



## Advance Care Planning

### CDA Implementation Guide

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## Product Version History

Product ver- sion	Date	Release comments
1.0	1 NaN	Initial public release. This specification is published to support the My Health Record advance care planning document (2016).
2.0	29 Aug 2019	This version implements terminology updates and transitions from openEHR based models to FHIR-based models. This is a backwards incompatible release

## Related Documents

Name	Version/Release Date
<a href="#">Australian Base Profiles Implementation Guide</a>	v1.0.0 (Standard for Trial Use), Continuous Integration Build
<a href="#">FHIR</a>	Release 3 (STU), Issued 19 April 2017
<a href="#">Participant Model Specification</a>	Version 1.0, Issued 01 November 2018
<a href="#">Common - Clinical Document</a>	Version 1.5.2, Issued 28 February 2019
<a href="#">CDA Rendering Specification</a>	Version 1.0, Issued 07 March 2012
<a href="#">My Health Record Advance Care Planning Information Requirements</a>	Version 1.0.1,
<a href="#">Representing Coding in CDA Documents Implementation Guidance</a>	Version 1.0, Issued 10 October 2011
<a href="#">Clinical Documents Common Conformance Profile</a>	Version 1.7, Issued 21 December 2017

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# 1 Introduction

## 1.1 Document purpose and scope

The primary aim of the implementation guide is to take implementers step by step through mapping each element of the Advance Care Planning (ACP) model ([Advance Care Records FHIR Implementation Guide \[DH2019e\]](#)) to a corresponding CDA attribute or element. The resulting CDA document can be used for the electronic exchange of ACP information between healthcare providers.

This implementation guide is not to be used as a guide to presentation (or rendering) of the data. Beyond defining conformance requirements on CDA narratives it contains no information as to how the data described by it should be displayed and no such guidance should be inferred from This implementation guide.

Reference has been made to International and Australian Standards, and to Standards from Health Level Seven. The following standard is referred to in the text in such a way that some or all of its content constitutes requirements for the purposes of this specification: [HL7 Clinical Document Architecture \[HL7CDAR2\]](#).

Wherever possible, material in this specification is based on existing standards. All efforts have been made to minimise divergence from the HL7 Australia profiles of HL7 International standards ([Australian Base Profiles Implementation Guide \[HL7AUBIG\]](#)) to provide for system interoperability and compatibility with other profiles. Issues of an editorial nature in the source material (such as spelling or punctuation errors) are intentionally reproduced.

## 1.2 Context and use

A CDA implementation guide is part of a package of documents and files that support the development of software to exchange a type of clinical document, a specification package.

An Agency clinical document specification package supports software developers to create and interpret instances of a clinical document. The core of each package is a specification of the information content of instances of the clinical document.

Supplementary contents of the package include statements of scenarios for which the specification is appropriate, guidance on implementing the specification, and guidance on testing purported instances.

The contents may include:

- statement of requirements
- CDA implementation guide (CDA IG) – a statement of constraints and custom extensions on [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- FHIR implementation guide (FHIR IG) – a statement of constraints and custom extensions on [FHIR \[HL7FHIR3\]](#)
- template package library – a set of Schematron schema to test conformance of CDA documents with the specification
- conformance profile – a statement of conformance requirements for exchanging documents within a particular scenario such as the My Health Record
- A set of release notes

Specification packages contain only files relevant to the particular clinical document. Specifications that are common to many clinical documents and should be considered part of the specification package, as directed by the relevant release note and conformance profile, are contained in the [Common - Clinical Document \[DH2019a\]](#).

## 1.3 How to read this document

This implementation guide contains descriptions of both constraints on the CDA and, where necessary, custom extensions to the CDA, for the purposes of fulfilling the requirements for Australian implementations of ACP.

These descriptions are defined as a set of CDA templates (see [Conformance conventions](#)) presented in CDA mapping tables (see [Mapping presentation and structure](#)). The mapping tables take implementers step by step through mapping each element of the ACP model to a corresponding CDA attribute or element.

A logical view of the ACP model ([FHIR \[HL7FHIR3\] StructureDefinitions](#)) is presented as a tree structure in a hierarchical table (see [4 Advance Care Planning hierarchy](#)). The ACP model is published as a set of [FHIR \[HL7FHIR3\]](#) profiles in [Advance Care Records FHIR Implementation Guide \[DH2019e\]](#).

The starting point for the CDA templates is the clinical document model template defined in [Composition \(Advance Care Planning\)](#), which references the additional templates necessary to assert conformance for this implementation guide.

## 1.4 Editorial note

This implementation guide is an early working specification that is available for comment and review. It may be used to solicit feedback and to provide insight as to the expected content in a forthcoming stable and approved version of the specification.

This implementation guide may not be considered to be complete enough or sufficiently reviewed to be safe for implementation and use in production systems. It may have known issues and still be in development.

It is intended to supersede [Advance Care Information Structured Content Specification \[DH2017e\]](#) and [Advance Care Information CDA Implementation Guide \[DH2017f\]](#). This new, backwards incompatible version, is intended to address alignment to HL7 FHIR and is the result of work undertaken in conjunction with HL7 Australia.

## 1.5 Intended audience

This implementation guide is aimed at software development teams, architects, designers, clinicians and informatics researchers who are responsible for the delivery of clinical applications, infrastructure components and messaging interfaces, and also for those who wish to evaluate the clinical suitability of the Agency-endorsed specifications.

This implementation guide and related artefacts are technical in nature and the audience is expected to be familiar with the language of health data specifications and to have some familiarity with health information standards and specifications, such as CDA and Standards Australia IT-014 documents. Definitions and examples are provided to clarify relevant terminology usage and intent.

## 1.6 Known issues

This section lists known issues with this specification at the time of publishing. We are working on solutions to these issues and encourage comments to help us develop these solutions.

Reference	Description
Terminology publication	<p>The following value sets are not yet available in NCTS:</p> <ul style="list-style-type: none"><li>• <a href="#">Healthcare Identifier Geographic Area</a></li><li>• <a href="#">Composition Status FHIR to Australian CDA Document Life-cycle Status</a></li></ul>
<a href="#">Advance Care Records FHIR Implementation Guide [DH2019e]</a>	Alignment with examples between the CDA-IG and FHIR-IG is in progress.

Reference	Description
<a href="#">Advance Care Records FHIR Implementation Guide [DH2019e]</a>	The corresponding Advance Care Planning FHIR IG is currently in progress; draft content is available from <a href="https://github.com/-AuDigitalHealth/ci-fhir-stu3">https://github.com/-AuDigitalHealth/ci-fhir-stu3</a> (public)   <a href="https://stash.digitalhealth.gov.au/projects/CIL/repos/ci-fhir-stu3/browse">https://stash.digitalhealth.gov.au/projects/CIL/repos/ci-fhir-stu3/browse</a> (internal).

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## 2 Guidance

### 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 V3 RIM, Data types and Vocabulary \[HL7V3DT\]](#).

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

All clinical information is required to 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.

The rendered narrative can stand alone as a source of authenticated information for consuming parties. Content from the CDA body is not to be omitted from the narrative.

Further information and conformance requirements on the CDA narrative is available in [CDA narratives](#).

The following references are recommended to gain a better understanding of CDA:

- [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- [HL7 V3 RIM, Data types and Vocabulary \[HL7V3DT\]](#)
- [CDA Examples \[RING2009\]](#)
- [CDA Validation Tools: infoway\\_release\\_2\\_2X\\_18.zip \[INFO2009\]](#)

## 2.2 Australian Digital Health Agency CDA extensions

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

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

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

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.

These Australian Digital Health Agency CDA extensions have been added to the Australian Digital Health Agency CDA schema and are incorporated in the namespace <http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0> as shown in [Appendix B, Examples](#). Future versions of CDA extensions will be versioned as per the following example:

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

The Australian Digital Health Agency CDA schema therefore differs from the base HL7 CDA W3C XML Schema (referred to in this document as the HL7 CDA Schema). CDA documents which include extensions will fail to validate against the HL7 CDA Schema – this is a known limitation.

An Advance Care Planning document that conforms to this specification will validate against the Australian Digital Health Agency CDA schema that accompanies this specification, and will 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 requirements](#).

## 2.3 Conformance conventions

### Templates

This implementation guide specifies the CDA templates for implementing the document model that is the subject of this implementation guide, i.e. Advance Care Planning. >A CDA template is a set of constraints, and where necessary, custom extensions to [HL7 Clinical Document Architecture \[HL7CDAR2\]](#).

In this implementation guide CDA templates are presented in a CDA mapping table and indicated by the presence of a `templateId`.

Template identifiers (`templateId`) are unique to each CDA template. When valued in an instance, the template identifier signals the imposition of a set of template-defined constraints. The root value of this attribute (e.g. `@root="1.2.36.1.2001.1001.1002.226"`) provides a unique identifier for the template in question. The extension value of this attribute (e.g. `@extension="1.0"`) provides the version identifier for the template in question.

### Open and closed templates

A CDA template may be either an open template or a closed template. In an open template all of the features of the CDA R2 base specification [HL7 V3 RIM, Data types and Vocabulary \[HL7V3DT\]](#) are allowed except as constrained by explicitly specified constraints. In a closed template everything that is allowed must be explicitly specified and nothing further may be allowed.

For example if a specification of a CDA template says nothing about the use of the `id` element:

- In an open template context this means that `id` is allowed as specified in the schema
- In a closed template context this means that no use of `id` is allowed

The template context in this implementation guide is that of an open template unless otherwise stated.

### Terminology binding

Vocabulary is specified in this implementation guide, in some cases binding an element to a value set or binding an attribute to a single fixed code. For guidance on coding common clinical concepts in CDA documents see [Representing Coding in CDA Documents Implementation Guidance \[NEHT2011bv\]](#).

A value set binding, if present in this specification, will be specified in the "Constraints and comments" column of a CDA mapping table as the title of the value set (hyperlinked to its definition) followed by identification of the binding strength (hyperlinked to its definition), e.g. [v3 Code System ParticipationFunction \(required\)](#).

## Conformance verbs

Where used in this document, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** from [Key Words for Use in RFCs to Indicate Requirement Levels \[RFC2119\]](#) are to be interpreted as described in the table below.

### Conformance verbs

Conformance verb	Interpretation
<b>SHALL</b>	<p>An absolute requirement.</p> <p>Where <b>SHALL</b> appears in any conformance constraint it indicates a mandatory requirement.</p> <p>Where <b>SHALL</b> is applied to the occurrences of an element or attribute then that element or attribute must be present but can be null if the value is not known and the value has not been constrained to not allow a null value.</p>
<b>SHOULD</b>	<p>A requirement that is considered best practice or recommendation for inclusion. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course.</p> <p>Where <b>SHOULD</b> appears in an conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.</p> <p>For a sending application where <b>SHOULD</b> is applied to the occurrences of an item then that item must be present if a sending application has the data for that data element. If the value is not known the element or attribute does not need to be included.</p> <p>Implementers must support an 'optional' requirement.</p>
<b>MAY</b>	<p>A requirement that can be included or omitted as the author decides with no implications.</p> <p>Where <b>MAY</b> appears in a conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.</p> <p>Implementers must support an 'optional' requirement.</p>
<b>SHALL NOT</b>	<p>An absolute prohibition.</p> <p>Where <b>SHALL NOT</b> appears in any conformance constraint it indicates a mandatory prohibition requirement.</p>

Conformance verb	Interpretation
<b>SHOULD NOT</b>	A requirement that is considered best practice or recommendation for against inclusion. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course.  Where <b>SHOULD NOT</b> appears in a conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.  For a sending application where <b>SHOULD NOT</b> is applied to the occurrences of then that element or attribute must be present if a sending application has the data for that data element. If the value is not known the element or attribute does not need to be included.  Implementers must support an 'optional' requirement.

## Cardinality

The cardinality range specifies the allowable occurrences within a document instance. Cardinality range is specified in the format "m..n" where m is the minimum allowed members of the set (lower bound) and n is the maximum allowed members of the set (upper bound). The allowed values for m and n are 0, any positive integer, and \*.

The table below demonstrates a representative set of examples of cardinality range and how to interpret that cardinality range; p is positive integer greater than the minimum allowed members of the set.

Cardinality range	Interpretation
0..0	zero (explicitly prohibited)
0..1	zero or one
1..1	exactly one
0..*	zero or more
1..*	at least one
2..*	at least two
1..p	at least one and not more than p
2..p	at least two and not more than p

## 2.4 Mapping presentation and structure

The content of this implementation guide is a set of CDA templates that are presented as a mapping from the logical view of a set of models (i.e. [FHIR \[HL7FHIR3\]](#) StructureDefinitions) to CDA. These models are published as [FHIR \[HL7FHIR3\]](#) profiles in [Advance Care Records FHIR Implementation Guide \[DH2019e\]](#).

CDA templates are located within a 'templates' chapter, e.g. [9 Section CDA templates](#). The heading for each child section identifies the CDA schema element that is templated, and may also identify the name of part of the ACP model that template corresponds to, e.g. observation (Summary Statement of Allergy or Intolerance) defines the CDA template of the observation CDA schema element to represent the model for Summary Statement of Allergy or Intolerance.

A CDA mapping table aims to take implementers step by step through mapping each element of the ACP model to a corresponding CDA attribute or element. The following section describes in more detail the fields used to present the mapping content in this implementation guide.

### x.x CDA schema element (model / element)

Implementation guidance specific to the usage scenarios expected to be supported by this implementation guide may be present above the mapping table. This content is informative; there may be valid reasons not to follow this guidance, but the full implications must be understood and carefully weighed before choosing a different course.

## CDA mapping

Element	Element descrip- tion	Card	Element type	CDA schema element	Constraints and com- ments
<b>CDA conformance level, e.g. CDA Header, CDA Body Level 3 Data Elements</b>					
The logical hierarchical path in the ACP model expressed using names of the elements in the ACP model.  If there is a name in round brackets after the path, this is the label for that element or resource.  The text in <b>bold</b> (the last in the path) is the subject for this row.  i.e. Parent (Label) > Child  e.g. AllergyIntolerance (Summary Statement of Allergy or Intolerance) > patient	The description of the element in the ACP model.  (See <a href="#">Conformance conventions</a> )	The cardinality of the element in the ACP model.  (See <a href="#">Conformance conventions</a> )	The type of the element (hyper-linked to the definition of the <a href="#">[HL7FHIR3]</a> type) in the ACP model.  This may be expressed as a type that is further constrained by a model in the convention <type> as <model name>, e.g. <a href="#">Patient</a> as Patient with Mandatory Identifier.	<p>Context: The root context that is applied as a prefix to the CDA schema element paths in the mapping rows below</p> <p>The CDA schema element(s) in the CDA template that correspond to the model element.</p> <p>The syntax for this is similar to XPath:</p> <pre>{/name{[index]}}n</pre> <p>Where:</p> <ul style="list-style-type: none"> <li>{} indicates optional</li> <li>{n} means a section that may repeat</li> <li>[index] differentiates two similar mappings</li> </ul> <p>Example:</p> <p><b>participant[location]</b></p> <p>participant[location]/@typeCode="ORG"</p> <p>participant[location]/associatedEntity</p> <p>participant[location]/associatedEntity/@classCode="SDLOC"</p> <p>participant[location]/associatedEntity/code</p> <p>A sequence of names refers to the XML path in the CDA document. The path always starts from the context as defined in the grey header row above each group of mapping rows.</p> <p>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 Digital Health Agency CDA schema.</p> <p>An index after the name, such as 'participation[location]' implies that there can be two or more templates of a participation CDA schema element or that the CDA schema element name may be repeated in one or more templates. The indexes differentiate which CDA schema element is referenced in the path.</p> <p>It is possible for one model element to map to more than one CDA schema element.</p>	<p>Constraints on the CDA schema element(s).</p> <p>Terminology binding, identified by a hyperlinked value set title followed by the terminology binding strength (hyperlinked to the definition of the binding strength). When applicable, followed by a reference to a footnote that provides a hyperlink to related concept map.</p> <p>e.g. <a href="#">Address Type HL7 v3 (required)</a><sup>1</sup></p> <p>Additional information about the mapping and/or constraints which are identified by conformance verbs (See <a href="#">Conformance conventions</a>).</p> <p>e.g.</p> <p>See &lt;code&gt; for available attributes.</p>

<sup>1</sup>Note: Mappings between the set of concepts in the terminology bindings on address type[DH2019e](#) and in the CDA model are defined in [v3 map for AddressType](#) concept map.



# 3 Conformance

## 3.1 Conformance requirements

This document describes how the ACP model is implemented as a CDA document. Conformance claims are not made against this implementation guide directly; rather, they are made against additional conformance profiles documented elsewhere. Any document that claims conformance to any derived conformance profile **SHALL** meet these base requirements:

- It **SHALL** be a valid HL7 CDA instance. In particular:
  - It **SHALL** be valid against the HL7 CDA schema (once extensions have been removed).
  - It **SHALL** conform to the HL7 V3 R1 data type specification.
  - It **SHALL** conform to the semantics of the RIM and Structural Vocabulary.
- It **SHALL** be valid against the Australian Digital Health Agency CDA schema that accompanies this implementation guide after any additional extensions not in the Australian Digital Health Agency extension namespace have been removed, along with any other CDA content not described by this implementation guide.
- It **SHALL** use the mappings as they are stated in this document.
- It **SHALL** use all fixed values specified in the mappings (e.g. @attribute="FIXED\_VALUE").
- It **SHALL** be valid against the additional conformance requirements that are established in this document (i.e. any normative use of the word 'shall' identified by the term presented in uppercase and bold typeface).
- The narrative **SHALL** conform to the requirements described in this implementation guide.
- The document **SHALL** conform to the requirements specified in the CDA Rendering Specification [\[NEHT2012s\]](#).
- Any additional content included in the CDA document that is not described by this implementation guide **SHALL NOT** qualify or negate content described by this implementation guide and it **SHALL** be clinically safe for receivers of the document to ignore the non-narrative additions when interpreting the existing content.

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

Conformance profiles of this document **MAY** make additional rules that override this document in regard to:

- Allowing the use of alternative value sets in place of the value sets specified in this document.
- Allowing the use of alternative identifiers in place of the Healthcare Identifiers Service identifiers.
- Making required data elements and section divisions optional.

## 3.2 CDA narratives

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

It is a [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) requirement that all clinical information **SHALL** be marked up in CDA narratives.

It is a [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) requirement that the rendered narrative **SHALL** be able to stand alone as a source of authenticated information for consuming parties. Content from the CDA body **SHALL NOT** be omitted from the narrative.

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

- The narrative block **SHALL** be encapsulated within the text component of the CDA section.
- The narrative contents **SHALL** conform to the requirements specified in the CDA Rendering Specification.
  - In accordance with the requirement to completely represent section contents, elements of type [CodeableConcept](#) **SHALL** include an originalText or a displayName attribute (or both). Where available, the originalText **SHOULD** be found in the narrative, otherwise the displayName **SHOULD** be found in the narrative.
- The narrative contents **SHALL** completely and accurately represent the clinical information encoded in the section. Content **SHALL NOT** be omitted from the narrative.
- The narrative **SHALL** conform to the content requirements of the CDA specification [\[HL7CDAR2\]](#) and the XML schema.

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

# 4 Advance Care Planning hierarchy

An Advance Care Planning document is defined as:

A copy of a statement of an individual's decisions about their future care, should they become incapable of participating in medical treatment decisions. [Advance Care Records FHIR Implementation Guide \[DH2019e\]](#)

## 4.1 Hierarchy

The hierarchy below provides a logical view of the Advance Care Planning model as a tree structure in a hierarchical table; it is not intended to represent how the data contents are represented in a CDA document.

Each row contains information about a single element. The top level row contains two occupied cells: Name of the document model, and the Type (hyperlinked to the definition of the type).

Each following row contains three occupied cells: Name of the child element in the model, Cardinality (the lower and upper bounds on how many times this element is allowed to appear in the resource), and the Type (hyperlinked to the definition of the type). Type may be expressed as a type that is further constrained by a referenced model, e.g. Patient as Base Patient.

