



Advance Care Directive Custodian Record

CDA Implementation Guide

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Advance Care Directive Record Information Requirements	Version 1.0, Issued 12 December 2011
HL7 Clinical Document Architecture	Release 2, January 2010
Representing Coding in CDA Documents Implementation Guidance	Version 1.0, Issued 10 October 2011
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1 Introduction

This implementation guide is an [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) specification to represent a Advance Care Directive Custodian Record. Advance Care Directive Custodian Record is a record of the custodians of an individual's advance care directive.

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 Directive Custodian Record (ACDCR) model ([Advance Care Records FHIR Implementation Guide \[DH2020h\]](#)) to a corresponding CDA attribute or element. The resulting CDA document can be used for the electronic exchange of ACDCR 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 Implementation Guide \(AU Base 1.1.1\) \[HL7AUF3B2\]](#)) 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, an end-product clinical specification package.

An Agency end-product clinical 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 – a statement of constraints and custom extensions on [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- FHIR implementation guide – a statement of constraints and custom extensions on [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#)
- 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
- release notes

Clinical 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 HL7 CDA and, where necessary, custom extensions to the HL7 CDA, for the purposes of fulfilling the requirements for Australian implementations of advance care directive custodian records. These constraints are defined as a set of templates.

For implementers, the starting point for the CDA templates is [Composition \(Advance Care Directive Custodian Record\)](#), which references the additional templates necessary to assert conformance for this implementation guide.

Chapters that may be of primary interest are organised as follow:

- [3 Conformance](#) - defines the conformance requirements applicable to a clinical document instance claiming conformance to a `ClinicalDocument` template defined in this implementation guide or any derived conformance profile.
- [4 Advance Care Directive Custodian Record hierarchy](#) - hierarchical overview of the model for this document-level usage scenario.
- [5 CDA Header templates](#) - contains the CDA Header templates that apply across all of the supported usage scenarios in this implementation guide.
- [6 Document CDA templates](#) - defines the `ClinicalDocument` template for each logical model of a document-level usage scenario, e.g. Advance Care Directive Custodian Record, in this implementation guide.
- [7 Section CDA templates](#) - defines the `section` templates referenced by a `ClinicalDocument` template in this implementation guide.
- [8 Participation CDA templates](#) - defines the templates for individuals and organisations, called participations, referenced by other templates in this implementation guide.
- [9 Entity CDA templates](#) - defines the templates for entities referenced by a participation template in this implementation guide.
- [10 Act CDA templates](#) - defines the templates for entry-level classes, called acts, referenced by other templates in this implementation guide.
- [Appendix B, Examples](#) - provides examples demonstrating a document-level usage model, e.g. Advance Care Directive Custodian Record, and that conform to the CDA templates defined in 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 Directive Custodian Record Structured Content Specification \[NEHT2011ax\]](#) and [Advance Care Directive Custodian Record CDA Implementation Guide \[NEHT2011bg\]](#). 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 [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) 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
Source material errors	Material in this specification is based on existing standards and all efforts have been made to minimise divergence. Issues of an editorial nature in the source material (such as spelling or punctuation errors in an element description) are intentionally reproduced.
Advance Care Directive Custodian Record CDA implementation guide roadmap	<p>The objective of this specification is to provide guidance on the implementation in HL7 CDA Release 2 of advance care directive custodian record documents (defined in HL7 FHIR).</p> <p>The current guide covers implementation in HL7 CDA Release 2 of the advance care directive custodian record model defined in FHIR Release 3 (STU) (Advance Care Records FHIR Implementation Guide [DH2020h]).</p> <p>The model is a candidate to transition to a FHIR Release 4 representation in collaboration with HL7 Australia. Such a move has normative implications to the CDA representation in this draft including widespread changes to terminology, including code system and value set identifiers. Some FHIR Release 4 terminology has been pre-adopted in this implementation guide.</p>
PractitionerRole > healthcareService	PractitionerRole > healthcareService is not currently mapped into CDA. Future releases of this implementation guide are expected to include a CDA template for the concept of a HealthcareService .
Resolving URLs to Agency logical models (FHIR profiles) – not available	<p>Direct links to the Agency logical models (published as FHIR profiles) referenced throughout this implementation guide are not available. It is intended that logical models, e.g. “Patient with Mandatory Identifier”, will be published at a resolvable address. Future releases of this implementation guide are expected to hyperlink all references to logical models.</p> <p>At this time the Agency logical models are only available via the Advance Care Records FHIR Implementation Guide [DH2020h].</p>
Appendix B. Examples	Alignment with examples between the CDA-IG and FHIR-IG is not yet complete.

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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 standards [\[HL7V3\]](#).

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 narrative conformance requirements](#).

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

- [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- [HL7 Version 3 Standard \[HL7V3\]](#)
- [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 implementation guide 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 directive custodian record 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 [Base conformance requirements](#).

2.3 Conformance conventions

This implementation guide specifies the CDA templates for implementing a advance care directive custodian record. A CDA template is a set of constraints, and where necessary, custom extensions to *HL7 Clinical Document Architecture [HL7CDAR2]*, expressed using conformance conventions as defined in this implementation guide.

CDA templates are presented in a CDA mapping table (see [Mapping presentation and structure](#)) and indicated by the presence of a `templateId` (see [Template identifiers](#)).

2.3.1 Template identifiers

Template identifiers (`templateId`) are unique to each CDA template. When valued in an instance, the template identifier signals the assertion of conformance to a set of template-defined constraints. The root value of this element (e.g. `@root="1.2.36.1.2001.1001.100.1002.226"`) provides a unique identifier for the template in question.

The following example demonstrates assertion of conformance to two CDA templates. This use of `templateId` indicates that the CDA instance not only conforms to the CDA specification, but in addition, conforms to two templates.

Example 2.1. Use of `templateId` to assert conformance to two CDA templates

```
<ClinicalDocument classCode="DOCCLIN" moodCode="EVN" xmlns="urn:h17-org:v3" xmlns:ex="urn:h17-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"/>
  <!-- ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100065"/>
  ...
</ClinicalDocument>
```

2.3.2 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 [HL7CDAR2] 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.

The template context in this implementation guide is that of an open template unless otherwise stated. A closed template is indicated by the presence of the following constraint:

This template **SHALL** be a closed template

For example if 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

Example 2.2. CDA mapping fragment - Interpreting an open template for logical elements

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /	
Composition	A clinical document written by the nominated provider, which contains key pieces of information about an individual's health status and is useful to a wide range of providers in assessing individuals and delivering care.	0..*	Composition	ClinicalDocument	In CDA the maximum occurrences of ClinicalDocument is 1. Although the model indicates that Composition is 0..*, in a CDA implementation this is limited to 0..1. In addition to the template defined in this mapping table, ClinicalDocument SHALL conform to the template defined in ClinicalDocument.
				ClinicalDocument/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.102.101.100020"	
Composition > section (Event Overview)	Summary information concerning the event.	1..1	BackboneElement	ClinicalDocument/component/structuredBody/component[event]	
				ClinicalDocument/component/structuredBody/component[event]/section	section SHALL conform to the template defined in section (Event Overview).
Composition > section (Allergies)	Information about allergies or intolerances identified or reported during this encounter. This may include statements that a patient does not have an allergy or category of allergies.	0..1	BackboneElement	ClinicalDocument/component/structuredBody/component[allergy]	
				ClinicalDocument/component/structuredBody/component[allergy]/section	section SHALL conform to the template defined in section (Allergies).

The above template fragment states that each instance of the logical element `Composition` is represented as a `ClinicalDocument` that:

- explicitly requires an instance of `templateId` with a `root` that conforms to the fixed value constraint. Other attributes of `templateId`, e.g. `assigningAuthorityName`, are implicitly allowed.
- implicitly allows any other child attributes or elements of `ClinicalDocument` including other instances of `templateId`.
- explicitly requires exactly one `component` with an instance of `section` that conforms to `section (Event Overview)` [`templateId: 1.2.36.1.2001.1001.102.101.100059`]. Other `component` elements or attributes are implicitly allowed.
- explicitly allows at most one `component` with an instance of `section` that conforms to `section (Allergies)` [`templateId: 1.2.36.1.2001.1001.102.101.100069`]. Other `component` elements or attributes are implicitly allowed.
- implicitly allows one or more instances of a `component` with a `section` that does not conform to either `section (Event Overview)` [`templateId: 1.2.36.1.2001.1001.102.101.100059`] or `section (Allergies)` [`templateId: 1.2.36.1.2001.1001.102.101.100069`].

2.3.3 Fixed value constraint

A fixed value constraint is used to bind the value of an element or attribute to the exact string as presented between the quote marks (i.e. "FIXED_VALUE"). This type of constraint is frequently used in a template to cast an element to a particular data type, or bind an element of type Coded Simple (CS) to a single code, or fix an attribute of a primitive type to a value.

A fixed value constraint in the "CDA schema element" column of a CDA mapping table will use [XPath like notation](#), for example:

```
/ClinicalDocument/confidentialityCode/@nullFlavor="N/A"
```

The use of "=" is to be interpreted as **SHALL**. The above example specifies a conformance requirement that the `nullFlavor` attribute **SHALL** be instantiated as "N/A".

A fixed value constraint in the "CDA constraints and comments" column of a CDA mapping table will make use of [Conformance verbs](#), for example:

```
displayName SHOULD be "Closing the Gap Copayment Eligibility Indicator"
```

2.3.4 XPath like notation

This implementation guide uses an XML Path Language (XPath) like notation to identify the CDA schema element(s) to which conformance requirements are applied.

This notation provides a mechanism that will be familiar to developers for identifying parts of an XML document. XPath syntax selects nodes from an XML document using a path containing the context of the node(s). The path is constructed from node names and attribute names (prefixed by a "@") and catenated with a "/" symbol. In addition an [index] is used to differentiate similar mappings e.g. participant[location] and participant[author].

The syntax is: {/name{[index]}}n

Where:

- {} indicates optional
- {}n means a section that may repeat
- [index] differentiates two similar mappings and indicates that a pattern 'like this' is to be applied (see [Interpreting cardinality in a CDA mapping table for logical elements](#))

An index after the name, such as component[admin_obs] or entry[close_gap] implies that there are expected to be two or more different component elements and entry elements instantiated in the ClinicalDocument instance. The indexes differentiate which CDA schema element is referenced in the path.

The value attribute of the value element from the below example could be referred to with the path /ClinicalDocument/component/structuredBody/component[admin_obs]/section/entry[close_gap]/observation/value/@value.

Example 2.3. XPath like notation

```
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  ...
  <component>
    <structuredBody>
      <component>
        <section>
          <templateId root="1.2.36.1.2001.1001.102.101.100000"/>
          <code code="102.16080" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Administrative Observations"/>
          <title>Administrative Observations</title>
          <entry>
            <observation classCode="OBS" moodCode="EVN">
              <code codeSystem="1.2.36.1.2001.1001.101" code="103.32011" displayName="Closing the Gap Copayment Eligibility Indicator" />
              <value xsi:type="BL" value="true"/>
            </observation>
          </entry>
        </section>
      </component>
    </structuredBody>
  </component>
  ...
</ClinicalDocument>
```

The corresponding entries in the CDA schema element column of a CDA mapping table for `/ClinicalDocument/component/structuredBody/component[admin_obs]/section/entry[close_gap]/observation/value` could be expressed using the XPath like notation as in the template fragment below.

