatedEntity participant/associatedEntity/ @classCode='SDLOC' participant/associatedEntity/ code/originalText		
CDA Body Level 3 Data Elements Context: ClinicalDocument/component/structuredBody/component/section[admin_obs] (See Administrative Observations)					
Encounter> Specialty	A reverse chronological list of the clinical specialties under which the patient was treated during the encounter (i.e. the last specialty appears first). Each specialty should	0..*	component/section/ entry component/section/entry/ @typeCode='DRIV' component/section/entry/ observation component/section/entry/observation/ @classCode='OBS' component/section/entry/observation/ @moodCode='EVN'		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
	only appear once in the list, in its first (i.e. most recent) position.		component/section/entry/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/entry/observation/ id	UUID	See <id> for available attributes.
			component/section/entry/observation/ value:LIST<CD>	NS	

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <!-- Begin CDA Header -->

  ...

  <!-- Begin Encounter discharge location -->
  <participant typeCode="ORG">
    <associatedEntity classCode="SDLOC">
      <code>
        <originalText>Ward B</originalText>
      </code>
    </associatedEntity>
  </participant>
  <!-- End Encounter discharge location -->

  <!-- Begin Encounter (header part) -->
  <componentOf>
    <encompassingEncounter>
      <effectiveTime>
        <low value="20090101" />
        <high value="20090125" />
      </effectiveTime>
      <dischargeDispositionCode code="8" codeSystem="2.16.840.1.113883.13.65"
        codeSystemName="Episode of admitted patient care-separation mode"
        displayName="Other (includes discharge to usual residence, own accommodation/welfare institution (includes prisons, hostels and group
        homes providing primarily welfare services))" />
    </encompassingEncounter>
  </componentOf>
  <!-- End Encounter (header part) -->
  <!-- End CDA Header -->

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

      <!-- Begin Section Administrative Observations -->
      <component>
        <section>
          <code code="102.16080.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Administrative Observations" />
          <title>Administrative Observations</title>
          <text>
```

XML Fragment

```

        <table>
          <tbody>
            ...
            <tr>
              <th>Specialties</th>
              <td>Dermatology, Paediatric cardiology, Rheumatology</td>
            </tr>
          </tbody>
        </table>
      </text>

      ...

      <!-- Begin Encounter - Specialty (Administrative Observations) -->
      <entry typeCode="DRIV">
        <observation classCode="OBS" moodCode="EVN">
          <id root="A27F2F28-C379-11DE-9550-A59055D89593" />
          <code code="103.16028.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Specialty" />
          <value xsi:type="CD" code="394582007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Dermatology" />
          <value xsi:type="CD" code="408459003" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Paediatric cardiology" />
          <value xsi:type="CD" code="394810000" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Rheumatology" />
        </observation>
      </entry>
    </section>
  </component>
  <!-- End Encounter - Specialties (Administrative Observations) -->
  <!-- End Section Administrative Observations -->

  ...

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


```

7.2.1.1 RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE

Identification

Name	RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE
Metadata Type	Data Group (reuse of PARTICIPATION BY HEALTHCARE PROVIDER (PERSON), please refer to Data Specification - PARTICIPATION SPECIALISATIONS for more detail [NEHT2009F]).
Identifier	DG-10296

Relationships*Parent*

Type	Name	Obligation	Occurrence
	ENCOUNTER	Essential	1..1

CDA Model

Figure 15 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The Responsible Health Professional is represented by the EncounterParticipant class.

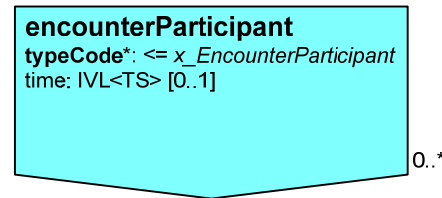


Figure 15: CDA Model for Responsible Health Professional at Time of Discharge

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Context: ClinicalDocument/componentOf/encompassingEncounter					
Responsible Health Professional at Time of Discharge (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	The healthcare provider who has the overall responsibility for the care given to the patient at the time of discharge/	1..1	encounterParticipant		
			encounterParticipant/@typeCode='DIS'		
			encounterParticipant/<AssignedEntity.AssignedPerson>		See Common Pattern: AssignedEntity.AssignedPerson .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- Begin Encounter (header part) -->
  <componentOf>
    <encompassingEncounter>

      ..

      <!-- Begin Responsible health professional at time of discharge -->
      <encounterParticipant typeCode="DIS">
        <assignedEntity>
          <id nullFlavor="NA" />
          <code code="224535009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
            displayName="Registered Nurse" />
          <addr use="WP">
            <streetAddressLine>1 Clinician Street</streetAddressLine>
            <city>Nehtaville</city>
            <state>QLD</state>
            <postalCode>5555</postalCode>
            <additionalLocator>32568931</additionalLocator>
          </addr>
          <telecom value="mailto:nurse@hospital.com.au"></telecom>
          <assignedPerson>
            <name use="L">
              <prefix>Miss</prefix>
              <given>Good</given>
              <family>Nurse</family>
            </name>
            <ext:asEntityIdentifier classCode="IDENT">
              <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD65D89593" extension="SOME_EXTENSION"
                assigningAuthorityName="Nurse Number" />
              <ext:assigningScopingEntity classCode="IDENT">
                <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                  codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                  displayName="National Identifier" />
              </ext:assigningScopingEntity>
            </ext:asEntityIdentifier>
            <ext:asFieldOfPractice classCode="QUAL">
              <ext:code code="254413" codeSystem="2.16.840.1.113883.13.62"
                codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"

```

XML Fragment

```
        displayName="Registered Nurse (Child and Family Health)" />
    <ext:effectiveTime>
        <low value="20010101" />
    </ext:effectiveTime>
</ext:asFieldOfPractice>
</assignedPerson>
<representedOrganization>
    <name>Oz Health Clinic</name>
    <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.144456789" assigningAuthorityName="Australian Business Number (ABN)" />
        <ext:assigningScopingEntity classCode="IDENT">
            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                displayName="National Identifier" />
        </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
</representedOrganization>
</assignedEntity>
</encounterParticipant>
<!-- End Responsible health professional at time of discharge -->

    ...

</encompassingEncounter>
</componentOf>
<!-- End Encounter (header part) -->
<!-- End CDA Header -->

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

        ...


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

7.2.1.2 OTHER PARTICIPANT

Identification

Name	OTHER PARTICIPANT
Metadata Type	Data Group reuse of PARTICIPATION BY HEALTHCARE PROVIDER (PERSON), please refer to Data Specification - PARTICIPATION SPECIALISATIONS for more detail [NEHT2009F].
Identifier	DG-10296

Relationships*Parent*

Type	Name	Obligation	Occurrence
	ENCOUNTER	Optional	0..*

CDA Model

Figure 16 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping.

The OTHER PARTICIPANT data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the associatedEntity. Healthcare provider field of practice details are mapped to the FieldOfPractice class (NEHTA CDA Extension). The employer details are mapped to receivedOrganization (Organization class) which also has entity identifier mapped to the EntityIdentifier class.

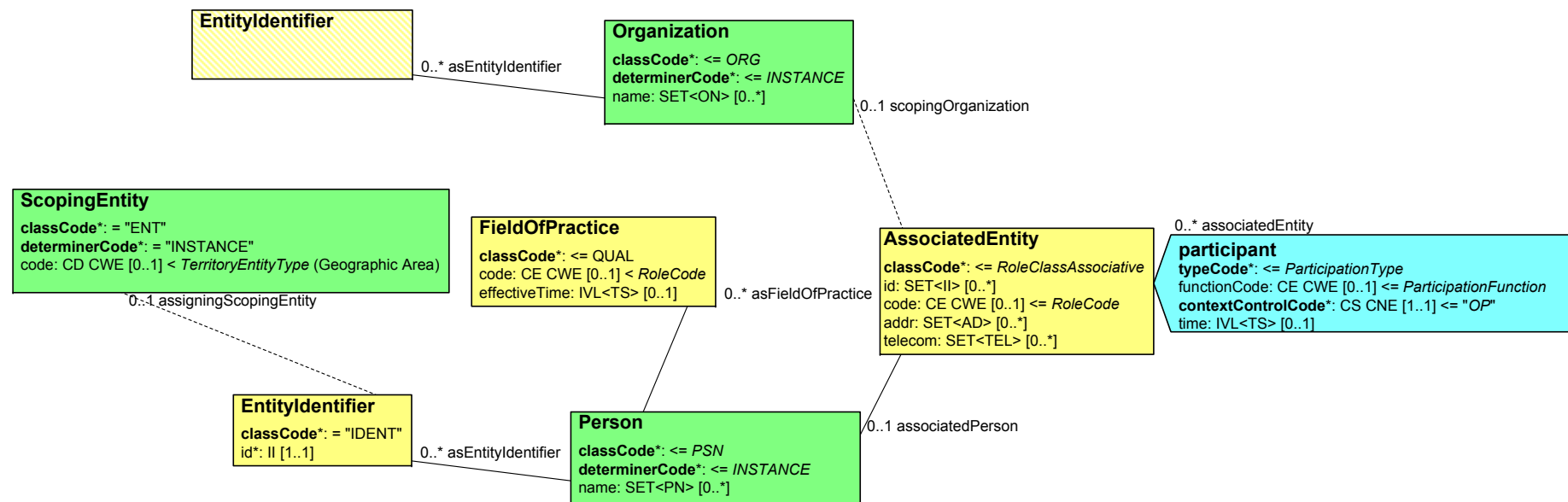


Figure 16: CDA Model for Other Participant

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Context: ClinicalDocument					
Other Participant (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	Other healthcare providers who were involved in the encounter or individuals associated with the patient at the time of the encounter, and the role that they played – e.g. registrar, referred specialist, referring clinician, emergency contact.	0..*	participant		
Other Participant> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	participant/@ typeCode ='PART'		
Other Participant> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	participant/ associatedEntity /@ classCode	HL7:RoleClassAssociative	
			participant/ associatedEntity /code	NS	Optional – use when needed to specialise @classCode. See <code> for available attributes.
Other Participant> Participation Period	The valid time interval during which the participation occurred.	0..1	participant/ time		
Other Participant> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/associatedEntity/ associatedPerson		
Other Participant>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	participant/associatedEntity/associatedPerson/< Entity Identifier >		See Common Pattern: Entity Identifier .
Other Participant>Participant> Address	The description of a location where an entity (person or organisation) 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/associatedEntity/< Address >		See Common Pattern: Address .
Other Participant>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	participant/associatedEntity/< Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Other Participant>Participant>Person> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in associatedEntity/associatedPerson.
Other Participant>Participant>Person> Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	participant/associatedEntity/associatedPerson/<Person Name>		See Common Pattern: Person Name .
Other Participant>Participant>Person> Healthcare Provider Detail	Information about an individual who is in the role of healthcare provider. A healthcare provider is any person who is involved in or associated with the delivery of healthcare to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Other Participant>Participant>Person>Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	participant/associatedEntity/associatedPerson/<Healthcare Provider Field of Practice>		See Common Pattern: Healthcare Provider Field of Practice .
Other Participant>Participant>Person>Healthcare Provider Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*	participant/associatedEntity/scopingOrganization		
Other Participant>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..1	participant/associatedEntity/scopingOrganization/<Entity Identifier>		See Common Pattern: Entity Identifier .
Other Participant>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	participant/associatedEntity/scopingOrganization/name		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- Begin Other Participant (non healthcare provider) -->
  <participant typeCode="PART">
    <time>
      <low value="20090801" />
    </time>
    <associatedEntity classCode="CAREGIVER">
      <code code="407543004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
        displayName="Primary carer" />
      <addr use="H">
        <streetAddressLine>55 Carer Street</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
      </addr>
      <telecom value="tel:0711111111" use="H" />
      <associatedPerson>
        <name>
          <prefix>Mr.</prefix>
          <family>Carer</family>
        </name>
      </associatedPerson>
    </associatedEntity>
  </participant>
  <!-- End Other Participant (non healthcare provider) -->

  <!-- Begin Other Participant (healthcare provider) -->
  <participant typeCode="PART">
    <time>
      <low value="20090801" />
    </time>
    <associatedEntity classCode="PROV">
      <code code="309395003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
        displayName="Hospital specialist" />
      <addr use="WP">
        <streetAddressLine>55 Specialist Road</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
      </addr>
    </associatedEntity>
  </participant>

```

XML Fragment

```

    <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
  </addr>
  <telecom value="tel:0722222222" use="WP" />
  <associatedPerson>
    <name>
      <prefix>Dr.</prefix>
      <family>Specialist</family>
    </name>
    <ext:asFieldOfPractice classCode="QUAL">
      <ext:code code="253322" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
        displayName="Renal Medicine Specialist" />
      <ext:effectiveTime>
        <low value="20010101" />
      </ext:effectiveTime>
    </ext:asFieldOfPractice>
  </associatedPerson>
  <scopingOrganization>
    <name>Specialist Business Name</name>
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="1.2.36.12355789" assigningAuthorityName="Australian Business Number (ABN)" />
      <ext:assigningScopingEntity classCode="IDENT">
        <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
          codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
          displayName="National Identifier" />
      </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
  </scopingOrganization>
</associatedEntity>
</participant>
<!-- End Other Participant (healthcare provider)-->

...

<!-- End CDA Header -->

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

    ...

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

```


7.2.2 PROBLEMS/DIAGNOSES THIS VISIT

Identification

Name	PROBLEMS/DIAGNOSES THIS VISIT
Metadata Type	Section
Identifier	S-20104

Relationships

Parent

Type	Name	Obligation	Occurrence
	EVENT	Essential	1..1

CDA Model

Figure 17 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

Problems/Diagnoses This Visit comprise of a Section class nested using the component relationship under the Event Section class. Each PROBLEM/DIAGNOSIS data group is represented by an Observation related to the Problems/Diagnoses This Visit Section class by an entry relationship.

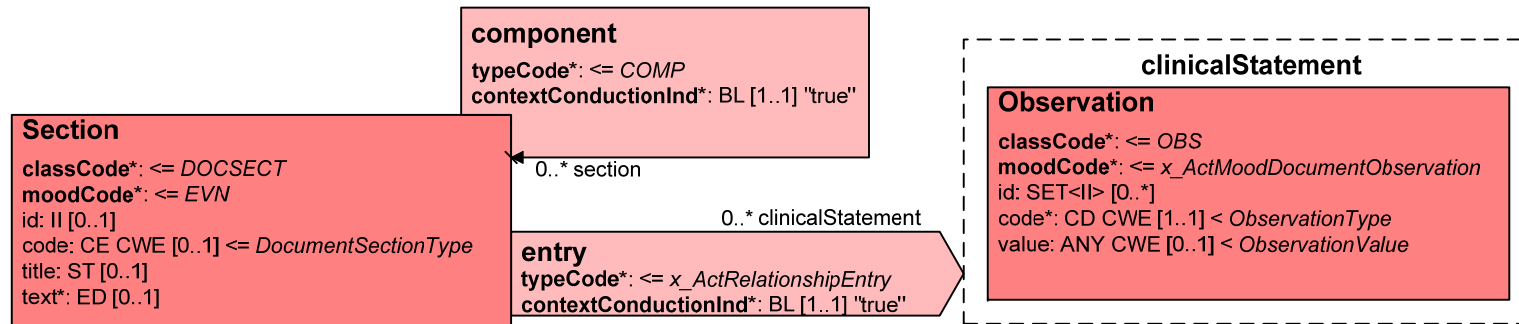


Figure 17: CDA Model for Problems/Diagnoses this Visit

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Event]					
Problems/Diagnoses This Visit	Describes the diagnostic labels or problem statements assigned by the healthcare provider to describe the diagnoses or health/medical problems relevant to the patient during the encounter. This must include at least one problem/diagnosis whose type is "Principal".	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Problems/Diagnoses This Visit'		
			component/section/ text		
CDA Body Level 3 Data Elements					
Context: ClinicalDocumentcomponent/structuredBodycomponent/section[Event]					
Problems/Diagnoses This Visit> Problem/Diagnosis	Describes a diagnostic label or problem statement assigned by the healthcare provider to describe the diagnoses or health/medical problems relevant to the patient during the encounter.	1..*	component/section/ entry		
			component/section/entry/ @typeCode='DRIV'		
			component/section/entry/ observation		
			component/section/entry/observation/ @classCode='OBS'		
			component/section/entry/observation/ @moodCode='EVN'		
			component/section/entry/observation/ id	UUID	See <id> for available attributes.
Problems/Diagnoses This Visit>Problem/Diagnosis> Problem/Diagnosis Type	The type used to categorise the problem/diagnosis. The supported Problem/Diagnosis Types must include "Principal", "Complication" and "Co-morbidity".	1..1	component/section/entry/observation/ code	NS	See <code> for available attributes.
Problems/Diagnoses This Visit>Problem/Diagnosis> Problem/Diagnosis Description	A description of the problem/diagnosis, which may or may not be coded.	1..1	component/section/entry/observation/ value	NEHTA SCT-AU Problem/Diagnosis Description Reference Set	
Problems/Diagnoses This Visit>Problem/Diagnosis> Attachment	A single document that has been attached to the problem/diagnosis observation, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry/observation/ <Attachment>		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
...
```

```
<!-- Begin CDA Header -->
```

```
...
```

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

```
    ...
```

```
    <!-- Begin Event section -->
```

```
    <component>
```

```
      <section>
```

```
        <code code="101.16006.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Event"
```

```
          codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <title>Event</title>
```

```
      ...
```

```
    <!-- Begin Problems/Diagnoses this visit section -->
```

```
    <component>
```

```
      <section>
```

```
        <code displayName="Problems/Diagnoses This Visit"
```

```
          code="101.20104.4.1.1" codeSystem="2.16.840.1.113883.6.9634"
```

```
          codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <!-- Begin Problems/Diagnoses this visit Narrative -->
```

```
        <title>Problems/Diagnoses This Visit</title>
```

```
        <text>
```

```
          <table>
```

```
            <tbody>
```

```
              <tr>
```

```
                <th>Problem/Diagnosis Type</th>
```

```
                <td>Comorbidity</td>
```

```
              </tr>
```

```
              <tr>
```

```
                <th>Problem/Diagnosis Description</th>
```

```
                <td>Chronic radiation cystitis</td>
```

```
              </tr>
```

XML Fragment

```
        </tbody>
      </table>
    </text>
    <!-- End Problems/Diagnoses this visit Narrative -->

    <entry typeCode="DRIV">
      <observation classCode="OBS" moodCode="EVN">
        <id root="81FEB786-C465-11DE-B347-E8CA56D89593" />
        <code code="116223007" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Comorbidity" />
        <value xsi:type="ED">Chronic radiation cystitis</value>
      </observation>
    </entry>
  </section>
</component>
<!-- End Problems/Diagnoses this visit section -->

  ...

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

...

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


7.2.3 CLINICAL INTERVENTIONS PERFORMED THIS VISIT

Identification

Name	CLINICAL INTERVENTIONS PERFORMED THIS VISIT
Metadata Type	Section
Identifier	S-20109

Relationships

Parent

Type	Name	Obligation	Occurrence
	EVENT	Optional	0..1

CDA Model

Figure 18 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

Clinical Interventions Performed This Visit comprise of a Section class nested using the component relationship under the Event Section class. Each CLINICAL INTERVENTION data group is represented by a Procedure related to the Clinical Interventions Performed This Visit Section class by an entry relationship.

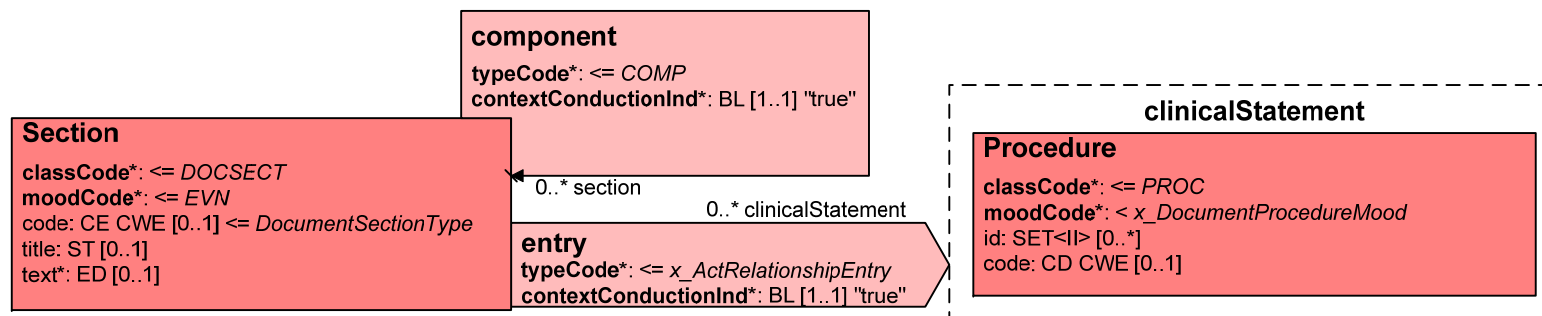


Figure 18: CDA Model for Clinical Interventions Performed this Visit

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Event]					
Clinical Interventions Performed This Visit	Describes the clinical interventions (including operations, procedures and relevant nursing and allied health interventions) performed on the patient during the healthcare encounter.	0..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Clinical Interventions Performed This Visit'		
			component/section/ text		
CDA Body Level 3 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Event]					
Clinical Interventions Performed This Visit> Clinical Intervention	Describes an intervention carried out by a healthcare provider to improve, maintain or assess the health of a patient, in a clinical situation that may require clinical judgement to produce a subjective finding (i.e. an 'action' that may include an 'evaluation'). Clinical interventions include invasive and non-invasive procedures, and cognitive interventions.	1..*	component/section/ entry		
			component/section/entry/ @typeCode='DRIV'		
			component/section/entry/ procedure		
			component/section/entry/procedure/ @classCode='PROC'		
			component/section/entry/procedure/ @moodCode='EVN'		
			component/section/entry/procedure/ id	UUID	See <id> for available attributes.
Clinical Interventions Performed This Visit>Clinical Intervention> Clinical Intervention Description	Describes the clinical intervention undertaken on or provided to the patient.	1..1	component/section/entry/procedure/ code	NEHTA SCT-AU Clinical Intervention Reference Set	See <code> for available attributes.
Clinical Interventions Performed This Visit>Clinical Intervention> Attachment	A single document that has been attached to the clinical intervention procedure, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry/procedure/ <Attachment>		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
...
```

```
<!-- Begin CDA Header -->
```

```
...
```

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

```
    ...
```

```
    <!-- Begin Event section -->
```

```
    <component>
```

```
      <section>
```

```
        <code code="101.16006.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Event"
          codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <title>Event</title>
```

```
      ...
```

```
    <!-- Begin Clinical Interventions Performed This Visit section -->
```

```
    <component>
```

```
      <section>
```

```
        <code displayName="Clinical Interventions Performed This Visit"
          code="101.20109.4.1.1" codeSystem="1.2.36.1.2001.1001"
          codeSystemName="NCTIS DATA COMPONENTS"/>
```

```
        <!-- Clinical Interventions Performed This Visit Narrative -->
```

```
        <title>Clinical Interventions Performed This Visit</title>
```

```
        <text>
```

```
          <table>
```

```
            <tbody>
```

```
              <tr>
```

```
                <th>Clinical Intervention Description</th>
```

```
                <td>Replacement of total knee joint</td>
```

```
              </tr>
```

```
            </tbody>
```

```
          </table>
```

```
        </text>
```

```
        <!-- End Clinical Interventions Performed This Visit Narrative -->
```

XML Fragment

```
        <entry typeCode="DRIV">
          <procedure classCode="PROC" moodCode="EVN">
            <id root="81FEB786-C465-11DE-B347-E8CA56D89593" />
            <code code="430698003" codeSystem="2.16.840.1.113883.6.96"
              codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Replacement of total knee joint" />
          </procedure>
        </entry>
      </section>
    </component>
    <!-- End Clinical Interventions Performed This Visit section -->

    ...