Name		Cardinality	Type
Composition (Advance Care Planning)			<a href="#">DomainResource</a>
	composition-author-role	0..1	<a href="#">Reference(PractitionerRole as PractitionerRole with Practitioner with Mandatory Identifier)</a>
	identifier	0..1	<a href="#">Identifier</a>
	status	1..1	<a href="#">code</a>
	type	1..1	<a href="#">CodeableConcept</a>
	subject	1..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>
	date	0..1	<a href="#">dateTime</a>
	author	1..1	<a href="#">Reference(RelatedPerson as RelatedPerson with Mandatory Identifier   Patient as Patient with Mandatory Identifier   Practitioner as Practitioner with Mandatory Identifier)</a>
	title	1..1	<a href="#">string</a>
	attester (Legal Attester)	0..1	<a href="#">BackboneElement</a>
	mode	1..1	<a href="#">code</a>
	time	1..1	<a href="#">dateTime</a>
	party	0..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier   Practitioner as Practitioner with Mandatory Identifier)</a>
	attester-related-party	0..1	<a href="#">Reference(RelatedPerson as RelatedPerson with Mandatory Identifier)</a>
	custodian	1..1	<a href="#">Reference(Organization as Organization with Mandatory Identifier)</a>
	section (Advance Care Information)	1..1	<a href="#">BackboneElement</a>
	title	1..1	<a href="#">string</a>
	code	1..1	<a href="#">CodeableConcept</a>
	text	1..1	<a href="#">Narrative</a>
	entry (Advance Care Planning Document Reference)	1..1	<a href="#">Reference(DocumentReference as Advance Care Planning Document Reference)</a>

## 4.2 Expanded hierarchy

The hierarchy below provides an expanded logical view of the Advance Care Planning model as a tree structure in a hierarchical table that includes the structure of the first level of referenced models; it is not intended to represent how the data contents are represented in a CDA document.

Each row contains information about a single element. The top level row contains two occupied cells: Name of the document model, and the Type (hyperlinked to the definition of the type).

Each following row contains three occupied cells: Name of the child element in the model, Cardinality (the lower and upper bounds on how many times this element is allowed to appear in the resource), and the Type (hyperlinked to the definition of the type). Type may be expressed as a type that is further constrained by a referenced model, e.g. Patient as Base Patient.

Name		Cardinality	Type	
Composition (Advance Care Planning)			<a href="#">DomainResource</a>	
	composition-author-role	0..1	<a href="#">Reference(PractitionerRole as PractitionerRole with Practitioner with Mandatory Identifier)</a>	
	identifier	0..*	<a href="#">Identifier</a>	
	active	0..1	<a href="#">boolean</a>	
	period	0..1	<a href="#">Period</a>	
	practitioner	1..1	<a href="#">Reference(Practitioner as Practitioner with Mandatory Identifier)</a>	
	organization	0..1	<a href="#">Reference(Organization as Base Organization)</a>	
	code	0..*	<a href="#">CodeableConcept</a>	
	specialty	0..*	<a href="#">CodeableConcept</a>	
	location	0..*	<a href="#">Reference(Location)</a>	
	healthcareService	0..*	<a href="#">Reference(HealthcareService)</a>	
	telecom	0..*	<a href="#">ContactPoint</a>	
	availableTime	0..*	<a href="#">BackboneElement</a>	
		daysOfWeek	0..*	<a href="#">code</a>
		allDay	0..1	<a href="#">boolean</a>
		availableStartTime	0..1	<a href="#">time</a>
		availableEndTime	0..1	<a href="#">time</a>
	notAvailable	0..*	<a href="#">BackboneElement</a>	
		description	1..1	<a href="#">string</a>
		during	0..1	<a href="#">Period</a>
	availabilityExceptions	0..1	<a href="#">string</a>	
identifier		0..1	<a href="#">Identifier</a>	
status		1..1	<a href="#">code</a>	
type		1..1	<a href="#">CodeableConcept</a>	
subject		1..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>	
	birthPlace	0..1	<a href="#">Address</a>	
	indigenous-status	0..1	<a href="#">Coding</a>	
	closing-the-gap-registration	0..1	<a href="#">boolean</a>	
	patient-mothersMaidenName	0..1	<a href="#">string</a>	
	identifier	1..*	<a href="#">Identifier</a>	
	active	0..1	<a href="#">boolean</a>	
	name	0..*	<a href="#">HumanName</a>	
	telecom	0..*	<a href="#">ContactPoint</a>	
	gender	0..1	<a href="#">code</a>	

Name			Cardinality	Type
		birthDate	0..1	<a href="#">date</a>
			0..1	<a href="#">Coding</a>
		birthTime	0..1	<a href="#">dateTime</a>
		deceased	0..1	<a href="#">boolean</a> <a href="#">dateTime</a>
			0..1	<a href="#">Coding</a>
		address	0..*	<a href="#">Address</a>
		maritalStatus	0..1	<a href="#">CodeableConcept</a>
		multipleBirth	0..1	<a href="#">boolean</a> <a href="#">integer</a>
		contact	0..*	<a href="#">BackboneElement</a>
			0..*	<a href="#">CodeableConcept</a>
		name	0..1	<a href="#">HumanName</a>
		telecom	0..*	<a href="#">ContactPoint</a>
		address	0..1	<a href="#">Address</a>
		gender	0..1	<a href="#">code</a>
		organization	0..1	<a href="#">Reference(Organization as Base Organization)</a>
		period	0..1	<a href="#">Period</a>
		communication	0..*	<a href="#">BackboneElement</a>
			1..1	<a href="#">CodeableConcept</a>
		communication.preferred	0..1	<a href="#">boolean</a>
		generalPractitioner	0..*	<a href="#">Reference(Practitioner as Base Practitioner   Organization as Base Organization)</a>
		managingOrganization	0..1	<a href="#">Reference(Organization as Base Organization)</a>
	date		1..1	<a href="#">dateTime</a>
	author		1..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>
		birthPlace	0..1	<a href="#">Address</a>
		indigenous-status	0..1	<a href="#">Coding</a>
		closing-the-gap-registration	0..1	<a href="#">boolean</a>
		patient-mothersMaidenName	0..1	<a href="#">string</a>
		identifier	1..*	<a href="#">Identifier</a>
		active	0..1	<a href="#">boolean</a>
		name	0..*	<a href="#">HumanName</a>
		telecom	0..*	<a href="#">ContactPoint</a>
		gender	0..1	<a href="#">code</a>
		birthDate	0..1	<a href="#">date</a>
			0..1	<a href="#">Coding</a>
		birthTime	0..1	<a href="#">dateTime</a>
		deceased	0..1	<a href="#">boolean</a> <a href="#">dateTime</a>
			0..1	<a href="#">Coding</a>
		address	0..*	<a href="#">Address</a>
		maritalStatus	0..1	<a href="#">CodeableConcept</a>
		multipleBirth	0..1	<a href="#">boolean</a> <a href="#">integer</a>
		contact	0..*	<a href="#">BackboneElement</a>

Name			Cardinality	Type
		relationship	0..*	<a href="#">CodeableConcept</a>
		name	0..1	<a href="#">HumanName</a>
		telecom	0..*	<a href="#">ContactPoint</a>
		address	0..1	<a href="#">Address</a>
		gender	0..1	<a href="#">code</a>
		organization	0..1	<a href="#">Reference(Organization as Base Organization)</a>
		period	0..1	<a href="#">Period</a>
		communication	0..*	<a href="#">BackboneElement</a>
		language	1..1	<a href="#">CodeableConcept</a>
		preferred	0..1	<a href="#">boolean</a>
		generalPractitioner	0..*	<a href="#">Reference(Practitioner as Base Practitioner   Organization as Base Organization)</a>
		managingOrganization	0..1	<a href="#">Reference(Organization as Base Organization)</a>
	author		1..1	<a href="#">Reference(RelatedPerson as RelatedPerson with Mandatory Identifier)</a>
		identifier	0..*	<a href="#">Identifier</a>
		active	0..1	<a href="#">boolean</a>
		patient	1..1	<a href="#">Reference(Patient as Base Patient)</a>
		relationship	0..1	<a href="#">CodeableConcept</a>
		name	0..*	<a href="#">HumanName</a>
		telecom	0..*	<a href="#">ContactPoint</a>
		gender	0..1	<a href="#">code</a>
		birthDate	0..1	<a href="#">date</a>
		address	0..*	<a href="#">Address</a>
		period	0..1	<a href="#">Period</a>
	author		0..1	<a href="#">Reference(Practitioner as Practitioner with Mandatory Identifier)</a>
		identifier	1..*	<a href="#">Identifier</a>
		active	0..1	<a href="#">boolean</a>
		name	0..*	<a href="#">HumanName</a>
		telecom	0..*	<a href="#">ContactPoint</a>
		address	0..*	<a href="#">Address</a>
		gender	0..1	<a href="#">code</a>
		birthDate	0..1	<a href="#">date</a>
		qualification	0..*	<a href="#">BackboneElement</a>
		identifier	0..*	<a href="#">Identifier</a>
		code	1..1	<a href="#">CodeableConcept</a>
		period	0..1	<a href="#">Period</a>
		issuer	0..1	<a href="#">Reference(Organization as Base Organization)</a>
		communication	0..*	<a href="#">CodeableConcept</a>
	title		1..1	<a href="#">string</a>
	attester (Legal Attester)		1..1	<a href="#">BackboneElement</a>
		mode	1..1	<a href="#">code</a>
		time	1..1	<a href="#">dateTime</a>
		party	0..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>
		birthPlace	0..1	<a href="#">Address</a>
		indigenous-status	0..1	<a href="#">Coding</a>
		closing-the-gap-registration	0..1	<a href="#">boolean</a>

Name				Cardinality	Type
		patient-mothersMaidenName		0..1	<a href="#">string</a>
		identifier		1..*	<a href="#">Identifier</a>
		active		0..1	<a href="#">boolean</a>
		name		0..*	<a href="#">HumanName</a>
		telecom		0..*	<a href="#">ContactPoint</a>
		gender		0..1	<a href="#">code</a>
		birthDate		0..1	<a href="#">date</a>
			date-accuracy-indicator	0..1	<a href="#">Coding</a>
			birthTime	0..1	<a href="#">dateTime</a>
		deceased		0..1	<a href="#">boolean</a> <a href="#">dateTime</a>
			date-accuracy-indicator	0..1	<a href="#">Coding</a>
		address		0..*	<a href="#">Address</a>
		maritalStatus		0..1	<a href="#">CodeableConcept</a>
		multipleBirth		0..1	<a href="#">boolean</a> <a href="#">integer</a>
		contact		0..*	<a href="#">BackboneElement</a>
			relationship	0..*	<a href="#">CodeableConcept</a>
			name	0..1	<a href="#">HumanName</a>
		telecom		0..*	<a href="#">ContactPoint</a>
			address	0..1	<a href="#">Address</a>
			gender	0..1	<a href="#">code</a>
			organization	0..1	<a href="#">Reference(Organization as Base Organization)</a>
			period	0..1	<a href="#">Period</a>
		communication		0..*	<a href="#">BackboneElement</a>
			language	1..1	<a href="#">CodeableConcept</a>
			preferred	0..1	<a href="#">boolean</a>
		generalPractitioner		0..*	<a href="#">Reference(Practitioner as Base Practitioner   Organization as Base Organization)</a>
		managingOrganization		0..1	<a href="#">Reference(Organization as Base Organization)</a>
	party			0..1	<a href="#">Reference(Practitioner as Practitioner with Mandatory Identifier)</a>
		identifier		1..*	<a href="#">Identifier</a>
		active		0..1	<a href="#">boolean</a>
		name		0..*	<a href="#">HumanName</a>
		telecom		0..*	<a href="#">ContactPoint</a>
		address		0..*	<a href="#">Address</a>
		gender		0..1	<a href="#">code</a>
		birthDate		0..1	<a href="#">date</a>
		qualification		0..*	<a href="#">BackboneElement</a>
			identifier	0..*	<a href="#">Identifier</a>
			code	1..1	<a href="#">CodeableConcept</a>
			period	0..1	<a href="#">Period</a>
			issuer	0..1	<a href="#">Reference(Organization as Base Organization)</a>
		communication		0..*	<a href="#">CodeableConcept</a>
	attester-related-party			0..1	<a href="#">Reference(RelatedPerson as RelatedPerson with Mandatory Identifier)</a>

Name				Cardinality	Type
		identifier	0..*		<a href="#">Identifier</a>
		active	0..1		<a href="#">boolean</a>
		patient	1..1		<a href="#">Reference(Patient as Base Patient)</a>
		relationship	0..1		<a href="#">CodeableConcept</a>
		name	0..*		<a href="#">HumanName</a>
		telecom	0..*		<a href="#">ContactPoint</a>
		gender	0..1		<a href="#">code</a>
		birthDate	0..1		<a href="#">date</a>
		address	0..*		<a href="#">Address</a>
		period	0..1		<a href="#">Period</a>
	custodian			1..1	<a href="#">Reference(Organization as Organization with Mandatory Identifier)</a>
		identifier	1..*		<a href="#">Identifier</a>
		active	0..1		<a href="#">boolean</a>
		type	0..*		<a href="#">CodeableConcept</a>
		name	0..1		<a href="#">string</a>
		alias	0..*		<a href="#">string</a>
		telecom	0..*		<a href="#">ContactPoint</a>
		address	0..*		<a href="#">Address</a>
		partOf	0..1		<a href="#">Reference(Organization as Base Organization)</a>
		contact	0..*		<a href="#">BackboneElement</a>
		purpose	0..1		<a href="#">CodeableConcept</a>
		name	0..1		<a href="#">HumanName</a>
		telecom	0..*		<a href="#">ContactPoint</a>
		address	0..1		<a href="#">Address</a>
	section (Advance Care Information)			1..1	<a href="#">BackboneElement</a>
		title	1..1		<a href="#">string</a>
		code	1..1		<a href="#">CodeableConcept</a>
		text	1..1		<a href="#">Narrative</a>
	entry (Advance Care Planning Document Reference)			1..1	<a href="#">Reference(DocumentReference as Advance Care Planning Document Reference)</a>
		author-role	0..1		<a href="#">Reference(PractitionerRole as PractitionerRole with Practitioner with Mandatory Identifier)</a>
		masterIdentifier	0..1		<a href="#">Identifier</a>
		identifier	0..*		<a href="#">Identifier</a>
		status	1..1		<a href="#">code</a>
		docStatus	0..1		<a href="#">code</a>
		type	1..1		<a href="#">CodeableConcept</a>
		subject	1..1		<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>
		created	1..1		<a href="#">dateTime</a>
		indexed	1..1		<a href="#">instant</a>
		author	1..1		<a href="#">Reference(Practitioner as Practitioner with Mandatory Identifier   Patient as Patient with Mandatory Identifier   RelatedPerson as RelatedPerson with Mandatory Identifier)</a>
		description	0..1		<a href="#">string</a>
		content	1..1		<a href="#">BackboneElement</a>
		attachment	1..1		<a href="#">Attachment</a>

# 5 CDA Header templates

This chapter contains the CDA Header requirements for this implementation guide; these are infrastructure or control requirements that are not sourced from the Advance Care Planning model.

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

## 5.1 ClinicalDocument

### CDA mapping

CDA schema element	Definition	Card	Constraints and comments
CDA Header Data Elements		Context: /	
ClinicalDocument	The ClinicalDocument class is the entry point into the CDA R-MIM, and corresponds to the <ClinicalDocument> XML element that is the root element of a CDA document.	1..1	<p>This template <b>SHALL</b> be a closed template.</p> <p>All attributes of the ClinicalDocument element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.</p> <p>The CDA document <b>SHALL</b> be valid against the Australian Digital Health Agency CDA schema after any additional extensions not in the Australian Digital Health Agency extension namespace have been removed.</p>
ClinicalDocument/realmCode	A realmCode signals the imposition of realm-specific constraints. The value identifies the realm in question.	0..*	All attributes of the //realmCode element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/typeId	A technology-neutral explicit reference to the CDA Release 2 specification.	1..1	
ClinicalDocument/typeId/@extension="POCD_HD000040"		1..1	The unique identifier for the CDA Release 2 Hierarchical Description.
ClinicalDocument/typeId/@root="2.16.840.1.113883.1.3"		1..1	The OID for HL7 Registered models.

CDA schema element	Definition	Card	Constraints and comments
ClinicalDocument/templateId	A templateId signals the imposition of a set of template-defined constraints. The value provides a unique identifier for the templates in question.	1..*	<p>All attributes of the //templateId element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.</p> <p>Exactly one template identifier <b>SHALL</b> indicate the constraints defined in this mapping table and have @root="1.2.36.1.2001.1001.102.101.100033" and @extension="1.0".</p> <p>Exactly one template identifier <b>SHALL</b> indicate the constraints defined in the CDA Rendering Specification [NEHT2012s] and have @root="1.2.36.1.2001.1001.100.226" and @extension="1.0".</p> <p>In addition to the template identifiers above, a template identifier is expected for the clinical document model as per <a href="#">Composition (Advance Care Planning)</a>. Additional template identifiers may be required by other specifications.</p> <p>Systems are not required to recognise any other template identifiers than the clinical document model templateId in order to understand the document as a [type] but these identifiers may influence how the document must be handled.</p>
ClinicalDocument/id	Represents the unique instance identifier of a clinical document.	1..1	<p>All attributes of the //id element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.</p> <p>See <a href="#">&lt;id&gt;</a> for available attributes.</p>
ClinicalDocument/code	The code specifying the particular kind of document (e.g. History and Physical, Discharge Summary, Progress Note).	1..1	<p>All attributes of the //code element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.</p> <p>See <a href="#">&lt;code&gt;</a> for available attributes.</p>
ClinicalDocument/title	Represents the title of the document.	0..1	
ClinicalDocument/effectiveTime	Signifies the document creation time, when the document first came into being. Where the CDA document is a transform from an original document in some other format, the ClinicalDocument.effectiveTime is the time the original document is created.	1..1	<p>All attributes of the //effectiveTime element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.</p> <p>See <a href="#">&lt;time&gt;</a> for available attributes.</p>
ClinicalDocument/confidentialityCode/@nullFlavor="NA"	Codes that identify how sensitive a piece of information is and/or that indicate how the information may be made available or disclosed.	1..1	
ClinicalDocument/languageCode	Specifies the human language of character data (whether they be in contents or attribute values).	0..1	
ClinicalDocument/languageCode/@code		1..1	<p>&lt;Language Code&gt; – &lt;DIALECT&gt; The &lt;Language Code&gt; <b>SHALL</b> be "en". The &lt;DIALECT&gt; <b>SHOULD</b> be "AU".</p>
ClinicalDocument/setId	Represents an identifier that is common across all document revisions.	0..1	<p>All attributes of the //setId element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.</p> <p>See <a href="#">&lt;id&gt;</a> for available attributes.</p>
ClinicalDocument/versionNumber	An integer value used to version successive replacement documents.	0..1	
ClinicalDocument/versionNumber/@value		1..1	

CDA schema element	Definition	Card	Constraints and comments
ClinicalDocument/ext:completionCode	The lifecycle status of a document.	1..1	All attributes of the //completionCode element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.  See <code> for available attributes.  <a href="#">Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required)</a>
ClinicalDocument/recordTarget	Represents the medical record that this document belongs to.	1..1	All attributes and elements of the //recordTarget element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/author	Represents the humans and/or machines that authored the document.	1..1	All attributes and elements of the //author element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/dataEnterer	Represents the participant who has transformed a dictated note into text.	0..1	All attributes and elements of the //dataEnterer element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/informant	Represents an informant (or source of information) who provides relevant information, such as the parent of a comatose patient who describes the patient's behavior prior to the onset of coma. Unless otherwise stated, the patient is implicitly the informant.	0..*	All attributes and elements of the //informant element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/custodian	Represents the organization from which the document originates and that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian.	1..1	All attributes and elements of the //custodian element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/informationRecipient	Represents a recipient who should receive a copy of the document.	0..*	All attributes and elements of the //informationRecipient element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/legalAuthenticator	Represents a participant who has legally authenticated the document.	0..1	All attributes and elements of the //legalAuthenticator element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/authenticator	Represents a participant who has attested to the accuracy of the document, but who does not have privileges to legally authenticate the document. An example would be a resident physician who sees a patient and dictates a note, then later signs it.	0..*	All attributes and elements of the //authenticator element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/participant	Represents a participant not explicitly mentioned by other classes that was somehow involved.	0..*	All attributes and elements of the //participant element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/inFulfillmentOf	Relates the current document to an order this document fulfills (in whole or in part).	0..*	All attributes and elements of the //inFulfillmentOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/documentationOf	Relates the current document to the related event that this document is documentation of.	0..*	All attributes and elements of the //documentationOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/relatedDocument	Relates the current document to a parent document.	0..*	All attributes and elements of the //relatedDocument element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/authorization	Relates the current document to consents associated with this document. The consent authorizes or certifies acts specified in the current document.	0..*	All attributes and elements of the //authorization element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/componentOf	Relates the current document to the encounter. The current document is a documentation of events that occurred during the encounter.	0..1	All attributes and elements of the //componentOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/component	Relates the associated document body as a component of the document.	1..1	All attributes and elements of the //component element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.