Example 2.4. CDA mapping fragment - XPath like notation

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: <code>/ClinicalDocument/component/structuredBody/component[admin_obs]/section</code>	
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	<code>entry[close_gap]</code>	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				<code>entry[close_gap]/observation</code>	
				<code>entry[close_gap]/observation/@classCode="OBS"</code>	
				<code>entry[close_gap]/observation/@moodCode="EVN"</code>	
				<code>entry[close_gap]/observation/code</code>	
				<code>entry[close_gap]/observation/code/@code="103.32011"</code>	
				<code>entry[close_gap]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"</code>	NCTIS Data Components
				<code>entry[close_gap]/observation/code/@displayName</code>	displayName SHOULD be "Closing the Gap Copayment Eligibility Indicator".
				<code>entry[close_gap]/observation/value</code>	closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type SHALL be "BL".

2.3.5 Terminology binding

Vocabulary is specified in this implementation guide as:

- **Fixed value constraint** if only one permissible value is allowed, or
- Binding to a value set if more than one permissible value is allowed, e.g. [Medication Act Status HL7 v3 \(required\)](#)

Where used in this implementation guide, binding strengths are hyperlinked to their normative definition. An excerpt is provided in the below table for ease of use, where there are conflicts the target normative definition in [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#) applies.

Binding strength	Description
required	To be conformant, codes in this element SHALL be from the specified value set.
extensible	To be conformant, codes in this element SHALL be from the specified value set if any of the codes within the value set can apply to the concept being communicated.
preferred	Instances are encouraged to draw from the specified codes for interoperability purposes but are not required to do so to be considered conformant.
example	Instances are not expected or even encouraged to draw from the specified value set. The value set merely provides examples of the types of concepts intended to be included.

Terminology binding notation

A value set binding will be specified in the "CDA 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). For example:

[Encounter Act Status HL7 v3 \(required\)](#)

In simple terms the above required binding indicates that the CDA schema element **SHALL** be valued with one of the codes from that value set. However valuing of an element in CDA is always in the context of the data type and the code system specification (e.g. case sensitive or version required).

Example of interpreting a required terminology binding on an element of type Coded Simple Value (CS)

A Coded Simple Value data type, or CS is defined in the HL7 V3 Data types standards [HL7V3]. It is the simplest form of coded data and consists only of a code, other attributes are prohibited. The code system and code system version are fixed by the context in which CS value occurs. Common instances typed as CS include `statusCode`, `@classCode`, `@moodCode`, and `@nullFlavor` which have HL7-defined value sets.

For example, [Encounter Act Status HL7 v3 \(required\)](#), applied to a `encounter/statusCode` element is to be interpreted as:

- `statusCode/@code` **SHALL** be present and **SHALL** contain a code from [Encounter Act Status HL7 v3](#)
- `statusCode/@nullFlavor` **SHALL NOT** be present as no meaningful value can be supplied
- no other attributes can be supplied as `encounter/statusCode` is of type Coded Simple (CS) which prohibits additional attributes

Example 2.5. Interpreting required value set binding

```
<statusCode code="active" />
```

Example of interpreting a required terminology binding on an element of type Concept Descriptor (CD)

A Concept Descriptor data type, or CD, is defined in the HL7 V3 Data types standards [HL7V3]. It is a reference to a concept defined in a code system. Common instances typed as CD include `code`, and `value` when typed to CD.

For example, [Encounter Act Status HL7 v3 \(required\)](#) applied to an `observation/code` is to be interpreted as:

- `code/@code` **SHALL** be present and **SHALL** contain a code from [Encounter Act Status HL7 v3](#)
- `code/@codeSystem="2.16.840.1.113883.5.14"` **SHALL** be present
- `code/@nullFlavor` **SHALL NOT** be present as no meaningful value can be supplied
- `code/@displayName` **SHOULD** be present and **SHOULD** contain the display associated with the selected code from the value set
- `code/@codeSystemName` **SHOULD** be present and **SHOULD** contain the display associated with the code system as it is registered with a registration authority such as HL7
- `code/@originalText` **SHOULD** be present and **SHALL** carry the full text associated with this code as selected by, typed by, or displayed to the author
- `code/@qualifier` **SHALL NOT** be present as the example code system does not define qualifier values

- `code/@translation` **MAY** be present if an alternative terminology is in use in the sending system and a translation is available

Example 2.6. Interpreting required value set binding

```
<code code="active" codeSystem="2.16.840.1.113883.5.14" />

<!-- or -->

<code code="active" codeSystem="2.16.840.1.113883.5.14"
codeSystemName="v3.ActStatus" displayName="active"/>

<!-- or -->

<code code="active" codeSystem="2.16.840.1.113883.5.14"
codeSystemName="v3.ActStatus" displayName="active">
  <originalText>Active</originalText>
</code>
```

2.3.6 Conformance verbs

Where used in this implementation guide, 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 verb	Interpretation
SHALL	<p>An absolute requirement.</p> <p>Where SHALL appears in any conformance constraint it indicates a mandatory requirement.</p> <p>Where SHALL 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>
SHOULD	<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 SHOULD 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>For a sending application where SHOULD 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>
MAY	<p>A requirement that can be included or omitted as the author decides with no implications.</p> <p>Where MAY 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>
SHALL NOT	<p>An absolute prohibition.</p> <p>Where SHALL NOT appears in any conformance constraint it indicates a mandatory prohibition requirement.</p>

Conformance verb	Interpretation
SHOULD NOT	<p>A requirement that is considered best practice or recommendation 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.</p> <p>Where SHOULD NOT 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>For a sending application where SHOULD NOT is applied to the occurrences of an item 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.</p> <p>Implementers must support an optional requirement.</p>

2.3.7 Cardinality notation

The cardinality range specifies the allowable occurrences 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

2.3.8 Interpreting cardinality in a CDA mapping table for logical elements

A CDA mapping table for logical elements will include a logical cardinality range for each logical element and a series of CDA schema elements that when instantiated are considered to be the CDA representation of that logical element.

In order to instantiate a logical element all CDA schema elements mapped to that logical element are to be instantiated unless a constraint is present in the mapping table to indicate otherwise. This means that while the first CDA schema element in a series has a comparative relationship to the logical cardinality, the effect on the additional CDA schema elements in a series is always that their minimum occurrence is to be interpreted as 1.

The logical cardinality is applied to the first mapped CDA schema element in a series in the following manner:

- The most strict minimum occurrence between the logical cardinality or the CDA schema cardinality is applied.
 - If a logical element has a minimum cardinality of 1 and the mapped CDA schema element has a minimum cardinality of 0 then the most strict cardinality of 1 applies to that CDA schema element.
- A CDA schema element with an [index] (see [XPath like notation](#)), e.g. `representedOrganization/name[business]`, has the maximum occurrence of the logical element applied as a pattern 'like this'.
 - For example, if the logical cardinality of `Organization > name` is 0..1 and that logical element is mapped to `representedOrganization/name[business]="TestOrg"` (CDA schema cardinality of 0..*), then a maximum of one instance of `representedOrganization/name` that has a value of "TestOrg" may be present. Other instances of `representedOrganization/name` that do not meet the pattern of "TestOrg" may be present.
- A CDA schema element with no [index] (see [XPath like notation](#)), e.g. `representedOrganization/name`, has the most strict maximum occurrence between the logical cardinality or the CDA schema cardinality applied.
 - For example, if the logical cardinality of `Organization > name` is 0..1 and that logical element is mapped to `representedOrganization/name` (CDA schema cardinality of 0..*), then the most strict cardinality of 1 applies to that CDA schema element.

Example 2.7. CDA mapping fragment - Interpreting cardinality in a CDA mapping table for logical elements

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Body Level 3 Data Elements				Context: Comes from linking elements	
section	A set of allergies or intolerances that have been categorised as critical.	Cardinality comes from linking element	BackboneElement	section	section/@nullFlavor SHALL NOT be present.
				section/templateId	
				section/templateId/@root="1.2.36.1.2001.1001.102.101.100092"	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
section > 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	string	section/title	
section > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	CodeableConcept	section/code	
				section/code/@code="48765-2"	
				section/code/@codeSystem="2.16.840.1.113883.6.1"	LOINC
				section/code/@displayName	displayName SHOULD be "Allergies &or adverse reactions".
section > text	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	Narrative	section/text	
section > entry	A reference to the actual resource from which the narrative in the section is derived.	1..*	Reference()	section/entry[adv]	observation SHALL conform to the template defined in observation (Critical Allergy or Intolerance).
				section/entry[adv]/observation	

The above template fragment states that each instance of the logical element section is represented as a section with:

- section attributes that are not nullFlavor (e.g. classCode) are allowed as defined in the CDA schema as long as conformance to [Base conformance requirements](#) is maintained.
- One templateId with a root="1.2.36.1.2001.1001.102.101.100092". Additional instances of templateId are allowed.
- Exactly one title.
- Exactly one code with a code="48765-2" and a codeSystem="2.16.840.1.113883.6.1" and a displayName.
- At least one entry[adv]/observation that conforms to the template observation (Summary Statement of Allergy or Intolerance) [templateId: 1.2.36.1.2001.1001.102.101.100093]. Additional instances of entry that do not contain an observation are allowed.
- Additional section elements (e.g. author) are allowed as defined in the CDA schema as long as conformance to [Base conformance requirements](#) is maintained.

Example 2.8. Interpreting cardinality in a CDA mapping table for logical elements

```
<ClinicalDocument xmlns="urn:h17-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  ...
  <component>
    <structuredBody>
      ...
      <!-- section (Allergies) -->
      <component>
        <section>
```

```
<templateId root="1.2.36.1.2001.1001.102.101.100092"/>
<code code="48765-2" codeSystem="2.16.840.1.113883.6.1" displayName="Allergies &or adverse reactions"/>
<title>Critical Allergies and Adverse Reactions</title>
<text mediaType="text/x-hl7-text+xml">Allergy to Latex (CRITICAL)</text>
...
<!--section entry -->
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="1.2.36.1.2001.1001.102.101.100093"/>
    ...
  </observation>
</entry>
</section>
</component>
...
</ClinicalDocument>
```


2.4 Mapping presentation and structure

The CDA templates described in this implementation guide are presented in table format and will be either:

- a mapping of each logical element of the logical model (i.e. profiled FHIR resources published in [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#)) to a corresponding CDA attribute or element, or
- a set of CDA attributes or elements with specified infrastructure or control requirements that are not sourced from the logical model but are necessary for supporting the usage scenarios in a CDA implementation.

CDA templates mapping logical elements are roughly grouped by HL7 Reference Information Model (RIM) class within a templates chapter, e.g. [8 Participation 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 logical model that the template corresponds to, e.g. `recordTarget` (My Health Record Patient) defines the CDA template of the `recordTarget` CDA schema element to represent the logical model My Health Record Patient.

