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Draft for Trial Implementation

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Document Information

Document owner

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The National Clinical Terminology and Information Service

Related documents

Name	Version/Release Date
Electronic Medications Management - Electronic Transfer of Prescriptions Endpoint Specification	Release 1, Version 1.0, Issued 11 November 2009
Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification	Version 1.0, Issued September 2010
ePrescription Structured Document Template	Version 3.1, Issued November 2010
ETP Business Process and Requirements Specification	Release 1, Issued 30 October 2009
ETP Technical Requirements Specification	Release 1, Issued 30 October 2009
ETP Logical Information Model	Release 1, Issued 30 October 2009
ETP Technical Architecture	Release 1, Issued 30 October 2009
Participation Data Specification	Version 3.0, Issued September 2010

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1 Introduction

1.1 Document Purpose and Scope

The purpose of this document is to provide a guide to implementing the 'logical' model detailed by NEHTA's e-Prescription Structured Document Template (ePR SDT) as an HL7 Clinical Document Architecture Release 2 (CDA) XML document. This guide is based on Version 3.1 of the ePR SDT [NEHT2010r]. The primary aim of the guide is to take implementers step by step through mapping each data component of the ePR SDT to a corresponding CDA attribute or element.

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

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

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

1.2 e-Prescription Definition

For the purposes of this document, and according to Department of Health and Ageing *Pharmacy and Government Arrangements - Fifth Community Pharmacy Agreement* [DHA2010a]:

Electronic Prescription means an electronic prescription which is generated in accordance with a process by which a prescription is electronically generated by a prescriber, authenticated (electronically signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity.

1.3 HL7 Clinical Document Architecture

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

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

Some of the advantages of CDA are:

- · It is machine computable and human readable.
- It provides a standardised display of clinical information without loss of clinical meaning.
- It provides assurance of clinical quality and safety more effectively than message-based interfaces by storing and displaying the clinical data as entered by the clinician.
- It provides better support than HL7 V2 messages for:
 - · more complex information structures, such as pathology synoptic reporting; and

- terminologies such as SNOMED CT-AU®.
- It supports legal attestation by the clinician (requiring that a document has been signed manually or electronically by the responsible individual).
- It is able to be processed by unsophisticated applications (displayed in web browsers, for instance).
- It provides a number of levels of compliance to assist with technical implementation and migration.
- It aligns Australia with e-health initiatives in other countries (such as Canada, UK, USA, Brazil, Germany and Finland).

1.4 Intended Audience

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

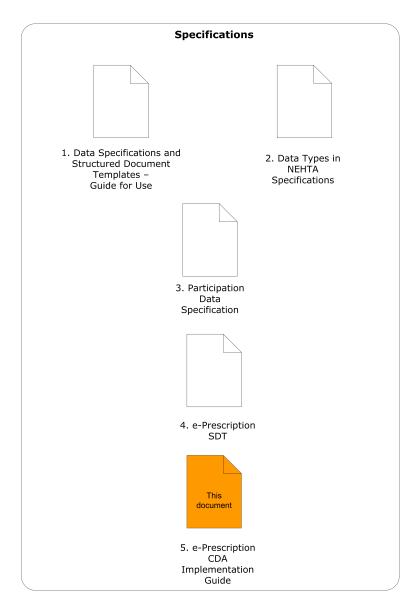
This document and related artefacts are very technical in nature and the audience is expected to be familiar with the language of health data specifications and to have some familiarity with health information standards and specifications such as CDA, and [SA2007a]. Definitions and examples are provided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

1.5 Document Map

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

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

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- 1. Data Specifications and Structured Document Templates Guide for Use [NEHT2010d] describes the generic data structures, data types, keywords and icons used within the Structured Document Template.
- 2. Data Types in NEHTA Specifications [NEHT2010c] a detailed description of the data types used within the Structured Document Template.
- 3. Participation Data Specification [NEHT2010i] contains the full specification which forms the basis of all participations contained in NEHTA Structured Document Templates.
- 4. e-Prescription Structured Document Template [NEHT2010r] clinical content specification describing the logical data structures, data components, and value domains which constitute an e-Prescription.

1.6 Acronyms

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

XML	Extensible Markup Language
XSL	Extensible Stylesheet Language

For a complete listing of all relevant acronyms, abbreviations and a glossary of terms please refer to [NEHT2005a].

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 [RFC2119].

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.
This word, or the adjective ' OPTIONAL ', means that an item is truly optional. One i may choose to include the item because a particular implementation requires it, or implementer determines that it enhances the implementation while another implement the same item. An implementation which does not include a particular option must to interoperate with another implementation which does include the option, perhaps functionality. In the same vein, an implementation which does include a particular opprepared to interoperate with another implementation which does not include the option 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 ePR SDT is implemented as a CDA document. Conformance can be claimed to this *Implementation Guide*, either with regard to instances of e-Prescription CDA XML documents, or to systems that consume or produce e-Prescription CDA XML documents. When a conformance claim is made, it is made against this document, i.e. 'e-*Prescription: CDA Implementation Guide v2.1*'.

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 W3C XML Schema).
 - It MUST conform to the HL7 V3 R1 data type specification.
 - It MUST render correctly using the HL7 provided CDA transform.
- It MUST be valid against the Australian CDA ePR 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").

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 It MUST use vocabularies and codes sets as specified in the mappings, unless the vocabulary has been explicitly stated as:

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

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

- 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 [NEHT2010c].
- 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* e-Prescription CDA documents may claim conformance if all the documents it produces are conformant to this guide.

A system that *consumes* e-Prescription 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 e-Prescription CDA documents are not required to process all the structured data entries in the CDA document but they **MUST** be able to correctly render the document for end-users when appropriate (see 2.1 Clinical Document Architecture Release 2).

1.9 Lifecycle and Document Management

Electronic Transfer of Prescription (ETP) supports repository service interfaces that allow for a document to be stored in a repository (and therefore made available for retrieval). These interfaces also allow for an existing document to be effectively "withdrawn from publication". The ETP service does not, however, represent a complex lifecycle for any of the clinical documents that it manages. That is, it does not support:

- · revision of an existing document,
- · appending of information to an existing document,
- · replacement of an existing document,
- · any form of transformation or translation of an existing document.

For this reason the CDA header elements used to represent relationships between CDA documents are not used in ETP.

For more details on the lifecycle of an e-Prescription please refer to the ETP Business Process and Requirements Specification - Release 1 [NEHT2009i].

1.10 Digital Signature

See Known Issues.

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

1.11 Known Issues

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

Reference	Description
Clinical Document Architecture Release 2	How is structured text different from structured data? Is the statement intended to assert "text" and "coded data"? Is the "structured text" is intended to mean "marked up text"? And if yes, how is it different from "narratives" that are "CDA defined hypertext"?
6 CDA Header	CDA Header concepts relevant to the creation of a valid CDA document are not defined with clear instruction and guidance on their intended use for ETP. i.e. Custodian is mandatory in CDA - what would this be in ETP?
Schema	The CDA Schema has been modified to include some HL7 R2 data type constructs specifically to accommodate mapping Minimum Interval Between Repeats. This approach needs to be verified.
AS 5017-2006: Health Care Client Identifier Geographic Area	The Health Care Client Identifier Geographic Area vocabulary table lists displayName, code, codeSystem-Name and codeSystem while only the displayName is used in the mapping. Verification of using only the display-Name needs to be performed.
code	The explanation of how to use the code element in the Common Patterns chapter needs to be revisited.
Throughout document	The ids on roles are not clearly explained. The following guidance is given in the comments field of the mapping table:
	UUID
	This is a technical identifier that is used for system purposes such as matching.
	This explanation needs to be clarified.
Throughout document	Australian vs American spelling - in cases where definitions have been taken from HL7 documentation, the American spelling has been preserved, e.g. organization rather than organisation.
time	Need to give guidance on timezones for time values. This may be something that should be enforced for all time values.
Entity Identifier	Conformance statements in the comments column need to be verified.
Digital Signature	A solution to the issue of how best to include digital signatures in CDA documents is still being worked on. A conclusion as to the best solution to the problem is expected to be reached by the end of 2010.

2 Guide for Use

This document describes how to properly implement the Australian ePR SDT as a conformant HL7 CDA XML document. The e-Prescription is built in two parts:

1. A Structured Document Template (SDT), which, in conjunction with its related documents (see Document Map), describes the e-Prescription, in a form that is consistent with other NEHTA specifications. It has the potential to be implemented in multiple different exchange formats as is most suitable for a particular context. It describes the data content of an e-Prescription 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 ePR SDT, with the HL7 CDA documentation and how to read this document.

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

2.1 Clinical Document Architecture Release 2

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

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

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

The body contains the clinical report, and can be structured text or a combination of both structured text and structured data. The structured text can 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 with only a standard accompanying transformation. This transformation is produced and distributed by HL7.

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

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

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

• CDA specification: [HL7CDAR2]

- RIM, Data types and Vocabulary: [HL7V3DT]
- Useful CDA examples repository: [RING2009]
- CDA validation tools: [INFO2009]

2.2 Mapping Interpretation

The core of this guide is a mapping from the ePR 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 specifications makes it inappropriate to have a 1:1 mapping, or any simple mapping that can be represented in a transform. This is especially true for names and addresses, where the 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 9 *Common Patterns*.

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

X.X ITEM NAME

Identification (normative)

Name ITEM NAME

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

Relationships (normative)

Children Not Included in Mapping for This Section

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

Parent

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

CDA Model

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

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

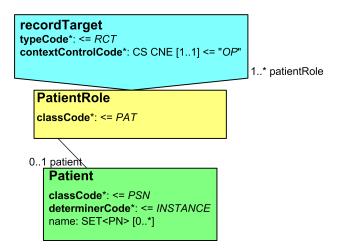


Figure 2.1. CDA Model for Example - Header Part

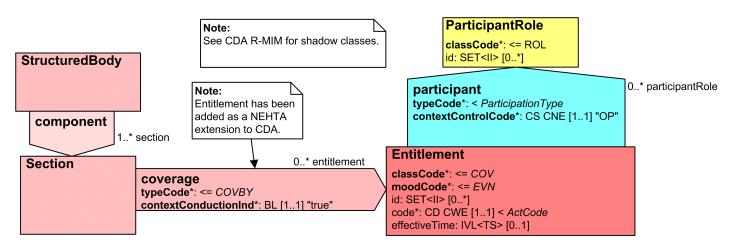


Figure 2.2. CDA Model for Example - Body Part

CDA Mapping (normative)

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

How to interpret the following example mapping:

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
CDA Header Data Elements			Context: ClinicalDocument			
Subject of Care	The person the prescription is for. The intended recipient of the prescibed items.	11	recordTarget/patientRole			
n/a	n/a	1.1	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching.	Required CDA element. If there are any entitlements for Subject of Care this value MUST be the same as: ClinicalDocument/ component/ structuredBody/ component[pres_item]/ section/ entry/ act/ participant/ participant/ participant/Role/ id where participantRole/ @classCode = "PAT".	
Subject of Care > Participant > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/ patient.	
Subject of Care > Participant > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	1*	recordTarget/patientRole/patient/ <person name=""></person>		See common pat- tern: Person Name.	
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pres_item]/section			
Subject of Care > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0*	ext:coverage2/@typeCode="COVBY"		See Australian CDA extension: Entitlement.	
			ext:coverage2/ext:entitlement			
			ext:coverage2/ext:entitlement/@classCode="COV"			
			ext:coverage2/ext:entitlement/@moodCode="EVN"			
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"			
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"			
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id	This is a technical identifier that is used for system purposes such as matching.	MUST hold the same value as ClinicalDoc- ument/ recordTarget /patientRole/ id.	

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	11	ext:coverage2/ext:entitlement/ext:id		
Subject of Care > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	11	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	See <code> for available attributes.</code>
Subject of Care > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	01	ext:coverage2/ext:entitlement/ext:effectiveTime		

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

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

1. ClinicalDocument/recordTarget/patientRole

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

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

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

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

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

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

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

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

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

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

The order of the 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 Australian 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.

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

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

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

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

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

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

See comments in the example below.

Example 2.1. Mapping Interpretation

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

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

2.3 CDA Extensions

The 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 cannot be used to indicate that an observation does not apply where the CDA document requires it.
- HL7 encourages users to get their requirements formalised in a subsequent version of the standard so as to maximise the use of shared semantics.

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

Version 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 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 e-Prescription CDA W3C XML Schema (referred to in this document as the ePR CDA Schema). This schema differs from the base HL7 CDA W3C XML Schema (referred to in this document as the HL7 CDA Schema) in two ways:

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

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

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

e-Prescriptions that conform to this specification **MUST** validate against the ePR 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 Conformance.

2.5 Schematron

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

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

2.6 Implementation Strategies

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

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

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

3 e-Prescription Context Data Hierarchy

The data hierarchy below provides a logical representation of the data structure of the ePR SDT context data components.

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

đ	EPRESCRIPTION					
CONTE	CONTEXT					
	.	SUBJECT OF CARE	11			
	*	PRESCRIBER	11			
	*	PRESCRIBER ORGANISATION	11			
	ID	Prescription Identifier	11			

4 e-Prescription Content Data Hierarchy

As represented in the data hierarchy below, the content part of the ePR SDT contains information regarding the item(s) prescribed for the subject of care, instructions on how those items should be administered and instructions for dispensing the items.

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

fi	EPRES	RESCRIPTION				
	CONTENT					
	ŀ	PRESC	RIPTION	11		
		隐	DateTim	ne Prescription Written	11	
		₩	DateTim	ne Prescription Expires	11	
		ID	Prescrip	otion Item Identifier	11	
		T/T ₀₁₀	Therape	Therapeutic Good Identification		
		T	Formula		01	
		þ	DOSAG	E	01	
			T	Dose Instruction	11	
		T	Instructi	ons for Use	01	
		T	Quantity	of Therapeutic Good	11	
		√x	Brand S	Brand Substitute Allowed		
		1 <mark>2</mark> 3	Maximu	Maximum Number of Repeats		
		X	Minimur	Minimum Interval Between Repeats		
		T ₀₁₀	Medical	Medical Benefit Category Type		
		T ₀₁₀	Grounds	Grounds for Concurrent Supply		
		T	PBS/RP	PBS/RPBS Authority Approval Number		
		Т	State Au	State Authority Number		
		Т	Reason	Reason for Therapeutic Good		
		T	Addition	Additional Comments		

<u>s</u>	OBSERVATIONS			01
	þ	BODY WEIGHT		01
			Body Weight Value	11
		8	DateTime of Observation	11
	þ	BODY HEIGHT		01
			Body Height Value	11
		(A)	DateTime of Observation	11
þ	PRESCRIPTION NOTE DETAIL		01	
	T Note		11	

nehta Administrative Observations

5 Administrative Observations

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

CDA Model

Figure 5.1, "CDA Model for Administrative Observations" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping. The Administrative Observations section is composed of a Section class related to its context ClinicalDocument.structuredBody through a component relationship.