## 5.2 LegalAuthenticator

### CDA mapping

CDA schema element	Definition	Card	Constraints and comments
<b>CDA Header Data Elements</b>			Context: /ClinicalDocument/
legalAuthenticator	Represents a participant who has legally authenticated the document.	Cardinality comes from linking elements	
legalAuthenticator/templateId	The use of templateId signals the imposition of a set of template-defined constraints.	1..1	
legalAuthenticator/templateId/@root="1.2.36.1.2001.1001.102.101.100012"		1..1	
legalAuthenticator/templateId/@extension="1.0"		1..1	
legalAuthenticator/time/@value	Indicates the time of authentication.	1..1	
legalAuthenticator/signatureCode/@code="S"	Indicates that the signature has been affixed and is on file.	1..1	
legalAuthenticator/assignedEntity	A legalAuthenticator is a person in the role of an assigned entity (AssignedEntity class). An assigned entity is a person assigned to the role by the scoping organization. The entity playing the role is a person (Person class). The entity scoping the role is an organization (Organization class).	1..1	
legalAuthenticator/assignedEntity/code	The specific kind of role.	0..1	See <code> for available attributes.
legalAuthenticator/assignedEntity/id	A unique identifier for the player entity in this role.	1..1	See <id> for available attributes.
legalAuthenticator/assignedEntity/assignedPerson	The entity playing the role (assignedEntity) is a person.	1..1	
legalAuthenticator/assignedEntity/assignedPerson/ext:asEntityIdentifier	The entity identifier of the person.	0..*	See <Entity Identifier> for available attributes. Recommended mappings for the complex data type to CDA (R2): Identifier.
legalAuthenticator/assignedEntity/addr	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	Recommended mappings for the complex data type to CDA (R2): Address.
legalAuthenticator/assignedEntity/telecom	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	Recommended mappings for the complex data type to CDA (R2): ContactPoint.
legalAuthenticator/assignedEntity/assignedPerson/name	A non-unique textual identifier or moniker for the entity (assignedPerson).	0..*	Recommended mappings for the complex data type to CDA (R2): HumanName.
legalAuthenticator/assignedEntity/representedOrganization	The entity scoping the role (assignedEntity).	0..1	
legalAuthenticator/assignedEntity/representedOrganization/ext:asEntityIdentifier	A unique identifier for the scoping entity (represented organization) in this role (assignedEntity).	0..*	See <Entity Identifier> for available attributes. Recommended mappings for the complex data type to CDA (R2): Identifier.

CDA schema element	Definition	Card	Constraints and comments
legalAuthenticator/assignedEntity/representedOrganization/name	A non-unique textual identifier or moniker for the entity (representedOrganization).	0..*	

## 5.3 Administrative Observations

### CDA mapping

CDA schema element	Definition	Card	Constraints and comments
Conformance level comes from linking elements		Context: /ClinicalDocument/component/structuredBody/	
component[admin_obs]	The ACP document model contains a number of elements for which there are no equivalent elements at that point in the hierarchical structure of the model mapped into CDA. These elements are considered to be "Administrative Observations" about the encounter, the patient or some other participant.	Cardinality comes from linking elements	ClinicalDocument <b>SHALL</b> contain at most one Administrative Observation section. The Administrative Observations section <b>SHALL NOT</b> be populated if there are no entries or text to go in it.
component[admin_obs]/section		1..1	
component[admin_obs]/section/templateId		1..1	The use of templateId signals the imposition of a set of template-defined constraints.
component[admin_obs]/section/templateId/@root="1.2.36.1.2001.1001.102.101.100000"		1..1	
component[admin_obs]/section/templateId/@extension="1.0"		1..1	
component[admin_obs]/section/id		0..1	See <a href="#">&lt;id&gt;</a> for available attributes.
component[admin_obs]/section/code		1..1	
component[admin_obs]/section/code/@code="102.16080"		1..1	
component[admin_obs]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		1..1	
component[admin_obs]/section/code/@codeSystemName		0..1	Optional CDA element.  The value <b>SHOULD</b> be "NCTIS Data Components".
component[admin_obs]/section/code/@displayName		0..1	Optional CDA element.  The value <b>SHOULD</b> be "Administrative Observations".
component[admin_obs]/section/title="Administrative Observations"		0..1	
component[admin_obs]/section/text		0..1	See <a href="#">CDA narratives</a> .

# 6 Document CDA templates

This chapter contains mapping from the Composition (Advance Care Planning) model to a CDA clinical document class, expressed as a series of CDA templates that describe how the CDA document is composed.

CDA templates are expected to be reused from one document type (or Composition model) to another. Each CDA template is presented under a heading in the format of "CDA schema element" ("model name") where "CDA schema element" is the root element for a CDA template and "model name" is the name of a model that constrains an element in the Advance Care Planning Hierarchy.

## 6.1 Composition (Advance Care Planning)

The following are the usage scenarios expected:

- A clinical information system (CIS) sends or receives an Advance Care Plan with the My Health Record system
- A contracted service provider (CSP) sends or receives an Advance Care Plan with the My Health Record system
- A CIS sends or receives an Advance Care Plan with another CIS or CSP
- A CSP sends or receives an Advance Care Plan with a CIS or another CSP
- A registered portal sends or receives an Advance Care Plan
- A registered repository receives an Advance Care Plan

For the usage scenarios for this template it is required that the composition include only the specified top-level sections; additional sections to handle local content not covered by the primary design can be included as one or more child sections within one of the specified top-level sections if desired.

## CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
				Context: /	
Composition	A copy of a statement of an individual's decisions about their future care, should they become incapable of participating in medical treatment decisions.	1..1	<a href="#">DomainResource</a>	ClinicalDocument	In addition to the template defined in this mapping table, ClinicalDocument <b>SHALL</b> conform to the template defined in <a href="#">ClinicalDocument</a> .
				ClinicalDocument/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.102.101.100016"	
				ClinicalDocument/templateId/@extension="1.0"	
Composition > <b>composition-author-role</b>	A practitioner role that authored this composition. This is not to be confused with who typed in the information.	0..1	<a href="#">Reference(PractitionerRole as PractitionerRole with Practitioner with Mandatory Identifier)</a>	ClinicalDocument/author	author <b>SHALL</b> conform to the template defined in <a href="#">author (PractitionerRole with Practitioner with Mandatory Identifier)</a> .
Composition > <b>identifier</b>	Logical identifier for the composition, assigned when created. This identifier stays constant as the composition is changed over time.	0..1	<a href="#">Identifier</a>	ClinicalDocument/setId	
Composition > <b>status</b>	The workflow/clinical status of this composition. The status is a marker for the clinical standing of the document.	1..1	<a href="#">code</a>	ClinicalDocument/ext:completionCode	<a href="#">Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required)<sup>1</sup></a>
Composition > <b>type</b>	Specifies the particular kind of composition (e.g. History and Physical, Discharge Summary, Progress Note). This usually equates to the purpose of making the composition.	1..1	<a href="#">CodeableConcept</a>	ClinicalDocument/code	
				ClinicalDocument/code/@code="100.16975"	
				ClinicalDocument/code/@codeSystem="1.2.36.1.2001.1001.101"	
				ClinicalDocument/code/@codeSystemName	Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components".
				ClinicalDocument/code/@displayName	displayName <b>SHOULD</b> be "Advance Care Information".
Composition > <b>subject</b>	Who or what the composition is about. The composition can be about a person, (patient or healthcare practitioner), a device (e.g. a machine) or even a group of subjects (such as a document about a herd of livestock, or a set of patients that share a common exposure).	1..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier)</a>	ClinicalDocument/recordTarget	recordTarget <b>SHALL</b> conform to the template defined in <a href="#">recordTarget (Patient with Mandatory Identifier)</a> .
Composition > <b>date</b>	The composition editing time, when the composition was last logically changed by the author.	1..1	<a href="#">dateTime</a>	ClinicalDocument/author/time	

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Composition > <b>author</b>	Identifies who is responsible for the information in the composition, not necessarily who typed it in.	1..1	<a href="#">Reference(Patient)</a> as Patient with Mandatory Identifier <a href="#">Practitioner</a> as Practitioner with Mandatory Identifier <a href="#">RelatedPerson</a> as RelatedPerson with Mandatory Identifier	ClinicalDocument/author	In CDA an author (Practitioner) is part of composition-author-role (PractitionerRole); therefore if the author is a practitioner then composition-author-role <b>SHALL</b> be instantiated.  author <b>SHALL</b> conform to a template defined in <a href="#">author (Patient with Mandatory Identifier)</a> or <a href="#">author (RelatedPerson with Mandatory Identifier)</a> or <a href="#">author (PractitionerRole with Practitioner with Mandatory Identifier)</a> .
Composition > <b>title</b>	Official human-readable label for the composition.	1..1	<a href="#">string</a>	ClinicalDocument/title="Advance Care Planning"	
Composition > <b>attester (Legal Attester)</b>	A participant who has attested to the accuracy of the composition/document.	0..1	<a href="#">BackboneElement</a>	ClinicalDocument/legalAuthenticator	A legal attester <b>SHALL</b> have a party or an attester-related-party but not both.  legalAuthenticator <b>SHALL</b> conform to the template defined in <a href="#">LegalAuthenticator</a> .
Composition > attester (Legal Attester) > <b>mode</b>	The type of attestation the authenticator offers.	1..1	<a href="#">code</a>	n/a	attester.mode="legal"; the person authenticated the content and accepted legal responsibility for its content.
Composition > attester (Legal Attester) > <b>time</b>	When the composition was attested by the party.	1..1	<a href="#">dateTime</a>	n/a	Not mapped separately, implicit in legalAuthenticator/time/@value.
Composition > attester (Legal Attester) > <b>party</b>	Who attested the composition in the specified way.	1..1	<a href="#">Reference(Patient)</a> as Patient with Mandatory Identifier   <a href="#">Practitioner</a> as Practitioner with Mandatory Identifier	n/a	Not mapped separately, implicit in legalAuthenticator/as-signedEntity.
Composition > attester (Legal Attester) > <b>attester-related-party</b>	A related person that attested this composition.	0..1	<a href="#">Reference(RelatedPerson)</a> as RelatedPerson with Mandatory Identifier	n/a	Not mapped separately, implicit in legalAuthenticator/as-signedEntity.
Composition > <b>custodian</b>	Identifies the organization or group who is responsible for ongoing maintenance of and access to the composition/document information.	1..1	<a href="#">Reference(Organization)</a> as Organization with Mandatory Identifier	ClinicalDocument/custodian	custodian <b>SHALL</b> conform to the template defined in <a href="#">custodian (Organization with Mandatory Identifier)</a> .
Composition > <b>section (Advance Care Information)</b>	A section that contains a statement of a person's decisions about their future care, should they become incapable of participating in medical treatment decisions.	1..1	<a href="#">BackboneElement</a>	ClinicalDocument/component/structuredBody/component[aci] ClinicalDocument/component/structuredBody/component[aci]/section	section <b>SHALL</b> conform to the template defined in <a href="#">section (Advance Care Information)</a> .

<sup>1</sup>Note: Mappings between the set of concepts in the terminology binding on status in Advance Care Planning [DH2019e] and in the CDA model are defined in [Composition Status FHIR to Australian CDA Document Lifecycle Status](#) concept map.



# 7 Participation CDA templates

This chapter contains mapping from the Individual (e.g. Patient with Mandatory Identifier) and Entity (e.g. Organization with Mandatory Identifier) models to CDA participation classes, expressed as a series of CDA templates that describe how each CDA participation is composed.

CDA templates are expected to be reused from one document type (or Composition model) to another. Each CDA template is presented under a heading in the format of "CDA schema element" ("model name") where "CDA schema element" is the root element for a CDA template and "model name" is the name of a model that constrains an element in the Advance Care Planning Hierarchy.

## 7.1 recordTarget (Patient with Mandatory Identifier)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/			
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<code>recordTarget[pat]</code>	
				<code>recordTarget[pat]/templateId</code>	The use of templateId signals the imposition of a set of template-defined constraints.
				<code>recordTarget[pat]/templateId/@root="1.2.36.1.2001.1001.102.101.100004"</code>	
				<code>recordTarget[pat]/templateId/@extension="1.0"</code>	
				<code>recordTarget[pat]/patientRole/id</code>	See <a href="#">&lt;id&gt;</a> for available attributes.
				<code>recordTarget[pat]/patientRole/patient</code>	
Patient > <b>birthPlace</b>	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	<code>recordTarget[pat]/patientRole/patient/birthplace</code>	
				<code>recordTarget[pat]/patientRole/patient/birthplace/place</code>	
				<code>recordTarget[pat]/patientRole/patient/birthplace/place/addr</code>	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Patient > <b>indigenous-status</b>	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	<code>recordTarget[pat]/patientRole/patient/ethnicGroupCode</code>	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">Australian Indigenous Status (required)</a>

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>					
Patient > closing-the-gap-registration	Closing the Gap registration indicator for an Australian patient.	0..1	<a href="#">boolean</a>	entry[close_gap] entry[close_gap]/observation entry[close_gap]/observation/@classCode="OBS" entry[close_gap]/observation/@moodCode="EVN" entry[close_gap]/observation/id entry[close_gap]/observation/code entry[close_gap]/observation/code/@code="103.32011" entry[close_gap]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[close_gap]/observation/code/@codeSystemName entry[close_gap]/observation/code/@displayName entry[close_gap]/observation/value	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes. codeSystemName <b>SHOULD</b> be "NCTIS Data Components". displayName <b>SHOULD</b> be "Closing the Gap Copayment Eligibility Indicator". The value is 'true' if eligible for Closing the Gap co-payment. //value/@xsi:type <b>SHALL</b> be "BL".
Patient > patient-mothersMaidenName	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	entry[mothers_name] entry[mothers_name]/observation entry[mothers_name]/observation/@classCode="OBS" entry[mothers_name]/observation/@moodCode="EVN" entry[mothers_name]/observation/id entry[mothers_name]/observation/code entry[mothers_name]/observation/code/@code="103.10245" entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[mothers_name]/observation/code/@codeSystemName entry[mothers_name]/observation/code/@displayName entry[mothers_name]/observation/value	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes. codeSystemName <b>SHOULD</b> be "NCTIS Data Components". displayName <b>SHOULD</b> be "Mother's Original Family Name". //value/@xsi:type <b>SHALL</b> be "ST".

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Patient > <b>identifier</b>	An identifier for this patient.	1..*	<a href="#">Identifier</a>	recordTarget[pat]/patientRole/patient/ext:asEntityIdentifier	See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	<a href="#">HumanName</a>	recordTarget[pat]/patientRole/patient/name	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	recordTarget[pat]/patientRole/telecom	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	recordTarget[pat]/patientRole/patient/administrativeGenderCode	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">AdministrativeGender (required)</a>
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	recordTarget[pat]/patientRole/patient/birthTime	See <a href="#">&lt;time&gt;</a> for available attributes.
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/ See <a href="#">Administrative Observations</a> .			
Patient > birthDate > <b>date-accuracy-indicator</b>	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	entry[dob_acc]	
				entry[dob_acc]/observation	
				entry[dob_acc]/observation/@classCode="OBS"	
				entry[dob_acc]/observation/@moodCode="EVN"	
				entry[dob_acc]/observation/id	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes.
				entry[dob_acc]/observation/code	
				entry[dob_acc]/observation/code/@code="102.16234"	
				entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	
				entry[dob_acc]/observation/code/@codeSystemName	Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components".
				entry[dob_acc]/observation/code/@displayName	Optional CDA element. displayName <b>SHOULD</b> be "Date of Birth Accuracy Indicator".
				entry[dob_acc]/observation/value	//value/@xsi:type <b>SHALL</b> be "CS". <a href="#">Date Accuracy Indicator (required)</a>
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Patient > birthDate > <b>patient-birthTime</b>	The time of day that the Patient was born. This includes the date to ensure that the timezone information can be communicated effectively.	0..1	<a href="#">dateTime</a>	n/a	Not mapped separately, encompassed in patientRole/patient/birthTime.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Patient > deceased	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a> <a href="#">dateTime</a>	recordTarget[pat]/patientRole/patient/ext:deceasedInd recordTarget[pat]/patientRole/patient/ext:deceasedTime	Only one of patientRole/patient/ext:deceasedInd or patientRole/patient/ext:deceasedTime <b>SHOULD</b> be instantiated.
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/ See <a href="#">Administrative Observations</a>
Patient > deceased > date-accuracy-indicator	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	entry[dod_acc] entry[dod_acc]/observation entry[dod_acc]/observation/@classCode="OBS" entry[dod_acc]/observation/@moodCode="EVN" entry[dod_acc]/observation/id entry[dod_acc]/observation/code entry[dod_acc]/observation/code/@code="102.16252" entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[dod_acc]/observation/code/@codeSystemName entry[dod_acc]/observation/code/@displayName entry[dod_acc]/observation/value	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes.  Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components".  Optional CDA element. displayName <b>SHOULD</b> be "Date of Death Accuracy Indicator".  //value/@xsi:type <b>SHALL</b> be "CS". <a href="#">Date Accuracy Indicator (required)</a>
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Patient > address	Addresses for the individual.	0..*	<a href="#">Address</a>	recordTarget[pat]/patientRole/addr	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a> .
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	recordTarget[pat]/patientRole/patient/maritalStatusCode	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">Marital Status Codes (extensible)</a>
Patient > multipleBirth	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a> <a href="#">integer</a>	recordTarget[pat]/patientRole/patient/ext:multipleBirthInd recordTarget[pat]/patientRole/patient/ext:multipleBirthOrderNumber	Only one of patientRole/patient/ext:multipleBirthInd or patientRole/patient/ext:multipleBirthOrderNumber <b>SHOULD</b> be instantiated.
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	participant[pat_contact]	participant[pat_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Patient contact)</a> .
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	recordTarget[pat]/patientRole/patient/languageCommunication	

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Patient > communication > <b>language</b>	The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. 'en' for English, or 'en-US' for American English versus 'en-EN' for England English.	1..1	<a href="#">CodeableConcept</a>	recordTarget[pat]/patientRole/patient/languageCommunication/languageCode	See < <a href="#">code</a> > for available attributes. <a href="#">Common Languages in Australia (extensible)</a>
Patient > communication > <b>preferred</b>	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	<a href="#">boolean</a>	recordTarget[pat]/patientRole/patient/languageCommunication/preferenceInd	
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference(<a href="#">Organization</a> as Base Organization <a href="#">Practitioner</a> as Base Practitioner)</a>	<b>participant</b>	participant <b>SHALL</b> conform to the template defined in <a href="#">participant (generalPractitioner Base Organization)</a> or <a href="#">participant (generalPractitioner Base Practitioner)</a> .
Patient > <b>managingOrganization</b>	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference(<a href="#">Organization</a> as Base Organization)</a>	recordTarget[pat]/patientRole/providerOrganization[manag_org]	providerOrganization <b>SHALL</b> conform to the template defined in <a href="#">providerOrganization (Base Organization)</a> .