2.4.1 Legend - CDA mapping table for logical elements

A CDA mapping table for logical elements aims to take implementers step by step through mapping each element of the logical 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.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA conformance level, e.g. CDA Header, CDA Body Level 3 Data Elements				Context: The root context that is applied as a prefix to the CDA schema element paths in the mapping rows below	
<p>The logical hierarchical path in the logical model expressed using names of the elements in the logical model.</p> <p>If there is a name in round brackets after the path, this is the label for that element or resource.</p> <p>The text in bold (the last in the path) is the subject for this row in the convention <Parent (Label)> > <Child (Label)>, e.g.</p> <p>Composition > section (Allergies)</p>	<p>The description of the element in the logical model.</p>	<p>The cardinality of the logical element in the logical model (see Cardinality notation).</p> <p>The root element of each template will typically express an inherited cardinality from the parent element in a parent template by stating:</p> <p>Cardinality comes from linking element</p> <p>A logical cardinality is applied to the mapped CDA schema elements as described in Interpreting cardinality in a CDA mapping table for logical elements:</p> <ul style="list-style-type: none"> The most strict minimum occurrence between the logical cardinality or the CDA schema defined cardinality is applied. The most strict maximum occurrence applies to CDA schema elements without an [index]. The maximum occurrence of the logical cardinality applies as a pattern 'like this' to CDA schema elements with an [index]. 	<p>The type of the logical element (hyperlinked to the definition of the [HL7FHIR3] type) in the logical model.</p> <p>This may be expressed as a type that is further constrained by a model in the convention <model name>, e.g.</p> <p>Patient with Mandatory Identifier.</p>	<p>The CDA schema element(s) in the CDA template that when instantiated are considered to be the CDA representation of that logical element; expressed using an <i>XPath like notation</i>, e.g.:</p> <p>participant[location]/associatedEntity/code</p> <p>The path always starts from the context as defined in the grey header row above each group of mapping rows.</p> <p>The last CDA schema element in the path is presented in bold to aid the reader.</p> <p>Typically a logical model element will map to multiple CDA schema elements. In order to instantiate the logical element in CDA, the minimum cardinality of the mapped CDA schema elements should be understood to be 1 unless an associated constraint is present to indicate a different cardinality (see Interpreting cardinality in a CDA mapping table for logical elements).</p>	<p>Additional information or guidance on implementing the logical element in CDA to support usage scenarios, e.g.</p> <p>When sending to the My Health Record, an IHI is expected.</p> <p>Constraints on the CDA schema elements, identified by use of Conformance verbs, e.g.</p> <p>code/original-Text or code/@displayName SHALL be included.</p> <p>Terminology binding, e.g.</p> <p>Address Type HL7 v3 (required).</p>

2.4.2 Legend - CDA mapping table for CDA schema elements

A CDA mapping table for CDA schema elements will define conformance requirements that are not sourced from a logical model and that apply cross all of the supported usage scenarios. The following section describes in more detail the fields used to present the mapping content in this implementation guide.

CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
CDA conformance level, e.g. CDA Header, CDA Body Level 3 Data Elements		Context: The root context that is applied as a prefix to the CDA schema element paths in the mapping rows below	
<p>The CDA schema element(s) in the CDA template using an XPath like notation, e.g.:</p> <p>ClinicalDocument/versionNumber/@value</p> <p>The path always starts from the context as defined in the grey header row above each group of mapping rows.</p> <p>The last CDA schema element in the path is presented in bold to aid the reader.</p>	<p>The description of the CDA schema element definitions, sourced from HL7 Clinical Document Architecture, Release 2 [HL7CDAR2].</p>	<p>The cardinality of the CDA schema element in the template (see Cardinality notation).</p> <p>The root element of a template may express an inherited cardinality from the parent element in a parent template by stating:</p> <p>Cardinality comes from linking element</p>	<p>Additional information or guidance on the use of the CDA schema element to support usage scenarios, e.g.</p> <p>The use of templateId signals the imposition of a set of template-defined constraints.</p> <p>Constraints on the CDA schema elements, identified by use of Conformance verbs, e.g.</p> <p>code/originalText or code/@displayName SHALL be included.</p> <p>Terminology binding, e.g.</p> <p>Address Type HL7 v3 (required).</p>

3 Conformance

Conformance claims are typically made against the templates in this implementation guide and additional conformance profiles documented elsewhere such as [Advance Care Document Custodian - My Health Record Conformance Profile \[DH2016ag\]](#).

3.1 Base conformance requirements

Any document that claims conformance to a `ClinicalDocument` template defined in this implementation guide or 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** conform to the CDA templates it claims conformance to.
- It **SHALL** be valid against the additional conformance requirements that are established in this implementation guide (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
 - **SHALL** be clinically safe for receivers of the document to ignore the non-narrative additions when interpreting the existing content.

A system that *consumes* CDA documents that claim conformance to a `ClinicalDocument` template defined in this implementation guide or any derived conformance profile **SHALL** be able to:

- correctly process conformant instance documents, including correctly understanding all the information in the header and it **MAY** but is not required to, reject non-conformant documents.
- correctly render the document for end-users when appropriate (see [Clinical Document Architecture Release 2](#)) but is not required to process any or all of the structured data entries in the CDA document.

3.2 Conformance profile conformance requirements

Conformance profiles of this implementation guide **MAY** make additional rules that override templates in this implementation guide in regard to:

- Allowing the use of alternative value sets in place of the value sets - this is limited to not overriding the rules of the terminology binding strength.
 - For example, a [required](#) value set may be overridden by a value set whose values are a subset of those of the [required](#) binding.
- Restricting the data type of a CDA schema element or attribute.
- Restricting the allowed values of a CDA schema element or attribute.
- Restricting the cardinality of a CDA schema element or attribute.
- Providing more specific or additional mappings to CDA schema elements or attributes.
- Providing refined usage scenarios, definitions, and implementation guidance.

A conformance profile cannot break the rules established in this implementation guide.

3.3 CDA narrative conformance requirements

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

It is an [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. Clinically relevant 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 [\[NEHT2012s\]](#).
- The narrative contents **SHALL** completely and accurately represent the clinical information encoded in the section. Clinical content **SHALL NOT** be omitted from the narrative.
 - 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.
 - In accordance with the requirement to represent section contents in that section, the narrative of the content for a section **SHALL** be contained in that section or, if appropriate, the narrative of an ancestor section.
- 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.

DRAFT

4 Advance Care Directive Custodian Record hierarchy

Advance Care Directive Custodian Record is defined as:

A record of the custodians of an individual's advance care directive. [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#)

The table below provides a hierarchical view of the Advance Care Directive Custodian Record 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.

Composition (Advance Care Directive Custodian Record), published as a set of FHIR profiles, can be found in the [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#).

Logical element		Logical card	Logical type	CDA template
Composition (Advance Care Directive Custodian Record)			Advance Care Directive Custodian Record	Composition (Advance Care Directive Custodian Record)
	composition-author-role	0..1	Reference (PractitionerRole with Practitioner with Mandatory Identifier)	author (PractitionerRole with Practitioner with Mandatory Identifier)
	identifier	0..1	Identifier	
	status	1..1	code	
	type	1..1	CodeableConcept	
	subject	1..1	Reference (Patient with Mandatory Identifier My Health Record Patient)	recordTarget (Patient with Mandatory Identifier) recordTarget (My Health Record Patient)
	date	1..1	dateTime	
	author	1..1	Reference (RelatedPerson with Mandatory Identifier Patient with Mandatory Identifier My Health Record Patient Practitioner with Mandatory Identifier)	author (RelatedPerson with Mandatory Identifier) author (Patient with Mandatory Identifier) author (My Health Record Patient) assignedPerson (Practitioner with Mandatory Identifier)
	title	1..1	string	
	attester (Legal Attester)	0..1	BackboneElement	legalAuthenticator
	mode	1..1	code	
	time	1..1	dateTime	
	party	0..1	Reference (Patient with Mandatory Identifier My Health Record Patient Practitioner with Mandatory Identifier)	
	attester-related-party	0..1	Reference (RelatedPerson with Mandatory Identifier)	
	custodian	1..1	Reference (Organization with Mandatory Identifier)	custodian (Organization with Mandatory Identifier)
	section (Advance Care Directive Custodians)	1..1	BackboneElement	section (Advance Care Directive Custodians)
	title	1..1	string	
	code	1..1	CodeableConcept	
	text	1..1	Narrative	
	entry (Advance Care Directive Custodian Entry)	1..*	Reference (Base Practitioner Base Patient Base RelatedPerson Base Organization)	act (Advance Care Directive Custodian Entry)



Note

The column "Logical element" contains the name of that element in the logical model.

The column "Logical card" contains the logical cardinality of that element in the logical model.

The column "Logical type" contains the type of the logical element (hyper-linked to the definition of the [\[HL7FHIR3\]](#) type) in the logical model.

The column "CDA template" contains the title of the corresponding CDA template for that logical element (hyper-linked to CDA mapping table for that template). The convention for the CDA template title is <CDA schema element> (<model name> where the template is not defined in [5 CDA Header templates](#)).

DRAFT

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 Directive Custodian Record model.

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

5.1 ClinicalDocument

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

CDA schema element	CDA element description	CDA card	CDA 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	This template SHALL be a closed template. All attributes of the ClinicalDocument element defined by the Australian Digital Health Agency CDA schema SHALL be allowed. All instances of a time value SHALL include hours, minutes and a time zone. The CDA document SHALL 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.
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 SHALL be allowed.
ClinicalDocument/typeld	A technology-neutral explicit reference to the CDA Release 2 specification.	1..1	
ClinicalDocument/typeld/@extension="POCD_HD000040"		1..1	The unique identifier for the CDA Release 2 Hierarchical Description.
ClinicalDocument/typeld/@root="2.16.840.1.113883.1.3"		1..1	The OID for HL7 Registered models.

CDA schema element	CDA element description	CDA card	CDA 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 SHALL be allowed.</p> <p>Exactly one template identifier SHALL indicate the constraints defined in this mapping table and have @root="1.2.36.1.2001.1001.102.101.100033".</p> <p>Exactly one template identifier SHALL indicate the constraints defined in the CDA Rendering Specification [NEHT2012s] and have @root="1.2.36.1.2001.1001.100.149".</p> <p>In addition to the template identifiers above, a template identifier is expected for the clinical document model as per Composition (Advance Care Directive Custodian Record). 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 SHALL be allowed with the exception that @nullFlavor SHALL NOT be present.</p> <p>id/@root SHALL be present and it SHALL be a UUID or an OID.</p>
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	All attributes of the effectiveTime element defined by the Australian Digital Health Agency CDA schema SHALL be allowed with the exception that @nullFlavor SHALL NOT be present.
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	<Language Code> – <DIACLECT> The <Language Code> SHALL be "en". The <DIACLECT> SHOULD be "AU".
ClinicalDocument/ languageCode/@code		1..1	
ClinicalDocument/ setId	Represents an identifier that is common across all document revisions.	0..1	All attributes of the setId element defined by the Australian Digital Health Agency CDA schema SHALL be allowed.
ClinicalDocument/ versionNumber	An integer value used to version successive replacement documents.	0..1	
ClinicalDocument/ versionNumber/@value		1..1	
ClinicalDocument/ ext:completionCode	The lifecycle status of a document.	1..1	<p>All attributes of the completionCode element defined by the Australian Digital Health Agency CDA schema SHALL be allowed with the exception that @nullFlavor SHALL NOT be present.</p> <p>Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required)</p>
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 SHALL 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 SHALL 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 SHALL 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 SHALL be allowed.

CDA schema element	CDA element description	CDA card	CDA constraints and comments
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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL 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 SHALL be allowed.