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

1..* section

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

Figure 5.1. CDA Model for Administrative Observations

nehta Administrative Observations

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 - Sections/Entries	See <code> for available attributes.</code>
			component[admin_obs]/section/title="Administrative Observations"		
			component[admin_obs]/section/text		See Appendix A, CDA Narratives

Example 5.1. Administrative Observations XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
  <!-- Begin CDA Header -->
   <!-- End CDA Header -->
   <!-- Begin CDA Body -->
   <component>
      <structuredBody>
         <!-- Begin Administrative Observations section -->
   <component><!-- [admin_obs] -->
    <section>
     <id root="88CDBCA4-EFD1-11DF-8DE4-E4CDDFD72085"/>
     <code code="102.16080"</pre>
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Administrative Observations"/>
     <title>Administrative Observations</title>
     <!-- Narrative text for Administrative Observations -->
     <text/>
   </section>
   </component><!-- [admin_obs] -->
   <!-- End Administrative Observations section -->
      </structuredBody>
   </component>
   <!-- End CDA Header -->
</ClinicalDocument>
```

6 CDA Header

This chapter contains elements that are not specified in the ePR SDT specification. These elements include CDA specific header elements (both required and optional) and data elements described in Electronic Medications Management - Electronic Transfer of Prescriptions Endpoint Specification (EPS) [NEHT2009q]. The CDA header elements are specified in the CDA Schema Data Element column and where they map to Endpoint specification elements is indicated in the EPS Element column.

All the definitions in this chapter are sourced from [HL7CDAR2].

6.1 ClinicalDocument

Identification

Name Clinical Document

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

document.

Relationships

Children Not Included in Mapping for This Section

Name	Obligation	Occurrence
LegalAuthenticator	Essential	11
Custodian	Essential	11
EncompassingEncounter	Essential	11

CDA Model

Figure 6.1, "CDA Model for ClinicalDocument"

```
ClinicalDocument

classCode*: <= DOCCLIN

moodCode*: <= EVN

id*: II [1..1]

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

effectiveTime: GTS [1..1]

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

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

setId: II [0..1]

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

Figure 6.1. CDA Model for ClinicalDocument

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	EPS Element	Comments	
Context: /						
ClinicalDocument	The ClinicalDocument class is the entry point into the CDA R-MIM, and corresponds to the <clinicaldocument> XML element that is the root element of a CDA document.</clinicaldocument>	11				
ClinicalDocument/typeld	A technology-neutral explicit reference to this CDA, Release	11				
ClinicalDocument/typeId/@extension="POCD_HD00040"	Two specification.	11			The unique identifier for the CDA, Release Two Hierarchical Description.	
ClinicalDocument/typeId/@root="2.16.840.1.113883.1.3"		11			The OID for HL7 Registered models.	
ClinicalDocument/templateId		11				
ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.101.100.16100"		11		docType	The healthcare context-specific name of the published Structured Document Template Specification.	
ClinicalDocument/templateId/@extension="2.1"		11			The identifier of the version that was used to create the document instance.	
ClinicalDocument/id	Represents the unique instance identifier of a clinical document.	11		docld	See EPRESCRIPTION. This element maps to the e-Prescription identifier.	
ClinicalDocument/code	The code specifying the particular kind of document (e.g.	01			Electronic Prescription means	
ClinicalDocument/code/@code="100.16100"	History and Physical, Discharge Summary, Progress Note).				an electronic prescription which is generated in accord-	
ClinicalDocument/code/@codeSystem="1.2.36.1.2001.1001.101"					ance with a process by which a prescription is electronically	
ClinicalDocument/code/@codeSystemName="NCTIS Data Components"					generated by a prescriber, authenticated (electronically	
ClinicalDocument/code/@displayName="e-Prescription"					signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity.	

CDA Schema Data Element	Definition	Card	Vocab	EPS Element	Comments
ClinicalDocument/effectiveTime	Signifies the document creation time, when the document first came into being. Where the CDA document is a transform from an original document in some other format, the Clinical-Document.effectiveTime is the time the original document is created.	11		creationTime	
ClinicalDocument/confidentialityCode/@nullFlavor="NA"	Codes that identify how sensitive a piece of information is and/or that indicate how the information may be made available or disclosed.	11			
ClinicalDocument/languageCode		01	[RFC3066] – Tags for the Identification of Languages		<language code=""> - <country code=""></country></language>
ClinicalDocument/setId	Represents an identifier that is common across all document revisions.	01	UUID This is a technical identifier that is used for system purposes such as matching.		
ClinicalDocument/versionNumber/@number="1"	An integer value used to version successive replacement documents.	01			This value is always "1".

Example

Example 6.1. ClinicalDocument XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
 <templateId root="1.2.36.1.2001.1001.101.100.16100" extension="2.1"/>
 <!-- Prescription Identifier -->
 <id root="8BC3406A-B93F-11DE-8A2B-6A1C56D89593"/>
 <code code="100.16100"</pre>
  codeSystem="1.2.36.1.2001.1001.101"
  codeSystemName="NCTIS Data Components"
   displayName="e-Prescription" />
 <effectiveTime value="201001061149"/>
 <confidentialityCode nullFlavor="NA"/>
 <languageCode code="en-AU"/>
 <setId root="6C6BA56C-BC92-11DE-A170-D85556D89593"/>
 <versionNumber value="1"/>
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
 </structuredBody>
 </component>
 <!-- End CDA Body -->
</ClinicalDocument>
```

6.1.1 LegalAuthenticator

Identification

Name LegalAuthenticator

Definition Represents a participant who has legally authenticated the document.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Essential	11

CDA Model

Figure 6.2, "CDA Model for LegalAuthenticator"

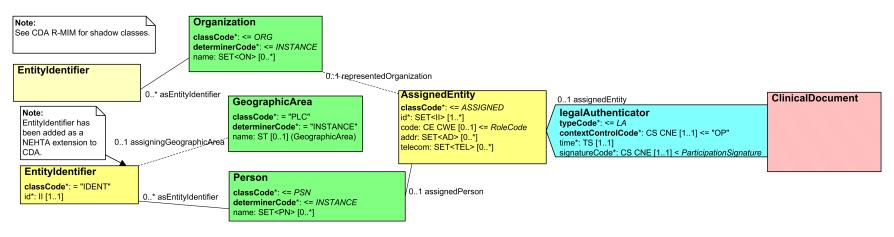


Figure 6.2. CDA Model for LegalAuthenticator

CDA Mapping



Note

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

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

CDA Schema Data Element	Definition	Card	Vocab	Comments
Context: ClinicalDocument				
LegalAuthenticator	Represents a participant who has legally authenticated the document.	11		
LegalAuthenticator/time/@value	Indicates the time of authentication.	11		
LegalAuthenticator/signatureCode/@code="S"	Indicates that the signature has been affixed and is on file.	11		
LegalAuthenticator/assignedEntity/code	The specific kind of role.	01	NS	See <code> for available attributes.</code>
LegalAuthenticator/assignedEntity/id	A unique identifier for the player entity in this role.	11	UUID	
			This is a technical identifier that is used for system purposes such as matching.	
LegalAuthenticator/assignedEntity	A legalAuthenticator is a person in the role of an assigned entity (AssignedEntity class). An assigned entity is a person assigned to the role by the scoping organization. The entity playing the role is a person (Person class). The entity scoping the role is an organization (Organization class).	11		
LegalAuthenticator/assignedEntity/assignedPerson	The entity playing the role (assignedEntity) is a person.	11		
LegalAuthenticator/assignedEntity/assignedPerson/ <entity identifier=""></entity>	The entity identifier of the person.	0*		See common pattern: Entity Identifier.
LegalAuthenticator/assignedEntity/ <address></address>	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0*		See common pattern: Address.
LegalAuthenticator/assignedEntity/ <electronic communication="" detail=""></electronic>	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0*		See common pattern: Electronic Communication Detail.
LegalAuthenticator/assignedEntity/assignedPerson/ <person name=""></person>	A non-unique textual identifier or moniker for the entity (assignedPerson).	1*		See common pattern: Person Name.
LegalAuthenticator/assignedEntity/representedOrganization	The entity scoping the role (assignedEntity).	0*		
LegalAuthenticator/assignedEntity/representedOrganization/ <entity identifier=""></entity>	A unique identifier for the scoping entity (represented organization) in this role (assignedEntity).	01		See common pattern: Entity Identifier.

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

CDA Schema Data Element	Definition	Card	Vocab	Comments
LegalAuthenticator/assignedEntity/representedOrganization/name	A non-unique textual identifier or moniker for the entity (represente-dOrganization).	01		

Example

Example 6.2. LegalAuthenticator XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
 xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
 <!-- Begin CDA Header -->
  <!-- Begin legalAuthenticator -->
  <legalAuthenticator>
   <time value="201001061149"/>
   <signatureCode code="S"/>
   <assignedEntity>
   <id root="123F9366-78EC-11DF-861B-EE24DFD72085"/>
    <code code="253111"
     codeSystem="2.16.840.1.113883.13.62"
      codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification
           of Occupations, First Edition, 2006"
      displayName="General Medical Practitioner"/>
    <!-- Address -->
    <addr use="H">
     <streetAddressLine>1 Clinician Street</streetAddressLine>
     <city>Nehtaville</city>
     <state>QLD</state>
     <postalCode>5555</postalCode>
     <additionalLocator>32568931</additionalLocator>
    </addr>
    <!-- Electronic Communication Detail -->
    <telecom use="WP" value="tel:0712341234"/>
    <assignedPerson>
     <!-- Person Name -->
      <prefix>Dr.</prefix>
      <given>Prescribing</given>
      <family>Doctor</family>
     </name>
     <!-- Entity Identifier -->
     <ext:asEntityIdentifier classCode="IDENT">
      <ext:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003611234567890"/>
      <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
      </ext:assigningGeographicArea>
     </ext:asEntityIdentifier>
    </assignedPerson>
```

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

6.1.2 Custodian

Identification

Name Custodian

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

CDA document has exactly one custodian.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Essential	11

CDA Model

Figure 6.3, "CDA Model for Custodian"

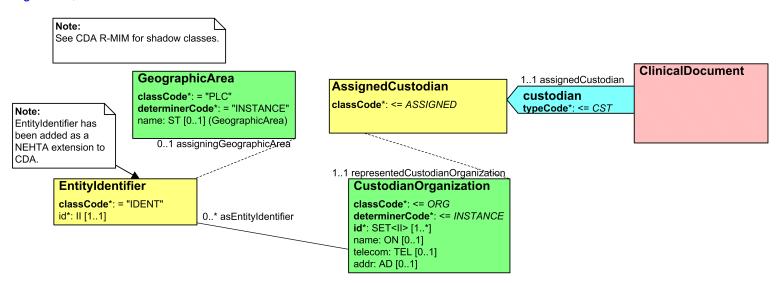


Figure 6.3. CDA Model for Custodian

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	Comments	
Context: ClinicalDocument					
custodian	Represents the organization that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian.	11			
custodian/assignedCustodian	A custodian is a scoping organization in the role of an assigned custodian.	11			
custodian/assignedCustodian/representedCustodianOrganization	The steward organization (CustodianOrganization class) is an entity scoping the role of AssignedCustodian.	11			
custodian/assignedCustodian/representedCustodianOrganization/id	A unique identifier for the scoping entity (representedCustodianOrganization) in this role.	1*	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>	
custodian/assignedCustodian/representedCustodianOrganization/ <entity identifier=""></entity>	The entity identifier of the custodian organization.	0*		See common pattern: Entity Identifier.	
custodian/assignedCustodian/representedCustodianOrganization/name	The name of the steward organization.	0*			
custodian/assignedCustodian/representedCustodianOrganization/ <electronic communication="" detail=""></electronic>	The telecom of the steward organization.	0*		See common pattern: Electronic Communication Detail.	
custodian/assignedCustodian/representedCustodianOrganization/ <address></address>	The address of the steward organization	0*		See common pattern: Address.	

Example

Example 6.3. Custodian Body XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
   <!-- Begin CDA Header -->
    <!-- Begin Custodian -->
  <assignedCustodian>
   <representedCustodianOrganization>
   <id root="072EC7BC-78EC-11DF-B9AC-D524DFD72085"/>
    <!-- Organisation Name -->
    <name>Oz Health Clinic</name>
    <!-- Electronic Communication Detail -->
    <telecom use="WP" value="tel:0712341234"/>
    <!-- Address -->
    <addr use="H">
    <streetAddressLine>99 Clinician Street</streetAddressLine>
     <city>Nehtaville</city>
     <state>QLD</state>
     <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
    </addr>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="HPI-0" root="1.2.36.1.2001.1003.0.8003621234567890"/>
     <ext:assigningGeographicArea classCode="PLC">
     <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
   </representedCustodianOrganization>
  </assignedCustodian>
 </custodian>
 <!-- End Custodian -->
   <!-- End CDA Header -->
   <!-- Begin CDA Body -->
   <component>
      <structuredBody>
```

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

6.1.3 EncompassingEncounter

Identification

Name EncompassingEncounter

Definition Represents the setting of the clinical encounter during which the documented act(s) or ServiceEvent occurred.

Relationships

Parent

Name	Obligation	Occurrence
ClinicalDocument	Essential	11

CDA Model

Figure 6.4, "CDA Model for EncompassingEncounter"

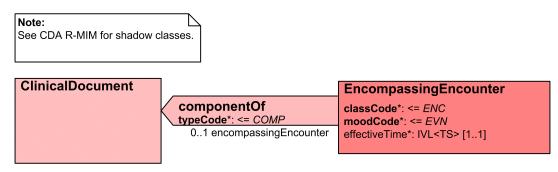


Figure 6.4. CDA Model for EncompassingEncounter

CDA Mapping

CDA Schema Data Element	Definition	Card	Vocab	Comments
Context: ClinicalDocument				
componentOf/encompassingEncounter	The setting of the clinical encounter during which the documented act(s) or ServiceEvent occurred.	11		
componentOf/encompassingEncounter/effectiveTime/@nullFlavor="NA"	The clinically or operationally relevant time of the encompassingEncounter, exclusive of administrative activity.	11		

Example

Example 6.4. Encompassing Encounter Body XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
 xmlns="urn:h17-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <!-- Begin CDA Header -->
 <componentOf>
  <encompassingEncounter>
  <!-- This is a mandatory element -->
  <effectiveTime nullFlavor="NA" />
  </encompassingEncounter>
 </componentOf>
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
  </structuredBody>
 </component>
 <!-- End CDA Body -->
</ClinicalDocument>
```

7 Context Data Specification - CDA Mapping

7.1 EPRESCRIPTION

Identification

Name EPRESCRIPTION

Metadata Type Structured Document

Identifier ES-16100

Relationships

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

Data Type	Name	Obligation	Occurrence
4	SUBJECT OF CARE	Essential	11
4	PRESCRIBER	Essential	11
4	PRESCRIBER ORGANISATION	Essential	11

CDA Model

Figure 7.1, "CDA Header Model for e-Prescription Context" shows a subset of CDA classes and attributes being referred to in the CDA Mapping. This data component maps to the CDA Header.

ClinicalDocument

classCode*: <= DOCCLIN moodCode*: <= EVN id*: II [1..1]

Figure 7.1. CDA Header Model for e-Prescription Context

CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments			
CDA Header Data Elements	CDA Header Data Elements							
e-Prescription	Electronic Prescription means an electronic prescription which is generated in accordance with a process by which a prescription is electronically generated by a prescriber, authenticated (electronically signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity.	11	ClinicalDocument					
e-Prescription > Subject of Care	See: SUBJECT OF CARE							
e-Prescription > Prescriber	See: PRESCRIBER							
e-Prescription > PrescriberOrganisa- tion	See: PRESCRIBER ORGANISATION							
e-Prescription > Prescription Identifier	A string generated by an EPS (Electronic Prescribing System) to uniquely identify a prescription.	11	ClinicalDocument/id		See <id> for available attributes.</id>			

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

Example 7.1. e-Prescription Context XML Fragment

7.1.1 SUBJECT OF CARE

Identification

Name SUBJECT OF CARE

Metadata Type Data Group Identifier DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
đ	EPRESCRIPTION	Essential	11

CDA Model

Figure 7.2, "CDA Model for Subject of Care - Header" and Figure 7.3, "CDA Model for Subject of Care - Body" show a subset of the CDA model containing those classes being referred to in the CDA Mapping. This data component maps to both CDA Header and CDA Body elements.