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

  ...

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


7.2.4 CLINICAL SYNOPSIS

Identification

Name	CLINICAL SYNOPSIS
Metadata Type	Data Group
Identifier	DG-15513

Relationships

Parent

Type	Name	Obligation	Occurrence
	EVENT	Essential	1..1

CDA Model

Figure 19 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The CLINICAL SYNOPSIS data group comprises of a Section class nested using the component relationship under the Event Section class. The CLINICAL SYNOPSIS is represented by an Act related to the Section class by an entry relationship.

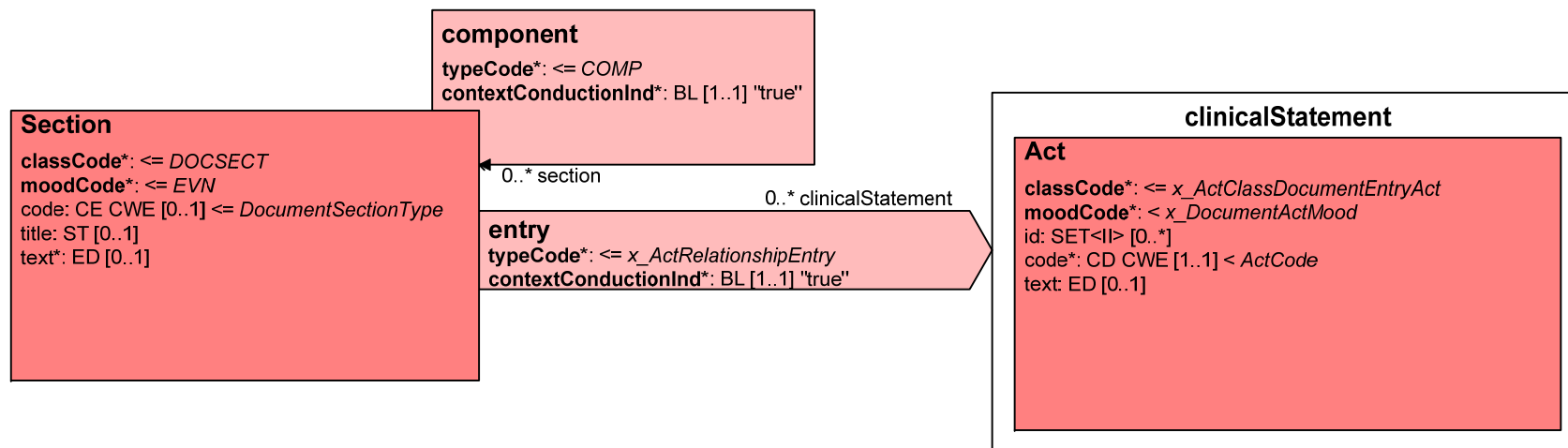


Figure 19: CDA Model for Clinical Synopsis

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Event]					
Clinical Synopsis	The clinical synopsis contains summary information or comments about the clinical management of the patient, and the prognosis of diagnoses/problems identified during the healthcare encounter. It may also include health-related information pertinent to the patient, and a clinical interpretation of relevant investigations and observations performed on the patient (including pathology and diagnostic imaging). Please note that pathology and diagnostic imaging reports referred to in the clinical synopsis should be included in full as an attachment to the Discharge Summary. These attached investigation reports should be referenced and listed in the Investigation results section.	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title= 'Clinical Synopsis'		
			component/section/ text		
CDA Body Level 3 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Event]					
Clinical Synopsis			component/section/ entry		
			component/section/entry/ @typeCode='DRIV'		
			component/section/entry/ act		
			component/section/entry/act/ @classCode='ACT'		
			component/section/entry/act/ @moodCode='EVN'		
			component/section/entry/act/ id	UUID	See <id> for available attributes.
			component/section/entry/act/ code		
			component/section/entry/act/code/ @code=170967006		
			component/section/entry/act/code/ @codeSystem='2.16.840.1.113883.6.96'		
component/section/entry/act/code/ @codeSystemName='SNOMED-CT'					
component/section/entry/act/code/ @displayName='Prognosis/outlook'					
Clinical Synopsis>Clinical Synopsis Description	The clinical synopsis, written in free text. The description may include a summary of the issues/problems, management strategies, outcomes/progress and possible prognosis.	1..1	component/section/entry/act/ text		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Clinical Synopsis> Attachment	A single document that has been attached to the clinical observation act, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry/act/< Attachment >		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

      ...

      <!-- Begin Event section -->
      <component>
        <section>
          <code code="101.16006.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Event"
            codeSystemName="NCTIS DATA COMPONENTS" />
          <title>Event</title>

          ...

          <!-- Begin Clinical Synopsis section -->
          <component>
            <section>
              <code displayName="Clinical Synopsis" code="102.15513.4.1.1"
                codeSystem="2.16.840.1.113883.6.9634" codeSystemName="NCTIS DATA COMPONENTS" />

              <!-- Clinical Synopsis Narrative -->
              <title>Clinical Synopsis</title>
              <text>
                <table>
                  <tbody>
                    <tr>
                      <th>Description</th>
                      <td>This 61yo female was admitted for elective, right, total knee replacement. Past history of mild COPD, mild
anaemia, and radiation cystitis. A cemented prosthesis was inserted without difficulty under combined lumbar epidural and general anaesthetic. On
day 2, she developed bilateral basal atelectasis. Ongoing problems with inadequate pain management because of persistent hypotension secondary to
the epidural. The epidural was ceased and the patient was switched to a morphine PCA regime. Due to concern about the potential for pneumonia in
the presence of COPD she was commenced on oral antibiotics and given regular chest physiotherapy. Due to mild anaemia prior to surgery and
subsequent operative blood loss she required a blood transfusion of three units. She was given regular enoxaparin (Clexane) to reduce the risk of
DVT. The patient subsequently makes steady progress, regaining good mobility in her knee and is able to mobilise with the aid of a stick. She is on
regular paracetamol and codeine for pain relief, as well as her usual medications for COPD. The Celecoxib was ceased. Aspirin is to be recommenced


```

```

at the discretion of the GP. Discharged with post-op analgesics and oral antibiotics.</td>
    </tr>
  </tbody>
</table>
</text>
<!-- End Clinical Synopsis Narrative -->

  <entry typeCode="DRIV">
    <act classCode="ACT" moodCode="EVN">
      <id root="39655E76-C465-11DE-8B04-0BC756D89593" />
      <code code="170967006" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Prognosis/outlook" />
      <text>This 61yo female was admitted for elective, right, total knee replacement. Past history of mild COPD, mild
anaemia, and radiation cystitis. A cemented prosthesis was inserted without difficulty under combined lumbar epidural and general anaesthetic. On
day 2, she developed bilateral basal atelectasis. Ongoing problems with inadequate pain management because of persistent hypotension secondary to
the epidural. The epidural was ceased and the patient was switched to a morphine PCA regime. Due to concern about the potential for pneumonia in
the presence of COPD she was commenced on oral antibiotics and given regular chest physiotherapy. Due to mild anaemia prior to surgery and
subsequent operative blood loss she required a blood transfusion of three units. She was given regular enoxaparin (Clexane) to reduce the risk of
DVT. The patient subsequently makes steady progress, regaining good mobility in her knee and is able to mobilise with the aid of a stick. She is on
regular paracetamol and codeine for pain relief, as well as her usual medications for COPD. The Celecoxib was ceased. Aspirin is to be recommenced
at the discretion of the GP. Discharged with post-op analgesics and oral antibiotics.</text>
    </act>
  </entry>
</section>
</component>
<!-- End Clinical Synopsis section -->

...

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

...

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

```


7.2.5 DIAGNOSTIC INVESTIGATIONS

Identification

Name	DIAGNOSTIC INVESTIGATIONS
Metadata Type	Section
Identifier	S-20117

Relationships

Parent

Type	Name	Obligation	Occurrence
	EVENT	Optional	0..1

CDA Model

Figure 20 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

Diagnostic Investigations comprises of a Section class nested using the component relationship under the Event Section class. Each DIAGNOSTIC INVESTIGATION data group is represented by an Observation related to the Diagnostic Investigations Section class by an entry relationship. If there is a Report Attachment, it is represented by the External Document class which is related to the Observation by the reference relationship.

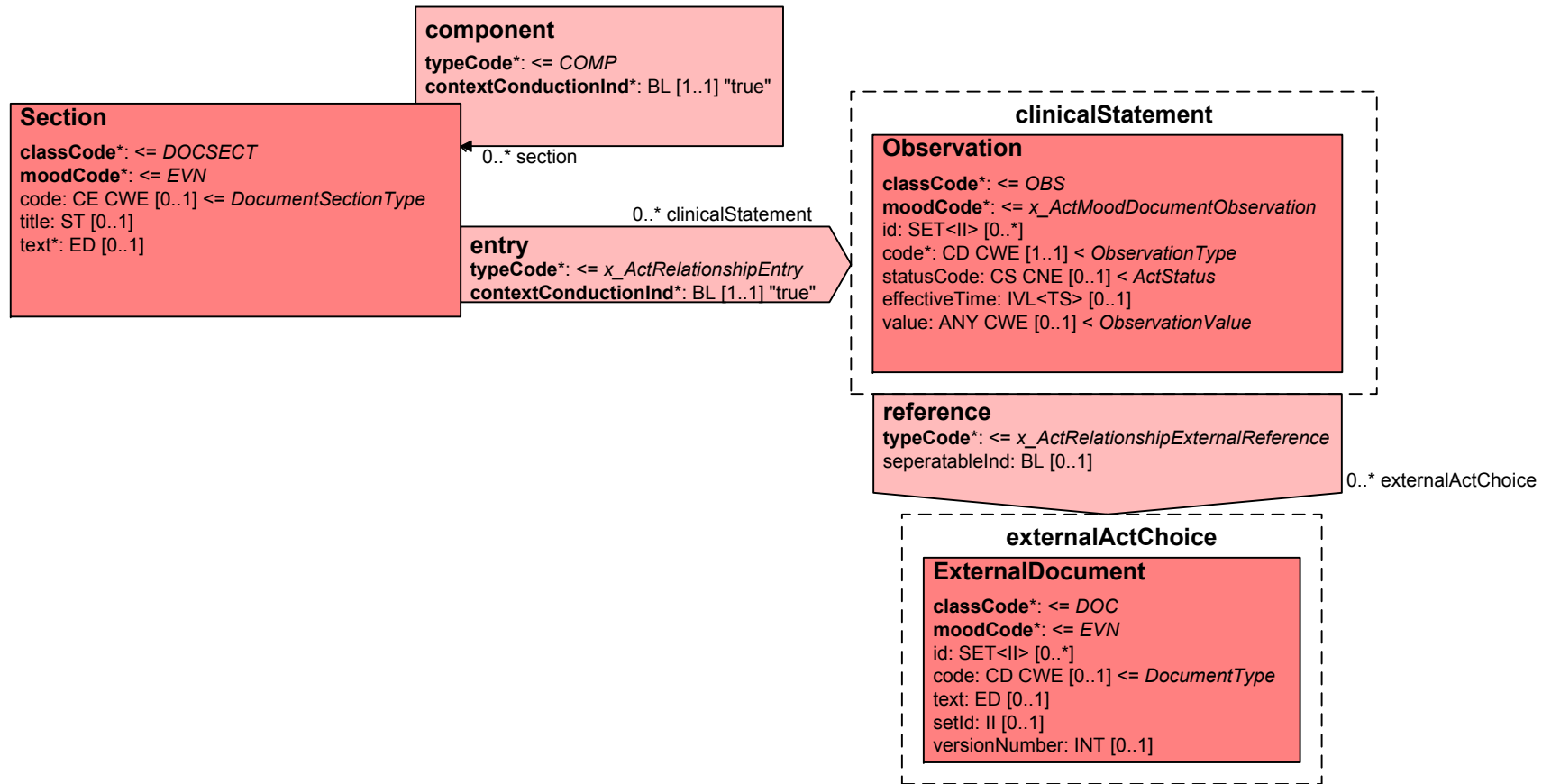


Figure 20: CDA Model for Diagnostic Investigations

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section[Event]		
Diagnostic Investigations	Describes the diagnostic investigations performed on the patient during the healthcare event that are considered to be relevant to the patient's ongoing care.	0..1	component/section/code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/title='Diagnostic Investigations'		
			component/section/text		
CDA Body Level 3 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section[Event]		
Diagnostic Investigations> Diagnostic Investigation	Describes a single diagnostic investigation.	1..*	component/section/entry		
			component/section/entry/@typeCode='DRIV'		
			component/section/entry/observation		
			component/section/entry/observation/@classCode='OBS'		
			component/section/entry/observation/@moodCode='EVN'		
			component/section/entry/observation/id	UUID	See <id> for available attributes.
Diagnostic Investigations>Diagnostic Investigation> Diagnostic Investigation Type	The type or category of diagnostic investigation performed on the patient.	1..1	component/section/entry/observation/code	NS	See <code> for available attributes.
Diagnostic Investigations>Diagnostic Investigation> Diagnostic Investigation Name	The name of the diagnostic investigation performed on the patient.	1..1	component/section/entry/observation/value:CD	NS	See <code> for available attributes.
Diagnostic Investigations>Diagnostic Investigation> DateTime of Diagnostic Investigation	The date and/or time that the diagnostic investigation was performed (in the case of diagnostic imaging investigations), or the specimen was taken (in the case of pathology investigations).	1..1	component/section/entry/observation/effectiveTime		See <time> for available attributes.
Diagnostic Investigations>Diagnostic Investigation> Result Status	The status of the test result as indicated by the performing pathologist or laboratory scientist, detailing the stage at which the pathology testing has reached.	1..1	component/section/entry/observation/entryRelationship		
			component/section/entry/observation/entryRelationship/@typeCode='SUBJ'		
			component/section/entry/observation/entryRelationship/@inversionInd='true'		
			component/section/entry/observation/entryRelationship/observation		
			component/section/entry/observation/entryRelationship/observation/@classCode='OBS'		
			component/section/entry/observation/entryRelationship/observation/@moodCode='EVN'		
			component/section/entry/observation/entryRelationship/observation/code		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			component/section/entry/observation/entryRelationship/observation/code/@code='308552006'		
			component/section/entry/observation/entryRelationship/observation/code/@codeSystem='2.16.840.1.113883.6.96'		
			component/section/entry/observation/entryRelationship/observation/code/@codeSystemName='SNOMED-CT'		
			component/section/entry/observation/entryRelationship/observation/code/@displayName='Report status (finding)'		
			component/section/entry/observation/entryRelationship/observation/id	UUID	See <id> for available attributes.
			component/section/entry/observation/entryRelationship/observation/value:CD	HL7 v2.4: Table 0123 Result Status	
Diagnostic Investigations>Diagnostic Investigation> Report Attachment (Attachment)	The investigation results report, included as an attachment, using either a link (reference to an external repository) or data (the actual content of the report itself).	0..1	component/section/entry/observation/<Attachment>		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

      ...

      <!-- Begin Event section -->
      <component>
        <section>
          <code code="101.16006.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Event"
            codeSystemName="NCTIS DATA COMPONENTS" />
          <title>Event</title>

          ...

          <!-- Begin Diagnostic Investigations section -->
          <component>
            <section>
              <code displayName="Diagnostic Investigations" code="101.20117.4.1.1"
                codeSystem="1.2.36.1.2001.1001" codeSystemName="NCTIS DATA COMPONENTS" />

              <!-- Begin Diagnostic Investigations Narrative -->
              <title>Diagnostic Investigations</title>
              <text>
                <table>
                  <tbody>
                    <tr>
                      <th>Diagnostic Investigation Type</th>
                      <td>Radiology</td>
                    </tr>
                    <tr>
                      <th>Diagnostic Investigation Name</th>
                      <td>Chest X-ray</td>
                    </tr>
                    <tr>
                      <th>Date Time of Diagnostic Investigation</th>

```

XML Fragment

```

        <td>20-Sept-2009 13:55</td>
      </tr>
    </table>
  </text>
  <!-- End Diagnostic Investigations Narrative -->

  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
      <id root="0B8D8E1C-C4E5-11DE-845C-0C9C55D89593" />
      <code code="394914008" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Radiology" />
      <effectiveTime value="200909201355" />
      <value xsi:type="CD" code="399208008" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Chest X-ray" />
      <entryRelationship typeCode="SUBJ" inversionInd="true">
        <observation classCode="OBS" moodCode="EVN">
          <id root="975F9796-C4EF-11DE-8984-0BA956D89593" />
          <code code="308552006" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Report status (finding)" />
          <value xsi:type="CD" code="F" codeSystem="2.16.840.1.113883.12.123"
            codeSystemName="HL7 Result Status"
            displayName="Final results; results stored and verified. Can only be changed with a corrected result." />
        </observation>
      </entryRelationship>
    </observation>
    <reference typeCode="REFR">
      <externalDocument>
        <id root="634E82A4-C4F0-11DE-B6E9-E8B356D89593" />
        <code>
          <originalText>Radiology Report</originalText>
        </code>
        <setId root="756813EC-C4F0-11DE-A341-0CB556D89593" />
        <versionNumber value="2" />
      </externalDocument>
    </reference>
  </entry>
</section>
</component>
<!-- End Diagnostic Investigations section -->

...

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

```

XML Fragment

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



7.3 MEDICATIONS

Identification


Name	MEDICATIONS
Metadata Type	Section
Identifier	S-16022

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	CURRENT MEDICATIONS ON DISCHARGE (MEDICATION RECONCILIATION)	Essential	1..1
	CEASED MEDICATIONS (MEDICATION RECONCILIATION)	Essential	1..1

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Essential	1..1

CDA Model

Figure 21 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

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

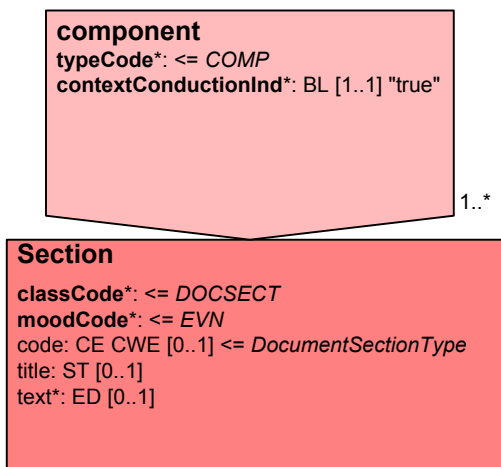


Figure 21: CDA Model for Medications

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument.component.structuredBody					
Medications	Describes relevant medication information for the patient to be communicated to the general practitioner. Includes sections on current medications on discharge and ceased medications.	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Medications'		
			component/section/ text		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

      ...

      <!-- Begin Medications section -->
      <component>
        <section>
          <code code="101.16022.4.1.1" codeSystem="1.2.36.1.2001.1001"
            displayName="Medications" codeSystemName="NCTIS DATA COMPONENTS" />
          <title>Medications</title>

          ...

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

      ...

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


7.3.1 CURRENT MEDICATIONS ON DISCHARGE

Identification

Name	CURRENT MEDICATIONS ON DISCHARGE (reuse of MEDICATION RECONCILIATION)
Metadata Type	Data Group
Identifier	DG-16026

Relationships

Parent

Type	Name	Obligation	Occurrence
	MEDICATIONS	Essential	1..1

CDA Model

Figure 22 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The CURRENT MEDICATIONS ON DISCHARGE data group is related to its context by a component relationship into a new section. This section has a related entry observation for KNOWN MEDICATIONS data group which includes mappings for the Known Medications Type and Value. Also related to the section by an entry is a SubstanceAdministration which describes the ITEM DETAIL data group. SubstanceAdministration has five related clinicalStatements: a subject Observation to represent Item Status, a reason Act to represent Reason for Medication, a reason Observation to represent Reason for Change, a reference Supply to represent Unit of Use, a supporting Observation to represent the CHANGE DETAIL data group and a component Observation to represent Additional Comments. Item Description maps to consumable.manufacturedProduct.manufacturedMaterial.

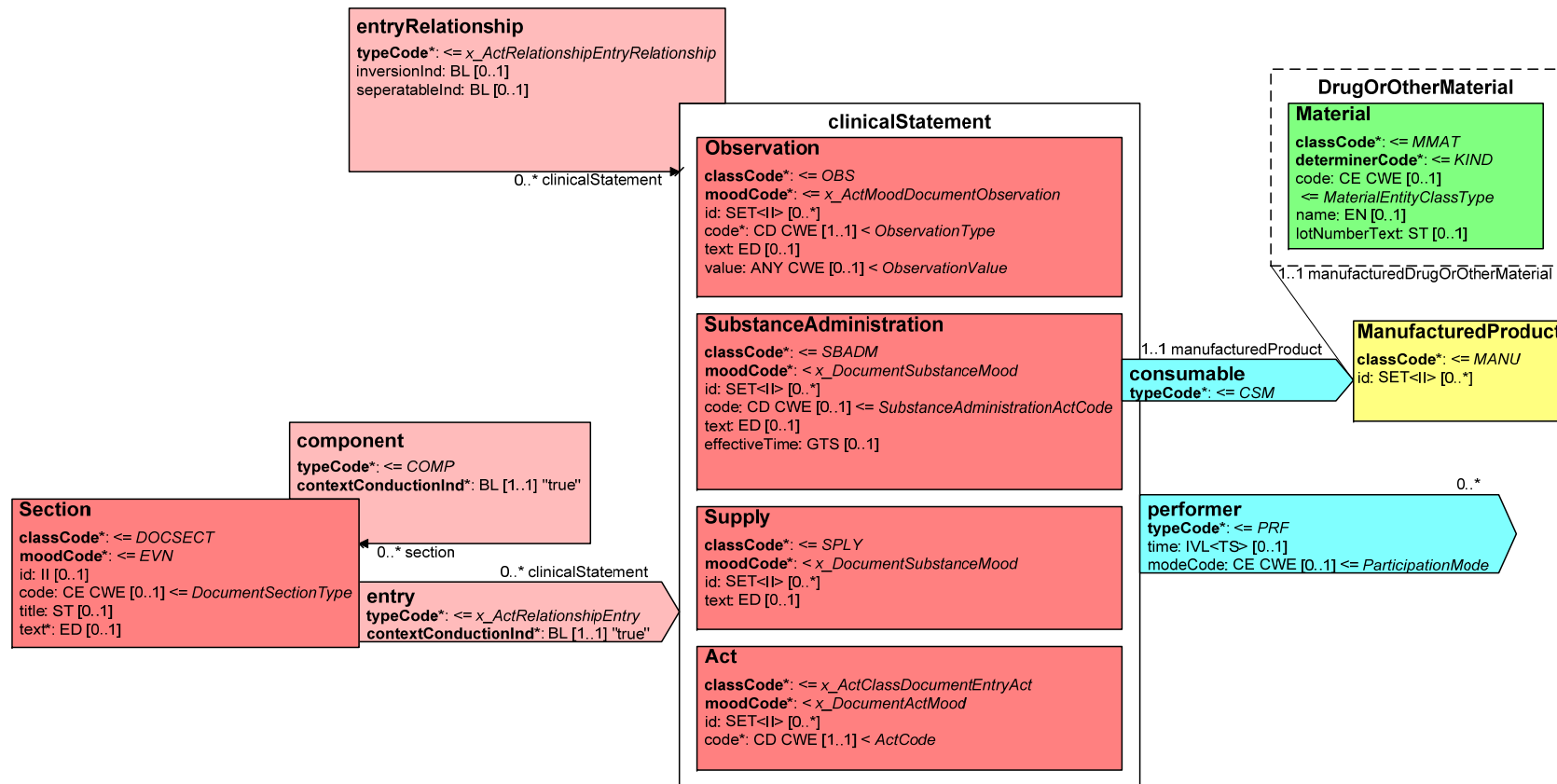


Figure 22: CDA Model for Current Medications on Discharge

Conformance

For context, follow link to element in mapping table.