5.2 legalAuthenticator

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/	
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/ 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/ id	A unique identifier for the player entity in this role.	1..1	id/@root SHALL be present and it SHALL be a UUID or an OID.
legalAuthenticator/assignedEntity/ code	The specific kind of role.	0..1	
legalAuthenticator/assignedEntity/ addr	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	
legalAuthenticator/assignedEntity/ telecom	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	
legalAuthenticator/assignedEntity/ assignedPerson	The entity playing the role (assignedEntity) is a person.	1..1	
legalAuthenticator/assignedEntity/assignedPerson/ name	A non-unique textual identifier or moniker for the entity (assignedPerson).	0..*	
legalAuthenticator/assignedEntity/assignedPerson/ ext:asEntityIdentifier	The entity identifier of the person.	0..*	The common pattern Entity Identifier SHALL be applied.
legalAuthenticator/assignedEntity/ representedOrganization	The entity scoping the role (assignedEntity).	0..1	
legalAuthenticator/assignedEntity/representedOrganization/ name	A non-unique textual identifier or moniker for the entity (representedOrganization).	0..*	
legalAuthenticator/assignedEntity/representedOrganization/ ext:asEntityIdentifier	A unique identifier for the scoping entity (represented organization) in this role (assignedEntity).	0..*	The common pattern Entity Identifier SHALL be applied.

5.3 component (Administrative Observations)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
Conformance level comes from linking elements		Context: /ClinicalDocument/component/structuredBody/	
component[admin_obs]	The models contain 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. Administrative Observations is a CDA section that is created to hold these elements in preference to creating extensions for them. An observation included in this section is an observation relating to the patient (i.e. recordTarget) unless a reference to a different entity is instantiated as part of that observation (e.g. observation/participant/participantRole).	Cardinality comes from linking element	ClinicalDocument SHALL contain at most one Administrative Observation section. The Administrative Observations section SHALL NOT 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/id		0..1	id/@root SHALL be present and it SHALL be a UUID or an OID.
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	NCTIS Data Components
component[admin_obs]/section/code/@displayName		0..1	displayName SHOULD be "Administrative Observations".
component[admin_obs]/section/title="Administrative Observations"		0..1	
component[admin_obs]/section/text		0..1	

6 Document CDA templates

This chapter defines each of the document-level usage scenario models, e.g. Composition (Advance Care Directive Custodian Record), as a `ClinicalDocument` template.

6.1 Composition (Advance Care Directive Custodian Record)

The following are the overarching usage scenarios this template is intended to support:

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

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /	
Composition	A record of the custodians of an individual's advance care directive.	0..*	Composition	ClinicalDocument	In CDA the maximum occurrences of ClinicalDocument is 1. Although the model indicates that Composition is 0..*, in a CDA implementation this is limited to 0..1. In addition to the template defined in this mapping table, ClinicalDocument SHALL conform to the template defined in ClinicalDocument .
				ClinicalDocument/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.102.101.100044"	
Composition > identifier	Logical identifier for the composition, assigned when created. This identifier stays constant as the composition is changed over time.	0..1	Identifier	ClinicalDocument/setId	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Composition > status	The workflow/clinical status of this composition. The status is a marker for the clinical standing of the document.	1..1	code	ClinicalDocument/ ext:completionCode	Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required) ¹
Composition > subject	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	Reference (Patient with Mandatory Identifier My Health Record Patient)	ClinicalDocument/ recordTarget	When sending to the My Health Record, recordTarget (My Health Record Patient) is expected. recordTarget SHALL conform to one of the templates defined in: recordTarget (Patient with Mandatory Identifier) or recordTarget (My Health Record Patient) .
Composition > date	The composition editing time, when the composition was last logically changed by the author.	1..1	dateTime	ClinicalDocument/ author/time	
Composition > author	Identifies who is responsible for the information in the composition, not necessarily who typed it in.	1..1	Reference (Patient with Mandatory Identifier My Health Record Patient Practitioner with Mandatory Identifier Related-Person with Mandatory Identifier)	ClinicalDocument/ author	If the author is a patient, when sending to the My Health Record author (My Health Record Patient) is expected. In CDA an author (Practitioner) assignedPerson (Practitioner with Mandatory Identifier) is part of composition-author-role (PractitionerRole) author (PractitionerRole with Practitioner with Mandatory Identifier) . author SHALL conform to one of the templates defined in: author (Patient with Mandatory Identifier) or author (My Health Record Patient) or author (RelatedPerson with Mandatory Identifier) or author (PractitionerRole with Practitioner with Mandatory Identifier) .
Composition > title	Official human-readable label for the composition.	1..1	string	ClinicalDocument/ title="Advance Care Directive Custodian Record"	
Composition > attester (Legal Attester)	A participant who has attested to the accuracy of the composition/document.	0..1	BackboneElement	ClinicalDocument/ legalAuthenticator	A legal attester SHALL have a party or an attester-related-party but not both. legalAuthenticator SHALL conform to the template defined in legalAuthenticator .
Composition > attester (Legal Attester) > mode	The type of attestation the authenticator offers.	1..1	code	n/a	Not mapped separately, the logical mode of "legal" is implicit in legalAuthenticator .
Composition > attester (Legal Attester) > time	When the composition was attested by the party.	1..1	dateTime	ClinicalDocument/legalAuthenticator/ time/@value	
Composition > attester (Legal Attester) > party	Who attested the composition in the specified way.	1..1	Reference (Patient with Mandatory Identifier My Health Record Patient Practitioner with Mandatory Identifier)	ClinicalDocument/legalAuthenticator/ assignedEntity	
Composition > attester (Legal Attester) > attester-related-party	A related person that attested this composition.	0..1	Reference (Related-Person with Mandatory Identifier)	ClinicalDocument/legalAuthenticator/ assignedEntity	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Composition > custodian	Identifies the organization or group who is responsible for ongoing maintenance of and access to the composition/document information.	1..1	Reference (Organization with Mandatory Identifier)	ClinicalDocument/ custodian	When the list is a prescription and dispense view it is expected that the custodian will be the My Health Record system operator. custodian SHALL conform to the template defined in custodian (Organization with Mandatory Identifier) .
Composition > section (Advance Care Directive Custodians)	A section that contains details pertaining to the custodians of an individual's advance care directive.	1..1	BackboneElement	ClinicalDocument/component/structuredBody/ component[acd]	
				ClinicalDocument/component/structuredBody/component[acd]/ section	section SHALL conform to the template defined in section (Advance Care Directive Custodians) .

¹This value set differs from the value set bound to status in the Agency logical model (see [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#)) to support the existing CDA implementation environment. The concept map [CompositionStatus \(HL7 FHIR\) to Australian Healthcare Clinical Document Architecture Document Lifecycle Status](#) provides a mapping between the two value sets.

7 Section CDA templates

This chapter defines the `section` templates referenced by a `ClinicalDocument` template for a document-level model in [6 Document CDA templates](#).

7.1 section (Advance Care Directive Custodians)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logi- cal card	Logical type	CDA schema element	CDA constraints and comments
CDA Body Level 3 Data Elements			Context: Comes from linking elements		
section	A section that contains details pertaining to the custodians of an individual’s advance care directive.	Cardinal- ity comes from linking element	BackboneElement	section[cr]	
				section[cr]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				section[cr]/templateId/@root="1.2.36.1.2001.1001.102.101.100045"	
section > 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	string	section[cr]/title	
section > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	CodeableConcept	section[cr]/code	
				section[cr]/code/@code="101.16694"	
				section[cr]/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				section[cr]/code/@displayName	displayName SHOULD be "Advance Care Directive Custodian Entries".
section > text	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	narrative	section[cr]/text	

Logical element	Logical element description	Logic- al card	Logical type	CDA schema element	CDA constraints and comments
section > entry (Advance Care Directive Custodian Entry)	A reference to the actual resource from which the narrative in the section is derived.	1..*	Reference(Practitioner as Base Practitioner Patient as Base Patient RelatedPerson as Base Related-Person Organization as)	section[cr]/ entry[acdcr]	
				section[cr]/entry[acdcr]/ act	act SHALL conform to the template defined in act (Advance Care Directive Custodian Entry) .

8 Participation CDA templates

This chapter defines the participation templates referenced other templates such as those in [7 Section CDA templates](#) and [6 Document CDA templates](#).

8.1 recordTarget (My Health Record Patient)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA 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.	Cardinal-ity comes from linking element	Patient	recordTarget	recordTarget/patientRole/telecom SHALL NOT be present. recordTarget/patientRole/addr SHALL NOT be present.
				recordTarget/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				recordTarget/templateId/@root="1.2.36.1.2001.1001.102.101.100091"	
				recordTarget/patientRole	
				recordTarget/patientRole/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
				recordTarget/patientRole/patient	
Patient > birthPlace	The registered place of birth of the patient. A sytem may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	Address	recordTarget/patientRole/patient/birthplace	
				recordTarget/patientRole/patient/birthplace/place	
				recordTarget/patientRole/patient/birthplace/place/addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	1..1	Coding	recordTarget/patientRole/patient/ethnicGroupCode	Australian Indigenous Status (required)

Logical element	Logical element description	Logi- al card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	entry[close_gap]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations).
				entry[close_gap]/observation	
				entry[close_gap]/observation/@classCode="OBS"	
				entry[close_gap]/observation/@moodCode="EVN"	
				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"	NCTIS Data Components
				entry[close_gap]/observation/code/@displayName	displayName SHOULD be "Closing the Gap Copayment Eligibility Indicator".
				entry[close_gap]/observation/value	closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type SHALL be "BL".
Patient > patient-mothersMaidenName	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	string	entry[mothers_name]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations).
				entry[mothers_name]/observation	
				entry[mothers_name]/observation/@classCode="OBS"	
				entry[mothers_name]/observation/@moodCode="EVN"	
				entry[mothers_name]/observation/code	
				entry[mothers_name]/observation/code/@code="103.10245"	
				entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[mothers_name]/observation/code/@displayName	displayName SHOULD be "Mother's Original Family Name".
				entry[mothers_name]/observation/value	value/@xsi:type SHALL be "ST".
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > identifier	An identifier for this patient.	1..*	Identifier	recordTarget/patientRole/patient/ext:asEntityIdentifier	The logical cardinality of identifier is 1..*. In this template the minimum cardinality is satisfied by supplying a National Individual Healthcare Identifier (ext:asEntityIdentifier[ihi]). The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > identifier (National Individual Healthcare Identifier (IHI))	National Healthcare Identifier (IHI) for the patient.	1..1	Identifier	recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]	In CDA, an Individual Healthcare Identifier (IHI) is sent as the last arc of an OID. For example an IHI of 8003608833357361 would be sent as 1.2.36.1.2001.1003.0.8003608833357361. If present, ext:asEntityIdentifier[ihi]/ext:assigningGeographicArea/ext:name SHALL be "National Identifier".
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/@classCode="IDENT"	
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id	ext:id/@extension SHALL NOT be present.
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id/@root	root SHALL be an OID. root SHALL have the OID arcs "1.2.36.1.2001.1003.0" preceding the IHI value. The IHI value (last arc of the root OID) prefix SHALL be "800360". The IHI value (last arc of the root OID) SHALL pass the Luhn algorithm check.
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id/@assigningAuthorityName="IHI"	
Patient > active	Whether this patient record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Patient > name	A name associated with the individual.	1..*	Base HumanName	recordTarget/patientRole/patient/name	At least one name SHALL contain a family name (name/family). The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Patient > gender	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	1..1	code	recordTarget/patientRole/patient/administrativeGenderCode	AdministrativeGender (required) ¹
Patient > birthDate	The date of birth for the individual.	1..1	date	recordTarget/patientRole/patient/birthTime	