The recordTarget participation class represents the medical record to which this document belongs. The recordTarget is associated to the Patient class by the PatientRole class.

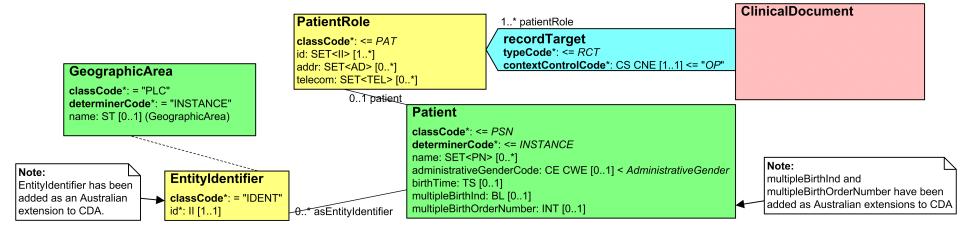


Figure 7.2. CDA Model for Subject of Care - Header

Entitlement is mapped to the Entitlement CDA extension and Date of Birth and Age Details are mapped to the Administrative Observations Section.

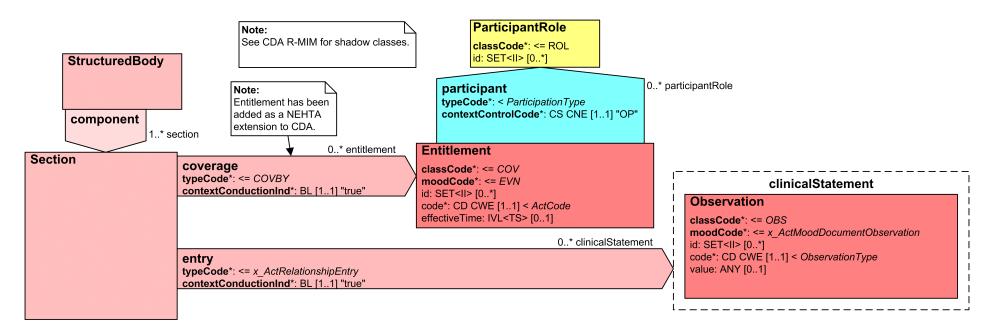


Figure 7.3. CDA Model for Subject of Care - Body

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments	
CDA Header Data Elements			Context: ClinicalDocument			
Subject of Care	The person the prescription is for. The intended recipient of the prescibed items.	11	recordTarget/patientRole			
n/a	n/a	11	recordTarget/patientRole/id	UUID This is a technical identifier that is used for system purposes such as matching.	Required CDA element. If there are any entitlements for Subject of Care this value MUST be the same as: ClinicalDocument/ component/ structuredBody/ component[pres_item]/ section/ entry/ act/ participant/ participant/ participantRole/ id where participantRole/ @classCode = "PAT".	
Subject of Care > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	n/a	Participation Type MUST have an imple- mentation specific fixed value meaning "Subject".	Not mapped directly, encompassed impli- citly in recordTarget/ typeCode = "RCT" (optional, fixed value).	
Subject of Care >Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	n/a	The value of Role will be an implementation specific value with a meaning of "Patient", "Client" or similar.	Not mapped directly, encompassed impli- citly in recordTarget/ patientRole/ classCode = "PAT" (optional, fixed value).	

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	recordTarget/patientRole/patient		
Subject of Care > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	11	recordTarget/patientRole/patient/ <entity identifier=""></entity>	The value of Entity Identifier MUST be an Australian IHI.	See common pat- tern: Entity Identifier. The Subject of Care's Medicare card number is recorded in Entitlement, not Entity Identifier.
Subject of Care > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	11	recordTarget/patientRole/ <address></address>	Address MUST have an Address Purpose value of "Residential" or "Temporary Ac- commodation".	See common pattern: Address.
Subject of Care > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	recordTarget/patientRole/ <electronic communication="" detail=""></electronic>		See common pattern: Electronic Communication Detail.
Subject of Care > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Subject of Care > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed implicitly in recordTarget/patientRole/ patient.
Subject of Care > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	11	recordTarget/patientRole/patient/ <person name=""></person>		See common pat- tern: Person Name.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data	Additional characteristics of a person that may be useful for identification or other clinical purposes.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Sex	The biological distinction between male and female. Where there is inconsistency between anatomical and chromosomal characteristics, sex is based on anatomical characteristics.	11	recordTarget/patientRole/patient/administrativeGenderCode	AS 5017-2006 Health Care Client Identifier Sex	
Subject of Care > Participant > Person > Person or Organisation or Device > Demographic Data > Date of Birth Detail	Details of the accuracy, origin and value of a person's date of birth.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth	The date of birth of the person.	11	recordTarget/patientRole/patient/ birthTime		See <time> for available attributes.</time>
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[admin_obs]/section (See 5 Administ	rative Observations)	

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth De-	Indicates whether or not a person's date of birth has been derived from the value in the Age data element.	01	entry[calc_age]		
			entry[calc_age]/@typeCode="DRIV"		
tail > Date of Birth is Calculated From			entry[calc_age]/observation		
Age			entry[calc_age]/observation/@classCode="OBS"		
			entry[calc_age]/observation/@moodCode="EVN"		
			entry[calc_age]/observation/code	NCTIS: Admin Codes - Sec- tions/Entries	See <code> for available attributes.</code>
			entry[calc_age]/observation/id	This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[calc_age]/observation/value:BL		If the date of birth has been calculated from age this is true, otherwise it is false.
Subject of Care > Participant > Person	The level of certainty or estimation of a person's date of birth.	01	entry[dob_acc]		
or Organisation or Device > Person > Demographic Data > Date of Birth De-			entry[dob_acc]/@typeCode="DRIV"		
tail > Date of Birth Accuracy Indicator			entry[dob_acc]/observation		
			entry[dob_acc]/observation/@classCode="OBS"		
			entry[dob_acc]/observation/@moodCode="EVN"		
			entry[dob_acc]/observation/code	NCTIS: Admin Codes - Sec- tions/Entries	See <code> for available attributes.</code>
			entry[dob_acc]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[dob_acc]/observation/value:CS	AS 5017-2006 Health Care Client Identifier Date Accur- acy Indicator	
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Day Accuracy Indicator	The accuracy of the day component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Month Accuracy Indicator	The accuracy of the month component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail > Date of Birth Accuracy Indicator > Date of Birth Year Accuracy Indicator	The accuracy of the year component of a person's date of birth.	11	n/a		Encompassed in the mapping for Date of Birth Accuracy Indicator (above).
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail	Details of the accuracy and value of a person's age.	01	n/a		This logical NEHTA data component has no mapping to CDA.
Subject of Care > Participant > Person		11	entry[age]		
or Organisation or Device > Person > Demographic Data > Age Detail > Age			entry[age]/@typeCode="DRIV"		
			entry[age]/observation		
			entry[age]/observation/@classCode="OBS"		
			entry[age]/observation/@moodCode="EVN"		
			entry[age]/observation/code	NCTIS: Admin Codes - Sec- tions/Entries	See <code> for available attributes.</code>
			entry[age]/observation/id	This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[age]/observation/value:INT		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Person or Organisation or Device > Person > Demographic Data > Age Detail > Age Accuracy Indicator	The accuracy of a person's age.	01	entry[age_acc]		
			entry[age_acc]/@typeCode="DRIV"		
			entry[age_acc]/observation		
			entry[age_acc]/observation/@classCode="OBS"		
			entry[age_acc]/observation/@moodCode="EVN"		
			entry[age_acc]/observation/code	NCTIS: Admin Codes - Sec- tions/Entries	See <code> for available attributes.</code>
			entry[age_acc]/observation/id	UUID	See <id> for avail-</id>
				This is a technical identifier that is used for system purposes such as matching.	able attributes.
		entry[age_acc]/observation/value:BL		If the age is considered to be accurate this is true, otherwise it is false.	
Subject of Care > Participant > Person or Organisation or Device > Person >	An indicator of multiple birth, showing the total number of births resulting from a single pregnancy.	01	entry[brth_plr]		
Demographic Data > Birth Plurality			entry[brth_pir]/@typeCode="DRIV"		
			entry[brth_plr]/observation		
			entry[brth_plr]/observation/@classCode="OBS"		
			entry[brth_plr]/observation/@moodCode="EVN"		
			entry[brth_plr]/observation/code	NCTIS: Admin Codes - Sec- tions/Entries	See <code> for available attributes.</code>
			entry[brth_pir]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[brth_plr]/observation/value:INT		
CDA Header Data Elements			Context: ClinicalDocument		
		01	recordTarget/patientRole/patient/ext:multipleBirthInd		See Australian CDA
or Organisation or Device > Person > Demographic Data > Birth Order			recordTarget/patientRole/patient/ext:multipleBirthOrderNumber		extension: Multiple Birth.
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pres_item]/section		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Subject of Care > Participant > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0*	ext:coverage2/@typeCode="COVBY"		See Australian CDA extension: Entitlement.
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="BEN"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="PAT"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id	This is a technical identifier that is used for system purposes such as matching.	MUST hold the same value as ClinicalDocument/ recordTarget/ patientRole/ id.
Subject of Care > Participant > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	11	ext:coverage2/ext:entitlement/ext:id		
Subject of Care > Participant > Entitlement > Entitlement Type	The description of the scope of an entitlement.	11	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	See <code> for available attributes.</code>
Subject of Care > Participant > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	01	ext:coverage2/ext:entitlement/ext:effectiveTime		

Example 7.2. Subject of Care XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
   <!-- Begin Subject of Care - Header Part -->
 <recordTarget>
  <patientRole>
  <!-- This system generated id is used for matching subject of care details such as Entitlement, Date of Birth Details and Age Details -->
  <id root="270D5FEE-78EC-11DF-ACA6-FF24DFD72085"/>
   <!-- Address -->
   <addr use="H">
   <streetAddressLine>1 Patient Street</streetAddressLine>
   <city>Nehtaville</city>
    <state>QLD</state>
    <postalCode>5555</postalCode>
    <additionalLocator>32568931</additionalLocator>
   </addr>
   <!-- Electronic Communication Details -->
   <telecom use="H" value="tel:0499999999"/>
   <patient>
    <!-- Person Name -->
    <name use="L">
     <prefix>Ms</prefix>
     <given>Sally</given>
     <family>Grant</family>
    </name>
    <!-- Sex -->
    <administrativeGenderCode code="F"</pre>
              codeSystem="2.16.840.1.113883.13.68"
              codeSystemName="AS 5017-2006 Health Care Client Identifier Sex"/>
    <!-- Date of Birth -->
    <birthTime value="19480607"/><!-- See Administrative Observations for further Date of Birth and Age Details -->
    <!-- Multiple Birth Indicator -->
    <ext:multipleBirthInd value="true"/>
    <ext:multipleBirthOrderNumber value="2"/>
    <!-- Entity Identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
     <ext:id assigningAuthorityName="IHI" extension="8003601234567890" root="1.2.36.1.2001.1003.0"/>
     <ext:assigningGeographicArea classCode="PLC">
     <ext:name>National Identifier</ext:name>
     </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
   </patient>
  </patientRole>
 </recordTarget>
 <!-- End Subject of Care - Header Part -->
```

<!-- Begin CDA Body --> <component> <structuredBody> <!-- Begin Prescription Item section --> <component><!-- [pres_item] --> <section> <!-- Begin Subject of Care Entitlement --> <ext:coverage2 typeCode="COVBY"> <ext:entitlement classCode="COV" moodCode="EVN"> <ext:id root="1.2.36.174030967.0.5" extension="1234567892"</pre> assigningAuthorityName="Medicare Australia"/> <ext:code code="1" codeSystem="1.2.36.1.2001.1001.101.104.16047" codeSystemName="NCTIS Entitlement Type Values" displayName="Medicare Benefits"> <ext:effectiveTime> <le><low value="200701010101"/> <high value="202701010101"/> </ext:effectiveTime> <ext:participant typeCode="BEN"> <ext:participantRole classCode="PAT"> <!-- Same as the recordTarget/patientRole/id --> <ext:id root="270D5FEE-78EC-11DF-ACA6-FF24DFD72085"/> </ext:participantRole> </ext:participant> </ext:entitlement> </ext:coverage2> <!-- End Subject of Care Entitlement --> </section> </component><!-- [pres_item] --> <!-- End Prescription Item section --> <!-- Begin Administrative Observations section --> <component><!-- [admin_obs] --> <section> <id root="88CDBCA4-EFD1-11DF-8DE4-E4CDDFD72085"/> <code code="102.16080"</pre> codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Administrative Observations"/> <title>Administrative Observations</title> <!-- Narrative text for Administrative Observations --> <text/> <!-- Begin Date of Birth is Calculated From Age --> <entry typeCode="DRIV"><!-- [calc_age] --> <observation classCode="OBS" moodCode="EVN"> <id root="DA10C13E-EFD0-11DF-91AF-B5CCDFD72085"/> <code code="103.16233" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Date of Birth is Calculated From Age"/>