- CONF 3** Element [substanceAdministration/entryRelationship\[item_status\]/observation/code](#) **MUST NOT** be populated with a code semantically equivalent to “Ceased”.
- CONF 4** Element [substanceAdministration/effectiveTime](#) **SHOULD** be expressed as a time interval with a start and/or end date. If an end date is recorded it **SHOULD** be after the discharge date. **MAY** also be expressed as a total prescribed duration, which indicates the elapsed time between start date and anticipated end date.
- CONF 5** If element [substanceAdministration/entryRelationship\[change_details\]/observation/code](#) has a value then element [substanceAdministration/entryRelationship\[change_details\]/observation/entryRelationship\[rsn_for_change\]/observation/value](#) **SHOULD** have a value.

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Medications]					
Current Medications On Discharge (Medication Reconciliation)	Medications that the patient will continue or commence on discharge.	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Current Medications On Discharge'		
			component/section/ text		
CDA Body Level 3 Data Elements					
Context: ClinicalDocument/component/structuredBody/component/section[Medications]					
Current Medications On Discharge>Known Medications	Indicates: (a) Whether or not the patient is known to be taking any medication; and (b) Whether medications known to be taken are continued or ceased.	1..1	component/section/ entry[knwn_meds]		
			component/section/entry[knwn_meds]/ @typeCode='DRIV'		
			component/section/entry[knwn_meds]/ observation		
			component/section/entry[knwn_meds]/observation/ @classCode='OBS'		
			component/section/entry[knwn_meds]/observation/ @moodCode='EVN'		
			component/section/entry[knwn_meds]/observation/ id	UUID	See <id> for available attributes.
Current Medications On Discharge>Known Medications Type	The type of Known Medications Value. This is used to determine which set the Medication belongs to.	1..1	component/section/entry[knwn_meds]/observation/ code	NCTIS: Admin Codes Use same code as was used for the section code.	See <code> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Current Medications On Discharge>Known Medications> Known Medications Value	Whether or not any relevant medications are known to exist.	1..1	component/section/entry[known_meds]/observation/ value:CD	Use nullFlavor for 'unknown'. Permissible values are 'known' and 'unknown'. NS: for known.	See <code> for available attributes.
Current Medications On Discharge> Item Detail	Describes a single unique medication product.	0..*	component/section/ entry[item_detail]		
			component/section/entry[item_detail]/ @typeCode='DRIV'		
			component/section/entry[item_detail]/ substanceAdministration		
			component/section/entry[item_detail]/substanceAdministration/ @moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/ @classCode='SBADM'		
			component/section/entry[item_detail]/substanceAdministration/ id	UUID	See <id> for available attributes.
Current Medications On Discharge>Item Detail> Item Status	The status of the medication item at the time of discharge.	1..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[item_status]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ @typeCode='SUBJ'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ @inversionInd='true'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ @classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ @moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ code	NS See CONF 3	See <code> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ id	UUID	See <id> for available attributes.
Current Medications On Discharge>Item Detail> Item	Describes the medication product.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Current Medications On Discharge>Item Detail>Item> Item Description	The details that fully describe a medication, including the name of the medication (active ingredients or brand name), strength and dose form, where appropriate.	1..1	component/section/entry[item_detail]/substanceAdministration/ consumable/manufacturerProduct/manufacturerMaterial/code	Australian Medicines Terminology: Any concept which has one of the following modelled relationships: IS A Medicinal product unit of use; IS A Medicinal product pack IS A Trade product unit of use; IS A Trade product pack; IS A Containered trade product pack. [NEHT2009A]	See <code> for available attributes.
Current Medications On Discharge>Item Detail> Medication Duration	The time period (optionally including start date, end date and length of time) that the patient has taken or will take the prescribed medication. If no end date is supplied, then the medication is ongoing. If the length of time post discharge is required, then this can be derived for display.	0..1	component/section/entry[item_detail]/substanceAdministration/ effectiveTime:IVL_TS	See CONF 4 .	See <time> for available attributes.
Current Medications On Discharge>Item Detail> Reason for Medication	The clinical justification (e.g. specific therapeutic effect intended) for this patient's use of the medication. For inpatient discharge summaries, this should always be recorded.	0..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[rsn_for_med]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/@ typeCode='RSON'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/ act		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/act/@ classCode='ACT'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/act/@ moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/act/ code	NS	See <code> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[rsn_for_med]/act/ id	UUID	See <id> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Current Medications On Discharge>Item Detail> Unit of Use Quantity Dispensed (Unit of Use Quantity)	The quantity of medication prescribed or dispensed/supplied to the patient.	0..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[unit_of_use]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/@typeCode='REFR'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/@inversionInd='true'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/supply		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/supply/@classCode='SPLY'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/supply/@moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/supply/id	UUID	See <id> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[unit_of_use]/supply/text		
Current Medications On Discharge>Item Detail> Dosage	A data group to describe how a particular medication is being taken by the patient.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.
Current Medications On Discharge>Item Detail>Dosage> Dose Instruction	A description of how a particular product is being taken by the patient as at the date of discharge, or is intended to be taken. This must include the route, dose quantity, frequency and any additional instructions required to safely describe the appropriate dosage. This should also include the administration schedule.	1..1	component/section/entry[item_detail]/substanceAdministration/ text		
Current Medications On Discharge>Item Detail> Change Detail	Describes information about any relevant changes made to the medication item during the patient's healthcare encounter, and the reason for that change.	0..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[change_details]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/@typeCode='SPRT'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/@classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/@moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/id	UUID	See <id> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Current Medications On Discharge>Item Detail>Change Detail> Changes Made	Description of any change made during the healthcare encounter where the change is intended to continue after the end of the healthcare encounter.	1..1	component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/ code	NS See CONF 5	
Current Medications On Discharge>Item Detail>Change Detail> Reason for Change	The justification for the stated change in medication.	0..1	component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/ entryRelationship[rsn_for_change]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ @typeCode='RSON'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/@classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/@moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/code		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/code/@code='ASSERTION'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/code/@codeSystem='2.16.840.1.113883.5.4'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/code/@displayName='Assertion'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/id	UUID	See <id> for available attributes.
component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation/value	See CONF 5				
Current Medications On Discharge>Item Detail> Medication Item Authoriser (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	The healthcare provider who authorised for this item to be added to the Current Medications list, and the role they played in the patient's healthcare (e.g. 'Pharmacist').	1..1	component/section/entry[item_detail]/substanceAdministration/ performer/AssignedEntity.AssignedPerson		See Common Pattern: AssignedEntity.AssignedPerson
Current Medications On Discharge>Item Detail> Additional Comments	Any additional information that may be needed to ensure the continuity of supply, continued proper use, or appropriate medication management.	0..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[add_comments]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/ @typeCode='COMP'		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/ observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/observation/@ classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/observation/@ moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/observation/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/observation/ id	UUID	See <id> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[add_comments]/observation/ text		
Current Medications On Discharge> Attachment	A single document that has been attached to the current medications substance administration, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry[item_detail]/substanceAdministration/< Attachment >		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

      ...

      <!-- Begin Medications section -->
      <component>
        <section>
          <code code="101.16022.4.1.1" codeSystem="1.2.36.1.2001.1001"
            displayName="Medications" codeSystemName="NCTIS DATA COMPONENTS" />
          <title>Medications</title>

          <!-- Begin Current medications on discharge -->
          <component>
            <section>
              <code code="102.16026.4.1.1" codeSystem="1.2.36.1.2001.1001" codeSystemName="NCTIS DATA COMPONENTS"
                displayName="102.16026.4.1.1" />
              <!-- Begin Current medications on discharge Narrative -->
              <title>Current Medications On Discharge</title>
              <text>
                <paragraph><content styleCode="Bold">Known Medications Value: </content>Known</paragraph>
                <paragraph />
                <paragraph>
                  <content styleCode="Bold">Item Detail</content>
                </paragraph>
                <table>
                  <tbody>
                    <tr>
                      <th>Item Status</th>
                      <td>Prescription dose change</td>
                    </tr>
                    <tr>
                      <th>Item Description</th>
                      <td>paracetamol 500mg + codeine phosphate 30 mg tablet</td>
                    </tr>
                  </tbody>
                </table>
              </text>
            </section>
          </component>
        </section>
      </component>
    </structuredBody>
  </component>
</ClinicalDocument>

```

XML Fragment

```

        <tr>
          <th>Medication Duration</th>
          <td>From 1 October 2009 to 1 October 2010</td>
        </tr>
        <tr>
          <th>Reason for Medication</th>
          <td>Pain control</td>
        </tr>
        <tr>
          <th>Unit of Use Quantity Dispensed</th>
          <td>25 tablets</td>
        </tr>
        <tr>
          <th>Dose Instruction</th>
          <td>2 tablets daily after breakfast</td>
        </tr>
        <tr>
          <th>Changes Made</th>
          <td>Drug dosage altered</td>
        </tr>
        <tr>
          <th>Reason for Change</th>
          <td>Optimise drug therapy.</td>
        </tr>
        <tr>
          <th>Additional Comments</th>
          <td>Dosage to be reviewed in 10 days.</td>
        </tr>
      </tbody>
    </table>
    <paragraph></paragraph>
    <paragraph>
      <content styleCode="Bold">Medication Item Authoriser</content>
    </paragraph>
    <paragraph><content styleCode="Italics">Attending Physician: </content>Dr. Good Doctor</paragraph>
    <paragraph><content styleCode="Italics">Doctor Number: </content>486B3B30-BCA8-11DE-90DB-FDCD55D89593: SOME_EXTENSION
(National Identifier: Doctor Number Assigning Body)</paragraph>
    <paragraph><content styleCode="Italics">Work Address: </content></paragraph>
    <paragraph>1 Clinician Street</paragraph>
    <paragraph>Nehtaville</paragraph>
    <paragraph>Queensland</paragraph>
    <paragraph>5555</paragraph>
    <paragraph />
    <paragraph>Work phone number: 0712341234 </paragraph>
    <paragraph>Field of Practice Description: Paediatrician</paragraph>
    <paragraph>Field of Practice Date Range: 1 January 2009</paragraph>
    <paragraph></paragraph>
  </text>
  <!-- End Current medications on discharge Narrative -->
  <!-- Known medications -->
  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
      <id root="1B682A04-C832-11DE-9174-9C4256D89593" />

```

XML Fragment

```

        <!-- Known medications type -->
        <code code="102.16026.4.1.1" codeSystem="1.2.36.1.2001.1001"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Current Medications On Discharge" />
        <!-- Known medications -->
        <value xsi:type="CD" code="36692007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Known" />
    </observation>
</entry>
<entry typeCode="DRIV">
    <!-- Item detail -->
    <substanceAdministration moodCode="EVN" classCode="SBADM">
        <id root="080C5AC2-C835-11DE-81C9-B16456D89593" />
        <!-- Dose instruction -->
        <text>2 tablets daily after breakfast</text>
        <!-- Medication duration -->
        <effectiveTime xsi:type="IVL_TS">
            <low value="20091001" />
            <high value="20101001" />
        </effectiveTime>
        <!-- Item description -->
        <consumable>
            <manufacturedProduct>
                <manufacturedMaterial>
                    <code code="23641011000036102" codeSystem="1.2.36.1.2001.1004.100"
                        codeSystemName="Australian Medicines Terminology (AMT)"
                        displayName="paracetamol 500 mg + codeine phosphate 30 mg tablet" />
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- Medication Item Authoriser -->
        <performer>
            <assignedEntity>
                <id nullFlavor="NA" />
                <code code="AT" codeSystem="2.16.840.1.113883.12.443"
                    codeSystemName="HL7 Provider Role" displayName="Attending" />
                <addr use="WP">
                    <streetAddressLine>1 Clinician Street</streetAddressLine>
                    <city>Nehtaville</city>
                    <state>QLD</state>
                    <postalCode>5555</postalCode>
                </addr>
                <telecom value="tel:0712341234" use="WP" />
                <assignedPerson>
                    <name>
                        <prefix>Dr.</prefix>
                        <given>Good</given>
                        <family>Doctor</family>
                    </name>
                    <ext:asEntityIdentifier classCode="IDENT">
                        <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD55D89593" extension="SOME_EXTENSION"
                            assigningAuthorityName="Doctor Number" />
                        <ext:assigningScopingEntity classCode="IDENT">
                            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                                codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"

```

XML Fragment

Edition, Revision 1"

```

        displayName="National Identifier" />
    </ext:assigningScopingEntity>
</ext:asEntityIdentifier>
<ext:asFieldOfPractice classCode="QUAL">
    <ext:code code="253321" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First
Edition, Revision 1"
        displayName="Paediatrician" />
    <ext:effectiveTime>
        <low value="20090101" />
    </ext:effectiveTime>
</ext:asFieldOfPractice>
</assignedPerson>
</assignedEntity>
</performer>
<!-- Item status -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <id root="25A6FDCE-C837-11DE-AE8D-9A8656D89593" />
        <code code="309633003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
            displayName="Prescription dose change" />
    </observation>
</entryRelationship>
<!-- Reason for medication -->
<entryRelationship typeCode="RSON">
    <act classCode="ACT" moodCode="EVN">
        <id root="3F399418-C83C-11DE-99FA-D5C756D89593" />
        <code code="225782006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
            displayName="Pain control" />
    </act>
</entryRelationship>
<!-- Unit of use quantity dispensed -->
<entryRelationship typeCode="REFR" inversionInd="true">
    <supply moodCode="EVN" classCode="SPLY">
        <id root="7926A99A-C841-11DE-A20D-198455D89593" />
        <text>25 tablets</text>
    </supply>
</entryRelationship>
<!-- Change detail -->
<entryRelationship typeCode="SPRT">
    <observation classCode="OBS" moodCode="EVN">
        <id root="986C93E4-C843-11DE-B62C-609C55D89593" />
        <!-- Changes made -->
        <code code="182877009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
            displayName="Drug dosage altered" />
        <!-- Reason for change -->
        <entryRelationship typeCode="RSON">
            <observation classCode="OBS" moodCode="EVN">
                <id root="93CCA164-C850-11DE-A4CA-EE4756D89593" />
                <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" displayName="Assertion" />
                <value xsi:type="ED">Optimise drug therapy.</value>
            </observation>
        </entryRelationship>
    </observation>
</entryRelationship>
</observation>

```

XML Fragment

```
        </entryRelationship>
        <!-- Additional comments -->
        <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
                <id root="13DC242A-C855-11DE-BFE5-3F7A56D89593" />
                <code code="103.16044.4.1.1" codeSystem="1.2.36.1.2001.1001"
                    displayName="Additional Comments" codeSystemName="NCTIS Data Components" />
                <text>Dosage to be reviewed in 10 days.</text>
            </observation>
        </entryRelationship>
    </substanceAdministration>
</entry>
</section>
</component>
<!-- End Current medications on discharge -->

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

...

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


7.3.2 CEASED MEDICATIONS

Identification

Name	CEASED MEDICATIONS (reuse of MEDICATION RECONCILIATION)
Metadata Type	Data Group
Identifier	DG-16026

Relationships

Parent

Type	Name	Obligation	Occurrence
	MEDICATIONS	Essential	1..1

CDA Model

Figure 23 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The CEASED MEDICATIONS data group is related to its context by a component relationship into a new section. This section has a related entry observation for KNOWN MEDICATIONS data group which includes mappings for the Known Medications Type and Value. Also related to the section by an entry is a SubstanceAdministration which describes the ITEM DETAIL data group. SubstanceAdministration has three related clinicalStatements: a subject Observation to represent Item Status, a supporting Observation to represent the CHANGE DETAIL data group and a reason Observation to represent Reason for Change. Item Description maps to consumable.manufacturedProduct.manufacturedMaterial.

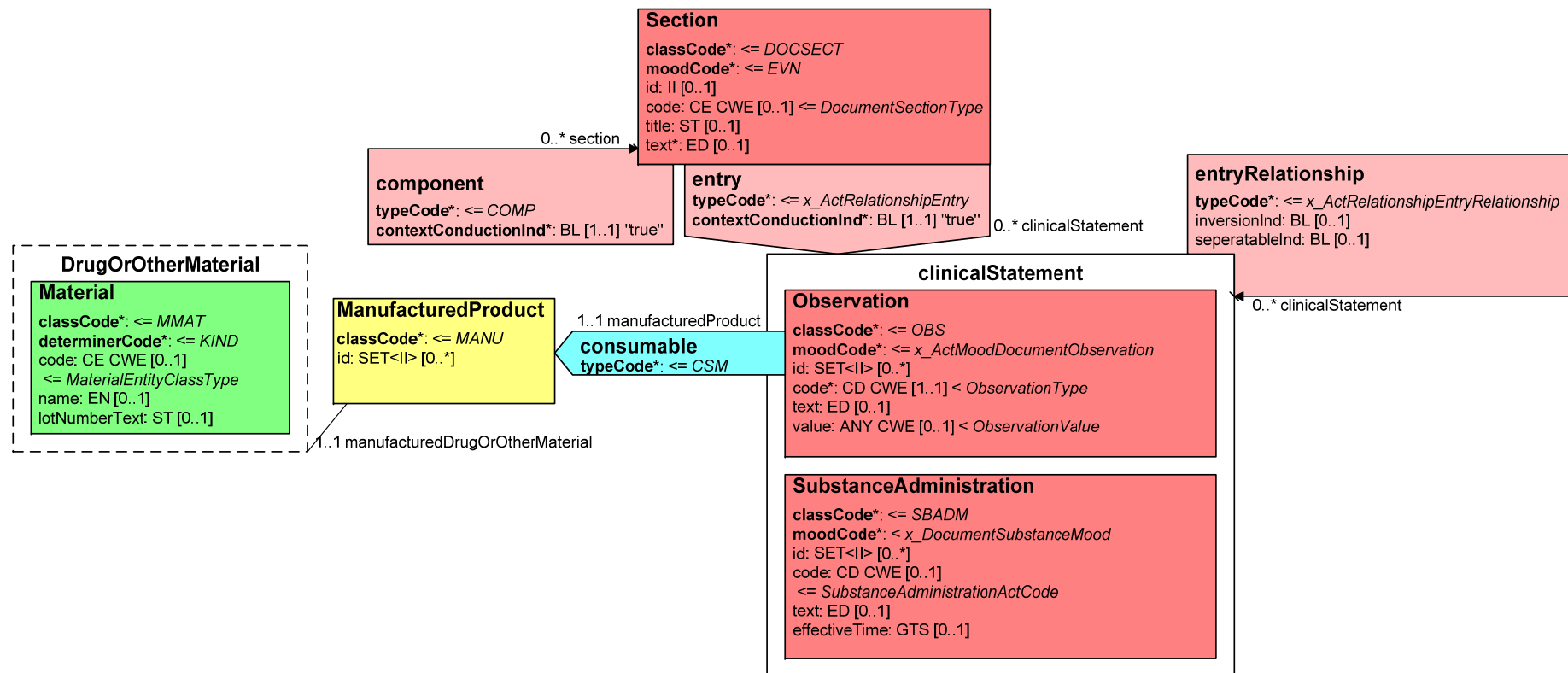


Figure 23: CDA Model for Ceased Medications

Conformance

For context, follow link to element in mapping table.

- CONF 6** [substanceAdministration/entryRelationship\[item_status\]/observation/code](#) **MUST** be populated with a code semantically equivalent to "Ceased".
- CONF 7** [substanceAdministration/entryRelationship\[change_details\]/observation/code](#) **MUST** be populated with a code semantically equivalent to "Medication Ceased".
- CONF 8** [substanceAdministration/entryRelationship\[change_details\]/observation/entryRelationship\[rsn_for_change\]/observation/value](#) **SHOULD** always be included for Ceased Medications.

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody/component/section[Medications]		
Ceased Medications (Medication Reconciliation)	Medications that the patient was taking at the start of the healthcare encounter (e.g. on admission), that have been stopped during the encounter or on discharge, and that are not expected to be recommended.	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Ceased Medications'		
			component/section/ text		
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component/section[Medications]		
Ceased Medications> Known Medications	Indicates: (a) Whether or not the patient is known to be taking any medication; and (b) Whether medications known to be taken are continued or ceased.	1..1	component/section/ entry		
			component/section/entry/ @typeCode='DRIV'		
			component/section/entry/ observation		
			component/section/entry/observation/ @classCode='OBS'		
			component/section/entry/observation/ @moodCode='EVN'		
			component/section/entry/observation/ id	UUID	See <id> for available attributes.
Ceased Medications>Known Medications> Known Medications Type	The type of Known Medications Value. This is used to determine which set the Medication belongs to.	1..1	component/section/entry/observation/ code	NCTIS: Admin Codes Use same code as was used for the section code.	See <code> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Ceased Medications>Known Medications> Known Medications Value	Whether or not any relevant medications are known to exist.	0..*	component/section/entry/observation/ value:CD	Use nullFlavor for 'unknown'. Permissible values are 'known' and 'unknown'. NS	See <code> for available attributes.
Ceased Medications> Item Detail	Describes a single unique medication product.	1..1	component/section/ entry[item_detail]		
			component/section/entry[item_detail]/ @typeCode='DRIV'		
			component/section/entry[item_detail]/ substanceAdministration		
			component/section/entry[item_detail]/substanceAdministration/ @moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/ @classCode='SBADM'		
			component/section/entry[item_detail]/substanceAdministration/ id	UUID	See <id> for available attributes.
Ceased Medications>Item Detail> Item Status	The status of the medication item at a specific point in time, e.g. at discharge.	1..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[item_status]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ @typeCode='SUBJ'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ @inversionInd='true'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/ observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ @classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ @moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ code	NS See CONF 6	See <code> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[item_status]/observation/ id	UUID	See <id> for available attributes.
Ceased Medications>Item Detail> Item	Describes the medication product.	1..1	n/a		This logical NEHTA data component has no mapping to CDA.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Current Medications On Discharge>Item Detail>Item> Item Description	The details that fully describe a medication, including the name of the medication (active ingredients or brand name), strength and dose form, where appropriate.	1..1	component/section/entry[item_detail]/substanceAdministration/ consumable/manufacturerProduct/manufacturerMaterial/code	Australian Medicines Terminology: Any concept which has one of the following modelled relationships: IS A Medicinal product unit of use; IS A Medicinal product pack IS A Trade product unit of use; IS A Trade product pack; IS A Containered trade product pack. [NEHT2009A]	See <code> for available attributes.
Ceased Medications>Item Detail> Change Detail	Describes information about any relevant changes made to the medication item during the patient's healthcare encounter, and the reason for that change.	0..1	component/section/entry[item_detail]/substanceAdministration/ entryRelationship[change_details]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/@typeCode='SPRT'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/ observation		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/@classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/@moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/ id	UUID	See <id> for available attributes.
Ceased Medications>Item Detail>Change Detail> Changes Made	Description of any change made during the healthcare encounter where the change is intended to continue after the end of the healthcare encounter.	1..1	component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/ code	NS See CONF 7	See <code> for available attributes.
Ceased Medications>Item Detail> Reason for Change	The justification for the stated change in medication.	0..1	component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/ entryRelationship[rsn_for_change]		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/@typeCode='RSON'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/ observation		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/@classCode='OBS'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/@moodCode='EVN'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/code		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/code/@code='ASSERTION'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/code/@codeSystem='2.16.840.1.113883.5.4'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/code/@displayName='Assertion'		
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/id	UUID	See <id> for available attributes.
			component/section/entry[item_detail]/substanceAdministration/entryRelationship[change_details]/observation/entryRelationship[rsn_for_change]/observation/value	See CONF 8	This is the reason for the cessation of the medication.
Ceased Medications> Attachment	A single document that has been attached to the ceased medications substance administration, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry[item_detail]/substanceAdministration/< Attachment >		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

      ...