Logical element	Logical element description	Logi- al card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > birthDate > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	entry[dob_acc]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[dob_acc]/observation	
				entry[dob_acc]/observation/@classCode="OBS"	
				entry[dob_acc]/observation/@moodCode="EVN"	
				entry[dob_acc]/observation/code	
				entry[dob_acc]/observation/code/@code="102.16234"	
				entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[dob_acc]/observation/code/@displayName	displayName SHOULD be "Date of Birth Accuracy Indicator".
				entry[dob_acc]/observation/value	value/@xsi:type SHALL be "CD". Date Accuracy Indicator (required)
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > birthDate > patient-birthTime	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	dateTime	n/a	Not mapped separately, encompassed in patientRole/patient/birthTime.
Patient > deceased[x]	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	boolean dateTime	recordTarget/patientRole/patient/ext:deceasedInd	Only one of ext:deceasedInd or ext:deceasedTime SHOULD be instantiated.
				recordTarget/patientRole/patient/ext:deceasedTime	
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > deceased[x] > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	entry[dod_acc]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[dod_acc]/observation	
				entry[dod_acc]/observation/@classCode="OBS"	
				entry[dod_acc]/observation/@moodCode="EVN"	
				entry[dod_acc]/observation/code	
				entry[dod_acc]/observation/code/@code="102.16252"	
				entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[dod_acc]/observation/code/@displayName	displayName SHOULD be "Date of Death Accuracy Indicator".
				entry[dod_acc]/observation/value	value/@xsi:type SHALL be "CD". Date Accuracy Indicator (required)

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	CodeableConcept	recordTarget/patientRole/patient/ maritalStatusCode	maritalStatusCode/originalText or maritalStatusCode/@displayName SHALL be included. Marital Status Codes (extensible)
Patient > multipleBirth[x]	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	boolean integer	recordTarget/patientRole/patient/ ext:multipleBirthInd	Only one of ext:multipleBirthInd or ext:multipleBirthOrderNumber SHOULD be instantiated.
				recordTarget/patientRole/patient/ ext:multipleBirthOrderNumber	
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	BackboneElement	participant[pat_contact]	In CDA, a patient's contact is represented by a participant. participant SHALL conform to the template defined in participant (Patient contact) .
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	BackboneElement	recordTarget/patientRole/patient/ languageCommunication	
Patient > communication > language	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	CodeableConcept	recordTarget/patientRole/patient/languageCommunication/ languageCode	This CDA schema element is of type CodedSimpleValue (CS). Common Languages in Australia (extensible)
Patient > communication > preferred	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	boolean	recordTarget/patientRole/patient/languageCommunication/ preferenceInd	
Patient > generalPractitioner	Patient's nominated care provider.	0..*	Reference (Base Organization Base Practitioner)	participant[gen_prac]	participant SHALL conform to one of the templates defined in: participant (generalPractitioner Base Organization) or participant (generalPractitioner Base Practitioner) .
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	Reference (Base Organization)	recordTarget/patientRole/ providerOrganization	providerOrganization SHALL conform to the template defined in providerOrganization (Base Organization) .

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.2 recordTarget (Patient with Mandatory Identifier)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Patient	recordTarget	
				recordTarget/templated	The use of templated signals the imposition of a set of template-defined constraints.
				recordTarget/templated/@root="1.2.36.1.2001.1001.102.101.100004"	
				recordTarget/patientRole	
				recordTarget/patientRole/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Patient > birthPlace	The registered place of birth of the patient. A sytem may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	Address	recordTarget/patientRole/patient/birthplace	
				recordTarget/patientRole/patient/birthplace/place	
				recordTarget/patientRole/patient/birthplace/place/addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	Coding	recordTarget/patientRole/patient/ethnicGroupCode	Australian Indigenous Status (required)

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	entry[close_gap]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[close_gap]/observation	
				entry[close_gap]/observation/@classCode="OBS"	
				entry[close_gap]/observation/@moodCode="EVN"	
				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"	NCTIS Data Components
				entry[close_gap]/observation/code/@displayName	displayName SHOULD be "Closing the Gap Copayment Eligibility Indicator".
				entry[close_gap]/observation/value	closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type SHALL be "BL".
Patient > patient-mothersMaid-enName	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	string	entry[mothers_name]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[mothers_name]/observation	
				entry[mothers_name]/observation/@classCode="OBS"	
				entry[mothers_name]/observation/@moodCode="EVN"	
				entry[mothers_name]/observation/code	
				entry[mothers_name]/observation/code/@code="103.10245"	
				entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[mothers_name]/observation/code/@displayName	displayName SHOULD be "Mother's Original Family Name".
				entry[mothers_name]/observation/value	value/@xsi:type SHALL be "ST".
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > identifier	An identifier for this patient.	1..*	Identifier	recordTarget/patientRole/patient/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Patient > active	Whether this patient record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Patient > name	A name associated with the individual.	0..*	Base HumanName	recordTarget/patientRole/patient/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > telecom	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	ContactPoint	recordTarget/patientRole/ telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Patient > gender	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	code	recordTarget/patientRole/patient/ administrativeGenderCode	In the Australian Digital Health Agency CDA schema the minimum occurrence of administrativeGenderCode is 1. Although administrativeGenderCode is required, a sending system may send a patient without gender by instantiating administrativeGenderCode/@nullFlavor="NI". No other nullFlavor value SHALL be allowed. AdministrativeGender (required) ¹
Patient > birthDate	The date of birth for the individual.	0..1	date	recordTarget/patientRole/patient/ birthTime	
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > birthDate > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	entry[dob_acc]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[dob_acc]/observation	
				entry[dob_acc]/observation/@classCode="OBS"	
				entry[dob_acc]/observation/@moodCode="EVN"	
				entry[dob_acc]/observation/code	
				entry[dob_acc]/observation/code/@code="102.16234"	
				entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[dob_acc]/observation/code/@displayName	displayName SHOULD be "Date of Birth Accuracy Indicator".
				entry[dob_acc]/observation/value	value/@xsi:type SHALL be "CD". Date Accuracy Indicator (required)
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > birthDate > patient-birthTime	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	dateTime	n/a	Not mapped separately, encompassed in patientRole/patient/birthTime.
Patient > deceased[x]	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	boolean dateTime	recordTarget/patientRole/patient/ ext:deceasedInd	Only one of ext:deceasedInd or ext:deceasedTime SHOULD be instantiated.
				recordTarget/patientRole/patient/ ext:deceasedTime	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > deceased[x] > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	entry[dod_acc]	The containing component[admin_obs]/section SHALL conform to the template defined in component (Administrative Observations) .
				entry[dod_acc]/observation	
				entry[dod_acc]/observation/@classCode="OBS"	
				entry[dod_acc]/observation/@moodCode="EVN"	
				entry[dod_acc]/observation/code	
				entry[dod_acc]/observation/code/@code="102.16252"	
				entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	NCTIS Data Components
				entry[dod_acc]/observation/code/@displayName	displayName SHOULD be "Date of Death Accuracy Indicator".
				entry[dod_acc]/observation/value	value/@xsi:type SHALL be "CD". Date Accuracy Indicator (required)
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > address	Addresses for the individual.	0..*	Address	recordTarget/patientRole/addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	CodeableConcept	recordTarget/patientRole/patient/maritalStatusCode	maritalStatusCode/originalText or maritalStatusCode/@displayName SHALL be included. Marital Status Codes (extensible)
Patient > multipleBirth[x]	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	boolean integer	recordTarget/patientRole/patient/ext:multipleBirthInd	Only one of ext:multipleBirthInd or ext:multipleBirthOrderNumber SHOULD be instantiated.
				recordTarget/patientRole/patient/ext:multipleBirthOrderNumber	
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	BackboneElement	participant[pat_contact]	In CDA, a patient's contact is represented by a participant. participant SHALL conform to the template defined in participant (Patient contact) .
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	BackboneElement	recordTarget/patientRole/patient/languageCommunication	
Patient > communication > language	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	CodeableConcept	recordTarget/patientRole/patient/languageCommunication/languageCode	This CDA schema element is of type CodedSimpleValue (CS). Common Languages in Australia (extensible)
Patient > communication > preferred	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	boolean	recordTarget/patientRole/patient/languageCommunication/preferenceInd	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > generalPractitioner	Patient's nominated care provider.	0..*	Reference (Base Organization Base Practitioner)	participant[gen_prac]	participant SHALL conform to one of the templates defined in: participant (generalPractitioner Base Organization) or participant (generalPractitioner Base Practitioner) .
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	Reference (Base Organization)	recordTarget/patientRole/ providerOrganization	providerOrganization SHALL conform to the template defined in providerOrganization (Base Organization) .

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.3 participant (Patient contact)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/	
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	Cardinality comes from linking element	BackboneElement	participant[pat_contact]	The patient's contact SHALL have at least:
				participant[pat_contact]/@typeCode="IND"	<ul style="list-style-type: none"> name (participant[pat_contact]/associatedEntity/associatedPerson/name), or telecom (participant[pat_contact]/associatedEntity/telecom), or address (participant[pat_contact]/associatedEntity/address), or organization (participant[pat_contact]/associatedEntity/scopingOrganization)
				participant[pat_contact]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[pat_contact]/templateId/@root="1.2.36.1.2001.1001.102.101.100056"	
				participant[pat_contact]/associatedEntity	
				participant[pat_contact]/associatedEntity/@classCode="CON"	
				participant[pat_contact]/associatedEntity/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Patient > contact > relationship	The nature of the relationship between the patient and the contact person.	0..*	CodeableConcept	participant[pat_contact]/associatedEntity/associatedPerson/ext:personalRelationship	The common pattern Personal Relationship SHALL be applied.
				participant[pat_contact]/associatedEntity/associatedPerson/ext:personalRelationship/ext:code	ext:code/originalText or ext:code/@displayName SHALL be included. Contact Relationship Type (extensible)
Patient > contact > name	A name associated with the contact person.	0..1	Base HumanName	participant[pat_contact]/associatedEntity/associatedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > contact > telecom	A contact detail for the person, e.g. a telephone number or an email address.	0..*	ContactPoint	participant[pat_contact]/associatedEntity/ telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Patient > contact > address	Address for the contact person.	0..1	Address	participant[pat_contact]/associatedEntity/ addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Patient > contact > gender	Administrative Gender - the gender that the contact person is considered to have for administration and record keeping purposes.	0..1	code	participant[pat_contact]/associatedEntity/ associatedPerson/ ext:administrativeGenderCode	AdministrativeGender (required) ¹
Patient > contact > organization	Organization on behalf of which the contact is acting or for which the contact is working.	0..1	Reference (Base Organization)	participant[pat_contact]/associatedEntity/ scopingOrganization	scopingOrganization SHALL conform to the template defined in scopingOrganization (Base Organization) .
Patient > contact > period	The period during which this contact person or organization is valid to be contacted relating to this patient.	0..1	Period	n/a	This logical element has no mapping to CDA.