```
<value value="true" xsi:type="BL"/>
     </observation>
    </entry><!-- [calc_age] -->
    <!-- End Date of Birth is Calculated From Age -->
    <!-- Begin Date of Birth Accuracy Indicator-->
    <entry typeCode="DRIV"><!-- [dob_acc] -->
     <observation classCode="OBS" moodCode="EVN">
      <id root="D253216C-EFD0-11DF-A686-ADCCDFD72085"/>
      <code code="102.16234"</pre>
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Date of Birth Accuracy Indicator"/>
      <value code="AAA" xsi:type="CS"/>
     </observation>
    </entry><!-- [dob_acc] -->
    <!-- End Date of Birth Accuracy Indicator-->
    <!-- Begin Age -->
    <entry typeCode="DRIV"><!-- [age] -->
     <observation classCode="OBS" moodCode="EVN">
      <id root="CCF0D55C-EFD0-11DF-BEA2-A6CCDFD72085"/>
       <code code="103.20109"</pre>
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Age"/>
      <value value="54" xsi:type="INT"/>
     </observation>
    </entry><!-- [age] -->
    <!-- End Age -->
    <!-- Age Accuracy Indicator -->
    <entry typeCode="DRIV"><!-- [age_acc] -->
     <observation classCode="OBS" moodCode="EVN">
      <id root="C629C9F4-EFD0-11DF-AA9E-96CCDFD72085"/>
      <code code="102.16242"
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Age Accuracy Indicator"/>
      <value value="true" xsi:type="BL"/>
     </observation>
    </entry><!-- [age_acc] -->
    <!-- Birth Plurality -->
    <entry typeCode="DRIV"><!-- [birth_plr] -->
     <observation classCode="OBS" moodCode="EVN">
      <id root="C1EE2646-EFD0-11DF-8D9C-95CCDFD72085"/>
      <code code="102.16242"</pre>
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Age Accuracy Indicator"/>
      <value value="3" xsi:type="INT"/>
     </observation>
    </entry><!-- [birth_plr] -->
   </component><!-- [admin_obs] -->
  <!-- End Administrative Observations section -->
     </structuredBody>
  </component>
  <!-- End CDA Body -->
</ClinicalDocument>
```

7.1.2 PRESCRIBER

Identification

NamePRESCRIBERMetadata TypeData GroupIdentifierDG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
1=	EPRESCRIPTION	Essential	11

CDA Model

Figure 7.4, "CDA Model for Prescriber" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

The PRESCRIBER data group is related to its context of ClinicalDocument/component/structuredBody/component[instr]/section by the author participation class. An author is a person in the role of assignedAuthor (AssignedAuthor class). The entity playing the role is assignedAuthorChoice (Person class). The entity identifier of the participant is mapped to the EntityIdentifier class (Australian CDA Extension) and is associated to the assignedAuthorChoice. Entitlement maps to the entitlement Australian CDA extension.

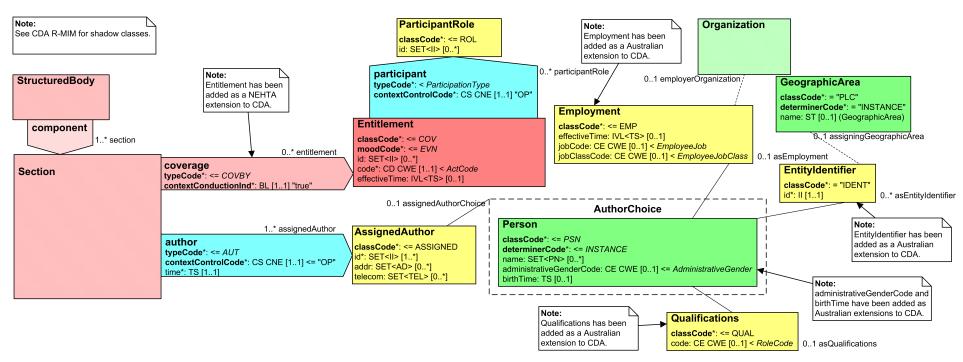


Figure 7.4. CDA Model for Prescriber

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Header Data Elements			Context: ClinicalDocument				
Prescriber	The healthcare provider who wrote the prescription.	11	author				
Prescriber > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	n/a	Although the SDT specifies that the value of this element must be "Prescriber", the CDA mapping will be AUT (author).	Not mapped directly, encompassed implicitly in author/ @typeCode = "AUT" (optional, fixed value).		
Prescriber > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	author/assignedAuthor/code	The value of Role will be an implementation specific value with a meaning of "General Practitioner", "Dermatologist" or a similar occupation. 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METEOR 350899 [ABS2006] Link			

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
n/a	n/a	11	author/assignedAuthor/id	UUID This is a technical identifier that is used for system purposes such as matching.	Required CDA element. MUST hold the same value as: ClinicalDocument/ component/ structuredBody/ component[pres_item]/ section/ entry/ act/ participant/ participant/ participantRole/ id where participantRole/ @classCode = "AUT".
Prescriber > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	author/assignedAuthor/assignedPerson		
Prescriber > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	11	author/assignedAuthor/assignedPerson/ <entity identifier=""></entity>	The value of Entity Identifier MUST be an Australian HPI-I.	See common pattern: Entity Identifier.
Prescriber > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	01	author/assignedAuthor/ <address></address>		See common pattern: Address.
Prescriber > Participant > Electronic Communication Detail	The electronic communication details of entities.	0*	author/assignedAuthor/ <electronic communication="" detail=""></electronic>		See common pat- tern: Electronic Communication De- tail.
Prescriber > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Prescriber > Participant > Person or Organisation or Device > Person	An individual who is in the role of healthcare provider, who uses or is a potential user of a healthcare service, or is in some way related to, or a representative of, a subject of care (patient).	11	n/a		Not mapped directly, encompassed impli- citly in author/as- signedAuthor/as- signedPerson.
Prescriber > Participant > Person or Organisation or Device > Person > Person Name	The appellation by which an individual may be identified separately from any other within a social context.	11	author/assignedAuthor/assignedPerson/ <person name=""></person>		See common pat- tern: Person Name.
Prescriber > Participant > Person or Organisation or Device > Person > Employment Detail	A person's occupation and employer.	01	author/assignedAuthor/assignedPerson/ext:asEmployment		See Australian CDA extension: Employment.
			author/assignedAuthor/assignedPerson/ext:asEmployment/@classCode="EMP"		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescriber > Participant > Person or Organisation or Device > Person > Employment Detail > Occupation	A descriptor of the class of job based on similarities in the tasks undertaken.	1*	author/assignedAuthor/assignedPerson/ext:asEmployment/ext:jobCode	1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Oc- cupations, First Edi- tion, 2006 - METeOR 350899 [ABS2006]	In this case a value the Prescriber's field of practice needs to be recorded.
Prescriber > Participant > Person or Organisation or Device > Person > Demographic Data	Additional characteristics of a person that may be useful for identification or other clinical purposes.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Prescriber > Participant > Person or Organisation or Device > Person > Demographic Data > Sex	The biological distinction between male and female. Where there is inconsistency between anatomical and chromosomal characteristics, sex is based on anatomical characteristics.	11	author/assignedAuthor/assignedPerson/ext:administrativeGenderCode	AS 5017-2006 Health Care Client Identifier Sex	See Australian CDA extension: Administrative Gender Code.
Prescriber > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth Detail	Details of the accuracy, origin and value of a person's date of birth.	11			This logical NEHTA data component has no mapping to CDA.
Prescriber > Participant > Person or Organisation or Device > Person > Demographic Data > Date of Birth De- tail > Date of Birth	The date of birth of the person.	11	author/assignedAuthor/assignedPerson/ext:birthTime		See Australian CDA extension: Birth Time.
					See <time> for available attributes.</time>
CDA Body Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pres_item]/section		
Prescriber > Participant > Person or Organisation or Device > Entitlement	The entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	0*	ext:coverage2/@typeCode="COVBY"		Entitlement is optional for private prescriptions.
			ext:coverage2/ext:entitlement		
			ext:coverage2/ext:entitlement/@classCode="COV"		
			ext:coverage2/ext:entitlement/@moodCode="EVN"		
			ext:coverage2/ext:entitlement/ext:participant/@typeCode="HLD"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/@classCode="ASSIGNED"		
			ext:coverage2/ext:entitlement/ext:participant/ext:participantRole/ext:id	UUID This is a technical identifier that is used for system purposes such as matching.	MUST hold the same value as ClinicalDocument/ author/ assignedAuthor/ id.
Prescriber > Participant > Person or Organisation or Device > Entitlement > Entitlement Number	A number or code issued for the purpose of identifying the entitlement or right of a participant to act in a given capacity (as defined by Entitlement Type) within a healthcare context.	11	ext:coverage2/ext:entitlement/ext:id		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescriber > Participant > Person or Organisation or Device > Entitlement > Entitlement Type	The description of the scope of an entitlement.	11	ext:coverage2/ext:entitlement/ext:code	NCTIS: Admin Codes - Entitlement Type	
Prescriber > Participant > Person or Organisation or Device > Entitlement > Entitlement Validity Duration	The time interval for which an entitlement is valid.	01	ext:coverage2/ext:entitlement/ext:effectiveTime		
CDA Header Data Elements			Context: ClinicalDocument		
Prescriber > Participant > Qualifica-	A list of professional certifications, and certificates	1	author/assignedAuthor/assignedPerson/ext:asQualifications		See Australian CDA
tions	recognising having passed a course.		author/assignedAuthor/assignedPerson/ext:asQualifications/@classCode="QUAL"		extension: Qualifications.
			author/assignedAuthor/assignedPerson/ext:asQualifications/ext:code/originalText	Qualifications is a text field, so the text list is entered in the originalText attribute of the code element.	

Example 7.3. Prescriber XML Fragment

<!-- This example is provided for illustrative purposes only. It has had no clinical validation. While every effort has been taken to ensure that the examples are consistent with the message specification, where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence --> <ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0" <!-- Begin Prescriber --> <time value="201001061149"/> <assignedAuthor> <!-- This system generated id is used for matching Prescriber details such as Entitlement --> <id root="30927E28-78EC-11DF-AEB0-0325DFD72085"/> <!-- Role --> <code code="2531" codeSystem="2.16.840.1.113883.13.62" codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006" displayName="General Medical Practitioner"/> <!-- Address --> <streetAddressLine>1 Prescriber Street</streetAddressLine> <city>Nehtaville</city> <state>QLD</state> <postalCode>5555</postalCode> <additionalLocator>32568931</additionalLocator> <!-- Electronic Communication Detail --> <telecom use="WP" value="tel:0712341234"/> <assignedPerson> <!-- Person Name --> <prefix>Dr.</prefix> <given>Prescribing</given> <family>Doctor</family> <suffix>Junior</suffix> </name> <!-- Sex --> <ext:administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.13.68" codeSystemName="AS 5017-2006 Health Care Client Identifier Sex"/> <!-- Date of Birth --> <ext:birthTime value="19480607"/> <!-- Entity Identifier --> <ext:asEntityIdentifier classCode="IDENT"> <ext:id assigningAuthorityName="HPI-I" extension="8003611234567890" root="1.2.36.1.2001.1003.0"/> <ext:assigningGeographicArea classCode="PLC"> <ext:name>National Identifier</ext:name>