## 7.2 participant (Patient contact)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>					
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	Cardinality comes from linking elements	<a href="#">BackboneElement</a>	Context: /ClinicalDocument/	
				<b>participant[pat_contact]</b>	contact <b>SHALL</b> have at least name, or telecom, or address, or organization instantiated.
				<b>participant[pat_contact]/@typeCode="IND"</b>	
				<b>participant[pat_contact]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>participant[pat_contact]/templateId/@root="1.2.36.1.2001.1001.102.101.100056"</b>	
				<b>participant[pat_contact]/templateId/@extension="1.0"</b>	
				<b>participant[pat_contact]/associatedEntity</b>	
				<b>participant[pat_contact]/associatedEntity/@typeCode="CON"</b>	
Patient > contact > <b>relationship</b>	The nature of the relationship between the patient and the contact person.	0..*	<a href="#">CodeableConcept</a>	<b>participant[pat_contact]/associatedEntity/associatedPerson/ext:personalRelationship</b>	<a href="#">ContactEntityType (extensible)</a> See <Personal Relationship> for available attributes.
Patient > contact > <b>name</b>	A name associated with the contact person.	0..1	<a href="#">HumanName</a>	<b>participant[pat_contact]/associatedEntity/associatedPerson/name</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
Patient > contact > <b>telecom</b>	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	<b>participant[pat_contact]/associatedEntity/telecom</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Patient > contact > <b>address</b>	Address for the contact person.	0..1	<a href="#">Address</a>	<b>participant[pat_contact]/associatedEntity/addr</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Patient > contact > <b>gender</b>	Administrative Gender - the gender that the contact person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	<b>participant[pat_contact]/associatedEntity/associatedPerson/ext:administrativeGenderCode</b>	See < <a href="#">code</a> > for available attributes. <a href="#">AdministrativeGender (required)</a>
Patient > contact > <b>organization</b>	Organization on behalf of which the contact is acting or for which the contact is working.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	<b>participant[pat_contact]/associatedEntity/scopingOrganization</b>	contact > organization template is not currently defined.
Patient > contact > <b>period</b>	The period during which this contact person or organization is valid to be contacted relating to this patient.	0..1	<a href="#">Period</a>	<b>participant[pat_contact]/associatedEntity/scopingOrganization/typeCode="ORG"</b>	
				n/a	This logical element has no mapping to CDA.

## 7.3 participant (generalPractitioner Base Organization)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	participant[gen_prac_org]	The organization <b>SHALL</b> at least have an identifier (participant[gen_prac_org]/associatedEntity/scopingOrganization/ext:asEntityIdentifier) or a name (participant[gen_prac_org]/associatedEntity/scopingOrganization/name).
				participant[gen_prac_org]/@typeCode="PART"	
				participant[gen_prac_org]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[gen_prac_org]/templateId/@root="1.2.36.1.2001.1001.102.101.100036"	
				participant[gen_prac_org]/templateId/@extension="1.0"	
				participant[gen_prac_org]/functionCode/@code="PCP"	
				participant[gen_prac_org]/associatedEntity	
				participant[gen_prac_org]/associatedEntity/@classCode="PROV"	
				participant[gen_prac_org]/associatedEntity/id	Optional CDA element.  See <a href="#">&lt;id&gt;</a> for available attributes.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	participant[gen_prac_org]/associatedEntity/scopingOrganization/ext:asEntityIdentifier	See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes.  Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..1	<a href="#">CodeableConcept</a>	participant[gen_prac_org]/associatedEntity/code	See <a href="#">&lt;code&gt;</a> for available attributes.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	participant[gen_prac_org]/associatedEntity/scopingOrganization/name	In CDA name and alias are represented by //scopingOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	participant[gen_prac_org]/associatedEntity/scopingOrganization/name	In CDA name and alias are represented by //scopingOrganization/name.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	participant[gen_prac_org]/associatedEntity/telecom	telecom/@use is <a href="#">Organization Telecom Use HL7 V3 (required)</a> .  Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	participant[gen_prac_org]/associatedEntity/addr	addr/@use is <a href="#">Organization Address Use HL7 V3 (required)</a> . Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	participant[gen_prac_org]/asOrganizationPartOf participant[gen_prac_org]/asOrganizationPartOf/wholeOrganization	The organization <b>SHALL</b> have at least a name (//wholeOrganization/name) or an identifier (//wholeOrganization/ext:asEntityIdentifier). Organization > partOf template is not currently defined.
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<a href="#">participant[org_contact]</a>	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

## 7.4 participant (generalPractitioner Base Practitioner)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	participant[gen_prac_prac]	The practitioner <b>SHALL</b> at least have an identifier (participant[gen_prac_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier) or a name (participant[gen_prac_prac]/associatedEntity/associatedPerson/name).
				participant[gen_prac_prac]/@typeCode="PART"	
				participant[gen_prac_prac]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[gen_prac_prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100037"	
				participant[gen_prac_prac]/templateId/@extension="1.0"	
				participant[gen_prac_prac]/functionCode/@code="PCP"	
				participant[gen_prac_prac]/associatedEntity	
				participant[gen_prac_org]/associatedEntity/@classCode="PROV"	
				participant[gen_prac_prac]/associatedEntity/id	Optional CDA element.  See < <a href="#">id</a> > for available attributes.
				participant[gen_prac_prac]/associatedEntity/code	Optional CDA element.  <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a>
Practitioner > <b>identifier</b>	An identifier that applies to this person in this role.	0..*	<a href="#">Identifier</a>	participant[gen_prac_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier	See < <a href="#">Entity Identifier</a> > for available attributes.  Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Practitioner > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>name</b>	The name(s) associated with the practitioner.	0..*	<a href="#">HumanName</a>	participant[gen_prac_prac]/associatedEntity/associatedPerson/name	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Practitioner > <b>telecom</b>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	participant[gen_prac_prac]/associatedEntity/telecom	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Practitioner > <b>address</b>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	participant[gen_prac_prac]/associatedEntity/addr	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Practitioner > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	participant[gen_prac_prac]/associatedEntity/associatedPerson/ext:administrativeGenderCode	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">AdministrativeGender (required)</a>
Practitioner > <b>birthDate</b>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	participant[gen_prac_prac]/associatedEntity/associatedPerson/ext:birthTime	
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then this element is expected to be as //ext:Qualifications/@classCode="QUAL". See <a href="#">&lt;Qualification&gt;</a> for available attributes.</p> <p>If more information can be captured than a narrative list then this logical element is expected to be instantiated as ext:coverage2[prac_qual] and <b>SHALL</b> conform to the template defined in <a href="#">ext:coverage (Practitioner qualification)</a>.</p>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	n/a	<p>This logical element is not currently mapped into CDA.</p> <p>This may be supported in future by an entry in Administrative Observations or by the addition of an extension to add the languageCommunication element to the Person class.</p>

## 7.5 author (Patient with Mandatory Identifier)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Patient</b>	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>author[pat]</b>	
				<b>author[pat]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author[pat]/templateId/@root="1.2.36.1.2001.1001.102.101.100003"</b>	
				<b>author[pat]/templateId/@extension="1.0"</b>	
				<b>author[pat]/assignedAuthor/id</b>	
				<b>author[pat]/assignedAuthor/code</b>	
				<b>author[pat]/assignedAuthor/code/@code="ONESELF"</b>	
				<b>author[pat]/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.111"</b>	
				<b>author[pat]/assignedAuthor/assignedPerson</b>	
Patient > <b>birthPlace</b>	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/birthPlace/place/addr.
Patient > <b>indigenous-status</b>	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/ethnicGroupCode.
Patient > <b>closing-the-gap-registration</b>	Closing the Gap registration indicator for an Australian patient.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly for this participant; this is implicit in //entry[close_gap]/observation/value.
Patient > <b>patient-mothersMaiden-Name</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	n/a	Not mapped directly for this participant; this is implicit in //entry[mothers_name]/observation/value.
Patient > <b>identifier</b>	An identifier for this patient.	1..*	<a href="#">Identifier</a>	<b>author[pat]/assignedAuthor/assignedPerson/ext:asEntityIdentifier</b>	See < <a href="#">Entity Identifier</a> > for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	<a href="#">HumanName</a>	<b>author[pat]/assignedAuthor/assignedPerson/name</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	<b>author[pat]/assignedAuthor/telecom</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	<b>author[pat]/assignedAuthor/assignedPerson/ext:administrativeGenderCode</b>	See < <a href="#">code</a> > for available attributes. <a href="#">AdministrativeGender (required)</a>

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/birthTime.
Patient > <b>deceased</b>	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a> <a href="#">dateTime</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/ext:deceasedTime or //recordTarget/patientRole/patient/ext:deceasedInd.
Patient > <b>address</b>	Addresses for the individual.	0..*	<a href="#">Address</a>	author[pat]/assignedAuthor/addr	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a> .
Patient > <b>maritalStatus</b>	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/maritalStatusCode.
Patient > <b>multipleBirth</b>	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a> <a href="#">integer</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/ext:multipleBirthInd or //recordTarget/patientRole/patient/multipleBirthOrderNumber.
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>communication</b>	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient/languageCommunication.
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference(</a> <a href="#">Organization</a> as Base Organization <a href="#">Practitioner</a> as Base Practitioner)	n/a	This logical element has no mapping to CDA.
Patient > <b>managingOrganization</b>	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference(Organization</a> as Base Organization)	n/a	This logical element has no mapping to CDA.

## 7.6 author (RelatedPerson with Mandatory Identifier)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
<b>RelatedPerson</b>	Information about a person that is involved in the care for a patient, but who is not the target of healthcare, nor has a formal responsibility in the care process.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>author[relper]</b>	
				<b>author[relper]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author[relper]/templateId/@root="1.2.36.1.2001.1001.102.101.100030"</b>	
				<b>author[relper]/templateId/@extension="1.0"</b>	
				<b>author[relper]/assignedAuthor</b>	
				<b>author[relper]/assignedAuthor/id</b>	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes.
				<b>author[relper]/assignedAuthor/code</b>	
				<b>author[relper]/assignedAuthor/code/@code="AGNT"</b>	
				<b>author[relper]/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.110"</b>	
				<b>author[relper]/assignedAuthor/assignedPerson</b>	
RelatedPerson > identifier	Identifier for a person within a particular scope.	1..*	<a href="#">Identifier</a>	<b>author[relper]/assignedAuthor/assignedPerson/ext:asEntityIdentifier</b>	See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
RelatedPerson > active	Whether this related person record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
RelatedPerson > patient	The patient this person is related to.	1..1	<a href="#">Reference(Patient as Base Patient)</a>	n/a	Not mapped directly for this participant; this is implicit in //recordTarget/patientRole/patient.
RelatedPerson > relationship	The nature of the relationship between a patient and the related person.	0..1	<a href="#">CodeableConcept</a>	<b>author[relper]/assignedAuthor/assignedPerson/ext:personalRelationship</b>	<a href="#">Related Person Relationship Type (extensible)</a> See <a href="#">&lt;Personal Relationship&gt;</a> for available attributes.
RelatedPerson > name	A name associated with the person.	0..*	<a href="#">HumanName</a>	<b>author[relper]/assignedAuthor/assignedPerson/name</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
RelatedPerson > telecom	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	<b>author[relper]/assignedAuthor/telecom</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
RelatedPerson > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	<b>author[relper]/assignedAuthor/assignedPerson/ext:administrativeGenderCode</b>	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">AdministrativeGender (required)</a>
RelatedPerson > birthDate	The date on which the related person was born.	0..1	<a href="#">date</a>	<b>author[relper]/assignedAuthor/assignedPerson/ext:birthTime</b>	See <a href="#">&lt;time&gt;</a> for available attributes.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
RelatedPerson > <b>address</b>	Address where the related person can be contacted or visited.	0..*	<a href="#">Address</a>	author[relper]/assignedAuthor/ <b>addr</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a> .
RelatedPerson > <b>period</b>	The period of time that this relationship is considered to be valid. If there are no dates defined, then the interval is unknown.	0..1	<a href="#">Period</a>	author[relper]/assignedAuthor/assignedPerson/ext:personalRelationship[related]/ext:effectiveTime	See <a href="#">&lt;time&gt;</a> for available attributes.

## 7.7 author (PractitionerRole with Practitioner with Mandatory Identifier)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
<b>PractitionerRole</b>	A specific set of Roles/Locations/specialties/services that a practitioner may perform at an organization for a period of time.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>author[prac_rol]</b>	
				<b>author[prac_rol]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author[prac_rol]/templateId/@root="1.2.36.1.2001.1001.102.101.100006"</b>	
				<b>author[prac_rol]/templateId/@extension="1.0"</b>	
				<b>author[prac_rol]/assignedAuthor</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author[prac_rol]/assignedAuthor/id</b>	
<b>PractitionerRole &gt; identifier</b>	Business identifiers for practitioner in a role.	0..*	<a href="#">Identifier</a>	<b>author[prac_rol]/assignedAuthor/assignedPerson/ext:asEntityIdentifier</b>	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					Cardinality of this element <b>SHALL</b> be interpreted as 1..*. See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes.
<b>PractitionerRole &gt; active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					Cardinality of this element <b>SHALL</b> be interpreted as 1..*. See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes.
<b>Practitioner &gt; period</b>	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.	0..1	<a href="#">Period</a>	n/a	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					Cardinality of this element <b>SHALL</b> be interpreted as 1..*. See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes.
<b>PractitionerRole &gt; practitioner</b>	Practitioner that is able to provide the defined services for the organization.	1..1	<a href="#">DomainResource</a>	<b>author[prac_rol]/assignedAuthor/assignedPerson</b>	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					assignedPerson <b>SHALL</b> conform to the template defined in <a href="#">assignedPerson ()</a> .
<b>PractitionerRole &gt; organization</b>	The organization where the Practitioner performs the roles associated.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	<b>author[prac_rol]/assignedAuthor/representedOrganization</b>	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					representedOrganization <b>SHALL</b> conform to the template defined in <a href="#">representedOrganization (Base Organization)</a> .
<b>PractitionerRole &gt; code</b>	Roles which this practitioner is authorized to perform for the organization.	0..*	<a href="#">code</a>	<b>author[prac_rol]/assignedAuthor/code</b>	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					See <a href="#">&lt;code&gt;</a> for available attributes.
<b>PractitionerRole &gt; specialty</b>	Specific specialty of the practitioner.	0..*	<a href="#">code</a>	n/a	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					specialty is not currently mapped.
<b>PractitionerRole &gt; location</b>	The location(s) at which this practitioner provides care.	0..*	<a href="#">Reference(Location)</a>	n/a	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					location is not currently mapped.
<b>PractitionerRole &gt; healthcareService</b>	The list of healthcare services that this worker provides for this role's Organization/Location(s).	0..*	<a href="#">Reference(HealthcareService)</a>	n/a	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedPerson/ext:asEntityIdentifier.
					healthcareService is not currently mapped.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
PractitionerRole > <b>telecom</b>	Contact details that are specific to the role/location/service.	0..*	<a href="#">ContactPoint</a>	author[prac_rol]/assignedAuthor/telecom	In CDA the telecom for both PractitionerRole and Practitioner for an author participation are expected to be included in //assignedAuthor/telecom.  Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
PractitionerRole > <b>availableTime</b>	A collection of times that the Service Site is available.	0..*	<a href="#">BackboneElement</a>	n/a	availableTime is not currently mapped.
PractitionerRole > <b>notAvailable</b>	The HealthcareService is not available during this period of time due to the provided reason.	0..*	<a href="#">string</a>	n/a	notAvailable is not currently mapped.
PractitionerRole > <b>availabilityExceptions</b>	A description of site availability exceptions, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as details in the available Times and not available Times.	0..1	<a href="#">CodeableConcept</a>	n/a	availabilityExceptions is not currently mapped.

<sup>1</sup>Note: The source representation of this terminology binding on code in PractitionerRole with Practitioner with Mandatory Identifier [DH2019e] is as an optional slice on the [coding](#) part of the code element. In the representation of the model presented in this specification it is normalised as a set of preferred bindings.

## 7.8 custodian (Organization with Mandatory Identifier)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>custodian[org]</b>	
				<b>custodian[org]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>custodian[org]/templateId/@root="1.2.36.1.2001.1001.102.101.100002"</b>	
				<b>custodian[org]/templateId/@extension="1.0"</b>	
				<b>custodian[org]/assignedCustodian</b>	
				<b>custodian[org]/assignedCustodian/representedCustodianOrganization</b>	
				<b>custodian[org]/assignedCustodian/representedCustodianOrganization/id</b>	Optional CDA element.  See <a href="#">&lt;id&gt;</a> for available attributes.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	1..*	<a href="#">Identifier</a>	<b>custodian[org]/assignedCustodian/representedCustodianOrganization/ext:asEntityIdentifier</b>	See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes.  Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..1	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	<b>custodian[org]/assignedCustodian/representedCustodianOrganization/name</b>	In CDA name and alias are represented by //represented-CustodianOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	<b>custodian[org]/assignedCustodian/representedCustodianOrganization/telecom</b>	In CDA the maximum occurrences of representedCustodianOrganization/telecom is 1. Although the model indicates that telecom is 0..*, in a CDA implementation this is limited to 0..1.  telecom/@use is <a href="#">Organization Telecom Use HL7 V3 (required)</a> .  Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	custodian[org]/assignedCustodian/representedCustodianOrganization/addr	addr/@use is <a href="#">Organization Address Use HL7 V3 (required)</a> . In CDA the maximum occurrences of representedCustodianOrganization/addr is 1. Although the model indicates that address is 0..*, in a CDA implementation this is limited to 0..1. Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	n/a	This logical element has no mapping to CDA.
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in <a href="#">participant (Organization contact)</a> .

# 8 Entity CDA templates

This chapter contains mapping from the Individual (e.g. Patient with Mandatory Identifier) and Entity (e.g. Organization with Mandatory Identifier) models to CDA entity classes, expressed as a series of CDA templates that describe how each CDA entity is composed.

CDA templates are expected to be reused from one document type (or Composition model) to another. Each CDA template is presented under a heading in the format of "CDA schema element" ("model name") where "CDA schema element" is the root element for a CDA template and "model name" is the name of a model that constrains an element in the Advance Care Planning Hierarchy.

## 8.1 providerOrganization (Base Organization)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	providerOrganization[manag_org]	The organization <b>SHALL</b> at least have an identifier (providerOrganization[manag_org]/ext:asEntityIdentifier) or a name (providerOrganization[manag_org]/name).
				providerOrganization[manag_org]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				providerOrganization[manag_org]/templateId/@root="1.2.36.1.2001.1001.102.101.100034"	
				providerOrganization[manag_org]/templateId/@extension="1.0"	
				providerOrganization[manag_org]/id	Optional CDA element. See <a href="#">&lt;id&gt;</a> for available attributes.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	providerOrganization[manag_org]/ext:asEntityIdentifier	See <a href="#">&lt;Entity Identifier&gt;</a> for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..1	<a href="#">CodeableConcept</a>	providerOrganization[manag_org]/standardIndustryClassCode	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	providerOrganization[manag_org]/name	In CDA name and alias are represented by //representedOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	providerOrganization[manag_org]/name	In CDA name and alias are represented by //representedOrganization/name.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	providerOrganization[manag_org]/telecom	telecom/@use is <a href="#">Organization Telecom Use HL7 V3 (required)</a> . Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	providerOrganization[manag_org]/addr	addr/@use is <a href="#">Organization Address Use HL7 V3 (required)</a> . Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	providerOrganization[manag_org]/asOrganizationPartOf providerOrganization[manag_org]/asOrganizationPartOf/wholeOrganization	The organization <b>SHALL</b> have at least a name (//wholeOrganization/name) or an identifier (//wholeOrganization/ext:asEntityIdentifier). Organization > partOf template is not currently defined.
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<a href="#">participant[org_contact]</a>	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

## 8.2 participant (Organization contact)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/	
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	Cardinality comes from linking elements	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	
				participant[org_contact]/@typeCode="IND"	
				participant[org_contact]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[org_contact]/templateId/@root="1.2.36.1.2001.1001.102.101.100035"	
				participant[org_contact]/templateId/@extension="1.0"	
				participant[org_contact]/associatedEntity	
				participant[org_contact]/associatedEntity/@classCode="CON"	
				participant[org_contact]/associatedEntity/scopingOrganization	
				participant[org_contact]/associatedEntity/scopingOrganization/@classCode="ORG"	Optional CDA element.
				participant[org_contact]/associatedEntity/scopingOrganization/id	Organization > contact is represented in CDA by a participant that is scoped by the Organization for which they are a contact.  This <b>SHALL</b> hold the same value as the organization this is a contact for (the value in this id element <b>SHALL</b> be present in a separate participation).
Organization > contact > <b>purpose</b>	Indicates a purpose for which the contact can be reached.	0..1	<a href="#">CodeableConcept</a>	participant[org_contact]/associatedEntity/code	See <a href="#">&lt;code&gt;</a> for available attributes.  <a href="#">ContactEntityType (extensible)</a>
Organization > contact > <b>name</b>	A name associated with the contact.	0..1	<a href="#">HumanName</a>	participant[org_contact]/associatedEntity/associatedPerson	
				participant[org_contact]/associatedEntity/associatedPerson/name	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
Organization > contact > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the party may be contacted.	0..*	<a href="#">ContactPoint</a>	participant[org_contact]/associatedEntity/telecom	telecom/@use is <a href="#">Organization Telecom Use HL7 V3 (required)</a> .  Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Organization > contact > <b>address</b>	Visiting or postal addresses for the contact.	0..1	<a href="#">Address</a>	participant[org_contact]/associatedEntity/addr	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .

## 8.3 representedOrganization (Base Organization)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>representedOrganization</b>	The organization <b>SHALL</b> have at least name (//representedOrganization/name) or an identifier (//representedOrganization/ext:asEntityIdentifier) instantiated.
				<b>representedOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>representedOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100039"</b>	
				<b>representedOrganization/templateId/@extension="1.0"</b>	
				<b>representedOrganization/id</b>	See < <a href="#">id</a> > for available attributes.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<b>representedOrganization/ext:asEntityIdentifier</b>	See < <a href="#">Entity Identifier</a> > for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..1	<a href="#">CodeableConcept</a>	<b>representedOrganization/standardIndustryClassCode</b>	See < <a href="#">code</a> > for available attributes. <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	<b>representedOrganization/name</b>	In CDA name and alias are represented by //representedOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	<b>representedOrganization/name</b>	In CDA name and alias are represented by //representedOrganization/name.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	<b>representedOrganization/telecom</b>	telecom/@use is <a href="#">Organization Telecom Use HL7 V3 (required)</a> . Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	<b>representedOrganization/addr</b>	addr/@use is <a href="#">Organization Address Use HL7 V3 (required)</a> . Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference(Organization as Organization Base)</a>	<b>representedOrganization/asOrganizationPartOf</b>	The organization <b>SHALL</b> have at least a name (//wholeOrganization/name) or an identifier (//wholeOrganization/ext:asEntityIdentifier).
				<b>representedOrganization/asOrganizationPartOf/wholeOrganization</b>	Organization > partOf template is not currently defined.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Organization > <a href="#">contact</a>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	participant[org_contact] SHALL conform to the template defined in <a href="#">participant (Organization contact)</a> .

## 8.4 assignedPerson ()

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements					Context: Comes from linking elements
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking elements	<a href="#">DomainResource</a>	<b>assignedPerson[prac]</b>	
				<b>assignedPerson[prac]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>assignedPerson[prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100040"</b>	
				<b>assignedPerson[prac]/templateId/@extension="1.0"</b>	
				<b>assignedPerson[prac]/id</b>	See < <a href="#">id</a> > for available attributes.
Practitioner > <b>identifier</b>	An identifier that applies to this person in this role.	1..*	<a href="#">Identifier</a>	<b>assignedPerson[prac]/ext:asEntityIdentifier</b>	See < <a href="#">Entity Identifier</a> > for available attributes. Recommended mappings for the complex data type to CDA (R2): <a href="#">Identifier</a> .
Practitioner > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>name</b>	The name(s) associated with the practitioner.	0..*	<a href="#">HumanName</a>	<b>assignedPerson[prac]/name</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">HumanName</a> .
Practitioner > <b>telecom</b>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	<b>telecom</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">ContactPoint</a> .
Practitioner > <b>address</b>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	<b>addr</b>	Recommended mappings for the complex data type to CDA (R2): <a href="#">Address</a>   <a href="#">Address as Australian Address</a> .
Practitioner > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	<b>assignedPerson[prac]/ext:administrativeGenderCode</b>	See < <a href="#">code</a> > for available attributes. <a href="#">AdministrativeGender (required)</a>
Practitioner > <b>birthDate</b>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	<b>assignedPerson[prac]/ext:birthTime</b>	See < <a href="#">time</a> > for available attributes.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then this element is expected to be as //assignedPerson[prac]/ext:Qualifications/@classCode="QUAL". See <a href="#">&lt;Qualification&gt;</a> for available attributes.</p> <p>If more information can be captured than a narrative list then this logical element is expected to be instantiated as ext:coverage2[prac_qual] and SHALL conform to the template defined in <a href="#">ext:coverage (Practitioner qualification)</a>.</p>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	n/a	<p>This logical element is not currently mapped into CDA.</p> <p>This may be supported in future by an entry in Administrative Observations or by the addition of an extension to add the languageCommunication element to the Person class.</p>



# 9 Section CDA templates

This chapter contains mapping from the section (e.g. Advance Care Information) models to CDA section classes, expressed as a series of CDA templates that describe how each CDA section is composed.

CDA templates are expected to be reused from one document type (or Composition model) to another. Each CDA template is presented under a heading in the format of "CDA schema element" ("model name") where "CDA schema element" is the root element for a CDA template and "model name" is the name of a model that constrains an element in the Advance Care Planning Hierarchy.

## 9.1 section (Advance Care Information)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
CDA Body Level 3 Data Elements		Context: Comes from linking elements			
section (Advance Care Information)	A section that contains a statement of a person's decisions about their future care, should they become incapable of participating in medical treatment decisions.	1..1	<a href="#">BackboneElement</a>	section	The use of templateId signals the imposition of a set of template-defined constraints.
				section/templateId	
				section/templateId/@root="1.2.36.1.2001.1001.102.101.100009"	
				section/templateId/@extension="1.0"	
section (Advance Care Information) > title	The label for this particular section. This will be part of the rendered content for the document, and is often used to build a table of contents.	1..1	<a href="#">string</a>	section/title	
section (Advance Care Information) > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	<a href="#">CodeableConcept</a>	section/code	
				section/code/@code="101.16973"	
				section/code/@codeSystem="1.2.36.1.2001.1001.101"	
				section/code/@codeSystemName	Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components".
				component/structuredBody/component[aci]/section/code/@displayName	Optional CDA element. displayName <b>SHOULD</b> be "Advance Care Information Section".

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
section (Advance Care Information) > <b>text</b>	A human-readable narrative that contains the attested content of the section, used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it 'clinically safe' for a human to just read the narrative.	1..1	<a href="#">narrative</a>	section/text	See <a href="#">CDA narratives</a> .
section (Advance Care Information) > <b>entry</b>	A reference to the actual resource from which the narrative in the section is derived.	1..1	<a href="#">Reference(DocumentReference as Advance Care Planning Document Reference)</a>	section/entry[doc_ref_acp]	
				section/entry[doc_ref_acp]/act	act <b>SHALL</b> conform to the template defined in <a href="#">act (Advance Care Planning Document Reference)</a> .

# 10 Act CDA templates

This chapter contains mapping from the Composition (Advance Care Planning) model and entry (e.g. Advance Care Planning Document Reference) models to CDA act classes, expressed as a series of CDA templates that describe how each CDA act is composed.

CDA templates are expected to be reused from one document type (or Composition model) to another. Each CDA template is presented under a heading in the format of "CDA Schema Element" ("model name") where "CDA Schema Element" is the root element for a CDA template and "model name" is the name of a model that constrains an element in the Advance Care Planning Hierarchy.

## 10.1 act (Advance Care Planning Document Reference)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Conformance level comes from linking elements		Context: Context: Comes from linking elements			
DocumentReference	A reference to a document.	1..1	BackboneElement	act	
				act/@classCode="ACT"	
				act/@moodCode="EVN"	
				act/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				act/templateId/@root="1.2.36.1.2001.1001.102.101.100013"	
				act/templateId/@extension="1.0"	
				act/code	
				act/code/@code="102.16971"	
				act/code/@codeSystem="1.2.36.1.2001.1001.101"	
				act/code/@codeSystemName	Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components".
				act/code/@displayName	Optional CDA element. displayName <b>SHOULD</b> be "Related Document".

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
DocumentReference > <b>author-role</b>	Identifies the practitioner role responsible for the information in the resource (aka author), not necessarily who typed it in.	0..1	<a href="#">Reference</a> ( <a href="#">PractitionerRole</a> as PractitionerRole with Practitioner with Mandatory Identifier)	act/author	author <b>SHALL</b> conform to the template defined in <a href="#">author (PractitionerRole with Practitioner with Mandatory Identifier)</a> .
DocumentReference > <b>master-identifier</b>	Document identifier as assigned by the source of the document. This identifier is specific to this version of the document. This unique identifier may be used elsewhere to identify this version of the document.	0..1	<a href="#">Identifier</a>	act/reference[content]/externalDocument/id	See < <a href="#">id</a> > for available attributes.
DocumentReference > <b>identifier</b>	Other identifiers associated with the document, including version independent identifiers.	0..*	<a href="#">Identifier</a>	See: instantiation choices	See < <a href="#">id</a> > for available attributes.  <b>instantiation choices:</b>  The identifier element may be instantiated as //reference[content]/externalDocument/setId.  The identifier element may be instantiated as //reference[content]/externalDocument/id.
DocumentReference > <b>status</b>	The status of this document reference.	1..1	<a href="#">code</a>	act/statusCode act/statusCode/@code="active"	

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
DocumentReference > docStatus	The status of the underlying document.	0..1	<a href="#">code</a>	act/entryRelationship[doc_status] act/entryRelationship[doc_status]/@typeCode="COMP" act/entryRelationship[doc_status]/observation act/entryRelationship[doc_status]/observation/@classCode="OBS" act/entryRelationship[doc_status]/observation/@moodCode="EVN" act/entryRelationship[doc_status]/observation/code act/entryRelationship[doc_status]/observation/code/@code="103.20104" act/entryRelationship[doc_status]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" act/entryRelationship[doc_status]/observation/code/@codeSystemName act/entryRelationship[doc_status]/observation/code/@displayName act/entryRelationship[doc_status]/observation/value act/entryRelationship[doc_status]/observation/value/@xsi:type="CD" act/entryRelationship[doc_status]/observation/value/@code="final" act/entryRelationship[doc_status]/observation/value/@codeSystem="2.16.840.1.113883.4.642.1.237" act/entryRelationship[doc_status]/observation/value/@codeSystemName act/entryRelationship[doc_status]/observation/value/@displayName	Optional CDA element. codeSystemName <b>SHOULD</b> be "NCTIS Data Components". displayName <b>SHOULD</b> be "Document Status". codeSystemName <b>SHOULD</b> be "CompositionStatus". displayName <b>SHOULD</b> be "Final".
DocumentReference > type	Specifies the particular kind of document referenced (e.g. History and Physical, Discharge Summary, Progress Note). This usually equates to the purpose of making the document referenced.	1..1	<a href="#">CodeableConcept</a>	act/reference[content]/externalDocument/code	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">Advance Care Planning Document Types (required)</a>
DocumentReference > subject	Who or what the document is about. The document can be about a person, (patient or healthcare practitioner), a device (e.g. a machine) or even a group of subjects (such as a document about a herd of farm animals, or a set of patients that share a common exposure).	1..1	<a href="#">Reference(Patient as Patient with Mandatory Identifier</a>	n/a	Not mapped directly for this model; this is implicit in //ClinicalDocument/recordTarget/patientRole.
DocumentReference > created	When the document was created.	0..1	<a href="#">dateTime</a>	act/effectiveTime	See <a href="#">&lt;time&gt;</a> for available attributes.
DocumentReference > indexed	When the document reference was created.	1..1	<a href="#">instant</a>	n/a	This logical element has no mapping to CDA.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
DocumentReference > <b>author</b>	Identifies who is responsible for adding the information to the document.	1..1	<a href="#">Reference(Practitioner as Practitioner with Mandatory Identifier   Patient as Patient with Mandatory Identifier   RelatedPerson as RelatedPerson with Mandatory Identifier)</a>	act/author	In CDA an author (Practitioner) is part of an author-role; if the author is a practitioner then author-role <b>SHALL</b> be instantiated.  author <b>SHALL</b> conform to a template defined in <b>author</b> (Patient with Mandatory Identifier) or <b>author</b> (RelatedPerson with Mandatory Identifier) or <b>author</b> (PractitionerRole with Practitioner with Mandatory Identifier).
DocumentReference > <b>description</b>	Human-readable description of the source document. This is sometimes known as the 'title'.	0..1	<a href="#">string</a>	act/text	
DocumentReference > <b>content</b>	The document and format referenced. There may be multiple content element repetitions, each with a different format.	1..1	<a href="#">BackboneElement</a>	act/reference[content] act/reference[content]/@typeCode="REFR" act/reference[content]/externalDocument act/reference[content]/externalDocument/@classCode="DOC"	
DocumentReference > content > <b>attachment</b>	The document or URL of the document along with critical metadata to prove content has integrity.	1..1	<a href="#">Attachment</a>	act/reference[content]/externalDocument/text	The link <b>SHALL</b> also be present in the corresponding CDA <linkHtml> element  Recommended mappings for the complex data type to CDA (R2): <b>Attachment</b> .  text/@nullFlavor <b>SHALL NOT</b> be present.

## 10.2 ext:coverage (Practitioner qualification)

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/ See <a href="#">Administrative Observations</a> .
Practitioner > qualification	Qualifications obtained by training and certification.	Cardinality comes from linking elements	<a href="#">BackboneElement</a>	ext:coverage2[prac_qual]	
				ext:coverage2[prac_qual]/@typeCode="COVBY"	
				ext:coverage2[prac_qual]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				ext:coverage2[prac_qual]/templateId/@root="1.2.36.1.2001.1001.102.101.100038"	
				ext:coverage2[prac_qual]/templateId/@extension="1.0"	
				ext:coverage2[prac_qual]/ext:entitlement	
				ext:coverage2[prac_qual]/ext:entitlement/@classCode="COV"	
				ext:coverage2[prac_qual]/ext:entitlement/@moodCode="EVN"	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/@typeCode="HLD"	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/ext:participantRole	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/ext:participantRole/@classCode="ASSIGNED"	Practitioner > qualification is represented in CDA by an entitlement (qualification) held by a participant (practitioner).  This SHALL hold the same value as practitioner that this qualification is associated with (the value in this id element SHALL be present in separate participation).
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/ext:participantRole/ext:id	
Practitioner > qualification > identifier	An identifier that applies to this person's qualification in this role.	0..*	<a href="#">Identifier</a>	ext:coverage2[prac_qual]/ext:entitlement/ext:id	
Practitioner > qualification > code	Coded representation of the qualification.	1..1	<a href="#">CodeableConcept</a>	ext:coverage2[prac_qual]/ext:entitlement/ext:code	See <a href="#">&lt;code&gt;</a> for available attributes. <a href="#">v2 table 0360, Version 2.7 (example)</a>
Practitioner > qualification > period	Period during which the qualification is valid.	0..1	<a href="#">Period</a>	ext:coverage2[prac_qual]/ext:entitlement/ext:effectiveTime	

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Practitioner > qualification > issuer	Organization that regulates and issues the qualification.	0..1	<a href="#">Reference(Organization as Base Organization)</a>	ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]	<p>ext:participant[issuer]/@typeCode SHALL be "AUT".</p> <p>ext:participant[issuer]/ext:participantRole SHALL be "COMPAR".</p>

# 11 Common patterns

## 11.1 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*
- *qualifier* (CD)
- *translation* (CD)
- any combination of the above.

A *displayName* is highly recommended.

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

Where used, the *codeSystem* attribute **SHALL** contain the OID for the relevant vocabulary. Values for coding systems can be obtained from the HL7 OID registry accessible from the HL7 home web page at [www.hl7.org](http://www.hl7.org).

Where used, the *displayName* attribute **SHALL** contain a human-readable description of the code value that is provided by the code system; *displayName* is a case insensitive value except where explicitly stated otherwise by the code system. A preferred interface term for display that is not a member of the description set supplied by the code system **SHALL NOT** be used to populate the *displayName* attribute.

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

Where used, the *originalText* element **SHALL** be used to carry the full text associated with this code as selected by, typed by or displayed to the author of this statement including the contents of the *qualifier* if present.

Where used, the *qualifier* element **SHALL** carry a code from the same code system as the code; for example if the main concept code is from SNOMED CT the *qualifier* also has to be taken from SNOMED CT as the use of a different code system for a *qualifier* is not allowed. The use of the *qualifier* element is governed by the code system used and cannot be used with code systems that do not provide for qualifiers (e.g. pre-coordinated systems).

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. For guidance on coding common clinical concepts in CDA documents see [Representing Coding in CDA Documents Implementation Guidance \[NEHT2011bv\]](#).

Where a code is used from a different code system to that specified, or where the code lies outside the reference set specified, or where a code system or reference set is not specified, the code value **SHALL** be consistent with the meaning of the associated element of the Advance Care Planning model.

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

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

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

### Example 11.1. code

```
<!-- Specified code system in use -->
<code
  code="271807003"
  codeSystem="2.16.840.1.113883.6.96"
  codeSystemName="SNOMED CT"
  codeSystemVersion="20101130"
  displayName="Skin rash" />

<!-- Specified code system in use with a qualifier -->
<code
  code="23986001"
  codeSystem="2.16.840.1.113883.6.96"
  codeSystemName="SNOMED CT"
  displayName="Glaucoma" >
  <originalText>Glaucoma, left</originalText>
  <qualifier>
    <name
      code="272741003"
      codeSystem="2.16.840.1.3883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Laterality" />
    <value
      code="7771000"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Left"
      xsi:type="CD" />
  </qualifier>
</code>
```

```
<!-- Alternate code system in use and a translation into the specified code system is available -->
<code
  code="J45.9"
  codeSystem="2.16.840.1.113883.6.135"
  codeSystemName="icd10am"
  displayName="Asthma, unspecified">
  <originalText>Asthma</originalText>
  <translation
    code="195967001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Asthma"/>
</code>

<!-- Alternate code system in use and no translation into the specified code system is available -->
<code
  code="J45.9"
  codeSystem="2.16.840.1.113883.6.135"
  codeSystemName="icd10am"
  displayName="Asthma, unspecified">
  <originalText>Asthma</originalText>
</code>

<!-- No suitable code can be found or there is no code system in use -->
<code
  <originalText>Asthma</originalText>
</code>
```

## 11.2 id

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

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

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

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

In the case of business or technical identifier an *assigningAuthorityName* is **RECOMMENDED**.

Identifiers appear in this implementation guide for two different reasons. The first is that the identifier has been identified as relevant to the business process or clinical workflow. These identifiers are documented in mapping tables in the Element column, e.g. Composition > identifier or Medication Statement (Prescription) > identifier, which make clear the meaning of this identifier.

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

### Example 11.2. id

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

## 11.3 time

When a time value is supplied it **SHALL** include hours and minutes.

When a time value is supplied it **MAY** include seconds and fractions of seconds.

When a time value is supplied it **SHALL** include a time zone.

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 can 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 as available.