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.4 participant (Organization contact)

This template is referenced by [participant \(generalPractitioner Base Organization\)](#), [custodian \(Organization with Mandatory Identifier\)](#), [providerOrganization \(Base Organization\)](#), [represente-dOrganization \(Base Organization\)](#), [scopingOrganization \(Base Organization\)](#), and [wholeOrganization \(Base Organization\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	Cardinality comes from linking element	Organization	participant[org_contact]	
				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]/associatedEntity	
				participant[org_contact]/associatedEntity/@classCode="CON"	
				participant[org_contact]/associatedEntity/scopingOrganization	
				participant[org_contact]/associatedEntity/scopingOrganization/id	<p>Organization > contact is represented in CDA by a participant that is scoped by the Organization for which they are a contact.</p> <p>This id SHALL hold the same value as the organization this is a contact for (the value in this id element SHALL be present in a separate participation).</p> <p>id/@root SHALL be present and it SHALL be a UUID or an OID.</p>
Organization > contact > purpose	Indicates a purpose for which the contact can be reached.	0..1	CodeableConcept	participant[org_contact]/associatedEntity/code	<p>code/originalText or code/@displayName SHALL be included.</p> <p>Contact entity type (extensible)¹</p>
Organization > contact > name	A name associated with the contact.	0..1	Base HumanName	participant[org_contact]/associatedEntity/associatedPerson	
				participant[org_contact]/associatedEntity/associatedPerson/name	<p>The model Base HumanName is not applied to name.</p> <p>Recommended mappings for this logical type to CDA (R2) are available: Base HumanName.</p>
Organization > contact > telecom	A contact detail (e.g. a telephone number or an email address) by which the party may be contacted.	0..*	ContactPoint	participant[org_contact]/associatedEntity/telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > contact > address	Visiting or postal addresses for the contact.	0..1	Address	participant[org_contact]/associatedEntity/ addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .

¹This value set differs from the value set bound to contact purpose in the Agency logical model (see [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#)) due to pre-adoption of FHIR Release 4 terminology.

8.5 participant (generalPractitioner Base Organization)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				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 element	Organization	participant[gen_prac]	Organization SHALL have at least: <ul style="list-style-type: none"> identifier (participant[gen_prac]/associatedEntity/scopingOrganization/ext:asEntityIdentifier), or name (participant[gen_prac]/associatedEntity/scopingOrganization/name)
				participant[gen_prac]/@typeCode="PART"	
				participant[gen_prac]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[gen_prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100036"	
				participant[gen_prac]/functionCode/@code="PCP"	
				participant[gen_prac]/associatedEntity	
				participant[gen_prac]/associatedEntity/@classCode="PROV"	
				participant[gen_prac]/associatedEntity/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	participant[gen_prac]/associatedEntity/scopingOrganization/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	participant[gen_prac]/associatedEntity/code	In CDA the maximum occurrences of associatedEntity/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. code/originalText or code/@displayName SHALL be included. OrganizationType (example)

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > name	A name associated with the organization.	0..1	string	participant[gen_prac]/associatedEntity/scopingOrganization/ name[org_name]	In CDA name and alias are represented by scopingOrganization/name.
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	participant[gen_prac]/associatedEntity/scopingOrganization/ name[alias]	In CDA name and alias are represented by scopingOrganization/name.
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	participant[gen_prac]/associatedEntity/ telecom	telecom/@use Organization Telecom Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	participant[gen_prac]/associatedEntity/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	participant[gen_prac]/associatedEntity/scopingOrganization/ asOrganizationPartOf participant[gen_prac]/associatedEntity/scopingOrganization/ asOrganizationPartOf/ wholeOrganization	wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

8.6 participant (generalPractitioner Base Practitioner)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/	
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	Practitioner	participant[gen_prac]	Practitioner SHALL have at least: <ul style="list-style-type: none"> identifier (participant[gen_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier), or name (participant[gen_prac]/associatedEntity/associatedPerson/name)
				participant[gen_prac]/@typeCode="PART"	
				participant[gen_prac]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[gen_prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100037"	
				participant[gen_prac]/functionCode/@code="PCP"	
				participant[gen_prac]/associatedEntity	
				participant[gen_prac]/associatedEntity/@classCode="PROV"	
				participant[gen_prac]/associatedEntity/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
				participant[gen_prac]/associatedEntity/code	The cardinality of code SHALL be interpreted as 0..1. Australian and New Zealand Standard Classification of Occupations (preferred)
Practitioner > identifier	An identifier that applies to this person in this role.	0..*	Identifier	participant[gen_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Practitioner > active	Whether this practitioner's record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Practitioner > name	The name(s) associated with the practitioner.	0..*	Base HumanName	participant[gen_prac]/associatedEntity/associatedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > telecom	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	ContactPoint	participant[gen_prac]/associatedEntity/ telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Practitioner > address	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..*	Address	participant[gen_prac]/associatedEntity/ addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Practitioner > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	code	n/a	This logical element has no mapping to CDA.
Practitioner > birthDate	The date of birth for the practitioner.	0..1	date	n/a	This logical element has no mapping to CDA.
Practitioner > qualification	Qualifications obtained by training and certification.	0..*	BackboneElement	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>instantiation choices:</p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as ext:asQualifications/@classCode="QUAL". The common pattern Qualification SHALL be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual] and SHALL conform to the template defined in ext:coverage2 (Practitioner qualification).</p>
Practitioner > communication	A language the practitioner is able to use in patient communication.	0..*	CodeableConcept	participant[gen_prac]/associatedEntity/associatedPerson/ext: languageCommunication	The common pattern Language Communication SHALL be applied.

8.7 participant (Base Organization)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				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 element	Organization	participant[org]	Organization SHALL have at least: <ul style="list-style-type: none"> • identifier (participant[org]/participantRole/scopingEntity/ext:asEntityIdentifier), or • name (participant[org]/participantRole/scopingEntity/name)
				participant[org]/@type="PART"	
				participant[org]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[org]/templateId/@root="1.2.36.1.2001.1001.102.101.100047"	
				participant[org]/participantRole	
				participant[org]/participantRole/@classCode="ASSIGNED"	
				participant[org]/participantRole/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
				participant[org_contact]/participantRole/scopingEntity	
				participant[org_contact]/participantRole/scopingEntity/typeCode="ORG"	
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	participant[org]/participantRole/scopingEntity/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	participant[org]/participantRole/code	code/originalText or code/@displayName SHALL be included. OrganizationType (example)
Organization > name	A name associated with the organization.	0..1	string	participant[org]/participantRole/scopingEntity/name	In CDA name and alias are represented by scopingEntity/name.

Logical element	Logical element description	Logi- al card	Logical type	CDA schema element	CDA constraints and comments
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	participant[org]/participantRole/scopingEntity/ name	In CDA name and alias are represented by scopingEn- tity/name.
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	participant[org]/participantRole/ telecom	telecom/@use Organization Telecom Use HL7 V3 (re- quired) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	participant[org]/participantRole/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference(Organiza- tion as Base Organiz- ation)	participant[org]/as OrganizationPartOf participant[org]/asOrganizationPartOf/ wholeOrganization	wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

8.8 participant (Base Patient)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	Patient	participant[pat]	Patient SHALL have at least: <ul style="list-style-type: none"> name (participant[pat]/participantRole/playingEntity/name), or identifier (participant[pat]/participantRole/playingEntity/ext:asEntityIdentifier)
				participant[pat]/@type="PART"	
				participant[pat]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[pat]/templateId/@root="1.2.36.1.2001.1001.102.101.100048"	
				participant[pat]/participantRole	
				participant[pat]/participantRole/id	information-recipient (patient) is represented in CDA by an information recipient with the same id as the patient that is the subject of this document. This id SHALL hold the same value as patientRole/id.
				participant[pat]/participantRole/code	Optional CDA element.
				participant[pat]/participantRole/code/@code="ONESELF"	
				participant[pat]/participantRole/code/@codeSystem="2.16.840.1.113883.5.111"	
				participant[pat]/participantRole/playingEntity	
				participant[pat]/participantRole/playingEntity/@classCode=PSN"	
Patient > birthPlace	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	Address	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication/birthPlace/place/address.
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	Coding	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	n/a	closing-the-gap-registration is not currently mapped.
Patient > patient-mothers-MaidenName	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	string	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > identifier	An identifier for this patient.	0..*	Identifier	participant[pat]/participantRole/playingEntity/ ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Patient > active	Whether this patient record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Patient > name	A name associated with the individual.	0..*	HumanName as Base Human-Name	participant[pat]/participantRole/playingEntity/ name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Patient > telecom	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	ContactPoint	participant[pat]/participantRole/playingEntity/ telecom	When sending to the My Health Record, telecom is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Patient > gender	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	code	participant[pat]/participantRole/playingEntity/ ext:administrativeGenderCode	AdministrativeGender (required)
Patient > birthDate	The date of birth for the individual.	0..1	date	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > birthDate > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	n/a	not mapped directly for this participant.
Patient > birthDate > patient-birthTime	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	dateTime	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > deceased	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	boolean dateTime	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > deceased > date-accuracy-indicator	General date accuracy indicator coding.	0..1	Coding	n/a	not mapped directly for this participant.
Patient > address	Addresses for the individual.	0..*	Address	participant[pat]/participantRole/playingEntity/ addr	When sending to the My Health Record, address is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	CodeableConcept	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/maritalStatusCode.
Patient > multipleBirth	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	boolean integer	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multiple-BirthInd or patientRole/patient/multiple-BirthOrderNumber.
Patient > photo	Image of the patient.	0..0	Attachment	participant[pat]/participantRole/playingEntity/ desc	
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	BackboneElement	n/a	This logical element has no mapping to CDA.
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	BackboneElement	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > communication > language	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	CodeableConcept	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication/languageCode.
Patient > communication > preferred	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	boolean	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication/preferenceInd.
Patient > generalPractitioner	Patient's nominated care provider.	0..*	Reference (Organization as Base Organization Practitioner as Base Practitioner)	n/a	This logical element has no mapping to CDA.
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	Reference (Organization as Base Organization)	n/a	This logical element has no mapping to CDA.

8.9 participant (Base Practitioner)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Practitioner	participant[prac]	Practitioner SHALL have at least: <ul style="list-style-type: none">• identifier (participant[prac]/participantRole/playingEntity/ext:asEntityIdentifier), or• name (participant[prac]/participantRole/playingEntity/name)
				participant[prac]/@type="PART"	
				participant[prac]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100049"	
				participant[prac]/functionCode	Optional CDA element. TBD some help on this
				participant[prac]/participantRole	
				participant[gen_prac_org]/participantRole/@classCode="PROV"	
				participant[prac]/participantRole/id	Optional CDA element. id/@root SHALL be present and it SHALL be a UUID or an OID.
				participant[prac]/participantRole/code	Optional CDA element. Australian and New Zealand Standard Classification of Occupations (preferred)
				participant[pat]/participantRole/playingEntity	
				participant[pat]/participantRole/playingEntity/@classCode=PSN"	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > identifier	An identifier that applies to this person in this role.	0..*	Identifier	participant[prac]/participantRole/playingEntity/ ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Practitioner > active	Whether this practitioner's record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Practitioner > name	The name(s) associated with the practitioner.	0..*	HumanName as Base HumanName	participant[prac]/participantRole/playingEntity/ name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Practitioner > telecom	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	ContactPoint	participant[prac]/participantRole/ telecom	Recommended mappings for the complex data type to CDA (R2): Contact-Point .
Practitioner > address	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..*	Address	participant[prac]/participantRole/ addr	Recommended mappings for the complex data type to CDA (R2): Address .
Practitioner > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	code	participant[prac]/participantRole/playingEntity/ ext:administrativeGenderCode	AdministrativeGender (required)
Practitioner > birthDate	The date of birth for the practitioner.	0..1	date	participant[prac]/participantRole/playingEntity/ ext:birthTime	
Practitioner > photo	Image of the person.	0..0	Attachment	participant[prac]/participantRole/playingEntity/ desc	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > qualification	Qualifications obtained by training and certification.	0..*	BackboneElement	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>instantiation choices:</p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as ext:asQualifications/@classCode="QUAL". The common pattern Qualification SHALL be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as ext:coverage2[prac_qual] and SHALL conform to the template defined in ext:coverage2 (Practitioner qualification):</p> <ul style="list-style-type: none"> qualification for a Practitioner SHALL be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual], or qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) SHALL be instantiated as ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]
Practitioner > communication	A language the practitioner is able to use in patient communication.	0..*	CodeableConcept	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>