```
</ext:assigningGeographicArea>
   </ext:asEntityIdentifier>
   <!-- Employment Detail -->
   <ext:asEmployment classCode="EMP">
   <ext:jobCode code="2531"
        codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification
               of Occupations, First Edition, 2006"
        displayName="General Medical Practitioner"/>
   </ext:asEmployment>
   <!-- Qualifications -->
   <ext:asQualifications classCode="QUAL">
   <ext:code>
    <originalText>M.B.B.S</originalText>
   </ext:code>
  </ext:asQualifications>
 </assignedPerson>
</assignedAuthor>
</author>
<!-- End Prescriber -->
 <!-- Begin CDA Body -->
 <component>
    <structuredBody>
       <!-- Begin Prescription section -->
       <component>
           <section>
              <!-- Begin Prescriber Entitlement -->
              <ext:coverage2 typeCode="COVBY">
                <ext:entitlement classCode="COV" moodCode="EVN">
                   <ext:id root="1.2.36.174030967.0.6" extension="1234567892"</pre>
                      assigningAuthorityName="Medicare Australia"/>
                    <ext:code code="10"
          codeSystem="1.2.36.1.2001.1001.101.104.16047"
          codeSystemName="NCTIS Entitlement Type Values"
          displayName="Medicare Prescriber Number">
                   <ext:effectiveTime>
                      <le><low value="200501010101"/>
                      <high value="202501010101"/>
                   </ext:effectiveTime>
                   <ext:participant typeCode="HLD">
                      <ext:participantRole classCode="ASSIGNED">
                         <!-- Same as the prescriber (assignedAuthor) id -->
                         <ext:id root="30927E28-78EC-11DF-AEB0-0325DFD72085"/>
                      </ext:participantRole>
                   </ext:participant>
                </ext:entitlement>
              </ext:coverage2>
              <!-- End Prescriber Entitlement -->
          </section>
       </component>
       <!-- End Prescription section -->
```

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

7.1.3 PRESCRIBER ORGANISATION

Identification

Name PRESCRIBER ORGANISATION

Metadata Type Data Group Identifier DG-10296

Relationships

Parent

Data Type	Name	Obligation	Occurrence
ð	EPRESCRIPTION	Essential	11

CDA Model

Figure 7.5, "CDA Model for Prescriber Organisation" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping. This data component maps to CDA Header elements.

The PRESCRIBER ORGANISATION 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 (Australian CDA extension) which is associated to the wholeOrganization.

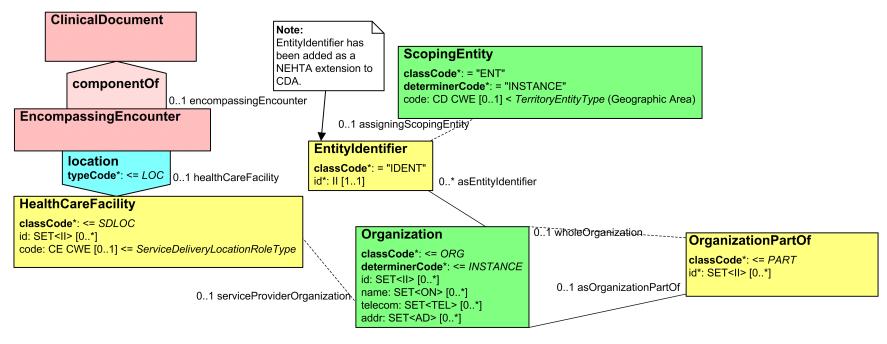


Figure 7.5. CDA Model for Prescriber Organisation

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Header Data Elements			Context: ClinicalDocument/componentOf/encompassingEncounter				
Prescriber Organisation	The organisation which the prescriber is working for when they write the prescription.	11	location				
Prescriber Organisation > Participation Type	The categorisation of the nature of the participant's involvement in the healthcare event described by this participation.	11	n/a	Although the SDT specifies that the value of this element must be "Prescribary", the CDA mapping will be LOC (location).	Not mapped directly, encompassed impli- citly in loca- tion/typeCode="LOC" (optional, fixed value).		
Prescriber Organisation > Role	The involvement or role of the participant in the related action from a healthcare perspective rather than the specific participation perspective.	11	location/healthCareFacility/code	The value of Role will be an implementation specific value with a meaning of "General Practice Clinic", "Dental Surgery" or similar.			
Prescriber Organisation > Participant	Details pertinent to the identification of an individual or organisation or device that has participated in a healthcare event/encounter/clinical interaction.	11	location/health Care Facility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization				
Prescriber Organisation > Participant > Entity Identifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	11	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/ <entity identifier=""></entity>	The value of Entity Identifier MUST be an Australian HPI-O.	See common pat- tern: Entity Identifier.		
Prescriber Organisation > Participant > Address	The description of a location where an entity is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	11	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/ <address></address>	Address MUST have an Address Purpose value of "Business".	Australian or Interna- tional Address MUST be instantiated as an Australian Address. See common pat- tern: Address.		

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescriber Organisation > Participant > Electronic Communication Detail	The electronic communication details of entities.	1*	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/< Electronic Communication Detail>	At least one Electronic Communication Detail MUST have an Electronic Communication Medium value of "Telephone" or "Mobile".	See common pat- tern: Electronic Communication De- tail.
Prescriber Organisation > Participant > Person or Organisation or Device	Represents a choice to be made at run-time between PERSON, ORGANISATION and DEVICE.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Prescriber Organisation > Participant > Person or Organisation or Device > Organisation	Any organisation of interest to, or involved in, the business of healthcare service provision.	11	n/a		Not mapped directly, encompassed impli- citly in location/ healthCareFacility/ serviceProviderOr- ganization/ asOrgan- izationPartOf/ whole- Organization.
Prescriber Organisation > Participant > Person or Organisation or Device > Organisation Name	The name by which an organisation is known or called.	11	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/name		
Prescriber Organisation > Participant > Person or Organisation or Device > Organisation > Department/Unit	The name by which a department or unit within a larger organisation is known or called.	01	location/healthCareFacility/serviceProviderOrganization/name		
Prescriber Organisation > Participant > Person or Organisation or Device > Organisation > Organisation Name Usage	The classification that enables differentiation between recorded names for an organisation or service location.	01	location/healthCareFacility/serviceProviderOrganization/asOrganizationPartOf/wholeOrganization/name/@use	AS 4846-2006: Health Care Provider Organisation Name Usage	

Example 7.4. Prescriber Organisation XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <componentOf>
  <encompassingEncounter>
  <!-- This is a mandatory element -->
  <effectiveTime nullFlavor="NA"/>
   <!-- Begin Prescriber Organisation -->
   <location>
    <healthCareFacility>
     <code code="FMC"</pre>
      codeSystem="2.16.840.1.113883.1.11.17660"
       codeSystemName="HL7 ServiceDeliveryLocatonRoleType"
      displayName="Family Medicine Clinic"/>
     <serviceProviderOrganization>
      <!-- Department/Unit Name -->
      <name>Family Clinic</name>
      <as0rganizationPartOf>
       <id root="19BEA55A-78EC-11DF-8AE7-F224DFD72085"/>
       <wholeOrganization>
        <!-- Organisation Name -->
        <name use="ORGB">Family Medicine Clinics Group
        <!-- Electronic Communication Detail -->
        <telecom use="WP" value="tel:0799999999"/>
        <!-- Address -->
        <addr use="WP">
         <streetAddressLine>1 Clinic Street/streetAddressLine>
         <city>Nehtaville</city>
         <state>QLD</state>
         <postalCode>5555</postalCode>
         <country>Australia/country>
         <additionalLocator>32568931</additionalLocator>
        </addr>
        <!-- Entity Identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-O" extension="800362666666" root="1.2.36.1.2001.1003.0"/>
         <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
        </ext:asEntityIdentifier>
       </wholeOrganization>
      </as0rganizationPartOf>
     </serviceProviderOrganization>
    </healthCareFacility>
   <!-- End Prescriber Organisation -->
```

```
</encompassingEncounter>
</componentOf>
<!-- End CDA Header -->
...

<component>
<structuredBody>
<component>
...

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

8 Content Data Specification - CDA Mapping

8.1 EPRESCRIPTION

Identification

Name EPRESCRIPTION

Metadata Type Structured Document

Identifier ES-16100

Relationships

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

Data Type	Name	Obligation	Occurrence
þ	PRESCRIPTION ITEM	Essential	11
<u>s</u>	OBSERVATIONS	Optional	01
þ	PRESCRIPTION NOTE DETAIL	Optional	01

CDA Model

Figure 8.1, "CDA Model for e-Prescription" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping. This data component maps to CDA Body elements.

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

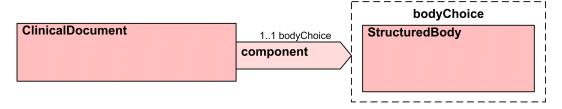


Figure 8.1. CDA Model for e-Prescription

CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments			
CDA Header Data Elements	CDA Header Data Elements							
e-Prescription	Electronic Prescription means an electronic prescription which is generated in accordance with a process by which a prescription is electronically generated by a prescriber, authenticated (electronically signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity.		ClinicalDocument					
CDA Body Level 2 Data Elements	CDA Body Level 2 Data Elements							
e-Prescription (Body)	See above.	11	ClinicalDocument/component/structuredBody					

Example 8.1. e-Prescription Body XML Fragment

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

8.1.1 PRESCRIPTION ITEM

Identification

Name PRESCRIPTION ITEM

Metadata Type Data Group
Identifier DG-16211

Relationships

Parent

Data Type	Name	Obligation	Occurrence
F	EPRESCRIPTION	Essential	11

CDA Model

Figure 8.2, "CDA Model for Prescription Item" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping.

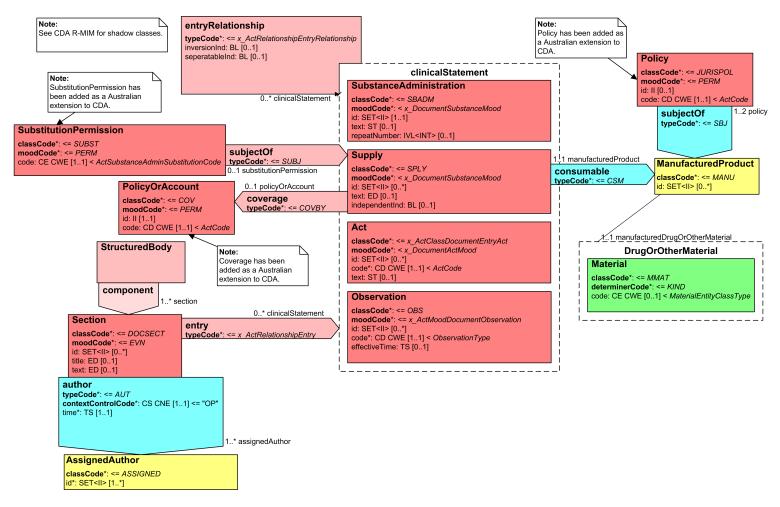


Figure 8.2. CDA Model for Prescription Item

CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Level 2 Data Elements			Context: ClinicalDocument/component/structuredBody		
Prescription Item	Details of a therapeutic good with its use by a subject of care and related information.	11	component[pres_item]/section/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
			component[pres_item]/section/title="Prescription Item"		
			component[pres_item]/section/text		See Appendix A, CDA Narratives
CDA Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pres_item]/section		
		11	entry[sbadm]/@typeCode="DRIV"		
			entry[sbadm]/substanceAdministration		
			entry[sbadm]/substanceAdministration/@moodCode="RQO"		
			entry[sbadm]/substanceAdministration/@classCode="SBADM"		
			entry[sbadm]/substanceAdministration/statusCode="active"		
Prescription Item > DateTime Prescrip-	The date (and optionally time) of the completion of	11	author/time/@value		
tion written	ion Written the writing of the prescription.		author/assignedAuthor/id		MUST hold the same value as Clin- icalDocument/ au- thor/ assignedAu- thor/ id
Prescription Item > DateTime Prescrip-	The date (and optionally time) after which the pre-	- 11	entry/@typeCode=DRIV		
tion Expires	scription can no longer be dispensed against.		entry[expiry]/observation		
			entry[expiry]/observation/@classCode="OBS"		
			entry[expiry]/observation/@moodCode="EVN"		
			entry[expiry]/observation/id	UUID	
				This is a technical identifier that is used for system purposes such as matching.	
			entry[expiry]/observation/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
			entry[expiry]/observation/effectiveTime/@value		
Prescription Item > Prescription Item Identifier	A number generated by an EPS (Electronic Prescribing System) to uniquely identify information about a therapeutic good that is included within a prescription.	11	entry[sbadm]/substanceAdministration/id		See <id> for available attributes.</id>

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
NEHTA SDT Data Component Prescription Item > Therapeutic Good Identification	Data Component Definition Identifies a therapeutic good, which is broadly defined as a good which is represented in any way to be, or is likely to be taken to be, for therapeutic use Definition (unless specifically excluded or included under Section 7 of the Therapeutic Goods Act 1989).	Card 11	CDA Schema Data Element entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	The set of values is ConceptIDs and Pre- ferred Terms from AMT (Australian Medicines Termino- logy) concepts which have one of the follow- ing modelled relation- ships: IS A Medicinal Product Unit of Use (MPUU); IS A Medicinal Product Pack (MPP); IS A Trade Product Unit of Use (TPUU); IS A Trade Product Pack (TPP); IS A Containered Trade Product Pack (CTPP). Specifically for MPUU: only MPUU concepts that have no	Comments See <code> for available attributes.</code>
				children MPUU are to be included. Where	
				MPUU is to be omit- ted.	

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescription Item > Formula	The recipe for compounding a medicine.	01	entry[sbadm]/substanceAdministration/entryRelationship[form]/@typeCode="COMP"		
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act		
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act/@classCode="INFRM"		
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act/@moodCode="RQO"		
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act/id	UUID	
				This is a technical identifier that is used for system purposes such as matching.	
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
			entry[sbadm]/substanceAdministration/entryRelationship[form]/act/text:ST		
Prescription Item > Dosage	The regimen governing the amount (in a single administration, i.e. dose quantity), [the] frequency and the number of doses of a therapeutic agent to be administered to a subject of care.	01	n/a		This logical NEHTA data component has no mapping to CDA.
Prescription Item > Dosage > Dose Instruction	A description of the dose quantity, frequency and route instruction that determines how the prescribed therapeutic substance is administered to, or taken by, the subject of care.	11	entry[sbadm]/substanceAdministration/text:ST		Dose Instruction and Instructions for Use are mutually exclusive - Dose Instruction is to be used for a medication and Instructions for Use is to be used for a therapeutic good other than a medication.
Prescription Item > Instructions for Use	Directions for the use of a therapeutic good other than a medication.	01	entry[sbadm]/substanceAdministration/text:ST		Dose Instruction and Instructions for Use are mutually exclusive - Dose Instruction is to be used for a medication and Instructions for Use is to be used for a therapeutic good other than a medication.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments					
Prescription Item > Quantity of Thera-		l -	entry[sbadm]/substanceAdministration/entryRelationship[sply]/@typeCode="COMP"							
peutic Good			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply							
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/@moodCode="RQO"							
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/@classCode="SPLY"							
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>					
								entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/text		Contains the actual quantity string value.
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/independentInd/@value="false"		Signals that the supply cannot stand alone without its containing substanceAdministration.					

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Allowed scribed medication with a diff- generic drug, which has been d	Indicates whether or not the substitution of a prescribed medication with a different brand name or generic drug, which has been determined as bioequivalent, is allowed when the medication is dispensed/supplied.	11	entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2		If this entry is present Brand Substitute Allowed is true, if this entry is not present Brand Substitute Allowed is false See Australian CDA extension: Brand-SubstituteAllowed.
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/@classCode="SUBST"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/@moodCode="PERM"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/ext:code		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/ext:code/@code="TE"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/ext:code/codeSystem="2.16.840.1.113883.5.1070"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/ext:code/codeSystemName="HL7:SubstanceAdminSubstitution"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:subjectOf2/ext:substitutionPermission/ext:code/displayName="Therapeutic"		
		11	entry[sbadm]/substanceAdministration/repeatNumber		This value is the
	item may be repeated under the terms of this prescription.		entry[sbadm]/substanceAdministration/repeatNumber/high		maximum number of repeats + 1 be-
				entry[sbadm]/substanceAdministration/repeatNumber/high/@value	

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescription Item > Minimum Interval	The minimum time before the therapeutic good can be dispensed again.	01	entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime:PIVL_TS		
Between Repeats			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/numerator:INT		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/numerator/@value="1"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/denominator:URG_PQ		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/denominator/low		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/denominator/low/@value	Time interval	
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/effectiveTime/frequency/denominator/low/@unit	Unit of measure of time. i.e. "wk", "day". See UCUM: http://aurora.regenstrief.org/~ucum/ ucum.html for full list.	
Prescription Item > Medical Benefit Category Type		11	entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/@typeCode="COVBY"		See Australian CDA extension: Coverage.
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/ext:policyOrAccount		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/ext:policyOrAccount/@classCode="COV"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/ext:policyOrAccount/@moodCode="PERM"		
			entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/ext:policyOrAccount/ext:code	NCTIS: Admin Codes - Medical Benefit Cat- egory Type	See <code> for available attributes.</code>
Prescription Item > Grounds for Concurrent Supply	Indicates the grounds which authorise a PBS or RPBS subsidy for the concurrent supply of the items	11	entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[grnd]		See Australian CDA extension: Policy.
	specified in a prescription and all of its repeats.		entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[grnd]/ext:policy		
			entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[grnd]/ext:policy/@classCode="JURISPOL"		
			entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[grnd]/ext:policy/@moodCode="PERM"		
			entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[grnd]/ext:policy/ext:code	NCTIS: Admin Codes - Concurrent Supply Grounds	See <code> for available attributes.</code>

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Prescription Item > PBS/RPBS Authority Approval Number	An identification number obtained by the prescriber [from Medicare Australia] and included in the prescription to show that the prescription meets agreed prescribing requirements and has authority to prescribe the medication and/or the quantity of the medication.	01	entry[sbadm]/substanceAdministration/entryRelationship[sply]/supply/ext:coverage[bene]/ext:policyOrAccount/ext:id/@extension		Contains the actual authority approval number.
Prescription Item > State Authority Number	An identification number issued by an Australian state or territory health authority as proof that the		entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]		See Australian CDA extension: Policy.
	prescriber has obtained written authority to prescribe drugs of dependence for a drug-dependent person,		entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]/ext:policy		
	or for the treatment of a person with drug addiction for a period in accordance with State or Territory regulations.		entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]/ext:policy/@classCode="JURISPOL"		
	regulations.		entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]/ext:policy/@moodCode="PERM"		
			entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]/ext:policy/ext:id/@extension		
			entry[sbadm]/substanceAdministration/consumable/manufacturedProduct/ext:subjectOf1[auth]/ext:policy/ext:code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
Prescription Item > Reason for Thera-	The clinical justification (e.g. specific therapeutic ef-	01	entry[sbadm]/substanceAdministration/entryRelationship[reason]/@typeCode="RSON"		
peutic Good	fect intended) for this subject of care's use of the therapeutic good.		entry[sbadm]/substanceAdministration/entryRelationship[reason]/act		
			entry[sbadm]/substanceAdministration/entryRelationship[reason]/act/@classCode="INFRM"		
			entry[sbadm]/substanceAdministration/entryRelationship[reason]/act/@moodCode="RQO"		
			entry[sbadm]/substanceAdministration/entryRelationship[reason]/act/id	UUID	
				This is a technical identifier that is used for system purposes such as matching.	
			entry[sbadm]/substanceAdministration/entryRelationship[reason]/act/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
			entry[sbadm]/substanceAdministration/entryRelationship[reason]/act/text:ST"		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
	Any additional information that may be needed to	01	entry[sbadm]/substanceAdministration/entryRelationship[cmts]/@typeCode="COMP"		
ments	ensure the continuity of supply, proper use, or appropriate medication management.		entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act		
			entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act/@classCode="INFRM"		
			entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act/@moodCode="EVN"		
			entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
			entry[sbadm]/substanceAdministration/entryRelationship[cmts]/act/text:ST		

Example 8.2. Prescription Item XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
  <!-- Begin Prescription Item section -->
   <component><!-- [pres_item] -->
   <section>
     <code code="101.16211"</pre>
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Prescription Item"/>
     <!-- Begin Prescription Item Narrative -->
     <title>Prescription Item</title>
     <text/>
     <!-- End Prescription Narrative -->
     <!-- Begin DateTime Prescription Written -->
      <time value="201001061149"/>
      <assignedAuthor>
      <!-- This id contains the same value as the Prescriber participant
         (ClinicalDocument/author/assignedAuthor/id) id -->
      <id root="30927E28-78EC-11DF-AEB0-0325DFD72085"/>
      </assignedAuthor>
     </author>
     <!-- End DateTime Prescription Written -->
     <!-- Begin DateTime Prescription Expires -->
     <entry typeCode="DRIV">
      <observation classCode="OBS" moodCode="EVN">
      <id root="8579C552-EFC7-11DF-9F15-69BEDFD72085"/>
       <code code="103.10104"
        codeSystem="1.2.36.1.2001.1001.101"
         codeSystemName="NCTIS Data Components"
        displayName="DateTime Prescription Expires"/>
       <effectiveTime value="20101230"/>
      </observation>
     <!-- End DateTime Prescription Expires -->
     <!-- Begin Prescription Item entry -->
     <entry typeCode="DRIV"><!-- [sbadmn] -->
```

```
<substanceAdministration classCode="SBADM" moodCode="RQO">
 <!-- Prescription Item Identifier-->
<id root="080C5AC2-C835-11DE-81C9-B16456D89593"/>
 <!-- Dose instruction -->
<text>2 tablets daily after breakfast</text>
 <!-- OR (can only have one of Dose Instruction OR Instructions for Use) -->
<!-- Instructions for Use -->
<!-- <text>For use with Spiriva Capsules containing powder for oral inhalation.</text>-->
 <statusCode code="active"/>
 <!-- Begin Maximum number of repeats -->
 <repeatNumber>
 <high value="2"/>
 </repeatNumber>
 <!-- End Maximum number of repeats -->
 <consumable>
 <manufacturedProduct>
  <manufacturedMaterial>
   <!-- Therapeutic Good Identification -->
    <originalText>Paracetamol 500mg + codeine phosphate 30 mg tablet</originalText>
   </code>
  </manufacturedMaterial>
  <!-- Begin Grounds for Concurrent Supply -->
  <ext:subjectOf1><!-- [grnd] -->
   <ext:policy classCode="JURISPOL" moodCode="PERM">
    <!-- This is the identification number issued by an Australian state or territory health authority -->
     <ext:id extension="xxxxxx"/>
     <ext:code code="1"
        codeSystem="1.2.36.1.2001.1001.101.104.16085"
         codeSystemName="NCTIS Concurrent Supply Grounds Values"
        displayName="Pursuant to Regulation 24"/>
   </ext:policy>
  </ext:subjectOf1><!-- [grnd] -->
  <!-- End Grounds for Concurrent Supply -->
  <!-- Begin State Authority Number -->
  <ext:subjectOf1><!-- [auth] -->
   <ext:policy classCode="JURISPOL" moodCode="PERM">
    <!-- This is the identification number issued by an Australian state or territory health authority -->
    <ext:id extension="xxxxxx"/>
     <ext:code code="103.15018"</pre>
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="State Authority Number"/>
   </ext:policy>
  </ext:subjectOf1><!-- [auth] -->
  <!-- Begin State Authority Number -->
  </manufacturedProduct>
 </consumable>
 <!-- Begin Formula-->
 <entryRelationship typeCode="COMP"><!-- [form] -->
  <act classCode="INFRM" moodCode="RQO">
  <id root="0C704162-EFC8-11DF-8D6E-2EBFDFD72085"/>
  <code code="103.16272"</pre>
    codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components"
```

```
displayName="Formula"/>
  <text>BORIC ACID, OLIVE OIL AND ZINC OXIDE (BOZ) Ointment:
   Boric Acid 1% in Paraffin Ointment B.P. 25
   Olive Oil 25
   Zinc Oxide Ointment to 100</text>
 </act>
</entryRelationship><!-- [form] -->
<!-- End Formula -->
<!-- Begin Reason for Therapeutic Good -->
<entryRelationship typeCode="RSON"><!-- [reason] -->
 <act classCode="INFRM" moodCode="ROO">
 <id root="D20ED674-EFCB-11DF-A97F-26C5DFD72085"/>
  <code code="103 10141"</pre>
   codeSystem="1.2.36.1.2001.1001.101"
   codeSystemName="NCTIS Data Components"
   displayName="Reason for Therapeutic Good"/>
 <text>Pain management.</text>
 </act>
</entryRelationship><!-- [reason] -->
<!-- End Reason for Therapeutic Good -->
<entryRelationship typeCode="COMP"><!-- [sply] -->
 <supply classCode="SPLY" moodCode="RQO">
 <id root="7926A99A-C841-11DE-A20D-198455D89593"/>
  <!-- Quantity of therapeutic good -->
  <text>25 tablets</text>
  <!-- Begin Minimum interval between repeats -->
  <effectiveTime xsi:type="PIVL_TS">
  <frequency>
   <numerator value="1" xsi:type="INT"/>
   <denominator xsi:type="URG_PQ">
    <low unit="wk" value="1"/>
   </denominator>
  </frequency>
  </effectiveTime>
  <!-- End Minimum interval between repeats -->
  <!-- Signals that the supply cannot stand alone without its containing substanceAdministration -->
  <independentInd value="false"/>
  <!-- Begin Brand Substitute allowed -->
  <ext:subjectOf2>
  <ext:substitutionPermission classCode="SUBST" moodCode="PERM">
   <ext:code code="TE"
    codeSystem="2.16.840.1.113883.5.1070"
    codeSystemName="HL7:SubstanceAdminSubstitution"
    displayName="Therapeutic"/>
   </ext:substitutionPermission>
  </ext:subjectOf2>
  <!-- End Brand Substitute allowed -->
  <!-- Begin Medical Benefit Category Type -->
  <ext:policyOrAccount classCode="COV" moodCode="PERM">
   <!-- PBS/RPBS Authority approval number -->
   <ext:id extension="Z1234AB"/>
   <!-- Medical Benefit Category Type-->
   <ext:code code="1"
       codeSystem="1.2.36.1.2001.1001.101.104.16095"
       codeSystemName="NCTIS Medical Benefit Category Type Values"
       displayName="PBS"/>
   </ext:policyOrAccount>
```

```
</ext:coverage>
        <!-- End Medical Benefit Category Type -->
       </entryRelationship><!-- [sply] -->
      <!-- Begin Additional Comments -->
      <entryRelationship typeCode="COMP"><!-- [cmts] -->
       <act classCode="INFRM" moodCode="EVN">
        <id root="12AC380C-D1E1-11DE-B505-09BE56D89593"/>
        <code code="103.15044"</pre>
          codeSystem="1.2.36.1.2001.1001.101"
          codeSystemName="NCTIS Data Components"
          displayName="Additional comments"/>
        <text>Patient requires an administration aid.
      </entryRelationship><!-- [cmts] -->
      <!-- End Additional Comments -->
     </substanceAdministration>
    </entry><!-- [sbadmn] -->
    <!-- End Prescription Item entry -->
   </section>
  </component><!-- [pres_item] -->
  <!-- End Prescription Item section -->
 </structuredBody>
</component>
<!-- End CDA Body -->
</ClinicalDocument>
```