      <!-- Begin Medications section -->
      <component>
        <section>
          <code code="101.16022.4.1.1" codeSystem="1.2.36.1.2001.1001"
            displayName="Medications" codeSystemName="NCTIS DATA COMPONENTS" />
          <title>Medications</title>

          ...

          <!-- Begin Ceased medications -->
          <component>
            <section>
              <code code="102.16026.4.1.2" codeSystem="2.16.840.1.113883.6.1"
                codeSystemName="NCTIS DATA COMPONENTS" displayName="Ceased Medications" />
              <!-- Begin Ceased medications Narrative -->
              <title>Ceased Medications</title>
              <text>
                <paragraph><content styleCode="Bold">Known Medications Value: </content>Known</paragraph>
                <paragraph />
                <paragraph>
                  <content styleCode="Bold">Item Detail</content>
                </paragraph>
                <table>
                  <tbody>
                    <tr>
                      <th>Item Status</th>
                      <td>Ceased</td>
                    </tr>
                    <tr>
                      <th>Item Description</th>

```

XML Fragment

```

        <td>paracetamol 500mg + codeine phosphate 30 mg tablet</td>
    </tr>
    <tr>
        <th>Changes Made</th>
        <td>Drug therapy discontinued</td>
    </tr>
    <tr>
        <th>Reason for Change</th>
        <td>Side effect.</td>
    </tr>
</tbody>
</table>
<paragraph />
<paragraph />
</text>
<!-- End Ceased medications Narrative -->

<!-- Known medications -->
<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <id root="AF28B576-CDB7-11DE-8873-6D7655D89593" />
        <!-- Known medications type -->
        <code code="102.16026.4.1.2" codeSystem="2.16.840.1.113883.6.1"
            codeSystemName="NCTIS DATA COMPONENTS" displayName="Ceased Medications" />
        <!-- Known medications value-->
        <value xsi:type="CD" code="36692007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Known" />
    </observation>
</entry>

<entry typeCode="DRIV">
    <!-- Item detail -->
    <substanceAdministration moodCode="EVN" classCode="SBADM">
        <id root="A8921C16-CDB7-11DE-B34C-267655D89593" />
        <!-- Item description -->
        <consumable>
            <manufacturedProduct>
                <manufacturedMaterial>
                    <code code="23641011000036102" codeSystem="1.2.36.1.2001.1004.100"
                        codeSystemName="Australian Medicines Terminology (AMT)"
                        displayName="paracetamol 500 mg + codeine phosphate 30 mg tablet" />
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>

        <!-- Item status -->
        <entryRelationship typeCode="SUBJ" inversionInd="true">
            <observation classCode="OBS" moodCode="EVN">
                <id root="9C9E3458-CDB7-11DE-8ED0-C37555D89593" />
                <code>
                    <originalText>Ceased</originalText>
                </code>
            </observation>
        </entryRelationship>
    </substanceAdministration>
</entry>

```

XML Fragment

```

    <!-- Change detail -->
    <entryRelationship typeCode="SPRT">
      <observation classCode="OBS" moodCode="EVN">
        <id root="90F4E89A-CDB7-11DE-A0BC-5E7555D89593" />
        <!-- Changes made -->
        <code code="274512008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
          displayName="Drug therapy discontinued" />
        <!-- Reason for change -->
        <entryRelationship typeCode="RSON">
          <observation classCode="OBS" moodCode="EVN">
            <id root="BB6799BA-CDB7-11DE-86D5-957655D89593" />
            <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" displayName="Assertion" />
            <value xsi:type="ED">Side effect.</value>
          </observation>
        </entryRelationship>
      </observation>
    </entryRelationship>
  </substanceAdministration>
</entry>
</section>
</component>
<!-- End Ceased medications -->

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

...

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

```




7.4 HEALTH PROFILE

Identification


Name	HEALTH PROFILE
Metadata Type	Section
Identifier	S-16011

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	HEALTHCARE PROVIDERS	Optional	0..1
	ADVERSE REACTIONS	Essential	1..1
	ALERTS	Optional	0..1

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Essential	1..1

CDA Model

Figure 24 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

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

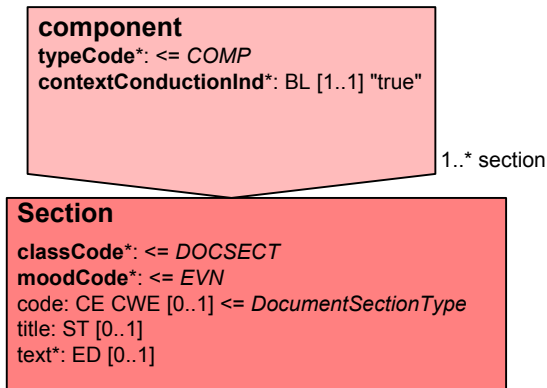


Figure 24: CDA Model for Health Profile

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: <code>ClinicalDocument/component/structuredBody</code>					
Health Profile	Contains information related to the patient that is not specific to the healthcare encounter described by the discharge summary.	0..1	component/section/ code	NCTIS: Admin Codes	See <code><code></code> for available attributes.
			component/section/ title='Health Profile'		
			component/section/ text		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

...

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

...

```
    <!-- Begin Health Profile section -->
```

```
    <component>
```

```
      <section>
```

```
        <code code="101.16011.4.1.1" codeSystem="1.2.36.1.2001.1001"
```

```
          displayName="Health Profile" codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <title>Health Profile</title>
```

...

```
      </section>
```

```
    </component>
```

```
  <!-- End Health Profile section -->
```

```
</structuredBody>
```

```
</component>
```

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

```
</ClinicalDocument>
```


7.4.1 HEALTHCARE PROVIDERS

Identification


Name	HEALTHCARE PROVIDERS
Metadata Type	Data Group
Identifier	DG-20102

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	NOMINATED PRIMARY HEALTHCARE PROVIDER	Optional	0..*

Parent

Type	Name	Obligation	Occurrence
	HEALTH PROFILE	Optional	0..1

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
Healthcare Providers	Contains details of the patient's healthcare providers.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.


7.4.1.1 NOMINATED PRIMARY HEALTHCARE PROVIDER

7.4.1.1.1 NOMINATED PRIMARY HEALTHCARE PROVIDER (PERSON)

Identification

Name	NOMINATED PRIMARY HEALTHCARE PROVIDER
Metadata Type	Data Group (reuse of (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))), please refer to Data Specification - PARTICIPATION SPECIALISATIONS for more detail [NEHT2009F]
Identifier	DG-10296

Relationships*Parent*

Type	Name	Obligation	Occurrence
	HEALTHCARE PROVIDERS	Optional	0..*

CDA Model

Figure 25 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The NOMINATED PRIMARY HEALTHCARE PROVIDER (person) data group is related to its context of ClinicalDocument by the participant participation class. A participant is a person in the role of associatedEntity (AssociatedEntity class). The entity playing the role is associatedPerson (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (NEHTA CDA Extension) which is associated to the associatedEntity. Healthcare provider field of practice details are mapped to the FieldOfPractice class (NEHTA CDA Extension). The employer details are mapped to receivedOrganization (Organization class) which also has entity identifier mapped to the EntityIdentifier class.

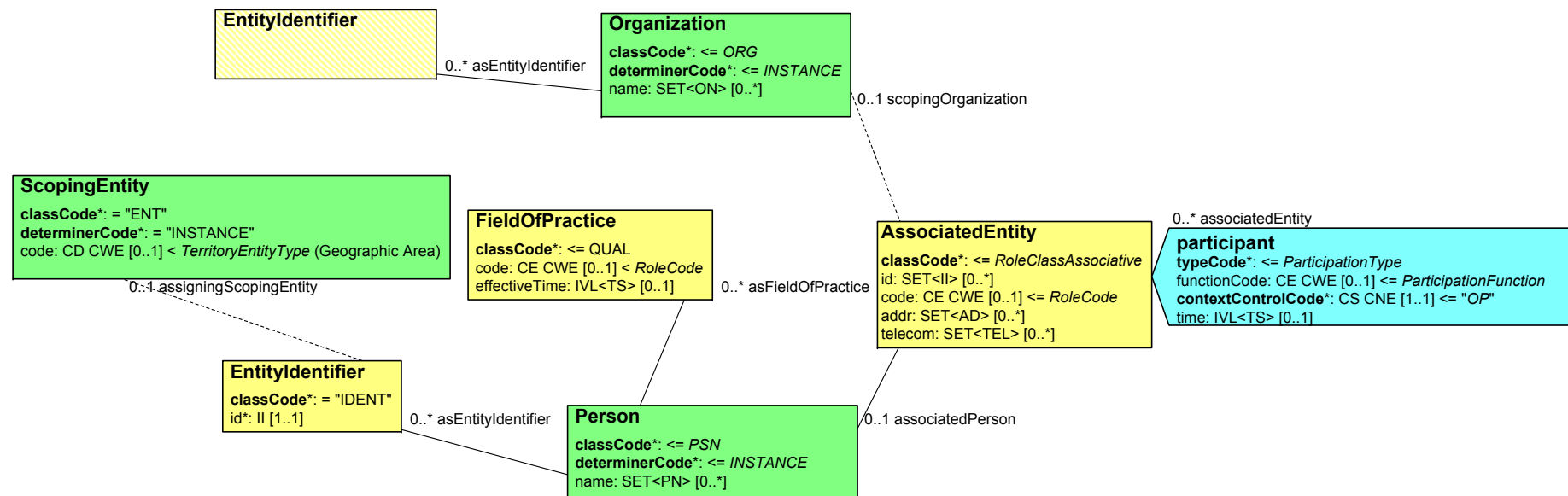


Figure 25: CDA Model for Nominated Primary Healthcare (Person)

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Header Data Elements					
		Context:	ClinicalDocument		
Nominated Primary Healthcare Provider (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON))	The healthcare providers (person) nominated by the patient as being primarily responsible for their ongoing healthcare. It is expected that in many cases there will only be one nominated primary healthcare provider, and that this will be a General Practitioner or General Practice. If the nominated primary healthcare provider is an individual, then Person Identifier and Name must be recorded.	0..*	participant participant/@typeCode='PART' participant/@functionCode='PCP'		
Nominated Primary Healthcare Provider> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in participant/functionCode.
Nominated Primary Healthcare Provider> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	participant/associatedEntity/code	NS	See <code> for available attributes.
Nominated Primary Healthcare Provider> Participation Period	The valid time interval during which the participation occurred.	0..1	participant/time		
Nominated Primary Healthcare Provider> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/associatedEntity/associatedPerson		
Nominated Primary Healthcare Provider>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	1..*	participant/associatedEntity/associatedPerson/<Entity Identifier>		See Common Pattern: Entity Identifier .
Nominated Primary Healthcare Provider>Participant> Addresses	The description of a location where an entity (person or organisation) 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/associatedEntity/<Address>		See Common Pattern: Address .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Nominated Primary Healthcare Provider>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	participant/associatedEntity/ <Electronic Communication Detail>		See Common Pattern: Electronic Communication Detail .
Nominated Primary Healthcare Provider>Participant> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in associatedEntity/associatedPerson.
Nominated Primary Healthcare Provider>Participant>Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	participant/associatedEntity/associatedPerson/ <Person Name>		See Common Pattern: Person Name .
Nominated Primary Healthcare Provider>Participant>Person > Healthcare Provider Detail	Information about an individual who is in the role of healthcare provider. A healthcare provider is any person who is involved in or associated with the delivery of healthcare to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Nominated Primary Healthcare Provider>Participant>Person >Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	participant/associatedEntity/associatedPerson/ <Healthcare Provider Field of Practice>		See Common Pattern: Healthcare Provider Field of Practice .
Nominated Primary Healthcare Provider>Participant>Person >Healthcare Provider Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*	participant/associatedEntity/representedOrganization		
Nominated Primary Healthcare Provider>Participant>Person >Healthcare Provider Detail>Employer Organisation Detail> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..1	participant/associatedEntity/representedOrganization/ <Entity Identifier>		See Common Pattern: Entity Identifier .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Nominated Primary Healthcare Provider>Participant>Person >Healthcare Provider Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	participant/associatedEntity/ representedOrganization/ name		

Example

XML Fragment
<pre> <!--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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0" xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema"> ... <!-- Begin CDA Header --> ... <!-- Begin Nominated primary healthcare provider (person) --> <participant typeCode="PART"> <functionCode code="PCP" /> <time> <low value="20090801" /> </time> <associatedEntity classCode="PROV"> <code code="62247001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="General practitioner" /> <addr use="WP"> <streetAddressLine>55 GP Street</streetAddressLine> <city>Nehtaville</city> <state>QLD</state> <postalCode>5555</postalCode> <additionalLocator>32568931</additionalLocator> </addr> <telecom value="tel:0777777777" use="WP" /> <associatedPerson> <name> <prefix>Dr.</prefix> <family>Generalist</family> </name> <ext:asFieldOfPractice classCode="QUAL"> <ext:code code="253111" codeSystem="2.16.840.1.113883.13.62" </pre>

XML Fragment

```

        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1"
        displayName="General Medical Practitioner" />
    <ext:effectiveTime>
        <low value="19900101" />
    </ext:effectiveTime>
</ext:asFieldOfPractice>
</associatedPerson>
<scopingOrganization>
    <name>GP Practice</name>
    <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.12353789" assigningAuthorityName="Australian Business Number (ABN)" />
        <ext:assigningScopingEntity classCode="IDENT">
            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                displayName="National Identifier" />
        </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
</scopingOrganization>
</associatedEntity>
</participant>
<!-- End Nominated primary healthcare provider (person) -->

...

<!-- End CDA Header -->

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

        ...

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


```

7.4.1.1.2 NOMINATED PRIMARY HEALTHCARE PROVIDER (ORGANISATION)

Identification

Name	NOMINATED PRIMARY HEALTHCARE PROVIDER
Metadata Type	Data Group (reuse of PARTICIPATION BY ORGANISATION, please refer to Data Specification - PARTICIPATION SPECIALISATIONS for more detail [NEHT2009F])
Identifier	DG-10296

Relationships*Parent*

Type	Name	Obligation	Occurrence
	HEALTHCARE PROVIDERS	Optional	0..*

CDA Model

Figure 26 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Header elements.

The NOMINATED PRIMARY HEALTHCARE PROVIDER (organisation) data group is related to its context of ClinicalDocument by the participant Participation class. An participant is an organisation in the role of associatedEntity (AssociatedEntity class). The entity playing the role is scopingOrganization (Organization class). The department/unit name is mapped to scopingOrganization.name and the organisation name is mapped to the wholeOrganization (Organization class) which represents a whole-part relationship using the OrganizationPartOf role. The organisation entity identifier is represented by the EntityIdentifier class (NEHTA CDA extension) which is associated to the wholeOrganization.

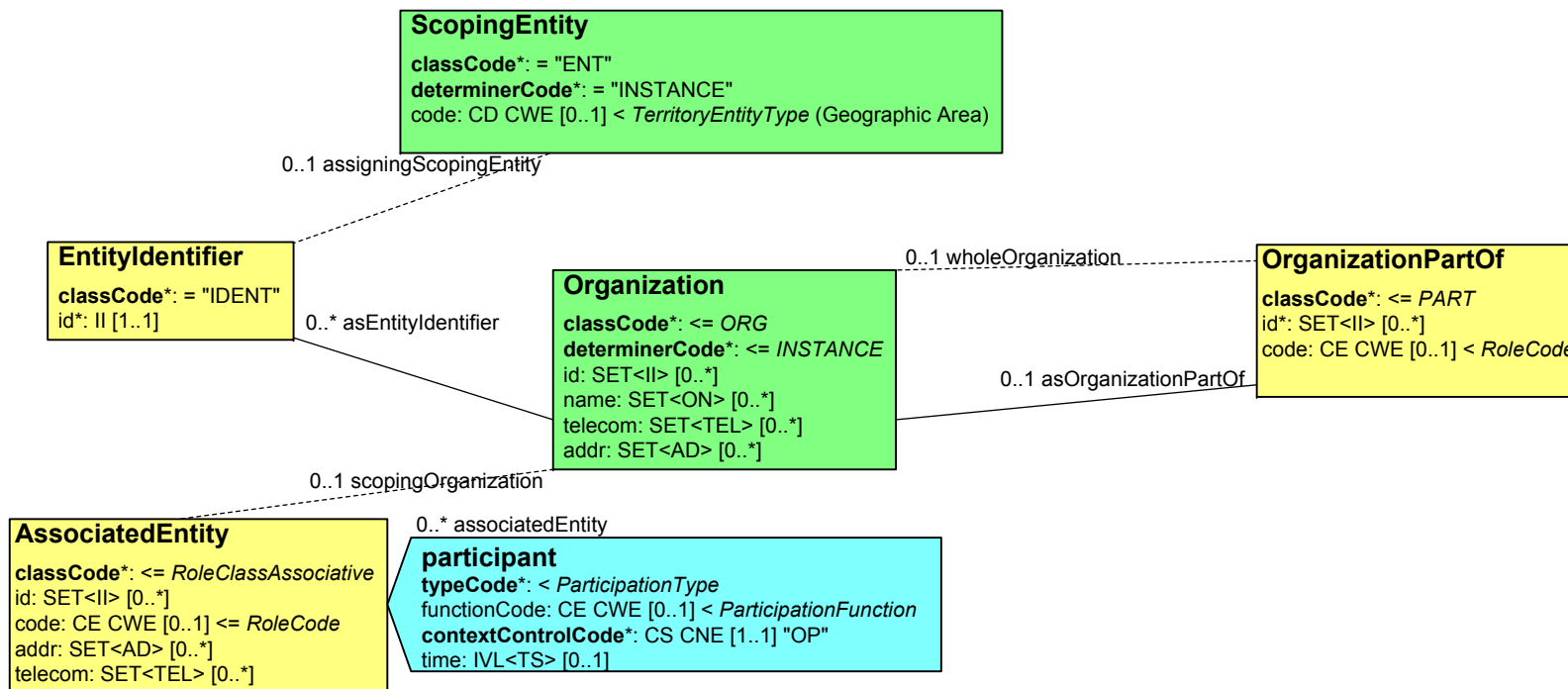


Figure 26: CDA Model for Nominated Primary Healthcare Provider (Organisation)

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Context: ClinicalDocument					
Nominated Primary Healthcare Provider (PARTICIPATION BY ORGANISATION)	The healthcare providers (organisation) nominated by the patient as being primarily responsible for their ongoing healthcare. It is expected that in many cases there will only be one nominated primary healthcare provider, and that this will be a General Practitioner or General Practice. If the nominated primary healthcare provider is or has an organisation, then Organisation Identifier and Organisation Name must be recorded.	0..*	participant participant/@typeCode='PART' participant/@functionCode='PCP'		
Nominated Primary Healthcare Provider> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in participant/functionCode.
Nominated Primary Healthcare Provider> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	participant/associatedEntity/code	NS	See <code> for available attributes.
Nominated Primary Healthcare Provider> Participation Period	The valid time interval during which the participation occurred.	0..1	participant/time		See <time> for available attributes.
Nominated Primary Healthcare Provider> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/associatedEntity/scopingOrganization		
Nominated Primary Healthcare Provider>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	1..*	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/whole Organization/<Entity Identifier>		See Common Pattern: Entity Identifier .
Nominated Primary Healthcare Provider>Participant> Addresses	The description of a location where an entity (person or organisation) 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/associatedEntity/<Address>		See Common Pattern: Address .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Nominated Primary Healthcare Provider>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	participant/associatedEntity/< Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .
Nominated Primary Healthcare Provider>Participant> Organization	Describes one or more organisations of interest to, or involved in, the business of health care service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in associatedEntity/scopingOrganization.
Nominated Primary Healthcare Provider>Participant>Organisation> Organisation Name Detail	Data elements commonly used to identify organisations that exist within healthcare domains.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Nominated Primary Healthcare Provider>Participant>Organisation>Organisation Name Detail> Organisation Name	The name by which an organisation is known or called.	1..1	participant/associatedEntity/scopingOrganization/ asOrganizationPartOf/wholeOrganization/name		
Nominated Primary Healthcare Provider>Participant>Organisation>Organisation Name Detail> Department/Unit	The name by which a department or unit within an organisation is known or called.	0..1	participant/associatedEntity/scopingOrganization/ name		
n/a	n/a	1..1	participant/associatedEntity/scopingOrganization/ asOrganizationPartOf/id participant/associatedEntity/scopingOrganization/ asOrganizationPartOf/id/@nullFlavor='NA'		Required CDA element.
Nominated Primary Healthcare Provider>Participant>Organisation>Organisation Name Detail> Organisation Name Usage Detail	Enables differentiation between recorded names and the periods of time for which those names were applicable.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Nominated Primary Healthcare Provider>Participant>Organisation>Organisation Name Usage Detail> Name Usage	The classification that enables differentiation between recorded names for a person or an organisation/service location.	1..1	participant/associatedEntity/scopingOrganization/ asOrganizationPartOf/wholeOrganization/name/@use		Space separated list of codes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Nominated Primary Healthcare Provider>Participant>Organisation>Organisation Name Detail>Organisation Name Usage Detail> Name Usage Date Range	Indicates the beginning and end of the period during which a person or an organisation/service location is known by a particular name.	0..1	participant/associatedEntity/scopingOrganization/asOrganizationPartOf/wholeOrganization/name/ validTime		See <time> for available attributes.

Example

XML Fragment
<pre> <!--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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0" xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema"> ... <!-- Begin CDA Header --> ... <!-- Begin Nominated primary healthcare provider (organisation) --> <participant typeCode="PART"> <functionCode code="PCP" /> <time> <low value="20080801" /> </time> <associatedEntity classCode="PROV"> <code code="408443003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="General medical practice" /> <addr use="WP"> <streetAddressLine>55 GP Street</streetAddressLine> <city>Nehtaville</city> <state>QLD</state> <postalCode>5555</postalCode> <additionalLocator>32568931</additionalLocator> </addr> <telecom value="tel:0788888888" use="WP" /> <scopingOrganization> <name>GP Practice</name> <ext:asEntityIdentifier classCode="IDENT"> <ext:id root="1.2.36.12353789" assigningAuthorityName="Australian Business Number (ABN)" /> <ext:assigningScopingEntity classCode="IDENT"> <ext:code code="N" codeSystem="2.16.840.1.113883.13.63" codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area" displayName="National Identifier" /> </ext:assigningScopingEntity> </ext:asEntityIdentifier> </scopingOrganization> </participant> </pre>

XML Fragment

```
        </scopingOrganization>
    </associatedEntity>
</participant>
<!-- End Nominated primary healthcare provider (organisation) -->

...