8.10 participant (Base RelatedPerson)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
RelatedPerson	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 element	RelatedPerson	participant[relper]/	RelatedPerson SHALL have at least: <ul style="list-style-type: none"> name (participant[relper]/participantRole/playingEntity/name), or identifier (participant[relper]/participantRole/playingEntity/ext:asEntityIdentifier), or relationship (participant[relper]/participantRole/playingEntity/ext:personalRelationship)
				participant[relper]/@typeCode="PART"	
				participant[relper]/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				participant[relper]/templateId/@root="1.2.36.1.2001.1001.102.101.100050"	
				participant[relper]/participantRole	Optional CDA element. id/@root SHALL be present and it SHALL be a UUID or an OID.
				participant[relper]/participantRole/id	Optional CDA element. id/@root SHALL be present and it SHALL be a UUID or an OID.
				participant[relper]/participantRole/playingEntity	
				participant[relper]/participantRole/playingEntity/@classCode=PSN"	
RelatedPerson > identifier	Identifier for a person within a particular scope.	1..*	Identifier	participant[relper]/participantRole/playingEntity/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
RelatedPerson > active	Whether this related person record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
RelatedPerson > patient	The patient this person is related to.	1..1	Reference(Patient as Base Patient)	n/a	Not mapped directly for this participant; this is implicit in patientRole.
RelatedPerson > relationship	The nature of the relationship between a patient and the related person.	0..1	string	participant[relper]/participantRole/playingEntity/ ext:personalRelationship	The common pattern Personal Relationship SHALL be applied. ext:personalRelationship/ext:code/originalText or ext:personalRelationship/ext:code/@display-Name SHALL be included. ext:personalRelationship/ext:code Related Person Relationship Type (extensible)
RelatedPerson > name	A name associated with the person.	0..*	HumanName as Base Human-Name	participant[relper]/participantRole/playingEntity/ name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
RelatedPerson > telecom	A contact detail for the person, e.g. a telephone number or an email address.	0..*	ContactPoint participant[relper]/participantRole/playingEntity/ telecom		
RelatedPerson > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	code	participant[relper]/participantRole/playingEntity/ ext:administrativeGenderCode	AdministrativeGender (required)
RelatedPerson > birthDate	The date on which the related person was born.	0..1	date	participant[relper]/participantRole/playingEntity/ ext:birthTime	
RelatedPerson > address	Address where the related person can be contacted or visited.	0..*	Address	participant[relper]/participantRole/playingEntity/ addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
RelatedPerson > photo	Image of the person.	0..0	Attachment	participant[relper]/participantRole/playingEntity/ desc	
RelatedPerson > period	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	Period	participant[relper]/participantRole/playingEntity/ ext:personalRelationship[related]/ext:effectiveTime	

8.11 author (My Health Record Patient)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	Patient	author	author/assignedAuthor/telecom SHALL NOT be present. author/assignedAuthor/addr SHALL NOT be present.
				author/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				author/templateId/@root="1.2.36.1.2001.1001.102.101.100029"	
				author/assignedAuthor	
				author/assignedAuthor/id	author (patient) is represented in CDA by an author with the same id as the patient that is the subject of this document. This id SHALL hold the same value as patientRole/id.
				author/assignedAuthor/code	
				author/assignedAuthor/code/@code="ONESELF"	
				author/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.111"	v3 Code System RoleCode
				author/assignedAuthor/assignedPerson	
Patient > birthPlace	The registered place of birth of the patient. A sytem may use the address.text if they don't store the birth-Place address in discrete elements.	0..1	Address	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthPlace/place/addr.
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	Coding	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	n/a	Not mapped directly for this participant; this is implicit in entry[close_gap]/observation/value.
Patient > patient-mothersMaiden-Name	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	string	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > active	Whether this patient record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > name	A name associated with the individual.	1..*	Base HumanName	author/assignedAuthor/assignedPerson/ name	The model Base HumanName is not applied to name. At least one name SHALL contain a family name (name/family). Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Patient > gender	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	code	author/assignedAuthor/assignedPerson/ ext:administrativeGenderCode	AdministrativeGender (required) ¹
Patient > birthDate	The date of birth for the individual.	0..1	date	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > deceased[x]	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	boolean dateTime	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	CodeableConcept	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/maritalStatusCode.
Patient > multipleBirth[x]	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	boolean integer	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multipleBirthInd or patientRole/patient/ext:multipleBirthOrderNumber.
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	BackboneElement	n/a	This logical element has no mapping to CDA.
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	BackboneElement	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > generalPractitioner	Patient's nominated care provider.	0..*	Reference (Base Organization Base Practitioner)	n/a	This logical element has no mapping to CDA.
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	Reference (Base Organization)	n/a	This logical element has no mapping to CDA.

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.12 author (Patient with Mandatory Identifier)

This template is referenced by [???](#), and [???](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	Patient	author	Patient SHALL have at least: <ul style="list-style-type: none"> name (author/assignedAuthor/assignedPerson/name), or identifier (author/assignedAuthor/assignedPerson/ext:asEntityIdentifier)
				author/templatedId	The use of templatedId signals the imposition of a set of template-defined constraints.
				author/templatedId/@root="1.2.36.1.2001.1001.102.101.100003"	
				author/assignedAuthor	
				author/assignedAuthor/id	author (patient) is represented in CDA by an author with the same id as the patient that is the subject of this document. This id SHALL hold the same value as patientRole/id.
				author/assignedAuthor/code	
				author/assignedAuthor/code/@code="ONESELF"	
				author/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.111"	v3 Code System RoleCode
				author/assignedAuthor/assignedPerson	
Patient > birthPlace	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	Address	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthPlace/place/addr.
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	Coding	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	boolean	n/a	Not mapped directly for this participant; this is implicit in entry[close_gap]/observation/value.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > patient-mothersMaiden-Name	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	string	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > active	Whether this patient record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Patient > name	A name associated with the individual.	0..*	Base HumanName	author/assignedAuthor/assignedPerson/ name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Patient > telecom	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	ContactPoint	author/assignedAuthor/ telecom	When sending to the My Health Record, telecom is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Patient > gender	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	code	author/assignedAuthor/assignedPerson/ ext:administrativeGenderCode	AdministrativeGender (required) ¹
Patient > birthDate	The date of birth for the individual.	0..1	date	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > deceased[x]	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	boolean dateTime	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > address	Addresses for the individual.	0..*	Address	author/assignedAuthor/ addr	When sending to the My Health Record, address is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	CodeableConcept	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/maritalStatusCode.
Patient > multipleBirth[x]	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	boolean integer	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multipleBirthInd or patientRole/patient/multipleBirthOrderNumber.
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	BackboneElement	n/a	This logical element has no mapping to CDA.
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	BackboneElement	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > generalPractitioner	Patient's nominated care provider.	0..*	Reference (Base Organization Base Practitioner)	n/a	This logical element has no mapping to CDA.
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	Reference (Base Organization)	n/a	This logical element has no mapping to CDA.

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.13 author (RelatedPerson with Mandatory Identifier)

This template is referenced by [???](#), and [???](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
RelatedPerson	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	RelatedPerson	author	
				author/ templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				author/templateId/@root="1.2.36.1.2001.1001.102.101.100030"	
				author/assignedAuthor	
				author/assignedAuthor/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
				author/assignedAuthor/code	
				author/assignedAuthor/code/@code="AGNT"	
				author/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.110"	v3 Code System RoleClass
				author/assignedAuthor/assignedPerson	
RelatedPerson > identifier	Identifier for a person within a particular scope.	1..*	Identifier	author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
RelatedPerson > active	Whether this related person record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
RelatedPerson > patient	The patient this person is related to.	1..1	Reference (Base Patient)	n/a	Not mapped directly for this participant; this is implicit in patientRole.
RelatedPerson > relationship	The nature of the relationship between a patient and the related person.	0..1	CodeableConcept	author/assignedAuthor/assignedPerson/ext:personalRelationship	The common pattern Personal Relationship SHALL be applied.
				author/assignedAuthor/assignedPerson/ext:personalRelationship/ext:code	ext:code/originalText or ext:code/@displayName SHALL be included. Related Person Relationship Type (extensible)

Logical element	Logical element description	Logic- al card	Logical type	CDA schema element	CDA constraints and comments
RelatedPerson > name	A name associated with the person.	0..*	Base HumanName	author/assignedAuthor/assignedPerson/ name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
RelatedPerson > telecom	A contact detail for the person, e.g. a telephone number or an email address.	0..*	ContactPoint	author/assignedAuthor/ telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
RelatedPerson > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	code	author/assignedAuthor/assignedPerson/ ext:administrativeGenderCode	AdministrativeGender (required) ¹
RelatedPerson > birthDate	The date on which the related person was born.	0..1	date	author/assignedAuthor/assignedPerson/ ext:birthTime	
RelatedPerson > address	Address where the related person can be contacted or visited.	0..*	Address	author/assignedAuthor/ addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
RelatedPerson > period	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	Period	n/a	Not mapped separately, implicit in ext:personalRelationship/ext:effectiveTime.

¹This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

8.14 author (PractitionerRole with Practitioner with Mandatory Identifier)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
PractitionerRole	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 element	PractitionerRole	author	
				author/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				author/templateId/@root="1.2.36.1.2001.1001.102.101.100006"	
				author/assignedAuthor	
				author/assignedAuthor/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
PractitionerRole > identifier	Business identifiers for practitioner in a role.	0..*	Identifier	author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	<p>In CDA the identifier for both PractitionerRole and Practitioner for an author participation are included in assignedPerson/ext:asEntityIdentifier.</p> <p>When sending to the My Health Record, an HPI-I is expected.</p> <p>The cardinality of ext:asEntityIdentifier SHALL be interpreted as 1..*.</p> <p>The common pattern Entity Identifier SHALL be applied.</p> <p>Recommended mappings for this logical type to CDA (R2) are available: Identifier.</p>
PractitionerRole > active	Whether this practitioner's record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
PractitionerRole > period	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.	0..1	Period	n/a	This logical element has no mapping to CDA.
PractitionerRole > practitioner	Practitioner that is able to provide the defined services for the organization.	1..1	Reference (Practitioner with Mandatory Identifier)	author/assignedAuthor/assignedPerson	assignedPerson SHALL conform to the template defined in assignedPerson (Practitioner with Mandatory Identifier) .
PractitionerRole > organization	The organization where the Practitioner performs the roles associated.	0..1	Reference (Base Organization)	author/assignedAuthor/representedOrganization	representedOrganization SHALL conform to the template defined in representedOrganization (Base Organization) .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
PractitionerRole > code	Roles which this practitioner is authorized to perform for the organization.	0..*	CodeableConcept	author/assignedAuthor/ code	In CDA the maximum occurrences of assignedAuthor/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. A code equivalent to the provider's professional role, e.g. 159011008 [Community pharmacist] is expected. code/originalText or code/@displayName SHALL be included. Australian and New Zealand Standard Classification of Occupations (preferred) or Practitioner Role (preferred) ¹
PractitionerRole > specialty	Specific specialty of the practitioner.	0..*	CodeableConcept	n/a	This logical element has no mapping to CDA.
PractitionerRole > location	The location(s) at which this practitioner provides care.	0..*	Reference(Location)	n/a	This logical element has no mapping to CDA.
PractitionerRole > healthcareService	The list of healthcare services that this worker provides for this role's Organization/Location(s).	0..*	Reference(Health-careService)	n/a	Not currently mapped to CDA. See Known issues .
PractitionerRole > telecom	Contact details that are specific to the role/location/service.	0..*	ContactPoint	author/assignedAuthor/ telecom	In CDA the telecom for both PractitionerRole and Practitioner for an author participation are included in assignedAuthor/telecom. Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
PractitionerRole > availableTime	A collection of times that the Service Site is available.	0..*	BackboneElement	n/a	This logical element has no mapping to CDA.
PractitionerRole > notAvailable	The HealthcareService is not available during this period of time due to the provided reason.	0..*	BackboneElement	n/a	This logical element has no mapping to CDA.
PractitionerRole > availabilityExceptions	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	string	n/a	This logical element has no mapping to CDA.