8.1.2 OBSERVATIONS

Identification

Name Observations

Metadata Type Section
Identifier S-16280

Relationships

Children Not Included in Mapping for This Section

Data Type	Name	Obligation	Occurrence
F	BODY WEIGHT	Optional	01
‡	BODY HEIGHT	Optional	01

Parent

Data Type	Name	Obligation	Occurrence
þ	EPRESCRIPTION	Optional	01

CDA Model

Figure 8.3, "CDA Model for Observations" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping.

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

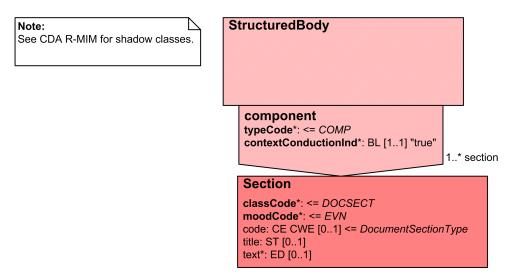


Figure 8.3. CDA Model for Observations

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			
Observations A collection of observations of the Subject of Care which are relevant to the prescription.		component[obs]/section/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>		
			component[obs]/section/title="Observations"			
			component[obs]/section/text		See Appendix A, CDA Narratives	

Example 8.3. Observations XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
   <!-- Begin Observations section -->
   <component><!-- [obs] -->
   <section>
     <code code="101.16280"
      codeSystem="1.2.36.1.2001.1001.101"
       codeSystemName="NCTIS Data Components"
      displayName="Observations"/>
     <!-- Observations narrative -->
     <title>Observations</title>
     <text>
     </text>
    </section>
   </component><!-- [obs] -->
   <!-- End Observations section -->
  </structuredBody>
 </component>
 <!-- End CDA Body -->
</ClinicalDocument>
```

8.1.2.1 BODY WEIGHT

Identification

NameBODY WEIGHTMetadata TypeData GroupIdentifierDG-16124

Relationships

Parent

Data Type	Name	Obligation	Occurrence	
	OBSERVATIONS	Optional	01	

CDA Model

Figure 8.4, "CDA Model for Body Weight" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping.

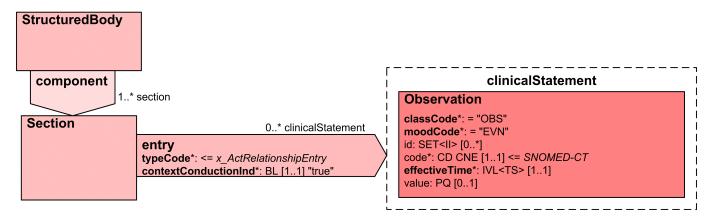


Figure 8.4. CDA Model for Body Weight

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[obs]/section				
Body Weight	Details pertinent to the physical measurement of the weight (mass) of a Subject of Care's body.	01	entry[weight]/@typeCode="DRIV"		For children 12 years old or younger a body weight MUST be recorded.		
			entry[weight]/observation				
			entry[weight]/observation/@classCode="OBS"				
			entry[weight]/observation/@moodCode="EVN"				
			entry[weight]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>		
			entry[weight]/observation/code				
			entry[weight]/observation/code/@code="27113001"]			
			entry[weight]/observation/code/@codeSystem="2.16.840.1.113883.6.96"	_			
			entry[weight]/observation/code/@codeSystemName="SNOMED CT-AU"				
			entry[weight]/observation/code/@codeSystemVersion="20101130"	1			
			entry[weight]/observation/code/@displayName="Body Weight"]			
Body Weight > Body Weight Value	The weight (body mass) of a person measured in kilograms.	11	entry[weight]/observation/value:PQ				
Body Weight > DateTime of Observation	The date (and optionally time) that an observation value is taken.	11	entry[weight]/observation/effectiveTime/@value		See <time> for available attributes.</time>		

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

Example 8.4. Body Weight XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/1.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
   <component><!-- [obs] -->
    <section>
     <code code="101.16280" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components"</pre>
     displayName="Observations"/>
     <!-- Observations narrative -->
     <title>Observations</title>
     <text>
      st>
       <caption>Body weight</caption>
       <item>
        <caption>Value</caption> 62kg </item>
       <caption>Date time of observation
6 January 2010, 10:55
       </item>
      </list>
     </text>
     <!-- Begin Body Weight -->
     <entry typeCode="DRIV"><!-- [weight] -->
      <observation classCode="OBS" moodCode="EVN">
      <id root="D839D2A0-FA8B-11DE-905B-4FD056D89593"/>
       <code code="27113001"</pre>
         codeSystem="2.16.840.1.113883.6.96"
         codeSystemName="SNOMED CT-AU"
        codeSystemVersion="20101130"
        displayName="Body weight"/>
       <!-- Date time of observation -->
       <effectiveTime value="201001061055"/>
       <!-- Body weight value -->
```

8.1.2.2 BODY HEIGHT

Identification

Name BODY HEIGHT

Metadata Type Data Group

Identifier DG-16123

Relationships

Parent

Data Type	Name	Obligation	Occurrence	
ð	OBSERVATIONS	Optional	01	

CDA Model

Figure 8.5, "CDA Model for Body Height" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping.

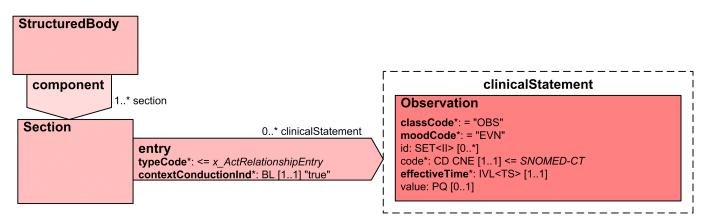


Figure 8.5. CDA Model for Body Height

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments		
CDA Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[obs]/section				
Body Height	Details pertinent to the physical measurement of the	01	entry[height]/@typeCode="DRIV"				
	height OR length of a Subject of Care's body.		entry[height]/observation				
			entry[height]/observation/@classCode="OBS"				
			entry[height]/observation/@moodCode="EVN"				
			entry[height]/observation/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>		
			entry[height]/observation/code				
			entry[height]/observation/code/@code="50373000"				
			entry[height]/observation/code/@codeSystem="2.16.840.1.113883.6.96"				
			entry[height]/observation/code/@codeSystemName="SNOMED CT-AU"				
			entry[height]/observation/code/@codeSystemVersion="20101130"				
			entry[height]/observation/code/@displayName="Body Height"				
Body Height > Body Height Value	The height or length of a person.	11	entry[height]/observation/value:PQ				
Body Height > DateTime of Observation	The date (and optionally time) that an observation value is taken.	11	entry[height]/observation/effectiveTime/@value		See <time> for available attributes.</time>		

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

Example 8.5. Body Height XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
 xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
   <component><!-- [obs] -->
     <code code="101.16280"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
        displayName="Observations"/>
     <!-- Observations narrative -->
     <title>Observations</title>
     <text>
      st>
       <caption>Body height</caption>
        <caption>Value</caption> 168cm </item>
       <caption>Date time of observation
6 January 2010, 10:52
       </item>
      </list>
     </text>
     <!-- Begin Body Height -->
     <entry typeCode="DRIV"><!-- [height] -->
      <observation classCode="OBS" moodCode="EVN">
       <id root="ABE88582-FA8D-11DE-958A-D85455D89593"/>
       <code code="50373000"
        codeSystem="2.16.840.1.113883.6.96"
         codeSystemName="SNOMED CT-AU"
         codeSystemVersion="20101130"
         displayName="Body height"/>
```

8.1.3 PRESCRIPTION NOTE DETAIL

Identification

Name PRESCRIPTION NOTE DETAIL

Metadata Type Data Group Identifier DG-16212

Relationships

Parent

Data Type	Name	Obligation	Occurrence
þ	EPRESCRIPTION	Optional	01

CDA Model

Figure 8.6, "CDA Model for Prescription Note Detail" shows a subset of the CDA model containing those classes being referred to in the CDA Mapping.

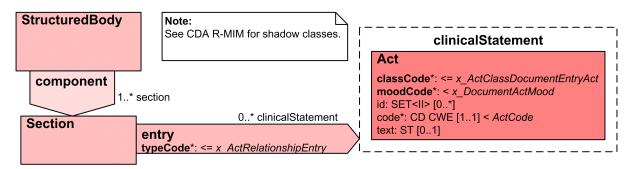


Figure 8.6. CDA Model for Prescription Note Detail

CDA Mapping



Note

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

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

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Level 3 Data Elements			Context: ClinicalDocument/component/structuredBody/component[pres_item]/section		
Prescription Note Detail	Details pertinent to additional or supplementary in-	01	entry[note]		
	formation about the prescription, which is not captured by other information structures contained in		entry[note]/@typeCode="DRIV"		
	the prescription.		entry[note]/act		
			entry[note]/act/@classCode="INFRM"		
			entry[note]/act/@moodCode="EVN"		
			entry[note]/act/id	UUID This is a technical identifier that is used for system purposes such as matching.	See <id> for available attributes.</id>
			entry[note]/act/code	NCTIS: Admin Codes - Sections/Entries	See <code> for available attributes.</code>
Prescription Note Detail > Note	Free text comments relevant to the prescription.	11	entry[note]/act/text:ST		

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

Example 8.6. Prescription Note Detail XML Fragment

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<ClinicalDocument
xmlns="urn:hl7-org:v3"
 xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/2.0"
 <!-- Begin CDA Header -->
 <!-- End CDA Header -->
 <!-- Begin CDA Body -->
 <component>
  <structuredBody>
  <!-- Begin Prescription Item section -->
  <component><!-- [pres_item] -->
   <section>
     <code code="101.16211"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Prescription Item"/>
     <!-- Begin Prescription Note Detail -->
     <entry typeCode="DRIV"><!-- [note] -->
      <act classCode="INFRM" moodCode="EVN">
      <id root="12AC380C-D1E1-11DE-B505-09BE56D89593"/>
       <code code="102.16212"</pre>
        codeSystem="1.2.36.1.2001.1001.101"
         codeSystemName="NCTIS Data Components"
         displayName="Prescription Note Detail"/>
       <!-- Prescription note -->
      <text xsi:type="ST">Subject of care does not speak English, provide appropriate counselling.</text>
      </act>
     </entry><!-- [note] -->
     <!-- End Prescription Note Detail -->
   </section>
   </component><!-- [pres_item] -->
  <!-- End Prescription Item section -->
  </structuredBody>
 </component>
 <!-- End CDA Body -->
```

</ClinicalDocument>

9 Common Patterns

9.1 code

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

- a null attribute (*nullFlavor*)
- originalText
- code and codeSystem
- · 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 <u>www.hl7.org</u>¹.