<!-- End CDA Header -->

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

        ...

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


7.4.2 ADVERSE REACTIONS

Identification

Name	ADVERSE REACTIONS
Metadata Type	Data Group
Identifier	DG-15536

Relationships

Parent

Type	Name	Obligation	Occurrence
	HEALTH PROFILE	Essential	1..1

CDA Model

Figure 27 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The ADVERSE REACTIONS data group is related to its context (Health Profile section) by a component relationship to a new section. This section has a related entry observation for Known Adverse Reactions. Also related to the section by an entry is another Observation which describes each ADVERSE REACTION data group. This Observation has a related participant which represents the Agent Description. It also has a related inverted manifestation Observation to describe the Reaction Detail.

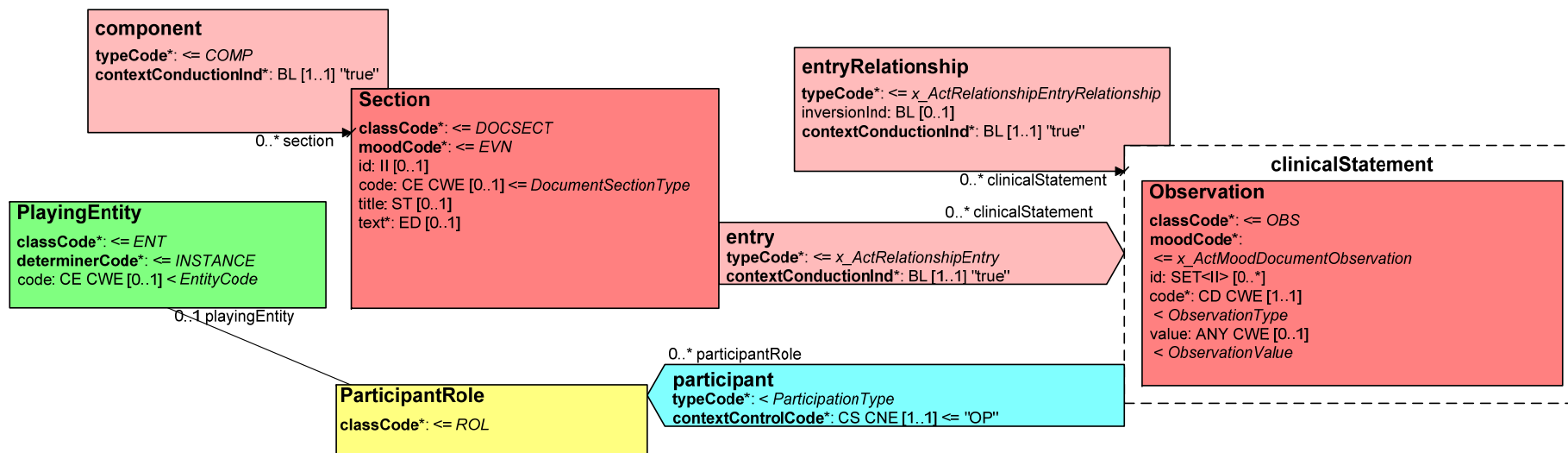


Figure 27: CDA Model for Adverse Reactions

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section(Health Profile)		
Adverse Reactions	Describes the known adverse reactions for the patient (including allergies and intolerances), and any relevant reaction details.	1..1	component/section/code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Adverse Reactions'		
			component/section/ text		
CDA Body Level 3 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section(Health Profile)		
Adverse Reactions>Known Adverse Reactions Value (Known Adverse Reactions)	Indicates the status of knowledge about the patient's Adverse Reactions.	1..1	component/section/ entry[knwn_adv]		
			component/section/entry[knwn_adv]/ @typeCode='DRIV'		
			component/section/entry[knwn_adv]/ observation		
			component/section/entry[knwn_adv]/observation/ @classCode='OBS'		
			component/section/entry[knwn_adv]/observation/ @moodCode='EVN'		
			component/section/entry[knwn_adv]/observation/ code		
			component/section/entry[knwn_adv]/observation/code/ @code='ASSERTION'		
			component/section/entry[knwn_adv]/observation/code/ @codeSystem='2.16.840.1.113883.5.4'		
			component/section/entry[knwn_adv]/observation/code/ @displayName='Assertion'		
			component/section/entry[knwn_adv]/observation/ value:CD	Known, None Known, Asked But Not Known, Not Asked Use nullFlavor='NAASK' for 'Not Asked', nullFlavor='UNK' for 'Asked But Not Known' NS for other values	
		component/section/entry[knwn_adv]/observation/ id	UUID	See <id> for available attributes.	
Adverse Reactions>Adverse Reaction	Describes a harmful or undesirable response to an agent/substance. An adverse reaction may occur within a	0..*	component/section/ entry[adv_reac]		
			component/section/entry[adv_reac]/ @typeCode='DRIV'		
			component/section/entry[adv_reac]/ observation		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
	variable timeframe after exposure to an agent/substance and may range from minor reactions like a skin rash to serious and life-threatening events such as anaphylaxis. Exposure may be by ingestion, inhalation, injection or direct contact. An adverse reaction includes allergies, intolerances and sensitivities but excludes poisoning, medical errors or mishaps that may occur during surgical or medical care, as these are generally classified as an adverse event.		component/section/entry[adv_reac]/observation/@classCode='OBS' component/section/entry[adv_reac]/observation/@moodCode='EVN' component/section/entry[adv_reac]/observation/id	UUID	See <id> for available attributes.
Adverse Reactions>Adverse Reaction> Adverse Reaction Presence	An indication that the subject of care has or has not experienced an adverse reaction to an agent/substance.	1..1	component/section/entry[adv_reac]/observation/code	Present, Absent, Nil known NS	
Adverse Reactions>Adverse Reaction> Agent Description	The agent/substance causing the adverse reaction experienced by the patient.	1..1	component/section/entry[adv_reac]/observation/participant component/section/entry[adv_reac]/observation/participant/@typeCode='CA GNT' component/section/entry[adv_reac]/observation/participant/participantRole/playingEntity/code	NS	See <code> for available attributes.
Health Profile>Adverse Reactions>Adverse Reaction> Reaction Detail	Describes one or more reactions (harmful or undesirable responses) to an agent.	0..*	component/section/entry[adv_reac]/observation/entryRelationship component/section/entry[adv_reac]/observation/entryRelationship/@typeCode='MFST' component/section/entry[adv_reac]/observation/entryRelationship/@inversionInd='true' component/section/entry[adv_reac]/observation/entryRelationship/observation component/section/entry[adv_reac]/observation/entryRelationship/observation/@classCode='OBS' component/section/entry[adv_reac]/observation/entryRelationship/observation/@moodCode='EVN'		
Adverse Reactions>Adverse Reaction>Reaction Detail> Reaction Description	The signs and/or symptoms experienced or exhibited by the patient as a consequence of the adverse reaction to the specific agent/substance. The severity of the reaction and certainty may be included in this description, where appropriate.	1..1	component/section/entry[adv_reac]/observation/entryRelationship/observation/code	NEHTA SCT-AU Reaction Description Reference Set	See <code> for available attributes.
			component/section/entry[adv_reac]/observation/entryRelationship/observation/id	UUID	See <id> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Adverse Reactions>Adverse Reaction> Attachment	A single document that has been attached to the adverse reaction observation, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry[adv_reac]/observation/<Attachment>		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:hl7-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:hl7-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

...

```
<!-- Begin CDA Body -->
```

```
<component>
  <structuredBody>
```

...

```
<!-- Begin Health Profile section -->
```

```
<component>
  <section>
    <code code="101.16011.4.1.1" codeSystem="1.2.36.1.2001.1001"
      displayName="Health Profile" codeSystemName="NCTIS DATA COMPONENTS" />
    <title>Health Profile</title>
```

...

```
<!-- Begin Adverse Reactions section -->
```

```
<component>
  <section>
    <code code="102.15536.4.1.1" codeSystem="1.2.36.1.2001.1001"
      displayName="Adverse Reactions" codeSystemName="NCTIS DATA COMPONENTS" />
```

```
<!-- Begin Adverse Reactions Narrative -->
```

```
<title>Adverse reactions</title>
```

```

<text>
  <table>
    <thead>
      <tr>
        <th>Known Adverse Reactions</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <th>1.0 - Adverse Reaction</th>
      </tr>
      <tr>
        <th>Presence</th>
        <td>present</td>
      </tr>
      <tr>
        <th>Agent Description</th>
        <td>fish</td>
      </tr>
      <tr>
        <th>1.1 - Adverse Reaction Details</th>
      </tr>
      <tr>
        <th>Reaction Description</th>
        <td>skin rash</td>
      </tr>
      <tr>
        <th>Reaction Onset</th>
        <td>20081007</td>
      </tr>
      <tr>
        <th>Reaction Description</th>
        <td>itchy</td>
      </tr>
    </tbody>
    <tbody>
      <tr>
        <th>2.0 - Adverse Reaction</th>
      </tr>
      <tr>
        <th>Presence</th>
        <td>present</td>
      </tr>
      <tr>
        <th>Agent Description</th>
        <td>penicillin</td>
      </tr>
      <tr>
        <th>2.1 - Adverse Reaction Details</th>
      </tr>
      <tr>
        <th>Reaction Description</th>
        <td>urticaria</td>
      </tr>
    </tbody>
  </table>

```

```

                <th>Reaction Description</th>
                <td>Nausea and vomiting</td>
            </tr>
        </tbody>
    </table>
</text>
<!-- End Adverse Reactions Narrative -->

<!-- CDA Entries for Adverse Reactions -->
<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" displayName="Assertion" />
        <value xsi:type="CD" code="36692007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="Known" />
    </observation>
</entry>

<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <code code="52101004" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="present" />
        <participant typeCode="CAGNT">
            <participantRole classCode="ROL">
                <playingEntity classCode="ENT" determinerCode="INSTANCE">
                    <code code="90580008" codeSystem="2.16.840.1.113883.6.96"
                        codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="fish" />
                </playingEntity>
            </participantRole>
        </participant>
        <entryRelationship typeCode="MFST" inversionInd="true">
            <observation classCode="OBS" moodCode="EVN">
                <code code="271807003" codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="skin rash" />
            </observation>
        </entryRelationship>
        <entryRelationship typeCode="MFST" inversionInd="true">
            <observation classCode="OBS" moodCode="EVN">
                <code code="418290006" codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="itchy" />
            </observation>
        </entryRelationship>
    </observation>
</entry>

<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <code code="52101004" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="present" />
        <participant typeCode="CAGNT">
            <participantRole classCode="ROL">
                <playingEntity classCode="ENT" determinerCode="INSTANCE">
                    <code code="6369005" codeSystem="2.16.840.1.113883.6.96"
                        codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="penicillin" />
                </playingEntity>
            </participantRole>
        </participant>
    </observation>
</entry>

```

```
        </participant>
        <entryRelationship typeCode="MFST" inversionInd="true">
          <observation classCode="OBS" moodCode="EVN">
            <code code="64305001" codeSystem="2.16.840.1.113883.6.96"
              codeSystemName="SNOMED-CT" codeSystemVersion="20090731" displayName="urticaria" />
          </observation>
        </entryRelationship>
        <entryRelationship typeCode="MFST" inversionInd="true">
          <observation classCode="OBS" moodCode="EVN">
            <code>
              <originalText>Nausea and vomiting</originalText>
            </code>
          </observation>
        </entryRelationship>
      </observation>
    </entry>
    <!-- CDA Entries for Adverse Reactions -->
  </section>
</component>
<!-- End Adverse Reactions section -->

...

  </section>
</component>

  <!-- End Health Profile section -->
</structuredBody>
</component>

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


7.4.3 ALERTS

Identification

Name	ALERTS
Metadata Type	Section
Identifier	S-20121

Relationships

Parent

Type	Name	Obligation	Occurrence
	HEALTH PROFILE	Optional	0..1

CDA Model

Figure 28 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The Alerts section is related to its context (Health Profile section) by a component relationship to a new section. This section has a related entry observation for each ALERT data group.

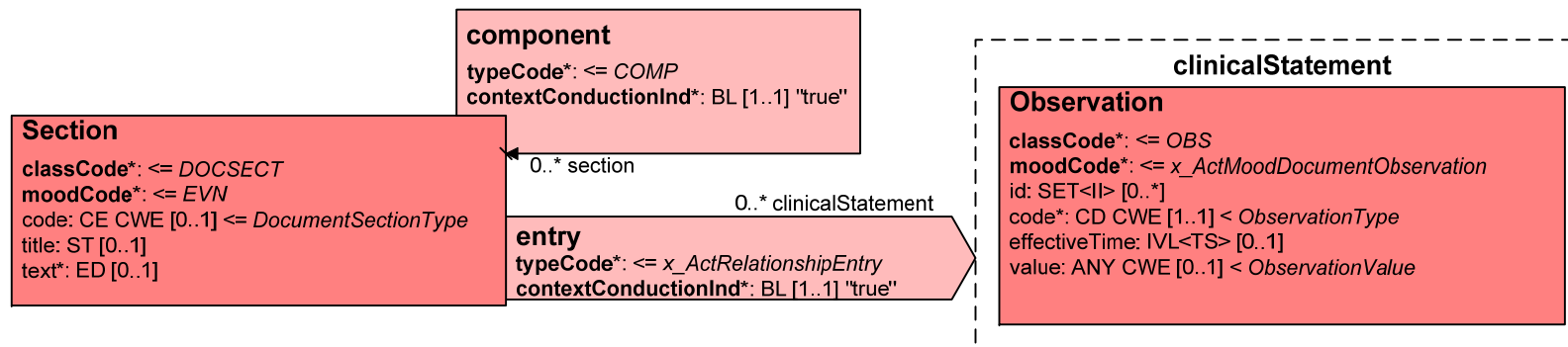


Figure 28: CDA Model for Alerts

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section[Health Profile]		
Alerts	Describes alerts pertaining to the patient that may require special consideration or action by the recipients.	0..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Alerts'		
			component/section/ text		
CDA Body Level 3 Data Elements					
			Context: ClinicalDocument/component/structuredBody/component/section[Health Profile]		
Alerts> Alert	Describes information pertaining to a patient that may: <ul style="list-style-type: none"> Need special consideration by a healthcare provider before making a decision about his/her actions to avert an unfavourable healthcare event; Need consideration and/or action by a healthcare provider or facility in relation to the care and safety of the patient, staff and/or other individuals; or Notify the healthcare provider of special circumstances that may be relevant in delivering care and/or interacting with the patient. 	1..*	component/section/ entry		
			component/section/entry/ @typeCode='DRIV'		
			component/section/entry/ observation		
			component/section/entry/observation/ @classCode='OBS'		
			component/section/entry/observation/ @moodCode='EVN'		
			component/section/entry/observation/ id	UUID	See <id> for available attributes.
Alerts>Alert> Alert Type	The type of alert (e.g. infection risk, special needs, clinical, discharge circumstances, vulnerable families, psychosocial alerts etc).	1..1	component/section/entry/observation/ code	NS	See <code> for available attributes.
Alerts>Alert> Alert Description	Describes of the nature of the alert.	1..1	component/section/entry/observation/ value	NS	
Alerts>Alert> Attachment	A single document that has been attached to the alert observation, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry/observation/<Attachment>		See Common Pattern: Attachment.

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

...

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

...

```
  <!-- Begin Health Profile section -->
```

```
  <component>
```

```
    <section>
```

```
      <code code="101.16011.4.1.1" codeSystem="1.2.36.1.2001.1001"
```

```
        displayName="Health Profile" codeSystemName="NCTIS DATA COMPONENTS" />
```

```
      <title>Health Profile</title>
```

...

```
  <!-- Begin Alerts section -->
```

```
  <component>
```

```
    <section>
```

```
      <code code="101.20121.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Alerts"
        codeSystemName="NCTIS DATA COMPONENTS" />
```

```
      <!-- Begin Alerts Narrative -->
```

```
      <title>Alerts</title>
```

```
      <text>
```

```
        <table>
```

```
          <thead>
```

```
            <tr>
```

```
              <th>Alerts</th>
```

```
            </tr>
```

```
          </thead>
```

```
          <tbody>
```

```
            <tr>
```

XML Fragment

```

                <th>Alert Type</th>
                <td>Medical</td>
            </tr>
            <tr>
                <th>Alert Description</th>
                <td>At risk for infection</td>
            </tr>
        </tbody>
    </table>
</text>
<!-- End Alerts Narrative -->

<!-- CDA Entries for Alerts -->
<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <id root="98214104-D1D6-11DE-8E14-FE6B56D89593" />
        <code code="74188005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"
            displayName="Medical" />
        <value xsi:type="CD" code="78648007" codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED-CT" displayName="At risk for infection" />
    </observation>
</entry>
<!-- CDA Entries for Alerts -->
</section>
</component>
<!-- End Alerts section -->

...

</section>
</component>

<!-- End Health Profile section -->
</structuredBody>
</component>

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

```



7.5 PLAN

Identification


Name	PLAN
Metadata Type	Section
Identifier	S-16020

Relationships

Children Not Included in Mapping for This Section

Type	Name	Obligation	Occurrence
	ARRANGED SERVICES	Optional	0..1
	RECOMMENDATIONS AND INFORMATION PROVIDED	Optional	1..1

Parent

Type	Name	Obligation	Occurrence
	DISCHARGE SUMMARY	Optional	1..1

CDA Model

Figure 29 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

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

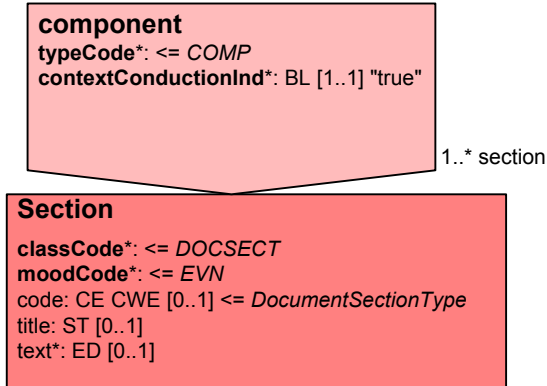


Figure 29: CDA Model for Plan

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements					
Context: <code>ClinicalDocument/component/structuredBody</code>					
Plan	Describes the services requested for the patient and the recommendations to the recipient healthcare providers and/or the patient.	1..1	<code>component/section/code</code>	NCTIS: Admin Codes	See <code><code></code> for available attributes.
			<code>component/section/title='Plan'</code>		
			<code>component/section/text</code>		

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

...

```
    <!-- Begin Plan Section -->
```

```
    <component>
```

```
      <section>
```

```
        <code code="101.16020.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Plan"
          codeSystemName="NCTIS DATA COMPONENTS" />
```

```
        <title>Plan</title>
```

...

```
      </section>
```

```
    </component>
```

```
    <!-- End Plan Section -->
```

...

```
  </structuredBody>
```

```
</component>
```

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

```
</ClinicalDocument>
```


7.5.1 ARRANGED SERVICES

Identification

Name	ARRANGED SERVICES
Metadata Type	Section
Identifier	S-16021

Relationships

Parent

Type	Name	Obligation	Occurrence
	PLAN	Optional	0..1

CDA Model

Figure 30 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The Arranged Services section is related to its context (Plan section) by a component relationship to a new section. This section has a related entry Act for each ARRANGED SERVICE data group and the SERVICE PROVIDER data group is represented by the performer participation.

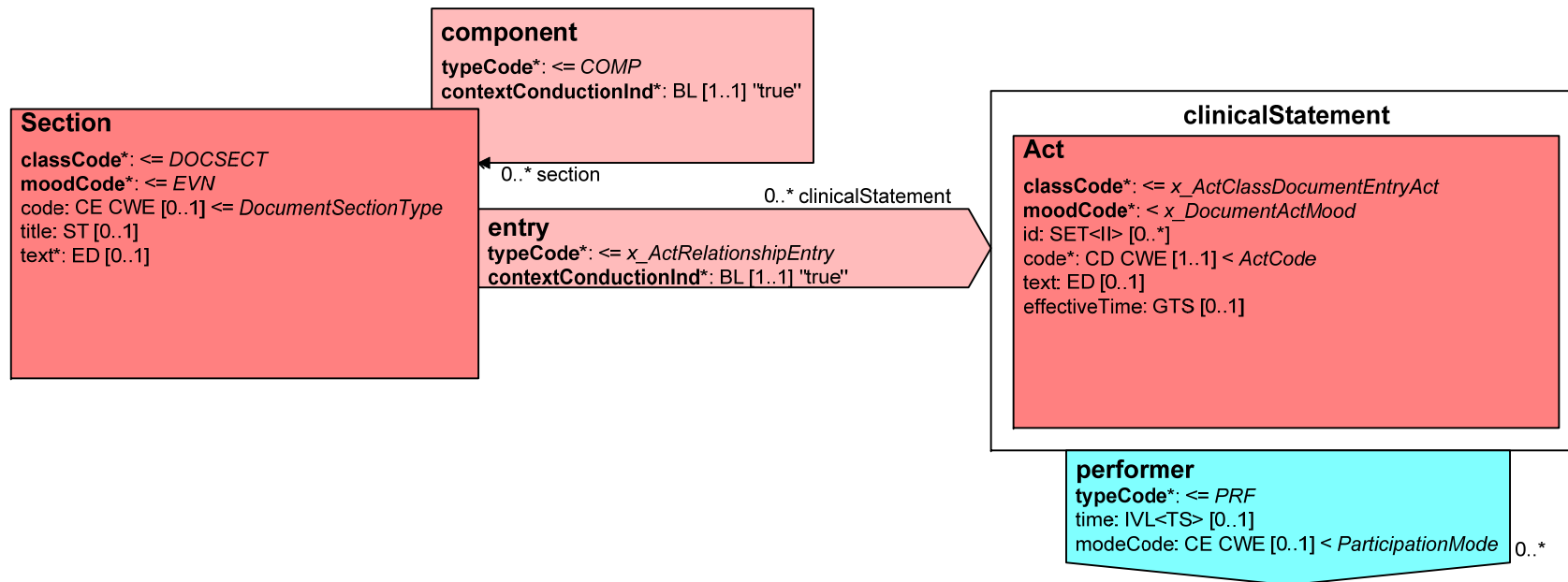


Figure 30: CDA Model for Arranged Services

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements		Context: ClinicalDocument/component/structuredBody/component/section[Plan]			
Arranged Services	Describes clinical services that have been provided for or arranged for the patient.	0..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Arranged Services'		
			component/section/ text		
CDA Body Level 3 Data Elements		Context: ClinicalDocument/component/structuredBody/component/section[Plan]			
Arranged Services> Arranged Service (Requested Service)	Describes the types of service requested for, or provided to, the subject of care. If the service provision has not been confirmed then, the service date and/or provider may not be recorded.	1..*	component/section/ entry		
			component/section// @typeCode='DRIV'		
			component/section/entry/ act		
			component/section/entry/act/ @classCode='ACT'		
			component/section/entry/act/ id	UUID	See <id> for available attributes.
Arranged Services>Arranged Service> Arranged Service Description	Describes the service arranged for, or provided to the patient.	1..1	component/section/entry/act/ code	NS	See <code> for available attributes.
Arranged Services>Arranged Service> Service Commencement Window	The datetime or date range at/during which the arranged service is scheduled to be provided to the patient.	0..1	component/section/entry/act/ effectiveTime		See <time> for available attributes.
Arranged Services>Arranged Service> Service Booking Status	An indication of the booking status of the arranged service.	1..1	component/section/entry/act/ moodCode		
Arranged Services>Arranged Service> Service Provider (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) OR PARTICIPATION BY ORGANISATION)	The provider (individual or organisation) that has been arranged to provide the service.	1..1	component/section/entry/act/ performer		Service Provider can be either a Person OR an Organisation.
			component/section/entry/act/performer/ @typeCode='PRF'		
			component/section/entry/act/performer/ <AssignedEntity.AssignedPerson> OR component/section/entry/act/performer/ <AssignedEntity.RepresentedOrganization>		See Common Pattern: AssignedEntity.AssignedPerson OR AssignedEntity.RepresentedOrganization .

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Arranged Services>Arranged Service> Attachment	A single document that has been attached to the arranged service act, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry/act/<Attachment>		See Common Pattern: Attachment .

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

...