### Example 11.3. 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 11.4. 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 11.5. Interval timestamp 1

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

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

#### Example 11.6. Interval timestamp 2

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

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

#### Example 11.7. Width time

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

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

## 11.4 Entity Identifier

### CDA mapping

Element	Definition	Card	CDA schema element	Constraints and comments
<b>CDA Data Elements</b>				
Entity Identifier	A number or code issued for the purpose of identifying a participant within a health-care context.	The cardinality of the element comes from the linking parent.	//ext:asEntityIdentifier	
		1..1	//ext:asEntityIdentifier/@classCode="IDENT"	
		1..1	//ext:asEntityIdentifier/ext:id	
		1..1	//ext:asEntityIdentifier/ext:id/@root	@root <b>SHALL</b> be an OID and <b>SHALL NOT</b> be a UUID. @root <b>SHALL</b> be a globally unique object identifier (i.e. OID) that identifies the combination of geographic area, issuer and type. If no such OID exists, it <b>SHALL</b> be defined before any identifiers can be created.
		0..1	//ext:asEntityIdentifier/ext:id/@extension	If present, @extension <b>SHALL</b> be a unique identifier within the scope of the root that is populated directly from the designation.
		0..1	//ext:asEntityIdentifier/ext:id/@assigningAuthorityName	@assigningAuthorityName <b>SHOULD</b> be used and, if it is used, <b>SHALL</b> be 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 <b>SHOULD NOT</b> be used for machine readability purposes.
		0..1	//ext:asEntityIdentifier/ext:code	See < <a href="#">code</a> > for available attributes.
		0..1	//ext:asEntityIdentifier/ext:assigningGeographicArea	
		1..1	//ext:asEntityIdentifier/ext:assigningGeographicArea/@classCode="PLC"	
		0..1	//ext:asEntityIdentifier/ext:assigningGeographicArea/ext:name	If present, ext:name <b>SHALL</b> be 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 <b>SHOULD NOT</b> be used for machine readability purposes.  <a href="#">Healthcare Identifier Geographic Area (preferred)</a>  This element is expected to be populated with the display, e.g. "National Identifier".

### Example 11.8. Entity Identifier

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- person -->  
<xss:asEntityIdentifier classCode="IDENT">  
  <xss:id root="1.2.36.1.2001.1003.0.800360883357361" assigningAuthorityName="IHI" />  
  <xss:assigningGeographicArea classCode="PLC">  
    <xss:name>National Identifier</xss:name>  
  </xss:assigningGeographicArea>  
</xss:asEntityIdentifier>  
  
<xss:asEntityIdentifier classCode="IDENT">  
  <xss:id root="1.2.36.1.2001.1005.29.8003621566684455" extension="542181" assigningAuthorityName="Croydon GP Centre" />  
  <xss:code code="MP" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />  
</xss:asEntityIdentifier>  
  
<!-- organisation -->  
<ext:asEntityIdentifier classCode="IDENT">  
  <ext:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />  
  <ext:assigningGeographicArea classCode="PLC">  
    <ext:name>National Identifier</ext:name>  
  </ext:assigningGeographicArea>  
</ext:asEntityIdentifier>
```

## 11.5 Personal Relationship

### CDA mapping

Element	Definition	Card	CDA schema element	Constraints and comments
<b>CDA Data Elements</b>				
Personal Relationship	The relationship of a participant to a subject of care (patient).	The cardinality of the element comes from the linking parent.	//ext:personalRelationship	This logical data component <b>SHALL NOT</b> be instantiated if the participant is a healthcare provider. If ext:personalRelationship is instantiated the value of Entity Identifier <b>SHALL NOT</b> be a HPI-I.
		0..1	//ext:personalRelationship/@classCode="PRS"	
		0..1	//ext:personalRelationship/ext:id	
		1..1	//ext:personalRelationship/ext:code	<a href="#">Related Person Relationship Type (extensible)</a> See <code> for available attributes.
		0..1	//ext:personalRelationship/ext:statusCode	<a href="#">v3 Code System RoleStatus (required)</a> See <code> for available attributes.
		0..1	//ext:personalRelationship/ext:effectiveTime	See <time> for available attributes.
		1..1	//ext:personalRelationship/ext:asPersonalRelationship	
		0..1	//ext:personalRelationship/ext:asPersonalRelationship/@classCode="PSN"	
		0..1	//ext:personalRelationship/ext:asPersonalRelationship/@determinerCode="INSTANCE"	
		1..1	//ext:personalRelationship/ext:asPersonalRelationship/id	This <b>SHALL</b> hold the same value as /ClinicalDocument/recordTarget/patientRole/id.
		1..1	//ext:personalRelationship/ext:asPersonalRelationship/administrativeGenderCode/@nullFlavor="NA"	Included for CDA conformance only.

### Example 11.9. Personal Relationship

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- patient -->  
<recordTarget>  
  <patientRole>  
    <!-- patient identifier-->  
    <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>  
  </patientRole>  
</recordTarget>  
  
<!-- author with personal relationship -->  
<author>  
  <time value="200911031647+1000"/>  
  <assignedAuthor>  
    <!-- author identifier-->  
    <id root="86d729b8-72d2-460a-a64c-489a51607450"/>  
    <assignedPerson>  
      <!-- personal relationship -->  
      <ext:personalRelationship>  
        <!--relationship-->  
        <ext:code code="SIGOTHR" codeSystem="2.16.840.1.113883.5.111" codeSystemName="v3 Code System RoleCode" displayName="significant other" />  
        <!--patient-->  
        <ext:asPersonalRelationship>  
          <!-- patient identifier-->  
          <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>  
          <administrativeGenderCode nullFlavor="NA" />  
        </ext:asPersonalRelationship>  
      </ext:personalRelationship>  
    </assignedPerson>  
  </assignedAuthor>  
</author>  
  
<!-- participant performer with personal relationship -->  
<participant typeCode="PRF">  
  <associatedEntity classCode="ASSIGNED">  
    <!--participant performer identifier-->  
    <id root="f3351b5c-8a6c-437c-a55c-a6c121873456"/>  
    <!-- personal relationship -->  
    <associatedPerson>  
      <ext:personalRelationship>  
        <!--relationship-->  
        <ext:code code="FAMMEMB" codeSystem="2.16.840.1.113883.5.111" codeSystemName="v3 Code System RoleCode" displayName="Family Member" />  
        <!--patient-->  
        <ext:asPersonalRelationship>  
          <!-- patient identifier-->  
          <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>  
          <administrativeGenderCode nullFlavor="NA" />  
        </ext:asPersonalRelationship>  
      </ext:personalRelationship>  
    </associatedPerson>  
  </associatedEntity>  
</participant>
```

## 11.6 Qualification

### CDA mapping

Element	Definition	Card	CDA schema element	Constraints and comments
<b>CDA Data Elements</b>				
Qualification	A list of professional certifications, and certificates recognising having passed a course.	0..1	//ext:asQualifications	
		1..1	//ext:asQualifications/@classCode="QUAL"	
		1..1	//ext:asQualifications/ext:code	Qualifications is a text field, so the text list is entered in the originalText of this element.

# Appendix A. Complex data type mappings to CDA (R2)

This informative appendix provides some guidance on how complex data types referred to in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

## A.1 Identifier

This informative appendix provides some guidance on how the complex data type [Identifier](#), referenced in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

In addition to examples provided in this implementation guide some guidance on representation of common identifiers in CDA is provided by [Representation of Common Australian Identifiers in v2 and CDA \[HI2011\]](#) and [Common - Clinical Document \[DH2019a\]](#).

## CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>Identifier</b>	A technical identifier - identifies some entity uniquely and unambiguously.	Cardinality comes from linking parent.	<a href="#">Element</a>	See: instantiation choices	<p>In CDA it is possible that the identifier is formed such that the system and value are both part of the value of the root attribute. In this circumstance the extension attribute should not be instantiated.</p> <p><b>instantiation choices:</b></p> <p>If the identifier element is for a Patient, Practitioner, PractitionerRole, Organization, RelatedPerson or Device it is expected to be instantiated as //ext:asEntityIdentifier/@classCode="IDENT". See &lt;Entity Identifier&gt; for available attributes.</p> <p>The identifier element may be instantiated as //id.</p>
<b>Identifier &gt; use</b>	The purpose of this identifier.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
<b>Identifier &gt; type</b>	A coded type for the identifier that can be used to determine which identifier to use for a specific purpose.	0..1	<a href="#">code</a>	//ext:asEntityIdentifier/ext:code	<p><a href="#">Identifier Type Codes (extensible)</a></p> <p>This element is only available if the identifier is instantiated as //ext:asEntityIdentifier/@classCode="IDENT".</p>
<b>Identifier &gt; system</b>	Establishes the namespace for the value - that is, a URL that describes a set values that are unique.	0..1	<a href="#">uri</a>	See: instantiation choices	<p><b>instantiation choices:</b></p> <p>If the identifier element is for a Patient, Practitioner, PractitionerRole, Organization, RelatedPerson or Device this is expected to be instantiated as //ext:asEntityIdentifier/ext:id/@root.</p> <p>The identifier system may be instantiated as //id/@root.</p>
<b>Identifier &gt; value</b>	The portion of the identifier typically relevant to the user and which is unique within the context of the system.	0..1	<a href="#">string</a>	See: instantiation choices	<p><b>instantiation choices:</b></p> <p>If the identifier element is for a Patient, Practitioner, PractitionerRole, Organization, RelatedPerson or Device this is expected to be instantiated as //ext:asEntityIdentifier/ext:id/@extension.</p> <p>The identifier value may be instantiated as //id/@extension.</p>
<b>Identifier &gt; period</b>	Time period during which identifier is/was valid for use.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Identifier > assigner	Organization that issued/manages the identifier.	0..1	<a href="#">Reference (Organization)</a>	See: instantiation choices	<b>instantiation choices:</b>  If the identifier element is for a Patient, Practitioner, PractitionerRole, Organization, RelatedPerson or Device this is expected to be instantiated as //ext:asEntityIdentifier/ext:id/@assigningAuthorityName.  The identifier value may be instantiated as //id/@assigningAuthorityName.

## Example A.1. Identifier

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- subject -->  
<recordTarget>  
  <!-- subject (Patient) -->  
  <patientRole>  
    <patient>  
      <administrativeGenderCode></administrativeGenderCode>  
  
      <!-- Patient.identifier as an Australian IHI -->  
      <ext:asEntityIdentifier classCode="IDENT">  
        <!-- identifier.type.text=IHI,  
        identifier.value=8003600200002222,  
        identifier.system=http://ns.electronichealth.net.au/id/hi/ih/1.0 -->  
        <ext:id assigningAuthorityName="IHI" root="1.2.36.1.2001.0.8003600200002222" />  
        <ext:assigningGeographicArea classCode="PLC">  
          <ext:name>National Identifier</ext:name>  
        </ext:assigningGeographicArea>  
      </ext:asEntityIdentifier>  
  
      <!-- Patient.identifier as an Institution Medical Record-->  
      <ext:asEntityIdentifier classCode="IDENT">  
        <!-- identifier.assigner=Croydon GP Centre,  
        identifier.value=542181,  
        identifier.system=urn:oid:1.2.36.1.2001.1005.29.8003621566684455 -->  
        <ext:id root="1.2.36.1.2001.29.8003621566684455" extension="542181" assigningAuthorityName="Croydon GP Centre" />  
        <!-- Patient.identifier.type -->  
        <ext:code code="MR" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />  
      </ext:asEntityIdentifier>  
  
      <!-- Patient.identifier as a Medicare Number -->  
      <ext:asEntityIdentifier classCode="IDENT">  
        <!-- identifier.system=urn:oid:1.2.36.1.5001.1.0.7,  
        identifier.value=123456789,  
        identifier.assigner=Medicare Card Number -->  
        <ext:id assigningAuthorityName="Medicare Card Number"  
          root="1.2.36.1.5001.1.0.7" extension="1234567892" />  
        <ext:code code="MO" codeSystem="2.16.840.1.113883.12.203"  
          codeSystemName="Identifier Type (HL7)" displayName="Patient's Medicare number" />  
        <!-- Identifier.period is not available in an asEntityIdentifier class -->  
      </ext:asEntityIdentifier>  
  
      <!-- Patient.identifier as a DVA Number -->  
      <ext:asEntityIdentifier classCode="IDENT">  
        <!-- identifier.system=urn:oid:2.16.840.1.113883.3.879.270091,  
        identifier.value=NBUR9080,  
        identifier.assigner=Department of Veterans' Affairs -->  
        <ext:id assigningAuthorityName="Department of Veterans' Affairs"  
          root="2.16.840.1.113883.3.879.270091" extension="NBUR9080" />  
        <ext:code code="DVG" codeSystem="2.16.840.1.113883.2.3.4.1.1.203"  
          codeSystemName="HL7V2Table0203IdentifierTypeAUExtended" displayName="DVA Gold Card Number" />  
        <!-- Identifier.period is not available in an asEntityIdentifier class -->  
      </ext:asEntityIdentifier>  
  
      <!-- Patient.identifier as a Healthcare card number -->  
      <ext:asEntityIdentifier classCode="IDENT">  
        <!-- identifier.system=urn:oid:2.16.840.1.113883.3.879.270098,
```

```
        identifier.value=307111942H,
        identifier.assigner=Centrelink customer reference number -->
<ext:id assigningAuthorityName="Centrelink customer reference number"
root="2.16.840.1.113883.3.879.270098" extension="307111942H"/>
<ext:code code="HC" codeSystem="2.16.840.1.113883.12.203"
codeSystemName="Identifier Type (HL7)" displayName="Health Card Number"/>
</ext:asEntityIdentifier>

</patient>
</patientRole>
</recordTarget>

<author>
<time value="200911031647+1000"/>
<!-- author (PractitionerRole) -->
<assignedAuthor>
<!-- PractitionerRole.id -->
<id root="86d729b8-72d2-460a-a64c-489a51607450"/>
<!-- PractitionerRole.practitioner(Practitioner) -->
<assignedPerson>
<!-- Practitioner.identifier as an Australian HPI-I -->
<ext:asEntityIdentifier classCode="IDENT">
<!-- identifier.value=8003610537409456,
identifier.system=urn:oid:1.2.36.1.2001.1003.0,
identifier.assigner=HPI-I -->
<ext:id assigningAuthorityName="HPI-I"
root="1.2.36.1.2001.1003.0.8003610537409456"/>
<ext:assigningGeographicArea classCode="PLC">
<ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
<!-- PractitionerRole.identifier as an ABN scoped provider identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<!-- identifier.value=8003610537409456,
identifier.system=urn:oid:1.2.36.1.2001.1003.0,
identifier.assigner=HPI-I -->
<ext:id assigningAuthorityName="Albion Hospital",
root="1.2.36.1.2001.1005.70.51824753556"
extension="peterwinslow44"/>
<!-- identifier.type -->
<ext:code code="EI"
codeSystem="2.16.840.1.113883.18.108"
codeSystemName="v2 Identifier Type"
displayName="Employee number"/>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
<!--PractitionerRole.organization (Organization)-->
<representedOrganization>
<!-- Organization.name -->
<name>Albion Hospital</name>
<!--Organization.identifier as an ABN-->
<ext:asEntityIdentifier classCode="IDENT">
<!-- identifier.value=51824754455,
identifier.system=urn:oid:1.2.36,
identifier.assigner=ABN -->
<ext:id root="1.2.36.51824754455" assigningAuthorityName="ABN"/>
<!-- identifier.type -->
<ext:code code="XX"
codeSystem="2.16.840.1.113883.12.203" />
</ext:asEntityIdentifier>
</representedOrganization>
```

```
</author>

<custodian>
  <!-- custodian (Organization)-->
  <assignedCustodian>
    <representedCustodianOrganization>
      <!-- Organization.id-->
      <id root="d0455def-ff37-4ebe-97fb-52db7224b148"/>
      <!-- Organization.identifier as a Laboratory NATA Identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <!-- identifier.system.value=urn:oid:1.2.36.1.2001.1005.12,
        identifier.value=2184,
        identifier.assigner=NATA -->
        <ext:id assigningAuthorityName="NATA"
          root="1.2.36.1.2001.1005.12" extension="2184"/>
        <!-- identifier.type -->
        <ext:code code="XX" codeSystem="2.16.840.1.113883.12.203"/>
      </ext:asEntityIdentifier>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>

<!--DiagnosticReport.basedOn-->
<inFulfillmentOf typeCode="FLFS">
  <!--ProcedureRequest-->
  <order classCode="ACT" moodCode="RQO">
    <!-- ProcedureRequest.identifier
    identifier.system=urn:oid:1.2.36.1.2001.1005.52.8003621566684455, identifier.value=123451 -->
    <id extension="123451" root="1.2.36.1.2001.1005.52.8003621566684455" />
  </order>
</inFulfillmentOf>
```

## A.2 HumanName

This informative appendix provides some guidance on how the complex data type [HumanName](#), referenced in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>HumanName</b>	A human's name with the ability to identify parts and usage.	Cardinality comes from linking parent.	<a href="#">Element</a>	//name	Name <b>SHALL</b> have at least text or family or given instantiated.  In CDA a full text representation of a name is not to be included in the same instance as a structured representation with the same name parts. Either the free text representation or a name with structure (e.g. name/family or name/given) should be provided but not both.
<b>HumanName &gt; use</b>	Identifies the purpose for this name.	0..1	<a href="#">code</a>	//name/@use	<a href="#">Common Person Name Use (required)</a>
<b>HumanName &gt; text</b>	A full text representation of the name.	0..1	<a href="#">string</a>	//name	
<b>HumanName &gt; family</b>	The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the family name of a son is the first name of his father.	0..1	<a href="#">string</a>	//name/family	
<b>HumanName &gt; given</b>	Given name.	0..*	<a href="#">string</a>	//name/given	
<b>HumanName &gt; prefix</b>	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the start of the name.	0..*	<a href="#">string</a>	//name/prefix	Prefix values can be populated as described in <a href="#">AS 4846 (2014) – Person and provider identification in healthcare [SA2014a]</a> , 4.4.2 Name Title.
<b>HumanName &gt; suffix</b>	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the end of the name.	0..*	<a href="#">string</a>	//name/suffix	Suffix values can be populated as described in <a href="#">AS 4846 (2014) – Person and provider identification in healthcare [SA2014a]</a> , 4.5.3.2 Name Suffix.
<b>HumanName &gt; period</b>	Indicates the period of time when this name was valid for the named person.	0..1	<a href="#">Period</a>	//name/validTime	See <time> for available attributes.

## Example A.2. HumanName

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- HumanName where use=official -->  
<name use="C">  
  <!-- HumanName.given -->  
  <given>Adam</given>  
  <!-- HumanName.given -->  
  <given>A.</given>  
  <!-- HumanName.family -->  
  <family>Everyman</family>  
</name>  
  
<!-- HumanName where use=official -->  
<name use="C">  
  <!-- HumanName.text -->  
  Adam A. Everyman  
</name>  
  
<!-- HumanName where use=usual -->  
<name use="I">  
  <!-- HumanName.given -->  
  <given>Damo</given>  
</name>  
  
<!-- HumanName where use=old -->  
<name use="DN">  
  <!-- HumanName.given -->  
  <given>Adam</given>  
  <!-- HumanName.given -->  
  <given>A.</given>  
  <!-- HumanName.family -->  
  <family>Adamson</family>  
  <!-- HumanName.period -->  
  <validTime xsi:type="IVL_TS">  
    <low value="01012001" />  
    <high value="01012012" />  
  </validTime>  
</name>
```

## A.3 Address

This informative appendix provides some guidance on how the complex data type [Address](#), referenced in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Address	An address expressed using postal conventions (as opposed to GPS or other location definition formats). This data type may be used to convey addresses for use in delivering mail as well as for visiting locations which might not be valid for mail delivery. There are a variety of postal address formats defined around the world.	Cardinality comes from linking parent.	<a href="#">Element</a>	//addr	
Address > <b>use</b>	The purpose of this address.	0..1	<a href="#">code</a>	//addr/@use	<a href="#">Address Use HL7 v3 (required)</a> addr/@use may be used to carry more than one value by a space separated list of codes.
Address > <b>type</b>	Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	0..1	<a href="#">code</a>	//addr/@use	<a href="#">Address Type HL7 v3 (required)</a> addr/@use may be used to carry more than one value by a space separated list of codes.
Address > <b>text</b>	A full text representation of the address.	0..1	<a href="#">string</a>	//addr	The expectation is that this is free text.
Address > <b>line</b>	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	<a href="#">string</a>	//addr/streetAddressLine	
Address > <b>city</b>	The name of the city, town, village or other community or delivery center.	0..1	<a href="#">string</a>	//addr/city	
Address > <b>district</b>	The name of the administrative area (county).	0..1	<a href="#">string</a>	//addr/county	
Address > <b>state</b>	Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (i.e. US 2 letter state codes).	0..1	<a href="#">string</a>	//addr/state	
Address > <b>postalCode</b>	A postal code designating a region defined by the postal service.	0..1	<a href="#">string</a>	//addr/postalCode	
Address > <b>country</b>	Country - a nation as commonly understood or generally accepted.	0..1	<a href="#">string</a>	//addr/country	<a href="#">Iso 3166 Part 1: 2 Letter Codes (preferred)</a>
Address > <b>period</b>	Time period when address was/is in use.	0..1	<a href="#">Period</a>	//addr/useablePeriod	