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 or there is no vocabulary specified.

¹ http://www.hl7.org

Example 9.1. code

```
code
code="271807003"
codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT-AU"
codeSystemVersion="20101130"
displayName="skin rash" />
```

9.2 id

The <code> 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.

Example 9.2. id

```
<id root="2.16.840.1.113883.19" extension="123A45" />
<ext:id root="1.2.36.123456789" assigningAuthorityName="Australian Business Number (ABN)" />
```

9.3 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 9.3. Simple timestamp

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

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

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

Example 9.4. Low time

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

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

Example 9.5. Interval timestamp 1

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 9.6. Interval timestamp 2

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

This represents "the calendar years between 2007 and 2009". The low element **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 9.7. Width time

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

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

9.4 Entity Identifier

CDA Mapping

NEHTA SDT Data Compon- ent	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
CDA Data Elemen	nts				
Entity Identifier	A number or code issued for the purpose of identifying an entity (person,	Cardinality comes from linking par-	ext:asEntityIdentifier		See Australian CDA extension: Entity-Identifier.
	organisation or organisation sub-unit) within a	ent.	ext:asEntityIdentifier/@classCode="IDENT"		
	healthcare context.		ext:asEntityIdentifier/ext:id		
			ext:asEntityIdentifier/ext:id/@root	Attribute @root MUST be used, MUST be an OID and MUST NOT be a UUID.	
				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.	
			ext:asEntityIdentifier/ext:id/@extension	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.	
			ext:asEntityIdentifier/ext:id/@assigningAuthorityName	Attribute @assigningAuthorityName MAY be used and if it is used, is a human readable name for the namespace represented in the root that is populated with the issuer, or identifier type, or a concatenation of both as appropriate. This SHOULD NOT be used for machine readability purposes.	
			ext:asEntityIdentifier/ext:assigningGeographicArea		
			ext:asEntityIdentifier/ext:assigningGeographicArea/@classCode="PLC"		
			ext:asEntityIdentifier/ext:assigningGeographicArea/ext:name	Element ext:name MAY be used and if it is used, is the range and extent that the identifier applies to the object with which it is associated that is populated directly from the geographic area. This SHOULD NOT be used for machine readability purposes.	
				AS 5017-2006: Health Care Client Identifier Geographic Area	

Example 9.8. Entity Identifier

```
<!-- This example is provided for illustrative purposes only. It has had no clinical validation.
While every effort has been taken to ensure that the examples are consistent with the message specification,
where there are conflicts with the written message specification or schema, the specification or schema shall be considered to take precedence -->
<!-- person -->
<ext:asEntityIdentifier classCode="IDENT">
   <ext:id root="1.2.36.174030967.0.5" extension="1234567892" assigningAuthorityName="Australian Medicare number" />
   <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
   </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
<!-- organisation -->
<ext:asEntityIdentifier classCode="IDENT">
   <ext:id root="1.2.36.1.2001.1003.0.8003621234567890" assigningAuthorityName="HPI-0" />
   <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
   </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
```

9.5 Person Name

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

Example 9.9. Person Name

9.6 Address

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 is located or can be otherwise reached or found and a description of the purpose for which that address is primarily used by that entity.	Cardinality comes from linking parent.	addr		
Address > No Fixed Address Indicator	A flag to indicate whether or not the participant has no fixed address.	11	addr/@nullFlavor	If true, nullFlavor="NA" If false omit nullFlavor and fill in address.	
Address > Australian or International Address	Represents a choice to be made at run-time between an AUSTRALIAN ADDRESS and an INTERNATION-AL ADDRESS.	11	n/a		This logical NEHTA data component has no mapping to CDA.
Address > Australian or International Address > International Address	The description of a non-Australian location where an entity is located or can be otherwise reached or found.	01	n/a		This logical NEHTA data component has no mapping to CDA.
Address > Australian or International Address > International Address > Inter- national Address Line	A composite of address details comprising a low level geographical/physical description of a location that, used in conjunction with the other high level address components, i.e. international state/province, international postcode and country, forms a complete geographic/physical address	0*	addr/streetAddressLine		
Address > Australian or International Address > International Address > Inter- national State/Province	The designation applied to an internal, political or geographic division of a country other than Australia that is officially recognised by that country	01	addr/ state		
Address > Australian or International Address > International Address > Inter- national Postcode	The alphanumeric descriptor for a postal delivery area (as defined by the postal service of a country other than Australia) aligned with locality, suburb or place for an address	01	addr/postalCode		
Address > Australian or International Address > International Address > Country	The country component of the address.	01	addr/country	Australia Bureau of Statistics, Standard Australian Classification of Countries (SACC) Cat. No. 1269 [ABS2008]	Use the name, not the numbered code.
Address > Australian or International Address > Australian Address	The description of an Australian location where an entity is located or can be otherwise reached or found.	01	n/a		This logical NEHTA data component has no mapping to CDA.

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Un- structured Australian Address Line	A composite of one or more low level standard address components describing a geographical/physical location that, used in conjunction with the other high level address components, e.g. Australian suburb/town/locality name, Australian postcode and Australian State/Territory, forms a complete geographical/physical address.	0*	addr/streetAddressLine		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line	The standard low level address components describing a geographical/physical location that, used in conjunction with the other high level address components, i.e. Australian suburb/ town/locality name, Australian postcode and Australian State/Territory, form a complete geographical/physical address.	01	n/a		This logical NEHTA data component has no mapping to CDA.
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Unit Type	The specification of the type of a separately identifiable portion within a building/complex, marina etc. to clearly distinguish it from another.	01	addr/unitType	AS 5017 (2006) - Healthcare Client Identification: Australian Unit Type [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Unit Type [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Unit Number	The specification of the number or identifier of a building/complex, marina etc. to clearly distinguish it from another.	01	addr/unitID		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Address Site Name	The full name used to identify the physical building or property as part of its location.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Level Type	Descriptor used to classify the type of floor or level of a multistorey building/complex.	01	addr/additionalLocator	AS 5017 (2006) - Healthcare Client Identification: Australian Level Type [SA2006a] AS 4846 (2006) - Healthcare Provider Identification: Australian Level Type [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Level Number	Descriptor used to identify the floor or level of a multi- storey building/complex.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Number	The numeric or alphanumeric reference number of a house or property that is unique within a street name.	01	addr/houseNumber		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Lot Number	The Australian Lot reference allocated to an address in the absence of street numbering.	01	addr/additionalLocator		
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Name	The name that identifies a public thoroughfare and differentiates it from others in the same sub-urb/town/locality.	01	addr/ streetName		

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Type	A code that identifies the type of public thoroughfare.	01	addr/streetNameType	AS 5017 (2006) - Healthcare Client Identification: Australian Street Type Code [SA2006a]	
				AS 4846 (2006) - Healthcare Provider Identification: Australian Street Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Street Suffix	Term used to qualify Australian Street Name used for directional references.	01	addr/direction	AS 5017 (2006) - Healthcare Client Identification: Australian Street Suffix [SA2006a]	
				AS 4846 (2006) - Healthcare Provider Identification: Australian Street Suffix [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Postal Delivery Type	Identification for the channel of postal delivery.	01	addr/deliveryAddressLine	AS 5017 (2006) - Healthcare Client Identification: Australian Postal Delivery Type Code [SA2006a]	
				AS 4846 (2006) - Healthcare Provider Identification: Australian Postal Delivery Type Code [SA2006b]	
Address > Australian or International Address > Australian Address > Struc- tured Australian Address Line > Australi- an Postal Delivery Number	Identification number for the channel of postal delivery.	01	addr/deliveryAddressLine		
Address > Australian or International Address > Australian Address > Aus- tralian Suburb/Town/Locality	The full name of the general locality contained within the specific address.	01	addr/city	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	
Address > Australian or International Address > Australian Address > Aus- tralian State/Territory	The identifier of the Australian state or territory.	01	addr/state	AS 5017-2006 Australian State/Territory Identifier - Postal	
Address > Australian or International Address > Australian Address > Aus- tralian Postcode	The numeric descriptor for a postal delivery area (as defined by Australia Post), aligned with locality, suburb or place for the address.	01	addr/postalCode	Values in this data element should comply with descriptions in the Australia Post Postcode File (see www.auspost.com.au/postcodes)	
Address > Australian or International Address > Australian Address > Aus- tralian Delivery Point Identifier	A unique number assigned to a postal delivery point as recorded on the Australia Post Postal Address File.	01	addr/additionalLocator		
Address > Address Purpose	The purpose for which the address is being used by the entity.	11	addr/@use	AS 5017-2006: Health Care Client Identifier Address Purpose	Space separated list of codes.

Example 9.10. Address

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

9.7 Electronic Communication Detail

CDA Mapping

NEHTA SDT Data Component	Data Component Definition	Card	CDA Schema Data Element	Vocab	Comments			
CDA Data Elements								
Electronic Communication Detail	The electronic communication details of entities.	Cardinality comes from linking parent.	telecom					
Electronic Communication Detail > Electronic Communication Medium	A code representing a type of communication mechanism.	11	telecom/@value	AS 5017-2006: Health Care Client Electronic Communication Medium -> HL7:URLScheme	Makes up part of the value attribute as 'tel:phone number', 'mailto:email address', http:URL', etc.			
			telecom/@use	AS 5017-2006: Health Care Client Electronic Communication Usage Code -> HL7:TelecommunicationAddressUse	Space separated list of codes.			
Electronic Communication Detail > Electronic Communication Usage Code	The manner of use that is applied to an electronic communication medium.	01	telecom/@use	AS 5017-2006: Health Care Client Electronic Communication Usage Code -> HL7:TelecommunicationAddressUse	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.	11	telecom/@value					

nehta Common Patterns

Example 9.11. Electronic Communication Detail

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

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

nehta Australian CDA Extensions

10 Australian CDA Extensions

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

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

Extensions may be included in the instance in a namespace other than the HL7v3 namespace, but must not be included within an element of type ED (e.g., <text> within within within 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. [HL7CDAR2]

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

10.1 EntityIdentifier

Figure 10.1, "CDA Model for EntityIdentifier"

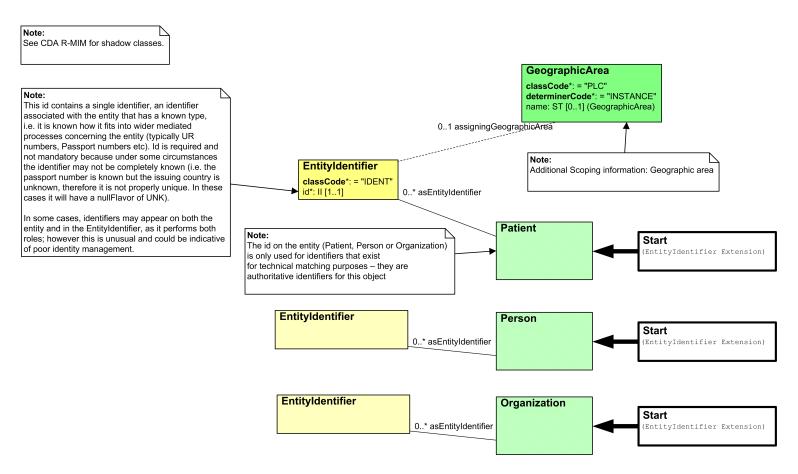


Figure 10.1. CDA Model for Entityldentifier

nehta Australian CDA Extensions

10.2 Multiple Birth

Figure 10.2, "CDA Model for Patient Multiple Birth"

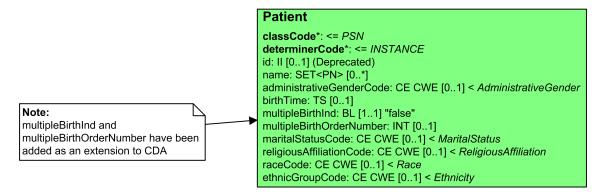


Figure 10.2. CDA Model for Patient Multiple Birth

10.3 Administrative Gender Code

Figure 10.3, "CDA Model for Administrative Gender Code"

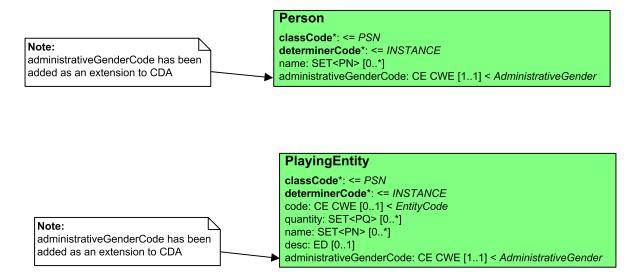


Figure 10.3. CDA Model for Administrative Gender Code

nehta Australian CDA Extensions

10.4 Birth Time

Figure 10.4, "CDA Model for Birth Time"

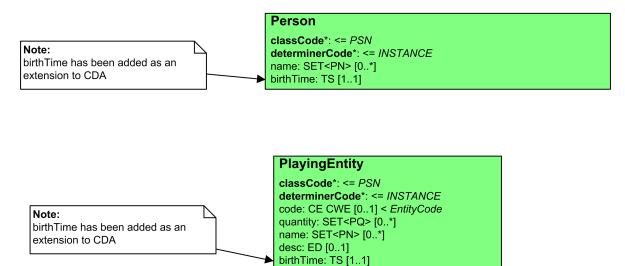


Figure 10.4. CDA Model for Birth Time

10.5 Employment

Figure 10.5, "CDA Model for Employment"

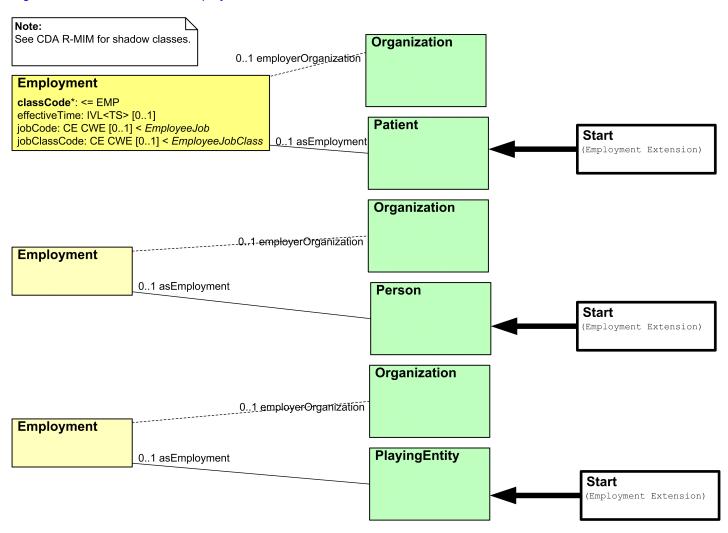


Figure 10.5. CDA Model for Employment

nehta Australian CDA Extensions

10.6 Qualifications

Figure 10.6, "CDA Model for Qualifications"