```
<!-- Begin CDA Header -->
```

...

```
<!-- End CDA Header -->
```

```
<!-- Begin CDA Body -->
```

```
<component>
```

```
  <structuredBody>
```

...

```
  <!-- Begin Plan Section -->
```

```
  <component>
```

```
    <section>
```

```
      <code code="101.16020.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Plan"
```

```
        codeSystemName="NCTIS DATA COMPONENTS" />
```

```
      <title>Plan</title>
```

...

```
  <!-- Begin Arranged Services Section -->
```

```
  <component>
```

```
    <section>
```

```
      <code code="102.20158.4.1.1" codeSystem="1.2.36.1.2001.1001"
```

```
        displayName="Arranged Services" codeSystemName="NCTIS DATA COMPONENTS" />
```

```
      <component>
```

```
        <section>
```

```
          <title>Arranged Services</title>
```

```
          <text>
```

```
            <table>
```

```
              <thead>
```

```
                <tr>
```

```
                  <th>Arranged Services</th>
```

XML Fragment

```

    </tr>
  </thead>
  <tbody>
    <tr>
      <th>Arranged Service Description</th>
      <td>Orthopaedic outpatient clinic appointment</td>
    </tr>
    <tr>
      <th>Service Commencement Window (Appointment Time)</th>
      <td>1st December 2009 13:15</td>
    </tr>
    <tr>
      <th>Booking Status</th>
      <td>Appointment</td>
    </tr>
  </tbody>
</table>
<paragraph />
<paragraph>
  <content styleCode="Bold">Service Provider</content>
</paragraph>
<paragraph><content styleCode="Italics"
  >Orthopaedic Surgeon: </content>Dr. Bone Doctor</paragraph>
<paragraph><content styleCode="Italics"
  >Doctor Number: </content>486B3B30-BCA8-11DE-90DB-FDCD55D89593: ANOTHER_EXTENSION (National Identifier: Doctor
Number Assigning Body)</paragraph>
<paragraph>
  <content styleCode="Italics">Work Address: </content>
</paragraph>
<paragraph>Orthopaedic Clinic</paragraph>
<paragraph>67 Orthopaedic Crescent</paragraph>
<paragraph>Nehtaville</paragraph>
<paragraph>Queensland</paragraph>
<paragraph>5555</paragraph>
<paragraph />
<paragraph>Email Address: os@hospital.com.au</paragraph>
<paragraph>Field of Practice Description: Orthopaedic Surgeon</paragraph>
<paragraph>Field of Practice Date Range: 16 August 1997</paragraph>
<paragraph></paragraph>
</text>
<entry typeCode="DRIV">
  <act classCode="ACT" moodCode="APT">
    <id root="3F5BAA62-D1DD-11DE-9F84-81A056D89593" />
    <code>
      <originalText>Orthopaedic outpatient clinic appointment</originalText>
    </code>
    <effectiveTime>
      <low value="200912011315" />
    </effectiveTime>
    <performer>
      <assignedEntity>
        <id nullFlavor="NA" />
        <code code="253514" codeSystem="2.16.840.1.113883.13.62"
          codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First

```

XML Fragment

Edition, Revision 1"

```

        displayName="Orthopaedic Surgeon" />
    <addr use="WP">
        <streetAddressLine>67 Orthopaedic Crescent</streetAddressLine>
        <city>Nehtaville</city>
        <state>QLD</state>
        <postalCode>5555</postalCode>
        <additionalLocator>32568931</additionalLocator>
    </addr>
    <telecom value="mailto:os@hospital.com.au" />
    <assignedPerson>
        <name use="L">
            <prefix>Dr</prefix>
            <given>Bone</given>
            <family>Doctor</family>
        </name>
        <ext:asEntityIdentifier classCode="IDENT">
            <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD65D89593"
                extension="ANOTHER_EXTENSION" assigningAuthorityName="Doctor Number" />
            <ext:assigningScopingEntity classCode="IDENT">
                <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                    codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                    displayName="National Identifier" />
            </ext:assigningScopingEntity>
        </ext:asEntityIdentifier>
        <ext:asFieldOfPractice classCode="QUAL">
            <ext:code code="253514" codeSystem="2.16.840.1.113883.13.62"
                codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations,

```

First Edition, Revision 1"

```

        displayName="Orthopaedic Surgeon" />
        <ext:effectiveTime>
            <low value="19970816" />
        </ext:effectiveTime>
    </ext:asFieldOfPractice>
</assignedPerson>
<representedOrganization>
    <name>Orthopaedic Clinic</name>
    <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.144333333"
            assigningAuthorityName="Australian Business Number (ABN)" />
        <ext:assigningScopingEntity classCode="IDENT">
            <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
                codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
                displayName="National Identifier" />
        </ext:assigningScopingEntity>
    </ext:asEntityIdentifier>
</representedOrganization>
</assignedEntity>
</performer>
</act>

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

```

XML Fragment

```
        </section>
      </component>
      <!-- End Arranged Services Section -->
      ...

    </section>
  </component>
  <!-- End Plan Section -->
  ...

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


7.5.2 RECOMMENDATIONS AND INFORMATION PROVIDED

Identification

Name	RECOMMENDATIONS AND INFORMATION PROVIDED
Metadata Type	Section
Identifier	S-20016

Relationships

Parent

Type	Name	Obligation	Occurrence
	PLAN	Essential	1..1

CDA Model

Figure 31 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. This data component maps to CDA Body elements.

The Recommendations and Information Provided section is related to its context (Plan section) by a component relationship to a new section. This section has a related entry Act for the INFORMATION PROVIDED data group and another related entry Act for each instance of the RECOMMENDATIONS PROVIDED data group. The RECOMMENDATION RECIPIENT data group is represented by the performer participation.

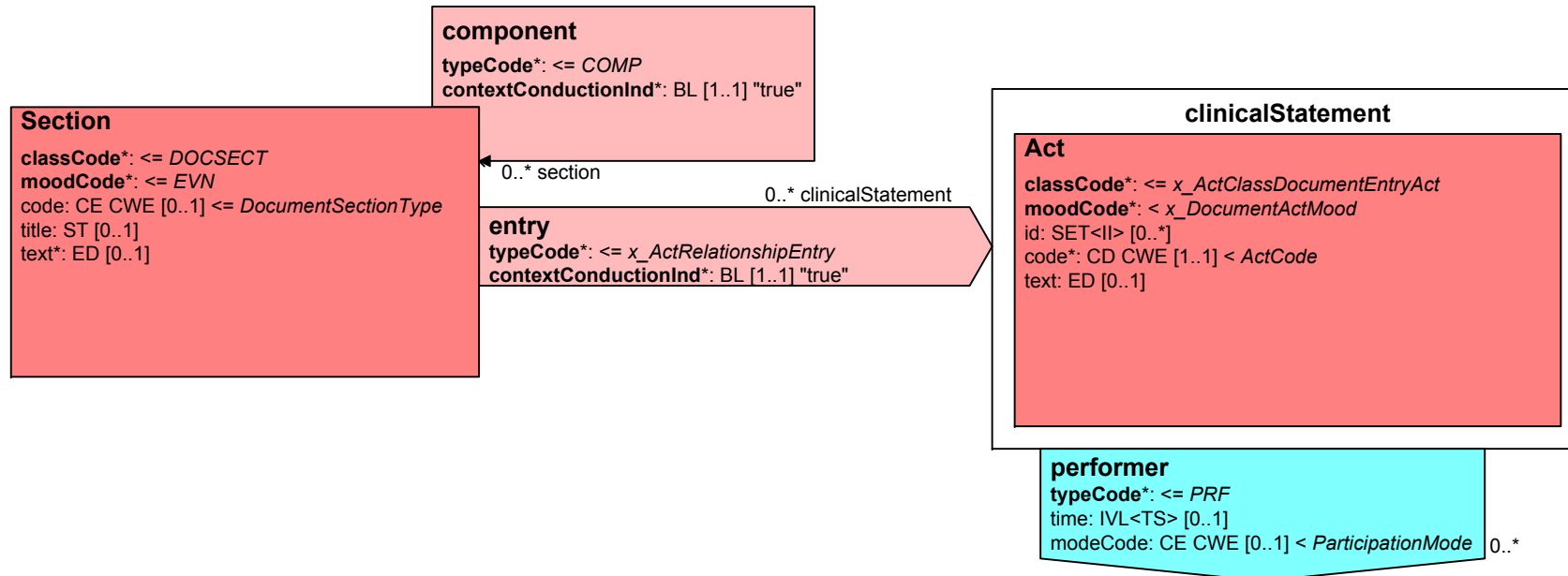


Figure 31: CDA Model for Recommendations and Information Provided

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Body Level 2 Data Elements		Context: ClinicalDocument/component/structuredBody/component/section[Plan]			
Recommendations and Information Provided	Recommendations and information provided to a patient and/or recipient healthcare provider, which are relevant to the continuity of care and management of the patient after discharge.	1..1	component/section/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/ title='Arranged Services'		
			component/section/ text		
CDA Body Level 3 Data Elements		Context: ClinicalDocument/component/structuredBody/component/section[Plan]			
Recommendations and Information Provided>Information Provided (Supplementary Information)	Information that has or has not been provided, including information provided to the subject of care and/or relevant parties.	0..1	component/section/ entry[inf_prov]		
			component/section/ entry[inf_prov]/@typeCode='DRIV'		
			component/section/entry[inf_prov]/ act		
			component/section/entry[inf_prov]/act/ @classCode='INFRM'		
			component/section/entry[inf_prov]/act/ moodCode='EVN'		
			component/section/entry[inf_prov]/act/ code	NCTIS: Admin Codes	See <code> for available attributes.
			component/section/entry[inf_prov]/act/ id	UUID	See <id> for available attributes.
Recommendations and Information Provided>Information Provided>Information Provided to Subject of Care and/or Relevant Parties	Details of the information and education that has been provided to and discussed with the patient, their family, carer and/or other relevant parties, including awareness or lack of awareness of diagnosed conditions, and relevant health management. An indication of whether or not the patient or carer has understood the information or instructions provided may also be relevant.	0..1	component/section/entry[inf_prov]/act/ text		
Recommendations and Information Provided>Information Provided>Attachment	A single document that has been attached to the information provided act, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry[inf_prov]/act/ <Attachment>		See Common Pattern: Attachment .
Recommendations and Information Provided>Recommendations Provided (Supplementary Information)	Recommendations to a recipient healthcare provider and/or patient which are relevant to the continuity of care and management of the patient after discharge.	1..*	component/section/ entry[rec_prov]		
			component/section/entry[rec_prov]/ @typeCode='DRIV'		
			component/section/entry[rec_prov]/ act		
			component/section/entry[rec_prov]/act/ @classCode='INFRM'		
			component/section/entry[rec_prov]/act/ @moodCode='PRP'		
			component/section/entry[rec_prov]/act/ code	NCTIS: Admin Codes	See <code> for available attributes.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
			component/section/entry[rec_prov]/act/ id	UUID	See <id> for available attributes.
Recommendations and Information Provided>Recommendations Provided> Recommendation Note	Details of the recommendation given to the recipient.	1..1	component/section/entry[rec_prov]/act/ text		
Recommendations and Information Provided> Recommendation Recipient (PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) OR PARTICIPATION BY ORGANISATION)	The individual or organisation to whom the recommendation is directed.	1..1	component/section/entry[rec_prov]/act/ performer		Recommendation Recipient can be either a Person OR an Organisation.
			component/section/entry[rec_prov]/act/performer/@typeCode='PRF'		
			component/section/entry[rec_prov]/act/performer/<AssignedEntity.AssignedPerson> OR component/section/entry[rec_prov]/act/performer/<AssignedEntity.RepresentedOrganization>		See Common Pattern: AssignedEntity.AssignedPerson OR AssignedEntity.RepresentedOrganization.
Recommendations and Information Provided>Recommendations Provided> Attachment	A single document that has been attached to the recommendations provided act, because it is relevant to the ongoing care of the patient.	0..*	component/section/entry[rec_prov]/act/<Attachment>		See Common Pattern: Attachment.

Example

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:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
  xsi:schemaLocation="urn:h17-org:v3 CDA-eDS-V1_0.xsd" xmlns="urn:h17-org:v3" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  ...

  <!-- Begin CDA Header -->

  ...

  <!-- End CDA Header -->

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

    ...

    <!-- Begin Plan Section -->
    <component>
      <section>
        <code code="101.16020.4.1.1" codeSystem="1.2.36.1.2001.1001" displayName="Plan"
          codeSystemName="NCTIS DATA COMPONENTS" />
        <title>Plan</title>

        ...

        <!-- Begin Recommendations and Information Provided Section -->
        <component>
          <section>
            <code code="101.20116.4.1.1" codeSystem="1.2.36.1.2001.1001"
              displayName="Recommendations and Information Provided" codeSystemName="NCTIS DATA COMPONENTS" />
            <component>
              <section>
                <title>Recommendations and Information Provided</title>
                <text>
                  <table>
                    <thead>
                      <tr>
                        <th>Information Provided</th>
                      </tr>
                    </thead>
                    <tbody>
                      <tr>
                        <th>Information Provided to Subject of care and/or relevant parties</th>
                        <td>The patient was advised to keep up a regular mobility routine as guided by the community physiotherapist.
                          Return to GP day 10–14 post-op to have the staples removed.</td>
                      </tr>
                      <tr>

```

XML Fragment

```

                <th>Recommendations Provided</th>
            </tr>
            <tr>
                <th>Recommendation Note</th>
                <td>Please arrange a follow up appointment with a community physiotherapist in one week to ensure that post-
surgical mobility outcomes are being met.</td>
            </tr>
        </tbody>
    </table>
    <paragraph />
    <paragraph>
        <content styleCode="Bold">Recommendation Recipient</content>
    </paragraph>
    <paragraph><content styleCode="Italics"
    >Physiotherapist: </content>Physical Therapist</paragraph>
    <paragraph><content styleCode="Italics"
    >Physiotherapist Number: </content>486B3B30-BCA8-11DE-90DB-FDCD55D89593: PHYSIO_EXTENSION (National Identifier:
Doctor Number Assigning Body)</paragraph>
    <paragraph>
        <content styleCode="Italics">Work Address: </content>
    </paragraph>
    <paragraph>Physio Clinic: Australian Business Number (ABN): 1.2.36.144333123</paragraph>
    <paragraph>67 Physiotherapy Crescent</paragraph>
    <paragraph>Nehtaville</paragraph>
    <paragraph>Queensland</paragraph>
    <paragraph>5555</paragraph>
    <paragraph />
    <paragraph>Email Address: ps@hospital.com.au</paragraph>
    <paragraph>Field of Practice Description: Physiotherapist</paragraph>
    <paragraph>Field of Practice Date Range: 16 August 1975</paragraph>
    <paragraph></paragraph>
</text>
<!-- Begin Information Provided -->
<entry typeCode="DRIV">
    <act classCode="INFRM" moodCode="EVN">
        <id root="12AC380C-D1E1-11DE-B505-09BE56D89593" />
        <code code="102.20116.4.1.1" codeSystem="1.2.36.1.2001.1001"
            displayName="Information Provided" codeSystemName="NCTIS DATA COMPONENTS" />
        <text>The patient was advised to keep up a regular mobility routine as guided by the community physiotherapist.
Return to GP day 10–14 post-op to have the staples removed.</text>
    </act>
</entry>
<!-- End Information Provided -->

<!-- Begin Recommendations Provided -->
<entry typeCode="DRIV">
    <act classCode="INFRM" moodCode="PRP">
        <id root="F90503FA-D1E2-11DE-8CC1-74CD56D89593" />
        <code code="102.20116.4.1.2" codeSystem="1.2.36.1.2001.1001"
            displayName="Recommendations Provided" codeSystemName="NCTIS DATA COMPONENTS" />
        <text>Please arrange a follow up appointment with a community physiotherapist in one week to ensure that post-
surgical mobility outcomes are being met.</text>
        <performer>
            <assignedEntity>

```

XML Fragment

```

<id nullFlavor="NA" />
<code code="252511" codeSystem="2.16.840.1.113883.13.62"
  codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First
Edition, Revision 1"
  displayName="Physiotherapist" />
<addr use="WP">
  <streetAddressLine>67 Physiotherapy Crescent</streetAddressLine>
  <city>Nehtaville</city>
  <state>QLD</state>
  <postalCode>5555</postalCode>
  <additionalLocator>32568931</additionalLocator>
</addr>
<telecom value="mailto:ps@hospital.com.au" />
<assignedPerson>
  <name use="L">
    <given>Physical</given>
    <family>Therapist</family>
  </name>
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="486B3B30-BCA8-11DE-90DB-FDCD65D89593"
      extension="PHYSIO_EXTENSION"
      assigningAuthorityName="Physiotherapist Number" />
    <ext:assigningScopingEntity classCode="IDENT">
      <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
        displayName="National Identifier" />
    </ext:assigningScopingEntity>
  </ext:asEntityIdentifier>
  <ext:asFieldOfPractice classCode="QUAL">
    <ext:code code="252511" codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations,
First Edition, Revision 1"
      displayName="Physiotherapist" />
    <ext:effectiveTime>
      <low value="19750816" />
    </ext:effectiveTime>
  </ext:asFieldOfPractice>
</assignedPerson>
<representedOrganization>
  <name>Physio Clinic</name>
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.144333123"
      assigningAuthorityName="Australian Business Number (ABN)" />
    <ext:assigningScopingEntity classCode="IDENT">
      <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"
        codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area"
        displayName="National Identifier" />
    </ext:assigningScopingEntity>
  </ext:asEntityIdentifier>
</representedOrganization>
</assignedEntity>
</performer>
</act>
</entry>

```

XML Fragment

```
        <!-- End Recommendations Provided -->
    </section>
</component>
</section>
</component>
<!-- End Recommendations and Information Provided Section -->
...
</section>
</component>
<!-- End Plan Section -->
...

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

8 Common Patterns

8.1 code

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

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

A *displayName* is highly recommended.

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

Where used, the *codeSystem* attribute MUST 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.org.

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

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

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

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

Example:

```
<code code="271807003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" codeSystemVersion="20090731"
  displayName="skin rash" />
```

8.2 id

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

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

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

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

In the case of [Entity Identifier](#), *assigningAuthorityName* is required, otherwise it is optional.

All ClinicalStatement acts must have an id element.

Examples:

```
<id root="2.16.840.1.113883.19" extension="123A45" />
```

```
<ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />
```

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.

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:

```
<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" datatype, 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 either a *high*, *low*, or *center* element with a *width* element.

Example:

```
<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" datatype, it is useful to provide an *xsi:type* attribute, set to the value "IVL_TS", as in the next example.

Example:

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

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

Example:

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

This represents "the calendar years between 2007 and 2009". The *low* element MUST 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:

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

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

8.4 Entity Identifier

Conformance

For context, follow link to element in mapping table.

In using this data element, the attributes of the UniqueIdentifier data type should be populated from the identifiers as defined in [\[SA2006B\]](#) and [\[SA2006A\]](#) as follows:

- CONF 9** Attribute [@root](#) **MUST** be used, **MUST** be an OID and **MUST NOT** be a UUID.
- CONF 10** Attribute [@root](#) **MUST** be a globally unique object identifier (OID) that identifies the combination of geographic area, issuer and type. If no such OID exists, it **MUST** be defined before any identifiers can be created.
- CONF 11** Attribute [@extension](#) **MAY** be used and if it is used, **MUST** be a unique identifier within the scope of the root that is populated directly from the designation.
- CONF 12** Attribute [@assigningAuthorityName](#) **MAY** be used and if it is used, is a human readable name for the namespace represented in the root that is populated with the issuer, or identifier type, or a concatenation of both as appropriate. This **SHOULD NOT** be used for machine readability purposes.
- CONF 13** Element [ext:code](#) **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.

SDT to CDA Mapping

NEHTA SDT 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.	0..*	ext:asEntityIdentifier		See NEHTA CDA extension: EntityIdentifier .
			ext:asEntityIdentifier/@classCode='IDENT'		
			ext:asEntityIdentifier/ext:id		
			ext:asEntityIdentifier/ext:id/@root	See CONF 9 , CONF 10 .	
			ext:asEntityIdentifier/ext:id/@extension	See CONF 11 .	
			ext:asEntityIdentifier/ext:id/@assigningAuthorityName	See CONF 12 .	
			ext:asEntityIdentifier/ext:assigningScopingEntity		
ext:asEntityIdentifier/ext:assigningScopingEntity/ext:code	See CONF 13 . AS 5017-2006: Health Care Client Identifier Geographic Area	See code for available attributes.			