### Example A.3. Address

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- Address where use=work and type=postal -->  
<addr use="PST WP">  
  <!--Address.text-->  
  1050 W Wishard Blvd  
  RG  
  5th floor  
  Indianapolis, IN 46240  
  <!--Address.line-->  
  <streetAddressLine>1050 W Wishard Blvd</streetAddressLine>  
  <!--Address.line-->  
  <streetAddressLine>RG 5th floor</streetAddressLine>  
  <!--Address.city-->  
  <city>Indianapolis</city>  
  <!--Address.state-->  
  <state>IN</state>  
  <!--Address.postalCode-->  
  <postalCode>46240</postalCode>  
</addr>  
  
<!-- Address where use=home and type=physical -->  
<addr use="PHYS H">  
  <!--Address.text-->  
  1 Back Lane&#13;&#10;Holmfirth&#13;&#10;HUDDERSFIELD&#13;&#10;HD7 1HQ  
  <!--Address.line-->  
  <streetAddressLine>1 Back Lane</streetAddressLine>  
  <!--Address.city-->  
  <city>Holmfirth</city>  
  <!--Address.district-->  
  <county>HUDDERSFIELD</county>  
  <!--Address.postalCode-->  
  <postalCode>HD7 1HQ</postalCode>  
</addr>  
  
<!-- Address where use=old -->  
<addr use="TMP">  
  <!--Address.line-->  
  <streetAddressLine>Rue Lougoraïa 12, app. 10</streetAddressLine>  
  <!--Address.city-->  
  <city>Korolevo</city>  
  <!--Address.state-->  
  <state>Minsk</state>  
  <!--Address.country-->  
  <country>BELARUS</country>  
  <!--Address.period-->  
  <useablePeriod xsi:type="IVL_TS">  
    <low value="01012001" />  
    <high value="01012012" />  
  </useablePeriod>  
</addr>
```

## A.4 Address as Australian Address

This informative appendix provides some guidance on the constrained form of complex data type [Address](#) as [Australian Address](#) published by HL7 Australia. The mappings provided are a set of preferred mappings and do not represent conformance requirements.

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
<b>Address</b>	An Australian address expressed using postal conventions (as opposed to GPS or other location definition formats).	Cardinality comes from linking parent.	<a href="#">Element</a>	//addr	addr <b>SHALL</b> have text or one or more line (addr/streetAddressLine).
<b>Address &gt; use</b>	The purpose of this address.	0..1	<a href="#">code</a>	//addr/@use	<a href="#">Address Use HL7 v3 (required)</a> //addr/@use may be used to carry more than one value by a space separated list of codes.
<b>Address &gt; type</b>	Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	0..1	<a href="#">code</a>	//addr/@use	<a href="#">Address Type HL7 v3 (required)</a> //addr/@use may be used to carry more than one value by a space separated list of codes.
<b>Address &gt; text</b>	A full text representation of the address.	0..1	<a href="#">string</a>	//addr	The expectation is that this is free text.
<b>Address &gt; line</b>	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	<a href="#">string</a>	//addr/streetAddressLine	
<b>Address &gt; city</b>	The name of the city, town, village or other community or delivery center.	0..1	<a href="#">string</a>	//addr/city	
<b>Address &gt; district</b>	The name of the administrative area (county).	0..1	<a href="#">string</a>	//addr/county	
<b>Address &gt; state</b>	Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (i.e. US 2 letter state codes).	0..1	<a href="#">string</a>	//addr/state	<a href="#">Australian States and Territories (required)</a> This element <b>SHALL</b> be populated with the code e.g. "NT".
<b>Address &gt; postalCode</b>	A postal code designating a region defined by the postal service.	0..1	<a href="#">string</a>	//addr/postalCode	The maximum length of postalCode <b>SHALL</b> be 4.
<b>Address &gt; country</b>	Fixed value if present otherwise assumed to be Australia in this context.	0..1	<a href="#">string</a>	//addr/country	This element <b>SHALL</b> be populated with "AU".
<b>Address &gt; period</b>	Time period when address was/is in use.	0..1	<a href="#">Period</a>	//addr/useablePeriod	
<b>Address &gt; nofixedaddress</b>	No fixed address indicator.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly, if true, addr <b>SHOULD</b> be equal to "NO FIXED ADDRESS" and addr/@use <b>SHOULD</b> be "PHYS".

## Example A.4. Address

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- Australian Address with no fixed address in Melbourne, VIC-->  
<addr use="PHYS">  
<!--Address.text-->  
NO FIXED ADDRESS  
<!--Address.city-->  
<city>Melbourne</city>  
<!--Address.state-->  
<state>VIC</state>  
</addr>  
  
<!-- Australian Address with only text-->  
<addr use="PHYS">  
<!--Address.text-->  
Level 1, 300 George St, Brisbane, QLD 4000  
</addr>  
  
<!-- Australian Address where use=work and type=postal -->  
<addr use="PST WP">  
<!--Address.line-->  
<streetAddressLine>Northern Territory Office, Department of Addresses, GPO Box 19132110</streetAddressLine>  
<!--Address.city-->  
<city>Darwin</city>  
<!--Address.state-->  
<state>NT</state>  
<!--Address.postalCode-->  
<postalCode>0801</postalCode>  
<!--Address.country-->  
<country>AU</country>  
<!--Address.period-->  
<useablePeriod xsi:type="IVL_TS">  
<low value="200311031647+1000" />  
</useablePeriod>  
</addr>  
  
<!-- Australian Address where use=work and type=physical -->  
<addr use="PHYS WP">  
<!--Address.line-->  
<streetAddressLine>5th Floor, Northern Territory House, 223 Mitchell Street</streetAddressLine>  
<!--Address.city-->  
<city>Darwin</city>  
<!--Address.state-->  
<state>NT</state>  
<!--Address.postalCode-->  
<postalCode>0800</postalCode>  
<!--Address.country-->  
<country>AU</country>  
</addr>
```

## A.5 ContactPoint

This informative appendix provides some guidance on how the complex data type [ContactPoint](#), referenced in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
ContactPoint	A human's name with the ability to identify parts and usage.	Cardinality comes from linking parent.	<a href="#">Element</a>	//telecom	If value is present, system <b>SHALL</b> be present.
ContactPoint > <b>system</b>	Telecommunications form for contact point - what communications system is required to make use of the contact.	0..1	<a href="#">code</a>	//telecom/@value	<a href="#">HL7 URLScheme (required)</a> Makes up part of the attribute: 'system:value', e.g. 'tel:phone number', 'mailto:email address', 'http:URL', etc.
ContactPoint > <b>value</b>	The actual contact point details, in a form that is meaningful to the designated communication system (i.e. phone number or email address).	0..1	<a href="#">string</a>	//telecom/@value	Makes up the part of the attribute: 'system:value', e.g. 'tel:phone number', 'mailto:email address', 'http:URL', etc.
ContactPoint > <b>use</b>	Identifies the purpose for the contact point.	0..1	<a href="#">code</a>	//telecom/@use	<a href="#">HL7 TelecommunicationAddressUse (required)</a>
ContactPoint > <b>rank</b>	Specifies a preferred order in which to use a set of contacts. Contacts are ranked with lower values coming before higher values.	0..1	<a href="#">positiveInt</a>	n/a	This logical element has no mapping to CDA.
ContactPoint > <b>period</b>	Time period when the contact point was/is in use.	0..1	<a href="#">Period</a>	//telecom/usablePeriod	See <time> for available attributes.

### Example A.5. ContactPoint

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- ContactPoint where system=phone, value=+1-(555)555-1212, use=home -->  
<telecom value="tel:+1-(555)555-1212" use="H">  
  <!-- ContactPoint.period -->  
  <useablePeriod xsi:type="IVL_TS">  
    <low value="01012001" />  
    <high value="01012012" />  
  </useablePeriod>  
</telecom>  
  
<!-- ContactPoint where system=phone, value=0712341234, use=home -->  
<telecom use="H" value="tel:0712341234" />  
  
<!-- ContactPoint where system=email, value=sfranklin@mail.com.au, use=work -->  
<telecom use="WP" value="mailto:sfranklin@mail.com.au" />
```

## A.6 Attachment

This informative appendix provides some guidance on how the complex data type [Identifier](#), referenced in the body of this specification can map to CDA (R2). The mappings provided are a set of preferred mappings and do not represent conformance requirements.

### CDA mapping

Element	Element description	Card	Element type	CDA schema element	Constraints and comments
Attachment	For referring to data content defined in other formats.	Cardinality comes from linking parent.	<a href="#">Element</a>	n/a	In CDA this is equivalent to the data type EncapsulatedData (ED).  If data is present, contentType <b>SHALL</b> be present.
Attachment > <b>contentType</b>	Identifies the type of the data in the attachment and allows a method to be chosen to interpret or render the data. Includes mime type parameters such as charset where appropriate.	0..1	<a href="#">code</a>	//mediaType	This CDA schema element is of type CodedSimpleValue (CS).  <a href="#">MimeType (required)</a>  The <a href="#">preferred</a> value set for HL7 CDA is defined in <a href="#">HL7 V3 RIM, Data types and Vocabulary [HL7V3DT]</a> but may be further constrained by <a href="#">Clinical Documents Common Conformance Profile [DH2017o]</a> .
Attachment > <b>language</b>	The human language of the content. The value can be any valid value according to BCP 47.	0..1	<a href="#">code</a>	//language	This CDA schema element is of type CodedSimpleValue (CS).  <a href="#">Common Languages in Australia (extensible)</a>
Attachment > <b>data</b>	The actual data of the attachment - a sequence of bytes. In XML, represented using base64.	0..1	<a href="#">base64Binary</a>	//@representation="B64"	
				n/a	In CDA, the inline data is included as part of the encapsulated data value (e.g. between the opening and closing XML tags) of the CDA schema element.
Attachment > <b>url</b>	An alternative location where the data can be accessed.	0..1	<a href="#">uri</a>	//reference	
				//reference/@value	
Attachment > <b>size</b>	The number of bytes of data that make up this attachment (before base64 encoding, if that is done).	0..1	<a href="#">unsignedInt</a>	n/a	This logical element has no mapping to CDA.
Attachment > <b>hash</b>	The calculated hash of the data using SHA-1. Represented using base64.	0..1	<a href="#">base64Binary</a>	//integrityCheck	
				//integrityCheckAlgorithm	This CDA schema element is of type CodedSimpleValue (CS).
Attachment > <b>title</b>	A label or set of text to display in place of the data.	0..1	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.  In CDA, attachment title may be captured in the parent act and/or section narrative.
				n/a	This logical element has no mapping to CDA.  In CDA, attachment creation may be captured in the parent act and/or section narrative.

## Example A.6. Attachment

```
<!-- These example fragments are illustrative only. They cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<!-- DiagnosticReport -->  
<entry>  
  <observation classCode="OBS" moodCode="EVN">  
    <!-- DiagnosticReport.code -->  
    <code code="275711006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"  
          displayName="Serum Chemistry Test" xsi:type="CD"/>  
    <!-- DiagnosticReport.presentedForm[Attachment].hash=IiZNlyLY4gyewfICeWhFe2NcDDw=,  
        DiagnosticReport.presentedForm[Attachment].contentType=application/pdf,  
        DiagnosticReport.presentedForm[Attachment].url=http://foo.org/documents/DiagnosticReport.pdf -->  
    <text integrityCheck="IiZNlyLY4gyewfICeWhFe2NcDDw="  
          mediaType="application/pdf">  
      <reference value="DiagnosticReport.pdf"/>  
    </text>  
  </observation>  
</entry>  
  
<entry>  
  <!-- Attachment -->  
  <observationMedia classCode="OBS" moodCode="EVN">  
    <!-- Attachment.data -->  
    <value representation="B64">VGhpcyBpcyBCYXNlLTY0IGVuY29kZWQgdGV4C4NCg</value>  
  </observationMedia>  
</entry>  
  