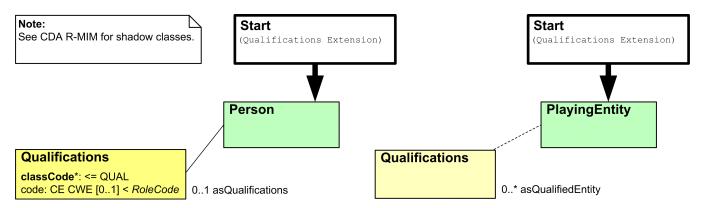


Figure 10.6. CDA Model for Qualifications

10.7 Entitlement

Figure 10.7, "CDA Model for Entitlement"

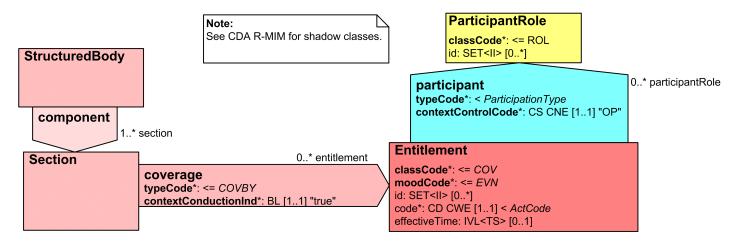


Figure 10.7. CDA Model for Entitlement

nehta Australian CDA Extensions

10.8 Policy

Figure 10.8, "CDA Model for Policy"

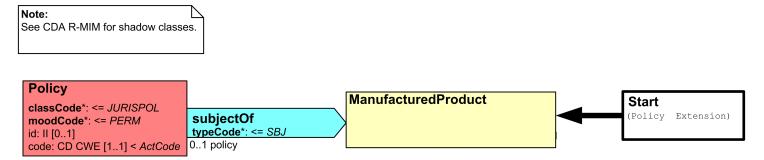


Figure 10.8. CDA Model for Policy

10.9 Coverage

Figure 10.9, "CDA Model for Coverage"

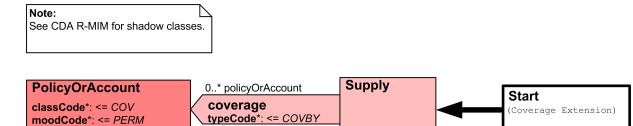


Figure 10.9. CDA Model for Coverage

code: CD CWE [1..1] < ActCode

id: II [1..1]

nehta Australian CDA Extensions

10.10 BrandSubstituteAllowed

Figure 10.10, "CDA Model for BrandSubstituteAllowed"



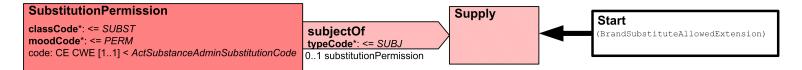


Figure 10.10. CDA Model for BrandSubstituteAllowed

11 Vocabularies/Code Sets

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

Example 11.1. All values

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

Example 11.2. One value

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

11.1 HL7 v3: TelecommunicationAddressUse

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

11.2 AS 5017-2006 Health Care Client Identifier Sex

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

11.3 AS 5017-2006: Health Care Client Name Usage

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



Note

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



Note

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

AS 5017-2006 Code	AS 5017-2006 Alternative Code	AS 5017-2006 Descriptor	HL7 Name Use Code	HL7 Name Use Name	HL7 Name Use Definition
1	L	Registered Name (Legal Name)	L	(R1) Legal	(R1) Known as/conventional/the one you use
2	R	Reporting Name	С	(R1) License	(R1) As recorded on a license, record, certificate, etc. (only if different from legal name)
3	N	Newborn Name	NB	(EXT)	(EXT)
4	В	Professional or Business Name	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	0	Other Name (Alias)	P	(R1) Pseudonym	(R1) A self asserted name that the person is using or has used

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

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



Note

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

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

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

AS 5017-2006 mapped to HL7 Address Use Code

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U – The referred date component is 'unknown'.

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

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

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

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



Note

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

The possible combinations are as follows:

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

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

11.11 NCTIS: Admin Codes - Sections/Entries

displayName	code	codeSystemName	codeSystem
Additional Comments	103.16044	NCTIS Data Components	1.2.36.1.2001.1001.101
Administrative Observations	102.16080	NCTIS Data Components	1.2.36.1.2001.1001.101
Age	103.20109	NCTIS Data Components	1.2.36.1.2001.1001.101
Age Accuracy Indicator	102.16242	NCTIS Data Components	1.2.36.1.2001.1001.101
Birth Plurality	103.16249	NCTIS Data Components	1.2.36.1.2001.1001.101
Date of Birth Accuracy Indicator	102.16234	NCTIS Data Components	1.2.36.1.2001.1001.101
Date of Birth is Calculated From Age	103.16233	NCTIS Data Components	1.2.36.1.2001.1001.101
DateTime Prescription Expires	103.10104	NCTIS Data Components	1.2.36.1.2001.1001.101
Formula	103.16272	NCTIS Data Components	1.2.36.1.2001.1001.101
Observations	101.16280	NCTIS Data Components	1.2.36.1.2001.1001.101
PBS/RPBS Authority Approval Number	103.10159	NCTIS Data Components	1.2.36.1.2001.1001.101
Prescription	101.16102	NCTIS Data Components	1.2.36.1.2001.1001.101
Prescription Item	102.16211	NCTIS Data Components	1.2.36.1.2001.1001.101
Prescription Note Detail	102.16212	NCTIS Data Components	1.2.36.1.2001.1001.101
Qualifications	103.16268	NCTIS Data Components	1.2.36.1.2001.1001.101
Reason for Therapeutic Good	103.10141	NCTIS Data Components	1.2.36.1.2001.1001.101
State Authority Number	103.16018	NCTIS Data Components	1.2.36.1.2001.1001.101

11.12 NCTIS: Admin Codes - Concurrent Supply Grounds

displayName	code	codeSystemName	codeSystem
Pursuant to Regulation 24	1	NCTIS Concurrent Supply Grounds Values	1.2.36.1.2001.1001.101.104.16085
Hardship Conditions Apply	2	NCTIS Concurrent Supply Grounds Values	1.2.36.1.2001.1001.101.104.16085
No Grounds	9	NCTIS Concurrent Supply Grounds Values	1.2.36.1.2001.1001.101.104.16085

11.13 NCTIS: Admin Codes - Medical Benefit Category Type

displayName	code	codeSystemName	codeSystem
PBS	1	NCTIS Medical Benefit Category Type Values	1.2.36.1.2001.1001.101.104.16095
RPBS	2	NCTIS Medical Benefit Category Type Values	1.2.36.1.2001.1001.101.104.16095
CTG	3	NCTIS Medical Benefit Category Type Values	1.2.36.1.2001.1001.101.104.16095
No Benefit	9	NCTIS Medical Benefit Category Type Values	1.2.36.1.2001.1001.101.104.10159

11.14 NCTIS: Admin Codes - Entitlement Type

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

11.15 HL7 v3 CDA: Act.moodCode

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

11.16 OIDs

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

nehta CDA Narratives

Appendix A. CDA Narratives

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

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

- The narrative block **MUST** be encapsulated within text component of the CDA Section. The Section's title component **SHOULD** contain the Section's label, and will form the heading for the Section's narrative rendering.
- The narrative contents MUST be completely and accurately rendered in a standards-compliant web browser by the transformation provided by HL7. Producers MAY assume that consumers are able to apply HL7's transformation. Producers MAY distribute transformations for alternate or enhanced rendering, but MUST NOT rely upon their use.
 - In accordance with the requirement to completely represent Section contents, coded type values MUST include both originalText and displayName components where provided. The code component SHOULD be provided when a displayName is not available.
- It MUST completely and accurately represent the information encoded in the Section. Content MUST NOT be omitted
 from the narrative.
- It MUST conform to the content requirements of the CDA specification [HL7CDAR2] and/or XML Schema.

CDA structured information generally takes the form of nested lists leading to either simple values or name-value pairs. It is usually marked up as either data tables or lists. Lists are often more attractive, particularly in automated generation, because they are more amenable to safe nesting. Also, HL7 narrative lists are well suited to name-value pairs because both the lists themselves and their items may have captions, which are well suited for labels (names). Style and formatting markup is often discarded by the default HL7 transformation.



Note

Implementers should test their chosen narrative markup early in the development process using the standard HL7 transformation in a web browser, to confirm that it renders completely.

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

nehta Reference List

Reference List

[ABS2006] Australian Bureau Of Statistics, September 2006, 1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006 - METeOR 350899, accessed 15 March 2010.

http://www.abs.gov.au/ausstats/abs@.nsf/mf/1220.0

[ABS2008] Australian Bureau Of Statistics, May 2008, Standard Australian Classification of Countries (SACC) Cat.

No. 1269, accessed 15 March 2010.

http://www.abs.gov.au/ausstats/abs@.nsf/mf/1269.0

[DHA2010a] The Commonwealth of Australia and The Pharmacy Guild of Australia, 1 July 2010, Pharmacy and Gov-

ernment Arrangements - Fifth Community Pharmacy Agreement, accessed 18 November 2010.

http://www.guild.org.au/uploadedfiles/National/Public/Community_Pharmacy_Agreement/Fifth%20Agree-

ment%20Document%20signed.pdf

[HL7CDAR2] Health Level Seven, Inc., January 2010, HL7 Clinical Document Architecture, Release 2, accessed 18

November 2010.

http://www.hl7.org/implement/standards/cda.cfm

[HL7RIM] Health Level Seven, Inc., January 2010, HL7 Version 3 Standard – Reference Information Model, accessed

15 March 2010.

http://www.hl7.org/v3ballot/html/infrastructure/rim/rim.htm

[HL7V3] Health Level Seven, Inc., January 2010, HL7 Version 3 Standard, accessed 15 March 2010.

http://www.hl7.org/v3ballot/html/welcome/environment/index.htm

[HL7V3DT] Health Level Seven, Inc., January 2010, HL7 V3 RIM, Data types and Vocabulary, accessed 18 November

2009.

http://www.hl7.org/memonly/downloads/v3edition.cfm

[IHTS2009] International Health Terminology Standards Development Organisation, January 2010, SNOMED-CT,

accessed 15 March 2010.

http://www.ihtsdo.org/snomed-ct

[INFO2009] Canada Health Infoway, CDA Validation Tools: infoway_release_2_2X_18.zip, accessed 18 November

2009.

http://www.hl7.org/memonly/downloads/v3edition.cfm

[ISO21090-2008] International Organization for Standardization, ISO 21090:2008 – Health Informatics – Harmonized data

types for information interchange, Edition 1 (Monolingual), accessed 09 November 2009.

http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=35646

[ISO8601-2004] International Organization for Standardization, 18 March 2008, ISO 8601:2004 - Data elements and inter-

change formats - Information interchange - Representation of dates and times, Edition 3 (Monolingual),

accessed 09 November 2009.

http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=40874

[NEHT2005a] National E-Health Transition Authority, 25 May 2005, NEHTA Acronyms, Abbreviations & Glossary of

Terms, Version 1.2, accessed 09 November 2009.

http://www.nehta.gov.au/component/docman/doc_download/8-clinical-information-glossary-v12

[NEHT2007b] National E-Health Transition Authority, 24 September 2007, *Interoperability Framework*, Version 2.0.

http://www.nehta.gov.au/connecting-australia/ehealth-interoperability

[NEHT2009i] National E-Health Transition Authority, 30 October 2009, ETP Business Process and Requirements Spe-

cification, Release 1, accessed 1 April 2010.

http://www.nehta.gov.au/e-communications-in-practice/emedication-management

[NEHT2009j] National E-Health Transition Authority, 30 October 2009, ETP Technical Requirements Specification,

Release 1, accessed 1 April 2010.

http://www.nehta.gov.au/e-communications-in-practice/emedication-management

[NEHT2009k]	National E-Health Transition Authority, 30 October 2009, <i>ETP Logical Information Model</i> , Release 1, accessed 1 April 2010. http://www.nehta.gov.au/e-communications-in-practice/emedication-management
[NEHT2009I]	National E-Health Transition Authority, 30 October 2009, <i>ETP Technical Architecture</i> , Release 1, accessed 1 April 2010. http://www.nehta.gov.au/e-communications-in-practice/emedication-management
[NEHT2009q]	National E-Health Transition Authority, 11 November 2009, <i>Electronic Medications Management - Electronic Transfer of Prescriptions Endpoint Specification</i> , Release 1, Version 1.0, accessed 2 June 2009. http://www.nehta.gov.au/component/docman/doc_download/909-electronic-medications-management-etp-endpoint-specification-release-1-v10draft-for-comment
[NEHT2010a]	National E-Health Transition Authority, February 2010, <i>Australian Medicines Terminology</i> , accessed 15 March 2010. http://www.nehta.gov.au/connecting-australia/clinical-terminologies/australian-medicines-terminology
[NEHT2010c]	National E-Health Transition Authority, September 2010, <i>Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification</i> , Version 1.0, accessed 13 September 2010. http://www.nehta.gov.au/component/docman/doc_download/1121-data-types-in-nehta-specifications-v10
[NEHT2010d]	National E-Health Transition Authority, September 2010, <i>Data Specifications and Structured Document Templates - Guide for Use</i> , Version 1.1, accessed 13 September 2010. http://www.nehta.gov.au/component/docman/doc_download/1120-data-specifications-and-structured-document-templates-guide-for-use-v11
[NEHT2010i]	National E-Health Transition Authority, September 2010, <i>Participation Data Specification</i> , Version 3.0, accessed 16 September 2010. http://www.nehta.gov.au/component/docman/doc_download/1122-participation-data-specification-v30
[NEHT2010r]	National E-Health Transition Authority, November 2010, ePrescription Structured Document Template, Version 3.1, accessed [To Be Published].
[RFC2119]	Network Working Group, 1997, RFC2119 - Key words for use in RFCs to Indicate Requirement Levels, accessed 13 April 2010. http://www.faqs.org/rfcs/rfc2119.html
[RFC3066]	Network Working Group, 2001, <i>RFC3066 - Tags for the Identification of Languages</i> , accessed 13 April 2010. http://www.ietf.org/rfc/rfc3066.txt
[RING2009]	Ringholm, 2009, CDA Examples, accessed 15 March 2010. http://www.ringholm.de/download/CDA_R2_examples.zip
[SA2006a]	Standards Australia, 2006, <i>AS 4846 (2006) – Healthcare Provider Identification</i> , accessed 12 November 2009. http://infostore.saiglobal.com/store/Details.aspx?ProductID=318554
[SA2006b]	Standards Australia, 2006, AS 5017 (2006) – Healthcare Client Identification, accessed 12 November 2009. http://infostore.saiglobal.com/store/Details.aspx?ProductID=320426
[SA2007a]	Standards Australia, 2007, AS 4700.6 (2007) – Implementation of Health Level 7 (HL7) Version 2.5 – Part 6: Referral, discharge and health record messaging. http://www.saiglobal.com/online/