Example

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-->
```

```
<!-- person -->  
<ext:asEntityIdentifier classCode="IDENT">  
  <ext:id root="1.2.36.174030967.0.5" extension="1234567892" assigningAuthorityName="Australian Medicare number" />  
  <ext:assigningScopingEntity classCode="IDENT">  
    <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"  
      codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area" displayName="National Identifier" />  
  </ext:assigningScopingEntity>  
</ext:asEntityIdentifier>
```

```
<!-- organisation -->  
<ext:asEntityIdentifier classCode="IDENT">  
  <ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />  
  <ext:assigningScopingEntity classCode="IDENT">  
    <ext:code code="N" codeSystem="2.16.840.1.113883.13.63"  
      codeSystemName="AS 5017-2006 Health Care Client Identifier Geographic Area" displayName="National Identifier" />  
  </ext:assigningScopingEntity>  
</ext:asEntityIdentifier>
```

8.5 Person Name

SDT to CDA Mapping

NEHTA SDT 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.	1..*	name		
Person Name> Name Title	An honorific form of address commencing a name and the order of the honorific form of address.	0..*	name/ prefix		
Person Name> Family Name	The name a person has in common with other members of his/her family, as distinguished from her/his first given name.	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	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> Name Conditional Use Flag	An indicator of specific conditions that should be applied to a particular health care client name.	0..*	name/ @use	AS 5017-2006: Health Care Client Name Conditional Use Flag	Space separated list of codes.
Person Name> Name Usage Detail	Enables differentiation between recorded names and the periods of time for which those names were applicable.	0..*	n/a		This logical NEHTA data component has no mapping to CDA.
Person Name>Name Usage Detail> Name Usage	The classification that enables differentiation between recorded names for a person or an organisation/service location.	1..1	name/ @use	AS 5017-2006: Health Care Client Name Usage	Space separated list of codes.
Person Name>Name Usage Detail> Name Usage Date Range	Indicates the beginning and end of the period during which a person or an organisation/service location is known by a particular name.	0..1	name/ validTime name/validTime/ @xsi:type='IVL_TS'		See <time> for available attributes.

Example

XML Fragment

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

```
<!-- temporary name with usage date range-->  
<name use="T">  
  <prefix>Ms</prefix>  
  <given>Sally</given>  
  <family>Grant</family>  
  <validTime xsi:type='IVL_TS'>  
    <low value='01012001' />  
    <high value = '01012012' />  
  </validTime>  
</name>
```

8.6 Address

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Address	The description of a location where an entity (person or organisation) 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..*	addr		
Address> No Fixed Address Indicator	A flag to indicate whether the entity has no fixed address.	1..1	addr/@ nullFlavor	If true, nullFlavor='NA' If false omit nullFlavor and fill in address.	
Address> Australian or International Address	Represents a choice to be made at run-time between Australian Address and International Address.	1..1			This logical NEHTA data component has no mapping to CDA.
Address>Australian or International Address (Australian Address)	The description of an Australian location where an entity (person or organisation) is located or can be otherwise reached or found.	n/a			This logical NEHTA data component has no mapping to CDA.
Address>Australian or International Address (Australian Address)> Australian Address Line	A composite of one or more standard address components that describes a low level of geographical/physical description of a 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, forms a complete geographical/physical address.	0..*	addr/ streetAddressLine		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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	An 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 (PAF).	0..1	addr/ additionalLocator	Australia Post Postcode book. Reference through: http://www.auspost.com/postcodes/	
Address>Australian or International Address (International Address)	The description of a non-Australian location where an entity (person or organisation) is located or can be otherwise reached or found.	n/a	n/a		This logical NEHTA data component has no mapping to CDA.
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 postcode and country, forms a complete geographic/physical address.	0..*	addr/ streetAddressLine		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
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 numeric 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> Address Purpose Detail	This data group contains data elements which provide details on the relationship between the address and the entity to which it relates.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Address>Address Purpose Detail> Address Purpose	Indicates 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.
Address>Address Purpose Detail> Address Purpose Date Range	A date range that specifies the date on which the address purpose is first applicable and the date on which the address purpose is no longer applicable.	0..1	addr/ usablePeriod		See <time> for available attributes.
			addr/usablePeriod/ @xsi:type='TVL_TS'		

Example

XML Fragment

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

```
<!--Australian home address with usable period -->  
<addr use="H">  
  <streetAddressLine>1 Clinician Street</streetAddressLine>  
  <city>Nehtaville</city>  
  <state>QLD</state>  
  <postalCode>5555</postalCode>  
  <additionalLocator>32568931</additionalLocator>  
  <useablePeriod xsi:type="IVL_TS">  
    <low value="01012001" />  
    <high value="01012012" />  
  </useablePeriod>  
</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

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Electronic Communication Detail	The addresses used to communicate electronically with an entity.	0..*	telecom		
Electronic Communication Detail> Electronic Communication Medium	Indicates the type of electronic communication medium.	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.
			telecom/@ use	AS 5017-2006: Health Care Client Electronic Communication Usage Code -> HL7:TelecommunicationAddress Use	Space separated list of codes.
Electronic Communication Detail> Electronic Communication Usage Code	The manner of use that is applied to an electronic communication medium.	0..1	telecom/@ use	AS 5017-2006: Health Care Client Electronic Communication Usage Code -> HL7:TelecommunicationAddress Use	Space separated list of codes.
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		

Example

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

8.8 Healthcare Provider Field of Practice

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	ext:asFieldOfPractice		See NEHTA CDA extension: FieldOfPractice .
			ext:asFieldOfPractice/@classCode='QUAL'		
Healthcare Provider Field of Practice> Healthcare Provider Field of Practice Description	The description of the field of practice that an individual health care provider identifies as being their field of practice i.e. the skill or knowledge in a particular area practised by that provider.	1..1	ext:asFieldOfPractice/ ext:code	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899 [ABS2006]	See <code> for available attributes.
Healthcare Provider Field of Practice> Healthcare Provider Field of Practice Date Range	The date range which indicates the beginning and end of the period during which the health care provider practised in a field of practice.	0..1	ext:asFieldOfPractice/ ext:effectiveTime		See <time> for available attributes.

Example

XML Fragment
<pre><ext:asFieldOfPractice classCode="QUAL"> <ext:code code="253321" codeSystem="2.16.840.1.113883.13.62" codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1" displayName="Paediatrician" /> <ext:effectiveTime> <low value="20090101" /> </ext:effectiveTime> </ext:asFieldOfPractice></pre>

8.9 AssignedEntity.AssignedPerson

CDA Model

Figure 32 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. The AssignedEntity pattern appears both in the CDA Header and CDA Body.

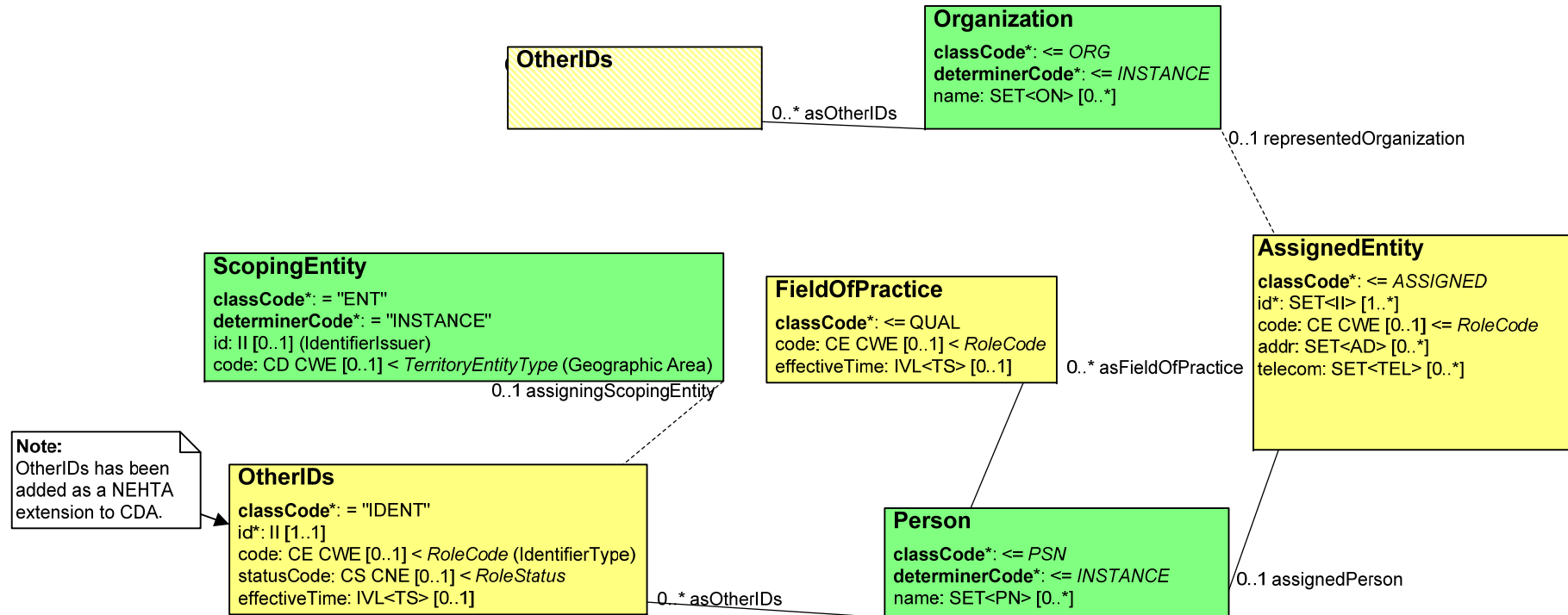


Figure 32: CDA Model for AssignedEntity.AssignedPerson

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Participation> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in participant/typeCode.
Participation> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	assignedEntity/ code	NS	See <code> for available attributes.
n/a	n/a	1..1	assignedEntity/ id assignedEntity/id/@nullFlavor='NA'		Required CDA element.
Participation> Participation Period	The valid time interval during which the participation occurred.	0..1	time		
Participation> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	assignedEntity/ assignedPerson		
Participation>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	assignedEntity/assignedPerson/< Entity Identifier >		See Common Pattern: Entity Identifier .
Participation>Participant> Address	The description of a location where an entity (person or organisation) 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..*	assignedEntity/< Address >		See Common Pattern: Address .
Participation>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	assignedEntity/< Electronic Communication Detail >		See Common Pattern: Electronic Communication Detail .
Participation>Participant> Person	An individual who uses or is a potential user of a healthcare service, or is in the role of health care provider. A health care provider is any person who is involved in or associated with the delivery of health care to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	1..1	n/a		Not mapped directly, encompassed implicitly in assignedEntity/assignedPerson.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Participation>Participant>Person> Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1..*	assignedEntity/assignedPerson/< Person Name >		See Common Pattern: Person Name .
Participation>Participant>Person> Healthcare Provider Detail	Information about an individual who is in the role of healthcare provider. A healthcare provider is any person who is involved in or associated with the delivery of healthcare to a Subject of Care (Patient), or caring for Subject of Care (Patient) wellbeing.	0..1	n/a		This logical NEHTA data component has no mapping to CDA.
Participation>Participant>Person>Healthcare Provider Detail> Healthcare Provider Field of Practice	Describes the field that an individual healthcare provider identifies as being their field of practice, i.e. the skill or knowledge in a particular area practised by that provider, and the period of time associated with that field of practice.	0..*	assignedEntity/assignedPerson/< Healthcare Provider Field of Practice >		See Common Pattern: Healthcare Provider Field of Practice .
Participation>Participant>Person>Healthcare Provider Detail> Employer Organisation Detail	The organisation that the individual is working for in respect to the role they are playing in the nominated participation.	0..*	assignedEntity/ representedOrganization		
Participation>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..1	assignedEntity/representedOrganization/< Entity Identifier >		See Common Pattern: Entity Identifier .
Participation>Participant>Person>Healthcare Provider Detail>Employer Organisation Detail> Organisation Name	The name by which the organisation is known or called.	0..1	assignedEntity/representedOrganization/ name		

8.10 AssignedEntity.RepresentedOrganization

CDA Model

Figure 33 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. The AssignedEntity pattern appears both in the CDA Header and CDA Body.

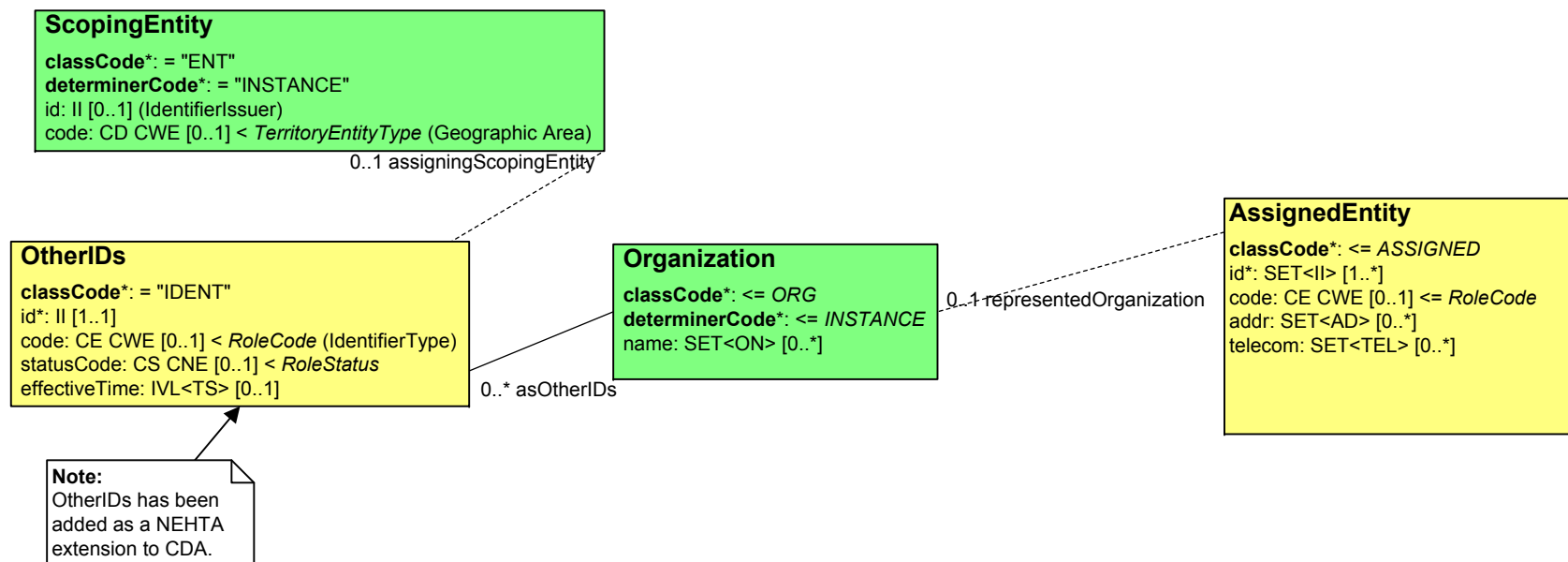


Figure 33: CDA Model for AssignedEntity.RepresentedOrganization

SDT to CDA Mapping

Note: NS = Not specified - Use existing reference sets until NEHTA determines a suitable common reference set.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Participation> Participation Type	A code specifying the kind of Participation or involvement the Entity playing the Role associated with the Participation has with regard to the associated Act.	1..1	n/a	NS	Not mapped directly, encompassed implicitly in parent.
Participation> Healthcare Role	Describes the involvement of the participant in the related action.	1..1	participant/ assignedEntity/code	NS	See <code> for available attributes.
n/a	n/a	1..1	participant/assignedEntity/ id participant/assignedEntity/id/@ nullFlavor='NA'		Required CDA element.
Participation> Participation Period	The valid time interval during which the participation occurred.	0..1	participant/ time		
Participation> Participant	Details pertinent to the identification of an individual or organisation or system that has participated in a healthcare event/encounter/clinical interaction.	1..1	participant/assignedEntity/ representedOrganization		
Participation>Participant> Entity Identifier	A number or code issued for the purpose of identifying an entity (person, organisation or organisation sub-unit) within a healthcare context.	0..*	participant/assignedEntity/representedOrganization/asOrganizationPartOf/whoLeOrganization/ <Entity Identifier>		See Common Pattern: Entity Identifier .
Participation>Participant> Address	The description of a location where an entity (person or organisation) 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/assignedEntity/ <Address>		See Common Pattern: Address .
Participation>Participant> Electronic Communication Detail	The electronic communication details of entities.	0..*	participant/assignedEntity/ <Electronic Communication Detail>		See Common Pattern: Electronic Communication Detail .
Participation>Participant> Organisation	Describes one or more organisations of interest to, or involved in, the business of health care service provision.	1..1	n/a		Not mapped directly, encompassed implicitly in associatedEntity/representedOrganization.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Participation>Participant>Organisation> Organisation Name Detail	Data elements commonly used to identify organisations that exist within healthcare domains.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Participation>Participant>Organisation>Organisation Name Detail> Organisation Name	The name by which an organisation is known or called.	1..1	participant/assignedEntity/representedOrganization/ asOrganizationPartOf/wholeOrganization/name		
Participation>Participant>Organisation>Organisation Name Detail> Department/Unit	The name by which a department or unit within an organisation is known or called.	0..1	participant/assignedEntity/representedOrganization/ name		
n/a	n/a	1..1	participant/assignedEntity/representedOrganization/asOrganizationPartOf/ id participant/assignedEntity/representedOrganization/asOrganizationPartOf/id/ @nullFlavor='NA'		Required CDA element.
Participation>Participant>Organisation>Organisation Name Detail> Organisation Name Usage Detail	Enables differentiation between recorded names and the periods of time for which those names were applicable.	1..*	n/a		This logical NEHTA data component has no mapping to CDA.
Participation>Participant>Organisation>Organisation Name Usage Detail> Name Usage	The classification that enables differentiation between recorded names for a person or an organisation/service location.	1..1	participant/assignedEntity/representedOrganization/asOrganizationPartOf/wholeOrganization/name/ @use		
Participation>Participant>Organisation>Organisation Name Usage Detail> Name Usage Date Range	Indicates the beginning and end of the period during which a person or an organisation/service location is known by a particular name.	0..1	participant/assignedEntity/representedOrganization/asOrganizationPartOf/wholeOrganization/name/ validTime		See <time> for available attributes.

8.11 Attachment

See Known Issues: [Attachment](#)

CDA Model

Figure 34 shows a subset of the CDA model containing those classes being referred to in the SDT to CDA Mapping. The Attachment pattern can appear both in the CDA Header and CDA Body.

If the attachment holds no DOCUMENT CONTROL information, we recommend wrapping the attachment in CDA in a nonXMLBody. The DOCUMENT CONTROL elements will then map as shown in the mapping table for [DOCUMENT CONTEXT](#)>DOCUMENT CONTROL. As an alternative to the use of sections and paragraphs, a CDA document can consist of a header and a body that only has the <nonXMLBody> element. This element contains a single <text> element, which contains a single <reference> element. The value attribute of that reference element contains a URL that references content contained within the same MIME multipart document that contains the CDA document. An example of a nonXMLbody is shown below.

```
<nonXMLBody>
  <text mediaType="image/jpeg">
    <reference value="http://www.example.org/labReport.jpg"/>
  </text>
</nonXMLBody>
```

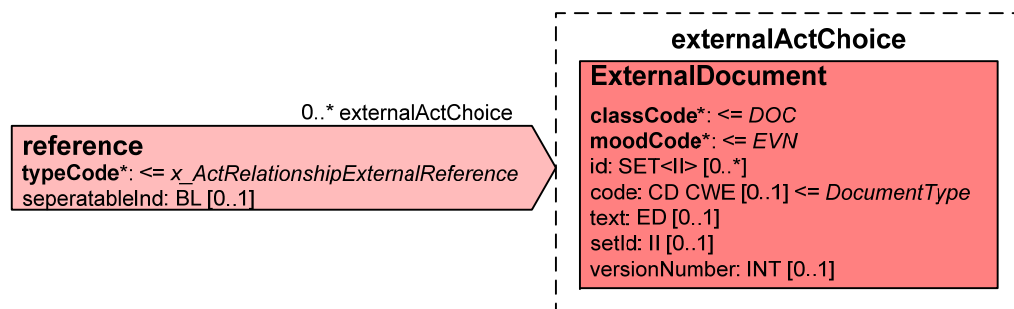


Figure 34: CDA Model for Attachment

SDT to CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elements					
Attachment	A single document that has been attached to the document, because it is relevant to the ongoing care of the patient. For example a care plan, or a health assessment.	0..*	reference reference/@ typeCode ='REFR' reference/ externalDocument		
Attachment> Document Name	The name of the attached document, to be used when referencing the attachment.	1..1	reference/externalDocument/ code		
Attachment> Document Control	Information about the attachment (such as the version number, identifiers, document type and date attested) that will assist in the processing and document management of the attachment.	0..1	See DOCUMENT CONTEXT >DOCUMENT CONTROL for those elements that are part of the attached document. This Data Group will map to those elements/attributes in the attached document.		If the attachment holds no document control information, the attachment should be wrapped in a CDA nonXMLBody.
Document Control> Document Instance Identifier	Unique identifier of an instance of the document being created. The value is globally unique and generally not for human consumption.	1..1	reference/externalDocument/ id		
Document Control> Document Set Identifier	Unique identifier of a set of all document revisions; it is related to a single healthcare event/encounter/clinical interaction. The value does not have to be globally unique and may be suitable for human consumption.	1..1	reference/externalDocument/ setId		
Document Control> Version Number	Identifier of a document within the same document set used to version successive replacement documents. There is no concept of major and minor versions.	1..1	reference/externalDocument/ versionNumber		

9 NEHTA 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 www.hl7.com*).

As such NEHTA has defined the following extensions where NEHTA concepts were not represented in CDA.

9.1 ClinicalDocument.completionCode

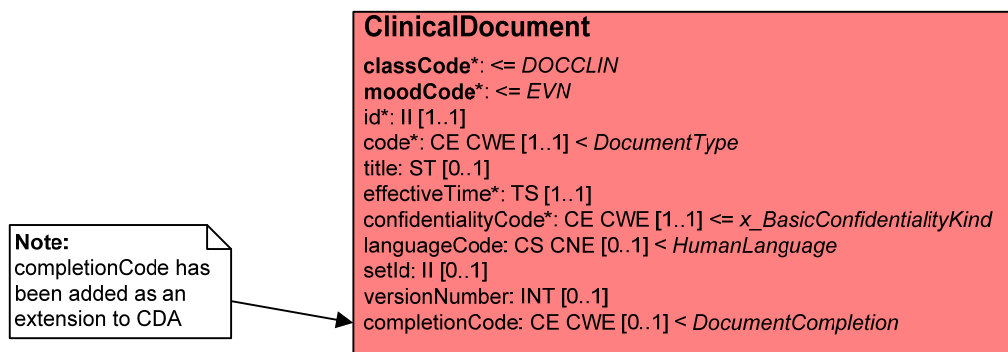


Figure 35: CDA Model for ClinicalDocument.completionCode

9.2 Employment

Note:
See CDA R-MIM for shadow classes.