<entry>  
  <!-- Attachment -->  
  <observationMedia classCode="OBS" moodCode="EVN">  
    <!-- Attachment.contentType=image/jpeg,  
        Attachment.url=http://foo.org/images/left_hand_image.jpeg -->  
    <value mediaType="image/jpeg">  
      <reference value="left_hand_image.jpeg"/>  
    </value>  
  </observationMedia>  
</entry>
```

## Appendix B. Examples

This informative appendix provides some examples that conform to the conformance requirements specified within this implementation guide.

DRAFT

# B.1 Advance Care Planning example 1

This informative appendix provides an example CDA instance that conforms to the requirements of this implementation guide.

## Example B.1. Advance Care Plan Level example 1

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.
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 will take precedence. -->

<ClinicalDocument classCode="DOCLIN" moodCode="EVN" xmlns="urn:hl7-org:v3" xmlns:ex="urn:hl7-org/v3-example"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 . . .
<typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
<!-- ClinicalDocument templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100033" extension="1.0" />
<!--Advance Care Planning document model templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100016" extension="1.0" />
<!--CDA Rendering Specification templateId-->
<templateId root="1.2.36.1.2001.1001.100.226" extension="1.0" />
<id root="2.25.134045617645909421812767683577428735500" />
<code code="100.16975" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Advance Care Planning"/>
<title>Advance Care Planning Document</title>
<effectiveTime value="20170621090015+1000" />
<confidentialityCode nullFlavor="NA" />
<languageCode code="en-AU" />
<ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104" codeSystemName="NCTIS Document Status Values" displayName="Final" />
<!-- subject (Patient with mandatory identifier) -->
<recordTarget typeCode="RCT">
<templateId root="1.2.36.1.2001.1001.102.101.100004" extension="1.0" />
<patientRole classCode="PAT">
<id root="ac0cbaae-f63c-4472-a0ee-268ff8f1f661" />
<!-- Patient.address -->
<addr nullFlavor="MSK" />
<patient>
<!-- Patient.name -->
<name use="">
<family>Everyman</family>
<given>Adam</given>
<given>A.</given>
</name>
<!-- Patient.gender -->
<administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.1.2"
codeSystemName="AdministrativeGender" displayName="Male" />
<!-- Patient.identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id root="1.2.36.1.2001.1003.0.8003608833357361" assigningAuthorityName="IHI" />
<ext:assigningGeographicArea classCode="PLC">
<ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</patient>
</patientRole>
</recordTarget>
<!-- author (Patient with mandatory identifier) -->
<author typeCode="AUT">
<templateId root="1.2.36.1.2001.1001.102.101.100003" extension="1.0" />
<!-- Composition.date -->
<time value="20170621090015+1000" />
<assignedAuthor>
<id root="ac0cbaae-f63c-4472-a0ee-268ff8f1f661" />
<code code="ONESELF" codeSystem="2.16.840.1.113883.5.111" />
<assignedPerson>
<!-- Patient.name -->
<name use="L">
<given>Damoc</given>
</name>
<!-- Patient.identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id root="1.2.36.1.2001.1003.0.8003608833357361" assigningAuthorityName="IHI" />
<ext:assigningGeographicArea classCode="PLC">
<ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- custodian (Organization) -->
<custodian>
<templateId root="1.2.36.1.2001.1001.102.101.100002" extension="1.0" />
<assignedCustodian>
<representedCustodianOrganization>
<id root="987d6a7e-6264-43b0-8666-a14eld1bfff91" />
<!-- Organization.identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id root="1.2.36.1.2001.1007.1.8003640001000036" assigningAuthorityName="PAI-O" />
<ext:assigningGeographicArea classCode="PLC">
<ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</representedCustodianOrganization>
</assignedCustodian>
</custodian>
```

```
<component>
  <structuredBody>
    <!-- section (Advance Care Information Section) -->
    <component>
      <section>
        <templateId root="1.2.36.1.2001.1001.102.101.100009" extension="1.0" />
        <!-- section.code -->
        <code code="101.16973" codeSystem="1.2.36.1.2001.1001.101" displayName="Advance Care Information Section"/>
        <!-- section.title -->
        <title>Advance Care Planning</title>
        <!-- section.text -->
        <text mediaType="text/x-hl7-text+xml">
          <paragraph>
            <linkHtml href="attachment.pdf">Advance Care Plan for Adam</linkHtml>
          </paragraph>
          <paragraph>Created on: 03 November 2009</paragraph>
          <paragraph>Created by: Adam Everyman</paragraph>
        </text>
      </entry>
      <!-- DocumentReference -->
      <act classCode="ACT" moodCode="EVN">
        <templateId root="1.2.36.1.2001.1001.102.101.100013" extension="1.0" />
        <code code="102.16971" codeSystem="1.2.36.1.2001.1001.101" displayName="Related Document" />
      <!-- DocumentReference.status -->
      <statusCode code="active"/>
      <!-- DocumentReference.created -->
      <effectiveTime value="200911031235+1000" />
      <!-- DocumentReference.author (Patient with mandatory identifier) -->
      <author typeCode="AUT">
        <templateId root="1.2.36.1.2001.1001.102.101.100003" extension="1.0" />
        <time value="200911031235+1000" />
        <assignedAuthor>
          <id root="ac0cbaae-f63c-4472-a0ee-268ff8f1f661" />
          <code code="ONESELF" codeSystem="2.16.840.1.13883.5.111" />
          <assignedPerson>
            <!-- Patient.identifier -->
            <ext:asEntityIdentifier classCode="IDENT">
              <ext:id root="1.2.36.1.2001.1003.0.800360883357361" assigningAuthorityName="IHI" />
              <ext:assigningGeographicArea classCode="PLC">
                <ext:name>National Identifier</ext:name>
              </ext:assigningGeographicArea>
            </ext:asEntityIdentifier>
          </assignedPerson>
        </assignedAuthor>
      </author>
      <reference typeCode="REFR">
        <externalDocument classCode="DOC">
          <!-- DocumentReference.identifier & DocumentReference.msaterIdentifier -->
          <id root="31c45290-2883-11z2-81c1-0800000c9a67" />
          <!-- DocumentReference.type -->
          <code code="100.16998" codeSystem="1.2.36.1.2001.1001.101" displayName="Advance Care Planning Document" />
          <!-- DocumentReference.content.attachment -->
          <text integrityCheck="IiZNlyLY4gyewfICeWhFe2NcDDw=" mediaType="application/pdf" >
            <reference value="attachment.pdf" />
          </text>
        </externalDocument>
      </reference>
    </act>
    </entry>
  </section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

## B.2 Advance Care Planning example 2

This informative appendix provides an example CDA instance that conforms to the requirements of this implementation guide.

### Example B.2. Advance Care Plan Level example 2

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
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 will take precedence. -->  
  
<ClinicalDocument classCode="DOCCLIN" moodCode="EVN" xmlns="urn:hl7-org:v3"  
  xmlns:ex="urn:hl7-org/v3-example"  
  xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"  
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
  typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
<!-- ClinicalDocument templateId -->  
<templateId root="1.2.36.1.2001.1001.102.101.100033" extension="1.0"/>  
<!-- Advance Care Planning document model templateId -->  
<templateId root="1.2.36.1.2001.1001.102.101.100016" extension="1.0"/>  
<!--CDA Rendering Specification templateId-->  
<templateId root="1.2.36.1.2001.1001.100.226" extension="1.0"/>  
<id root="2.25.134045617645909421812767683577428735500"/>  
<code code="100.16975" codeSystem="1.2.36.1.2001.1001.101"  
  codeSystemName="NCTIS Data Components" displayName="Advance Care Planning"/>  
<title>Advance Care Planning Document</title>  
<effectiveTime value="20170621090015+1000"/>  
<confidentialityCode nullFlavor="NA"/>  
<languageCode code="en-AU"/>  
<ext:completionCode code="P" codeSystem="1.2.36.1.2001.1001.101.104.20104"  
  codeSystemName="NCTIS Document Status Values" displayName="Final"/>  
<!-- subject (Patient with mandatory identifier) -->  
<recordTarget typeCode="RCT">  
<templateId root="1.2.36.1.2001.1001.102.101.100004" extension="1.0"/>  
<patientRole classCode="PAT">  
  <id root="ac0cbaae-f63c-4472-a0ee-268ff8f1f661"/>  
<!-- Patient.address -->  
<addr nullFlavor="MSK"/>  
<patient>  
  <!-- Patient.name -->  
  <name use="C">  
    <given>Adam</given>  
    <given qualifier="IN">A.</given>  
    <family>Everyman</family>  
  </name>  
  <!-- Patient.gender -->  
  <administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.1.2"  
    codeSystemName="AdministrativeGender" displayName="Male"/>  
  <!-- Patient.identifier -->  
  <ext:asEntityIdentifier classCode="IDENT">  
    <ext:id root="1.2.36.1.2001.1003.0.8003608833357361"  
      assigningAuthorityName="IHI"/>  
    <ext:assigningGeographicArea classCode="PLC">  
      <ext:name>National Identifier</ext:name>  
    </ext:assigningGeographicArea>  
  </ext:asEntityIdentifier>  
  </patient>  
</patientRole>  
</recordTarget>  
<!-- composition-author-role :: author (PractitionerRole with practitioner) -->  
<author typeCode="AUT">  
<templateId root="1.2.36.1.2001.1001.102.101.100006" extension="1.0"/>  
<!-- Composition.date -->  
<time value="20170621090015+1000"/>  
<assignedAuthor>  
  <id root="1323691d-27fc-4583-a172-710a787aa204"/>  
<!-- PractitionerRole.code -->  
  <code code="253111" codeSystem="2.16.840.1.113883.13.62"  
    displayName="General Practitioner">  
    <originalText>GP</originalText>  
  </code>  
<!-- Practitioner.telecom -->  
  <telecom use="WB" value="mailto:pchalmers@example.albiongp.com.au"/>  
<!-- PractitionerRole.practitioner -->  
<assignedPerson>  
  <!-- assignedPerson (Base Practitioner) -->  
  <templateId root="1.2.36.1.2001.1001.102.101.100040" extension="1.0"/>  
  <!-- Practitioner.name -->  
  <name use="C">  
    <prefix>Dr.</prefix>  
    <given>Peter</given>  
    <family>Chalmers</family>  
  </name>  
  <!-- PractitionerRole.identifier or Practitioner.identifier -->  
  <ext:asEntityIdentifier classCode="IDENT">  
    <ext:id root="1.2.36.1.2001.1003.0.8003619900015717"  
      assigningAuthorityName="HPI-I"/>  
    <ext:assigningGeographicArea classCode="PLC">  
      <ext:name>National Identifier</ext:name>  
    </ext:assigningGeographicArea>  
  </ext:asEntityIdentifier>  
</assignedPerson>  
<!-- PractitionerRole.organization -->
```

```
<representedOrganization>
  <!-- representedOrganization (Base Organization) -->
  <templateId root="1.2.36.1.2001.1001.102.101.100039" extension="1.0"/>
  <!-- Organization.name -->
  <name>Albion GP Clinic</name>
  <!-- Organization.identifier -->
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.1.2001.1003.0.8003621566684455"
      assigningAuthorityName="HPI-O"/>
    <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
    </ext:assigningGeographicArea>
  </ext:asEntityIdentifier>
</representedOrganization>
</assignedAuthor>
</author>
<!-- custodian (Organization with mandatory identifier) -->
<custodian>
  <templateId root="1.2.36.1.2001.1001.102.101.100002" extension="1.0"/>
<assignedCustodian>
  <representedCustodianOrganization>
    <id root="987d6a7e-6264-43b0-8666-a14e1dlbf91"/>
    <!-- Organization.name -->
    <name>Albion GP Clinic</name>
    <!-- Organization.identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="1.2.36.1.2001.1003.0.8003621566684455"
        assigningAuthorityName="HPI-O"/>
      <ext:assigningGeographicArea classCode="PLC">
        <ext:name>National Identifier</ext:name>
      </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
  </representedCustodianOrganization>
</assignedCustodian>
</custodian>
<!-- attester (Legal Attester) -->
<legalAuthenticator>
  <templateId root="1.2.36.1.2001.1001.102.101.100012" extension="1.0"/>
  <time value="20170621090015+1000"/>
  <signatureCode code="S"/>
<assignedEntity>
  <!-- attester (Legal Attester) indicating same entity as the author via the same id -->
  <id root="1323691d-27fc-4583-a172-710a787aa204"/>
</assignedEntity>
</legalAuthenticator>

<component>
  <structuredBody>
    <!-- section (Advance Care Information Section) -->
    <component>
      <section>
        <templateId root="1.2.36.1.2001.1001.102.101.100009" extension="1.0"/>
        <!-- section.code -->
        <code code="101.16973" codeSystem="1.2.36.1.2001.1001.101"
          displayName="Advance Care Information Section"/>
        <!-- section.title -->
        <title>Advance Care Planning</title>
        <!-- section.text -->
        <text mediaType="text/x-hl7-text+xml" ID="ACPI">
          <paragraph>
            <linkHtml href="attachment.pdf">Advance Care Plan for Adam</linkHtml>
          </paragraph>
          <paragraph>Created on: 03 November 2009</paragraph>
          <paragraph>Created by: Dr. Peter Chalmers</paragraph>
          <paragraph>Document status: Final</paragraph>
        </text>
      </entry>
      <!-- DocumentReference -->
      <act classCode="ACT" moodCode="EVN">
        <templateId root="1.2.36.1.2001.1001.102.101.100013" extension="1.0"/>
        <code code="102.16971" codeSystem="1.2.36.1.2001.1001.101"
          displayName="Related Document"/>
        <text><reference value="#ACPI" /></text>
      <!-- DocumentReference.status -->
      <statusCode code="active"/>
      <!-- DocumentReference.created -->
      <effectiveTime value="200911031235+1000"/>
      <!-- DocumentReference.author (PractitionerRole with practitioner) -->
      <author typeCode="AUT">
        <templateId root="1.2.36.1.2001.1001.102.101.100006" extension="1.0"/>
        <time value="200911031235+1000"/>
        <assignedAuthor>
          <id root="1323691d-27fc-4583-a172-710a787aa204"/>
          <!-- PractitionerRole.practitioner -->
          <assignedPerson>
            <!-- assignedPerson (Base Practitioner) -->
            <templateId root="1.2.36.1.2001.1001.102.101.100040"
              extension="1.0"/>
            <!-- PractitionerRole.identifier or Practitioner.identifier -->
            <ext:asEntityIdentifier classCode="IDENT">
              <ext:id root="1.2.36.1.2001.1003.0.8003619900015717"
                assigningAuthorityName="HPI-I"/>
              <ext:assigningGeographicArea classCode="PLC">
                <ext:name>National Identifier</ext:name>
              </ext:assigningGeographicArea>
            </ext:asEntityIdentifier>
```

```
</assignedPerson>
</assignedAuthor>
</author>

<!-- DocumentReference.docStatus -->
<entryRelationship typeCode="COMP">
<observation classCode="OBS" moodCode="EVN">
<code code="103.20104" codeSystem="1.2.36.1.2001.1001.101"
displayName="Document Status"/>
<value xsi:type="CD" code="F"
codeSystem="1.2.36.1.2001.1001.101.104.20104"
displayName="Final"/>
</observation>
</entryRelationship>

<reference typeCode="REFR">
<externalDocument classCode="DOC">
<!-- DocumentReference.identifier & DocumentReference.msaterIdentifier -->
<id root="31c45290-2883-11z2-81c1-0800000c9a67"/>
<!-- DocumentReference.type -->
<code code="100.16998" codeSystem="1.2.36.1.2001.1001.101"
displayName="Advance Care Planning Document"/>
<!-- DocumentReference.content.attachment -->
<text integrityCheck="iizNlYiY4gyewfICeWhFe2NcDDw="
mediaType="application/pdf">
<reference value="attachment.pdf"/>
</text>
</externalDocument>
</reference>

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

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

## B.3 Advance Care Planning example 3

This informative appendix provides an example CDA instance that conforms to the requirements of this implementation guide.

### Example B.3. Advance Care Plan Level example 3

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
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 will take precedence. -->  
<ClinicalDocument classCode="DOCLIN" moodCode="EVN" xmlns="urn:hl7-org:v3"  
xmlns:xsi="urn:hl7-org/v3-example"  
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="urn:hl7-org:v3 ../../library/schema_au_published/CDA-AU-V1_0.xsd">  
<typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
<!-- ClinicalDocument templateId -->  
<templateId root="1.2.36.1.2001.1001.102.101.100033" extension="1.0"/>  
<!-- Advance Care Planning document model templateId -->  
<templateId root="1.2.36.1.2001.1001.102.101.100016" extension="1.0"/>  
<!-- CDA Rendering Specification templateId-->  
<templateId root="1.2.36.1.2001.1001.100.226" extension="1.0"/>  
<id root="1323691d-27fc-4583-a172-710a787aa204"/>  
<code code="100.16975" codeSystem="1.2.36.1.2001.1001.101"  
codeSystemName="NCTIS Data Components" displayName="Advance Care Planning"/>  
<title>Advance Care Planning Document</title>  
<effectiveTime value="20170621090015+1000"/>  
<confidentialityCode nullFlavor="NA"/>  
<ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104"  
codeSystemName="NCTIS Document Status Values" displayName="Final"/>  
<!-- subject (Patient with mandatory identifier) -->  
<recordTarget typeCode="RCT">  
<templateId root="1.2.36.1.2001.1001.102.101.100004" extension="1.0"/>  
<patientRole classCode="PAT">  
<id root="6caf1912-969f-4311-b6c0-b4ec7728db64"/>  
<!-- Patient.address -->  
<addr nullFlavor="MSK"/>  
<patient>  
<!-- Patient.gender -->  
<administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.1.2"  
codeSystemName="AdministrativeGender" displayName="Male"/>  
<!-- Patient.identifier -->  
<ext:asEntityIdentifier classCode="IDENT">  
<ext:id root="1.2.36.1.2001.1003.0.8003608833357361"  
assigningAuthorityName="IHI"/>  
<ext:assigningGeographicArea classCode="PLC">  
<ext:name>National Identifier</ext:name>  
</ext:assigningGeographicArea>  
</ext:asEntityIdentifier>  
</patient>  
<!-- Patient.managingOrganization -->  
<providerOrganization classCode="ORG">  
<asOrganizationPartOf>  
<wholeOrganization>  
<id root="987d6a7e-6264-43b0-8666-a14e1dlbf91"/>  
<name>Devonport Family Medicine Clinic</name>  
</wholeOrganization>  
</asOrganizationPartOf>  
</providerOrganization>  
</patientRole>  
</recordTarget>  
<!-- composition-author-role :: author (PractitionerRole with practitioner) -->  
<author typeCode="AUT">  
<templateId root="1.2.36.1.2001.1001.102.101.100006" extension="1.0"/>  
<!-- Composition.date -->  
time value="20170621090015+1000"/>  
<assignedAuthor>  
<id root="5ccab2f-9dd0-4d36-aed6-0e95bba3308f"/>  
<!-- PractitionerRole.code -->  
<code code="253111" codeSystem="2.16.840.1.113883.13.62"  
displayName="General Practitioner">  
<originalText>GP</originalText>  
</code>  
<!-- PractitionerRole.telecom -->  
<telecom use="WP" value="mailto:pchalmers@example.albiongp.com.au"/>  
<!-- PractitionerRole.practitioner -->  
<assignedPerson>  
<!-- assignedPerson (Base Practitioner) -->  
<templateId root="1.2.36.1.2001.1001.102.101.100040" extension="1.0"/>  
<!-- Practitioner.name -->  
<name use="C">  
<family>Chalmers</family>  
<given>Peter</given>  
<prefix>Dr.</prefix>  
</name>  
<!-- PractitionerRole.identifier or Practitioner.identifier -->  
<ext:asEntityIdentifier classCode="IDENT">  
<ext:id root="1.2.36.1.2001.1003.0.8003619900015717"  
assigningAuthorityName="HPI-I"/>  
<ext:assigningGeographicArea classCode="PLC">  
<ext:name>National Identifier</ext:name>  
</ext:assigningGeographicArea>
```

```
</ext:asEntityIdentifier>
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.174030967.0.2" extension="5544887B"
    assigningAuthorityName="Medicare Provider number"/>
  <ext:code code="PRN" codeSystem="2.16.840.1.113883.12.203"/>
<ext:assigningGeographicArea classCode="PLC">
  <ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
<!-- PractitionerRole.organization -->
<representedOrganization>
  <!-- representedOrganization (Base Organization) -->
  <templateId root="1.2.36.1.2001.1001.102.101.100039" extension="1.0"/>
  <id root="987d6a7e-6264-43b0-8666-a14e1dbff91"/>
  <!-- Organization.name -->
  <name>Devonport Family Medicine Clinic</name>
  <!-- Organization.telecom -->
  <telecom use="WP" value="mailto:reception@example.dfdc.com.au"/>
  <telecom use="WP" value="fax:0385435557"/>
  <telecom use="WP" value="tel:0385435556"/>
  <!-- Organization.address -->
  <addr use="PST">
    <streetAddressLine>LPO Box 235</streetAddressLine>
    <city>Strahan</city>
    <state>TAS</state>
    <postalCode>7468</postalCode>
  </addr>
  <!-- Organization.identifier -->
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.51824754455"
      assigningAuthorityName="Devonport Family Medicine Clinic"/>
    <ext:code code="XX" codeSystem="2.16.840.1.113883.12.203"
      codeSystemName="Identifier Type (HL7)"/>
  </ext:asEntityIdentifier>
</representedOrganization>
</assignedAuthor>
</author>
<!-- custodian (Organization with mandatory identifier) -->
<custodian>
  <templateId root="1.2.36.1.2001.1001.102.101.100002" extension="1.0"/>
<assignedCustodian>
  <representedCustodianOrganization>
    <id root="987d6a7e-6264-43b0-8666-a14e1dbff91"/>
    <!-- Organization.name -->
    <name>Devonport Family Medicine Clinic</name>
    <!-- Organization.identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
      <ext:id root="1.2.36.51824754455"
        assigningAuthorityName="Devonport Family Medicine Clinic"/>
      <ext:code code="XX" codeSystem="2.16.840.1.113883.12.203"
        codeSystemName="Identifier Type (HL7)"/>
    </ext:asEntityIdentifier>
  </representedCustodianOrganization>
</assignedCustodian>
</custodian>
<!-- attester (Legal Attester) -->
<legalAuthenticator>
  <templateId root="1.2.36.1.2001.1001.102.101.100012" extension="1.0"/>
  <time value="20170621090015+1000"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <!-- attester (Legal Attester) indicating same entity as the author via the same id -->
    <id root="5cc8ab2f-9dd0-4d36-aed6-0e95bba3308f"/>
  </assignedEntity>
</legalAuthenticator>
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</component>

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

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# Appendix C. Mapping from requirements

This informative appendix provides mapping from the data items (i.e. requirements) in *My Health Record Advance Care Planning Information Requirements [NEHT2016a]*.

The table below matches the data items to the elements of the Advance Care Planning (ACP) model as shown in the Element column of the CDA Mapping table in the relevant template, and their corresponding CDA schema element(s) path from the root CDA schema element ClinicalDocument.

Data item	Req No.	Element	CDA schema element
Individual's electronic communication details (optional)	024042	Patient > telecom	/ClinicalDocument/recordTarget/patientRole/patient/telecom /ClinicalDocument/author/assignedAuthor/assignedPerson/telecom
Individual Healthcare Identifier (mandatory)	022082	Patient > identifier	/ClinicalDocument/recordTarget/patientRole/patient/ext:asEntityIdentifier /ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier
Individual's title (optional)	022081	Patient > name	/ClinicalDocument/recordTarget/patientRole/patient/name /ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's given name (optional)	023056	Patient > name	/ClinicalDocument/recordTarget/patientRole/patient/name /ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's family name (mandatory)	023058	Patient > name	/ClinicalDocument/recordTarget/patientRole/patient/name /ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's name suffix (optional)	023059	Patient > name	/ClinicalDocument/recordTarget/patientRole/patient/name /ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's sex (mandatory)	024032	n/a; related to Patient > gender	/ClinicalDocument/recordTarget/patientRole/patient/administrativeGenderCode /ClinicalDocument/author/assignedAuthor/assignedPerson/ext:administrativeGenderCode
Individual's date of birth (mandatory)	023060	Patient > birthdate	/ClinicalDocument/recordTarget/patientRole/patient/birthTime
Date of birth accuracy indicator (optional)	024026 027005	Patient > birthdate > date-accuracy-indicator	/ClinicalDocument/component/structuredBody/component[admin_obs]/section/entry[dob_acc]/observation/value:CS

Data item	Req No.	Element	CDA schema element
Healthcare provider organisation name (mandatory)	023070	Organization > name	/ClinicalDocument/author[prac_rol]/assignedAuthor/representedOrganization/name
Healthcare provider individual's workplace address (optional)	024035	Practitioner > address	/ClinicalDocument/author[prac_rol]/assignedAuthor/addr
Healthcare provider individual's workplace electronic communication details (mandatory)	024892	Practitioner > telecom	/ClinicalDocument/author[prac_rol]/assignedAuthor/telecom
Healthcare Provider Identifier-Individual (mandatory)	023066	PractitionerRole > identifier	/ClinicalDocument/author[prac_rol]/assignedAuthor/assignedPerson/ext:asEntityIdentifier
Healthcare Provider Identifier-Organisation (mandatory)	023071	Organization > identifier	/ClinicalDocument/author[prac_rol]/assignedAuthor/representedOrganization/ext:asEntityIdentifier
Healthcare provider's title (optional)	023061	Practitioner > name	/ClinicalDocument/author[prac_rol]/assignedAuthor/assignedPerson/name
Healthcare provider given name (optional)	023062	Practitioner > name	/ClinicalDocument/author[prac_rol]/assignedAuthor/assignedPerson/name
Healthcare provider family name (mandatory)	023064	Practitioner > name	/ClinicalDocument/author[prac_rol]/assignedAuthor/assignedPerson/name
Healthcare provider name suffix (optional)	023065	Practitioner > name	/ClinicalDocument/author[prac_rol]/assignedAuthor/assignedPerson/name
Individual's electronic communication details (optional)	024042	Patient > telecom  RelatedPerson > telecom  Practitioner > telecom	/ClinicalDocument/author/assignedAuthor/assignedPerson/telecom
Individual's title (optional)	022081	Patient > name  RelatedPerson > name  Practitioner > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name

Data item	Req No.	Element	CDA schema element
Individual's given name (optional)	023056	Patient > name  RelatedPerson > name  Practitioner > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's family name (mandatory)	023058	Patient > name  RelatedPerson > name  Practitioner > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's family name (mandatory)	023058	Patient > name  RelatedPerson > name  Practitioner > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name
Individual's name suffix (optional)	023059	Patient > name  RelatedPerson > name  Practitioner > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name
CDA document author identifier	027383	Patient > identifier  RelatedPerson > identifier  Practitioner > identifier	/ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier
Document type	026956	Composition > type	/ClinicalDocument/code
Document title	027207	Composition > title	/ClinicalDocument/title
Date paper document was written (mandatory)	022070	DocumentReference > created	/ClinicalDocument/component/structuredBody/component[aci]/section/entry[doc_ref_acp]/act/effectiveTime
Single ACP attachment (mandatory)	022062	DocumentReference > content > attachment	/ClinicalDocument/component/structuredBody/component[aci]/section/entry[doc_ref_acp]/act/reference[content]/externalDocument/text:ED
Paper document author (mandatory)	022064	DocumentReference > author	/ClinicalDocument/component/structuredBody/component[aci]/section/entry[doc_ref_acp]/act/author

Data item	Req No.	Element	CDA schema element
Attachment author contact details	027149	DocumentReference > author	/ClinicalDocument/component/structuredBody/component[aci]/section/entry[doc_ref_acp]/author
Total attachment size (mandatory)	022068	n/a	
Attachment document type (mandatory)	022049	DocumentReference > type	/ClinicalDocument/component/structuredBody/component[aci]/section/entry[doc_ref_acp]/act/reference[content]/externalDocument/code
	027148		

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