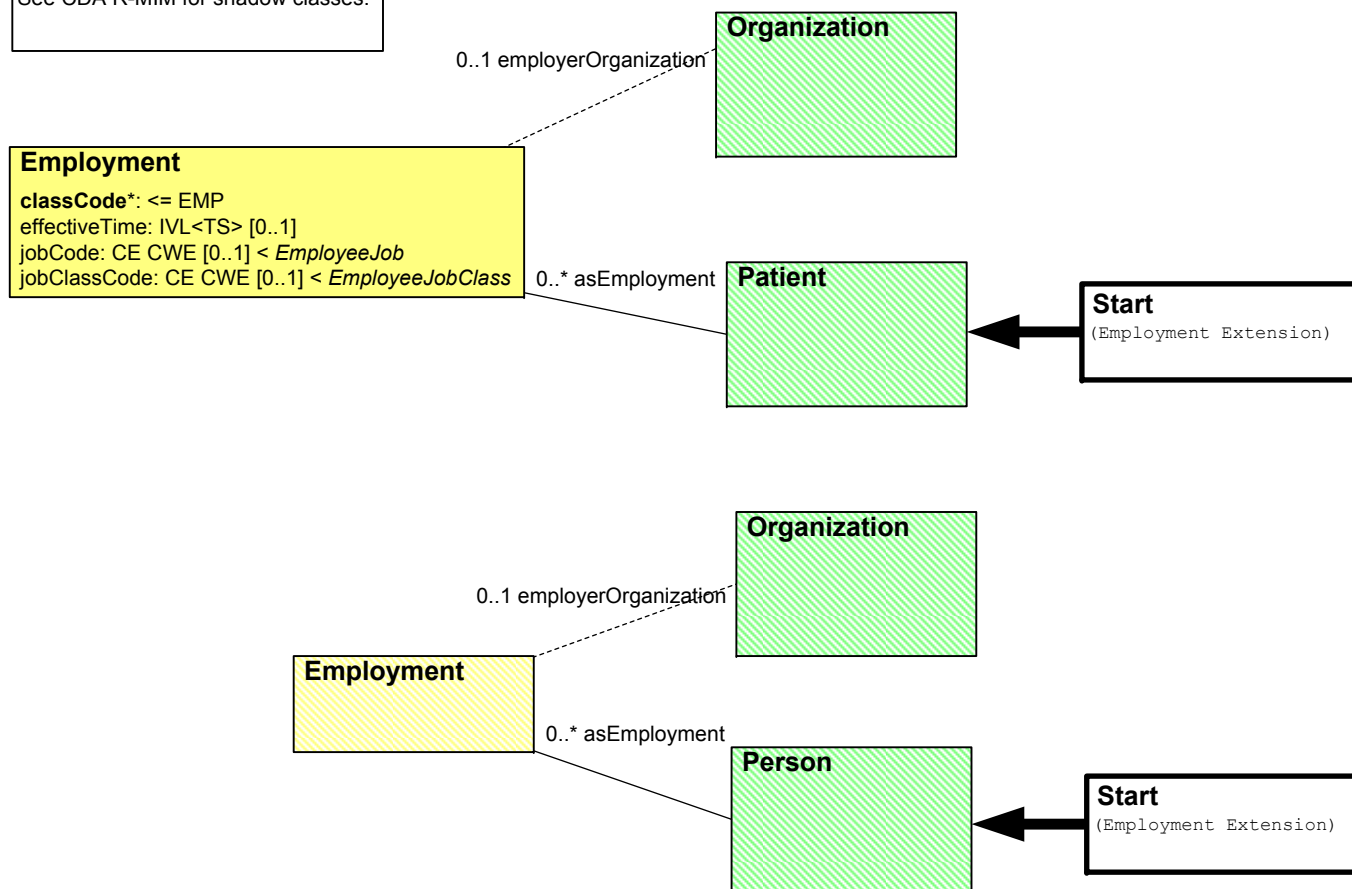


Figure 36: CDA Model for Employment

9.3 FieldOfPractice

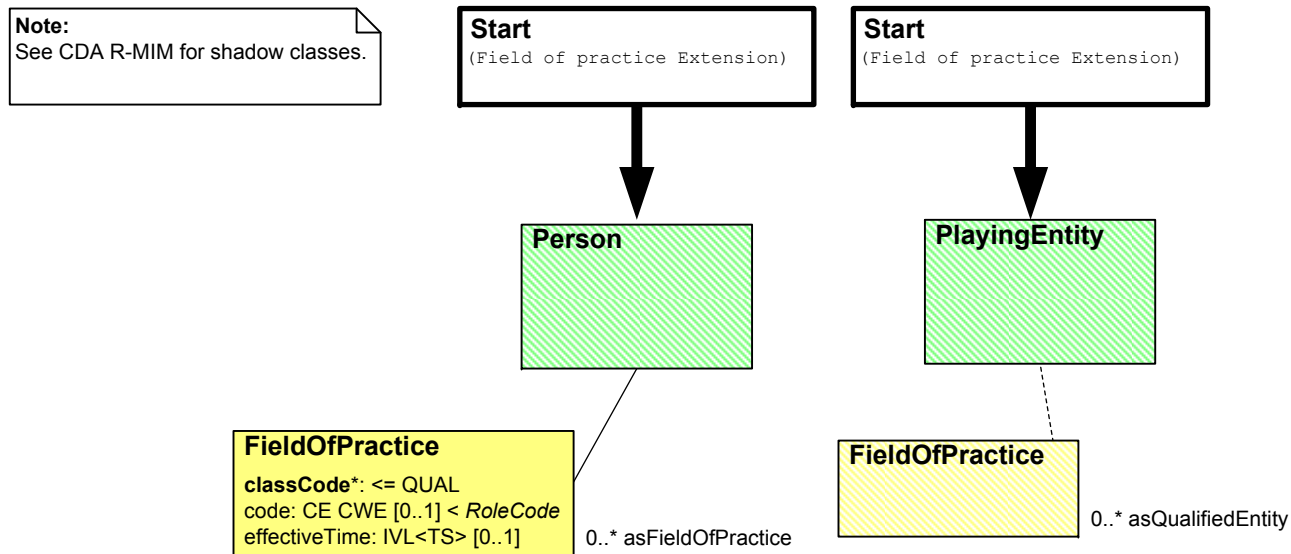


Figure 37: CDA Model for FieldOfPractice

9.4 IntendedRecipient.code

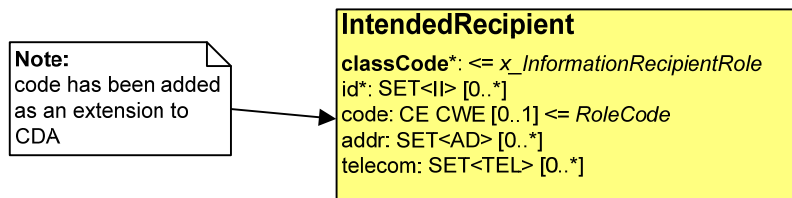


Figure 38: CDA Model for IntendedRecipient.code

9.5 EntityIdentifier

Note:
See CDA R-MIM for shadow classes.

Note:
This id contains a single identifier, an identifier associated with the entity that has a known type, i.e. it is known how it fits into wider mediated processes concerning the entity (typically UR numbers, Passport numbers etc). Required and not mandatory because under some circumstances the identifier may not be completely known (i.e. know passport number, but not which country issued the number, therefore it is not properly unique. In these cases it will have a nullFlavor of UNK).

In some cases, identifiers may appear on both the entity and in the OtherIDs, as it performs both roles; however this is unusual and generally indicative of bad identity management

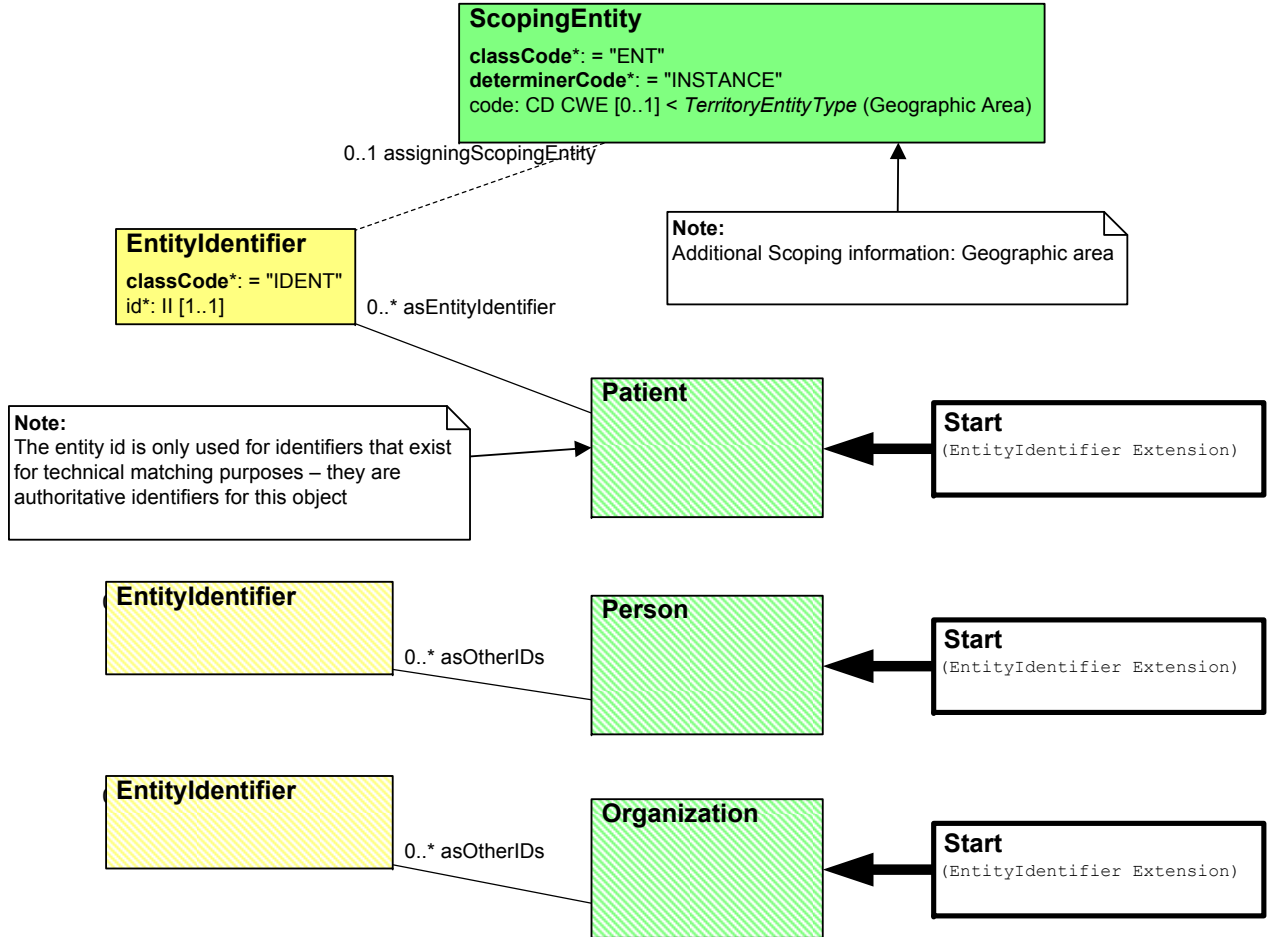


Figure 39: CDA Model for EntityIdentifier

9.6 Patient.deceasedTime

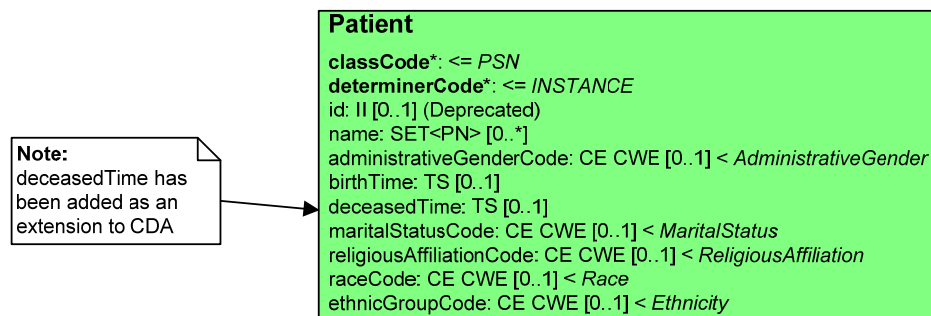


Figure 40: CDA Model for Patient.deceasedTime

10 Vocabularies/Code Sets

If one column in the code set table is bolded, use the code in that column, otherwise use the values in all columns.

Example 1 – All values:

```
<code
  code="103.16044.4.1.1"
  codeSystem="1.2.36.1.2001.1001"
  codeSystemName="NCTIS DATA COMPONENTS"
  displayName="Additional Comments" />
```

Example 2 – One value:

```
<name use="L">
  {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	codeSystem	codeSystemName
Male	M	2.16.840.1.113883.13.68	AS 5017-2006 Health Care Client Identifier Sex
Female	F	2.16.840.1.113883.13.68	AS 5017-2006 Health Care Client Identifier Sex
Intersex or Indeterminate	I	2.16.840.1.113883.13.68	AS 5017-2006 Health Care Client Identifier Sex
Not Stated/Inadequately Described	N	2.16.840.1.113883.13.68	AS 5017-2006 Health Care Client Identifier Sex

10.3 AS 5017-2006: Health Care Client Name Usage

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

Note 1: 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 2: 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 5017-2006: Health Care Client Name Conditional Use Flag

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

Note 1: CDA Release 2 uses HL7 Data Types Release 1. 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 2: In cases (marked EXT) where there are no suitable HL7 codes, extension codes have been created.

AS 5017-2006 Code	AS 5017-2006 Descriptor	HL7 Name Use Code	HL7 Name Use Name	HL7 Name Use Definition
1	Unreliable information	UI	(EXT)	(EXT)
2	Name not to be used	DN	(R2) Do Not Use	This name should no longer be used when interacting with the person (i.e. . in addition to no longer being used, the name should not be even mentioned when interacting with the person)
3	Special privacy / security arrangement	SP	(EXT)	(EXT)
4	Temporary name	T	(R2) Temporary	(R2) A temporary name. Note that a name valid time can provide more detailed information. This may also be used for temporary names assigned at birth or in emergency situations.

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 TelecommunicationAddress 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.
6	URL	U	Use the most appropriate code from the list below:		
			file	File	Host-specific local file names [RFC 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).

AS 5017-2006 Code	AS 5017-2006 Descriptor	AS 5017-2006 Alternative Code	HL7 URLScheme Code	HL7 URLScheme Name	HL7 URLScheme Definition
			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., mllp://<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

Note: Addresses on an Australian Island should be recorded in the State or Territory that is geographically closest to the island. For example, Cocos (Keeling) Islands would be reported as Western Australia.

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 NCTIS: Admin Codes - Sections/Entries

displayName	code	codeSystem	codeSystemName
Additional Comments	103.16044.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Administrative Observations	102.16080.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Adverse Reactions	102.15536.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Alerts	101.20121.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Arranged Services	102.20158.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Ceased Medications	102.16026.4.1.2	1.2.36.1.2001.1001.101	NCTIS Data Components
Clinical Interventions Performed This Visit	101.20109.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Clinical Synopsis	102.15513.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Current Medications On Discharge	102.16026.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Diagnostic Investigations	101.20117.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Event	101.16006.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Health Profile	101.16011.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Identification Notes	103.10247.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Information Provided	102.20116.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Medications	101.16022.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Mothers Original Family Name	103.10245.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Plan	101.16020.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Problems/Diagnoses This Visit	101.20104.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Recommendations and Information Provided	101.20116.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Recommendations Provided	102.20116.4.1.2	1.2.36.1.2001.1001.101	NCTIS Data Components

displayName	code	codeSystem	codeSystemName
Source of Death Notification	103.10243.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components
Specialty	103.16028.4.1.1	1.2.36.1.2001.1001.101	NCTIS Data Components

10.12 NCTIS: Admin Codes - Document Status

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

10.13 HL7 v2.4: Table 0123 Result Status

displayName	code	codeSystem	codeSystemName
Order received; specimen not yet received	O	2.16.840.1.113883.12.123	HL7 Result Status
No results available; specimen received, procedure incomplete	I	2.16.840.1.113883.12.123	HL7 Result Status
No results available; procedure scheduled, but not done	S	2.16.840.1.113883.12.123	HL7 Result Status
Some, but not all, results available	A	2.16.840.1.113883.12.123	HL7 Result Status
Preliminary: A verified early result is available, final results not yet obtained	P	2.16.840.1.113883.12.123	HL7 Result Status
Correction to results	C	2.16.840.1.113883.12.123	HL7 Result Status
Results stored; not yet verified	R	2.16.840.1.113883.12.123	HL7 Result Status
Final results; results stored and verified. Can only be changed with a corrected result.	F	2.16.840.1.113883.12.123	HL7 Result Status
No results available; Order cancelled.	X	2.16.840.1.113883.12.123	HL7 Result Status
No order on record for this test. (Used only on queries)	Y	2.16.840.1.113883.12.123	HL7 Result Status
No record of this patient. (Used only on queries)	Z	2.16.840.1.113883.12.123	HL7 Result Status

10.14 HL7 v3: Confidentiality

displayName	code	codeSystem	codeSystemName
Normal	N	2.16.840.1.113883.5.25	HL7 Confidentiality
Restricted	R	2.16.840.1.113883.5.25	HL7 Confidentiality
Very restricted	V	2.16.840.1.113883.5.25	HL7 Confidentiality

10.15 OIDs

codeSystem (OID)	codeSystemName
2.16.840.1.113883.13.62	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 [ABS2006]
2.16.840.1.113883.13.65	AIHW Mode of Separation [AIHW2005]
2.16.840.1.113883.6.96	SNOMED-CT, SNOMED-CT-AU [IHTS2009]
1.2.36.1.2001.1004.100	Australian Medicines Terminology (AMT) [NEHT2009A]

11 References

Note: The HL7 standards on <<http://www.hl7.org>> are only available to HL7 members. Non-HL7 members should contact HL7 Australia for access to the standards or consult NEHTA for assistance.

- [ABS2006] Australian Bureau Of Statistics, *1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations*, First Edition, 2006 - METeOR 350899, <<http://www.abs.gov.au/ausstats/abs@.nsf/mf/1220.0>>, accessed 12 October 2009.
- [ABS2008] Australian Bureau of Statistics, Australia Bureau of Statistics, *Standard Australian Classification of Countries (SACC) Cat. No. 1269*, <<http://www.abs.gov.au/ausstats/abs@.nsf/mf/1269.0>>, accessed 12 October 2009.
- [AIHW2005] Australian Institute of Health and Welfare, *AIHW Mode of Separation*, <<http://www.abs.gov.au/ausstats/abs@.nsf/mf/1269.0>>, accessed 18 November 2009.
- [HL72009A] HL7, *HL7 Version 3 Standard*, <<http://www.hl7.org/v3ballot/html/welcome/environment/index.htm>>, accessed 12 October 2009.
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Appendix A: Known Issues

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

Reference	Description
Administrative Observations	The eDS SDT contains a number of data elements that are logically part of the Discharge Summary SDT header, but for which there are no equivalent data elements in the CDA header. Currently, 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. It is recognised that this may not be the best solution to the issue and analysis is ongoing to resolve the issue.
Attachment	The ATTACHMENT data group, though sufficient for the current requirements of this specification, is not yet fully modelled. Further modelling is planned and the representation of these concepts may well change in future releases of this specification.

Index

Acronyms.....	4	ADVERSE REACTIONS	158
Address	197	ALERTS	166
Administrative Observations.....	21	ARRANGED SERVICES	174
ADVERSE REACTIONS	158	CEASED MEDICATIONS.....	132
ALERTS	166	CLINICAL INTERVENTIONS PERFORMED THIS VISIT	99
ARRANGED SERVICES	174	CLINICAL SYNOPSIS	103
AS 5017-2006		CURRENT MEDICATIONS ON DISCHARGE.....	119
Australian State/Territory Identifier	226	DIAGNOSTIC INVESTIGATIONS	109
assignedEntity.assignedPerson	204	DISCHARGE SUMMARY	72
AssignedEntity.RepresentedOrganization	207	ENCOUNTER	78
Attachment	210	EVENT.....	75
Body Data Specification – CDA Mapping.....	72	HEALTH PROFILE	141
CDA	6	HEALTHCARE PROVIDERS	144
CDA Extensions.....	14	MEDICATIONS.....	116
CEASED MEDICATIONS	132	NOMINATED PRIMARY HEALTHCARE PROVIDER	146
CLINICAL INTERVENTIONS PERFORMED THIS VISIT	99	NOMINATED PRIMARY HEALTHCARE PROVIDER (ORGANISATION)	152
CLINICAL SYNOPSIS	103	OTHER PARTICIPANT.....	88
code.....	189	PLAN.....	171
Common Patterns.....	189	PROBLEMS/DIAGNOSES THIS VISIT	94
Address	197	RECOMMENDATIONS AND INFORMATION PROVIDED	181
assignedEntity.assignedPerson	204	RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE	84
AssignedEntity.RepresentedOrganization	207	Data Specification – CDA Mapping, Header	
Attachment	210	DISCHARGE SUMMARY	24
code.....	189	DOCUMENT CONTEXT.....	46
ElectronicCommunicationDetail	201	DOCUMENT RECIPIENT DETAIL (ORGANISATION)	65
Entity Identifier.....	192	DOCUMENT RECIPIENT DETAIL (PERSON).....	58
id 190		FACILITY	40
Person Name	195	HEALTH EVENT CONTEXT.....	28
time	190	SUBJECT OF CARE	30
Conformance to the CDA Standard.....	5	Data Specifications, Body	
CURRENT MEDICATIONS ON DISCHARGE	119	NOMINATED PRIMARY HEALTHCARE PROVIDER (PERSON).....	146
Data Hierarchy		DIAGNOSTIC INVESTIGATIONS	109
Discharge Summary Detail	17	DISCHARGE SUMMARY	24, 72
Discharge Summary Header	16		
Data Specification – CDA Mapping, Body			

Discharge Summary Detail Data Hierarchy	17	NOMINATED PRIMARY HEALTHCARE PROVIDER (PERSON)	146
Discharge Summary Header Data Hierarchy	16	OIDs	231
DOCUMENT CONTEXT	46	OTHER PARTICIPANT	88
Document Map	3	PARTICIPANT	146, 148
Document Purpose	1	Person Name	195
DOCUMENT RECIPIENT DETAIL (ORGANISATION)	65	PLAN	171
DOCUMENT RECIPIENT DETAIL (PERSON)	58	PROBLEMS/DIAGNOSES THIS VISIT	94
Document Scope	1	RECOMMENDATIONS AND INFORMATION PROVIDED	181
ElectronicCommunicationDetail	201	Reference List	232
ENCOUNTER	78	RESPONSIBLE HEALTH PROFESSIONAL AT TIME OF DISCHARGE	84
Entity Identifier	192	Road Map	6
EVENT	75	Schema	14
FACILITY	40	Schematron	14
Header Data Specification – CDA Mapping	24	SUBJECT OF CARE	30
HEALTH EVENT CONTEXT	28	time	190
HEALTH PROFILE	141	Vocabularies/Code Sets	217
HEALTHCARE PROVIDERS	144	AS 5017-2006	
id 190		Address Purpose	221
Implementation Strategies	15	Health Care Client Electronic Communication Medium	223
Intended Audience	2	Health Care Client Electronic Communication Usage Code	225
Introduction	1	Health Care Client Identifier Address Purpose	221
Keywords	4	Health Care Client Identifier Geographic Area	222
Mapping Interpretation	7	Health Care Client Identifier Sex	218
MEDICATIONS	116	Health Care Client Name Conditional Use Flag	220
NEHTA CDA Extensions	212	Health Care Client Name Usage	219
ClinicalDocument.completionCode	212	Health Care Client Source of Death Notification	221
Employment	213	HL7	
EntityIdentifier	215	Confidentiality	231
FieldofPractice	214	Result Status	230
Patient.deceasedTime	216	TelecommunicationAddressUse	217
NOMINATED PRIMARY HEALTHCARE PROVIDER	146	NCTIS	
NOMINATED PRIMARY HEALTHCARE PROVIDER (ORGANISATION)		Admin Codes-Document Status	229
.....	152	Admin Codes-Sections/Entries	227