¹Note: The source representation of this terminology binding on code in PractitionerRole with Practitioner with Mandatory Identifier [DH2020h] 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.

8.15 custodian (Organization with Mandatory Identifier)

This template is referenced by [Composition \(Advance Care Directive Custodian Record\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				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 element	Organization	custodian	
				custodian/ templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				custodian/templateId/@root="1.2.36.1.2001.1001.102.101.100002"	
				custodian/ assignedCustodian	
				custodian/assignedCustodian/ representedCustodianOrganization	
				custodian/assignedCustodian/representedCustodianOrganization/ id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	1..*	Identifier	custodian/assignedCustodian/representedCustodianOrganization/ ext:asEntityIdentifier	When sending to the My Health Record, an HPI-O is expected. The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	n/a	This logical element has no mapping to CDA.
Organization > name	A name associated with the organization.	0..1	string	custodian/assignedCustodian/representedCustodianOrganization/ name	
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	custodian/assignedCustodian/representedCustodianOrganization/ telecom	In CDA the maximum occurrences of representedCustodian-Organization/telecom is 1. Although the model indicates that telecom is 0..*, in a CDA implementation this is limited to 0..1. telecom/@use Organization Telecom Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	custodian/assignedCustodian/representedCustodianOrganization/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . In CDA the maximum occurrences of representedCustodian-Organization/addr is 1. Although the model indicates that address is 0..*, in a CDA implementation this is limited to 0..1. Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	n/a	This logical element has no mapping to CDA.
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

9 Entity CDA templates

This chapter contains the entity templates referenced by a participation template in [8 Participation CDA templates](#).

9.1 providerOrganization (Base Organization)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/recordTarget/patientRole/	
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 element	Organization	providerOrganization	Organization SHALL have at least: <ul style="list-style-type: none"> • identifier (providerOrganization/ext:asEntityIdentifier), or • name (providerOrganization/name)
				providerOrganization/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				providerOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100034"	
				providerOrganization/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	providerOrganization/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	providerOrganization/ standardIndustryClassCode	In CDA the maximum occurrences of providerOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName SHALL be included. OrganizationType (example)
Organization > name	A name associated with the organization.	0..1	string	providerOrganization/ name[org_name]	In CDA name and alias are represented by providerOrganization/name.
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	providerOrganization/ name[alias]	In CDA name and alias are represented by providerOrganization/name.
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	providerOrganization/ telecom	telecom/@use Organization Telecom Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	providerOrganization/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	providerOrganization/ asOrganizationPartOf providerOrganization/asOrganizationPartOf/ wholeOrganization	wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

9.2 representedOrganization (Base Organization)

This template is referenced by [author \(PractitionerRole with Practitioner with Mandatory Identifier\)](#), and [???](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Organization	representedOrganization	Organization SHALL have at least: <ul style="list-style-type: none"> name (representedOrganization/name), or identifier (representedOrganization/ext:asEntityIdentifier)
				representedOrganization/templated	The use of templated signals the imposition of a set of template-defined constraints.
				representedOrganization/templated/@root="1.2.36.1.2001.1001.102.101.100039"	
				representedOrganization/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	representedOrganization/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	representedOrganization/standardIndustryClassCode	In CDA the maximum occurrences of representedOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName SHALL be included. OrganizationType (example)
Organization > name	A name associated with the organization.	0..1	string	representedOrganization/name[org_name]	In CDA name and alias are represented by representedOrganization/name.
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	representedOrganization/name[alias]	In CDA name and alias are represented by representedOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	representedOrganization/ telecom	telecom/@use Organization Telecom Use HL7 V3 (required) . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	representedOrganization/ addr	addr/@use Organization Address Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	representedOrganization/ asOrganizationPartOf	wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
				representedOrganization/asOrganizationPartOf/ wholeOrganization	
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

9.3 assignedPerson (Practitioner with Mandatory Identifier)

This template is referenced by [author \(PractitionerRole with Practitioner with Mandatory Identifier\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Practitioner	assignedPerson	
				assignedPerson/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				assignedPerson/templateId/@root="1.2.36.1.2001.1001.102.101.100040"	
Practitioner > identifier	An identifier that applies to this person in this role.	1..*	Identifier	assignedPerson/ext:asEntityIdentifier	When sending to the My Health Record, an HPI-I is expected. The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Practitioner > active	Whether this practitioner's record is in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Practitioner > name	The name(s) associated with the practitioner.	0..*	Base HumanName	assignedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: Base HumanName .
Practitioner > telecom	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	ContactPoint	telecom	Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Practitioner > address	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..*	Address	addr	Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Practitioner > gender	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	code	n/a	This logical element has no mapping to CDA.
Practitioner > birthDate	The date of birth for the practitioner.	0..1	date	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > qualification	Qualifications obtained by training and certification.	0..*	BackboneElement	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>instantiation choices:</p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as assignedPerson/ext:asQualifications/@classCode="QUAL". The common pattern Qualification SHALL be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as ext:coverage2[prac_qual] and SHALL conform to the template defined in ext:coverage2 (Practitioner qualification):</p> <ul style="list-style-type: none"> qualification for a Practitioner SHALL be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual], or qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) SHALL be instantiated as ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]
Practitioner > communication	A language the practitioner is able to use in patient communication.	0..*	CodeableConcept	assignedPerson/ext:languageCommunication	The common pattern Language Communication SHALL be applied.

9.4 wholeOrganization (Base Organization)

This template is referenced by [participant \(generalPractitioner Base Organization\)](#), [providerOrganization \(Base Organization\)](#), [representedOrganization \(Base Organization\)](#), [scopingOrganization \(Base Organization\)](#), and [wholeOrganization \(Base Organization\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Organization	wholeOrganization	Organization SHALL have at least: <ul style="list-style-type: none"> name (wholeOrganization/name), or identifier (wholeOrganization/ext:asEntityIdentifier)
				wholeOrganization/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				wholeOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100087"	
				wholeOrganization/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	wholeOrganization/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	wholeOrganization/standardIndustryClassCode	In CDA the maximum occurrences of wholeOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName SHALL be included. OrganizationType (example)
Organization > name	A name associated with the organization.	0..1	string	wholeOrganization/name[org_name]	In CDA name and alias are represented by wholeOrganization/name.
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	wholeOrganization/name[alias]	In CDA name and alias are represented by wholeOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	wholeOrganization/ telecom	telecom/@use Organization Telecom Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	wholeOrganization/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	wholeOrganization/ asOrganizationPartOf	wholeOrganization/asOrganizationPartOf/wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
				wholeOrganization/asOrganizationPartOf/ wholeOrganization	
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

9.5 scopingOrganization (Base Organization)

This template is referenced by [participant \(Patient contact\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Organization	scopingOrganization	Organization SHALL have at least: <ul style="list-style-type: none"> name (scopingOrganization/name), or identifier (scopingOrganization/ext:asEntityIdentifier)
				scopingOrganization/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				scopingOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100089"	
				scopingOrganization/id	id/@root SHALL be present and it SHALL be a UUID or an OID.
Organization > identifier	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	Identifier	scopingOrganization/ext:asEntityIdentifier	The common pattern Entity Identifier SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Organization > active	Whether the organization's record is still in active use.	0..1	boolean	n/a	This logical element has no mapping to CDA.
Organization > type	The kind(s) of organization that this is.	0..*	CodeableConcept	scopingOrganization/standardIndustryClassCode	In CDA the maximum occurrences of scopingOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1. standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName SHALL be included. OrganizationType (example)
Organization > name	A name associated with the organization.	0..1	string	scopingOrganization/name[org_name]	In CDA name and alias are represented by scopingOrganization/name.
Organization > alias	A list of alternate names that the organization is known as, or was known as in the past.	0..*	string	scopingOrganization/name[alias]	In CDA name and alias are represented by scopingOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > telecom	A contact detail for the organization.	0..*	ContactPoint	scopingOrganization/ telecom	telecom/@use Organization Telecom Use HL7 V3 (required) ¹ . Recommended mappings for this logical type to CDA (R2) are available: ContactPoint .
Organization > address	An address for the organization.	0..*	Address	scopingOrganization/ addr	addr/@use Organization Address Use HL7 V3 (required) ² . Recommended mappings for this logical type to CDA (R2) are available: Address AU Base Address .
Organization > partOf	The organization of which this organization forms a part.	0..1	Reference (Base Organization)	scopingOrganization/ asOrganizationPartOf	wholeOrganization SHALL conform to the template defined in wholeOrganization (Base Organization) .
				scopingOrganization/asOrganizationPartOf/ wholeOrganization	
CDA Header Data Elements				Context: /ClinicalDocument/	
Organization > contact	Contact for the organization for a certain purpose.	0..*	BackboneElement	participant[org_contact]	participant[org_contact] SHALL conform to the template defined in participant (Organization contact) .

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

10 Act CDA templates

This chapter contains the entry-level templates, called acts (machine readable structured content), referenced by other templates such as those in [7 Section CDA templates](#).

10.1 act (Advance Care Directive Custodian Entry)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Body Level 3 Data Elements				Context: Comes from linking elements	
entry	A reference to the actual resource from which the narrative in the section is derived.	Cardinality comes from linking element	Reference(Practitioner as Base Practitioner Patient as Base Patient RelatedPerson as Base RelatedPerson)	act	
				act/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				act/templateId/@root="1.2.36.1.2001.1001.102.101.100046"	
				act/id	Optional CDA element.
				act/code	
				act/code/@code	
				act/code/@codeSystem="1.2.36.1.2001.1001.101"	
				act/code/@codeSystemName	Optional CDA element. codeSystemName SHOULD be "NCTIS Data Components".
				act/code/@displayName	Optional CDA element. displayName SHOULD be "Advance Care Directive Custodian Entries".
				act/participant	At least one (1..*) advance care directive custodians (act/participant) SHALL be instantiated. participant SHALL conform to the template defined in participant (Base Practitioner) or participant (Base Patient) or participant (Base RelatedPerson) or participant (Base Organization) .

10.2 ext:coverage2 (Practitioner qualification)

This template is referenced by [participant \(generalPractitioner Base Practitioner\)](#), [???](#), and [assignedPerson \(Practitioner with Mandatory Identifier\)](#), [???](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: Comes from linking elements	
Practitioner > qualification	Qualifications obtained by training and certification.	Cardinality comes from linking element	BackboneElement	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]/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"	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/ext:participantRole/ext:id	This ext:id 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).
Practitioner > qualification > identifier	An identifier that applies to this person's qualification in this role.	0..*	Identifier	ext:coverage2[prac_qual]/ext:entitlement/ext:id	Recommended mappings for this logical type to CDA (R2) are available: Identifier .
Practitioner > qualification > code	Coded representation of the qualification.	1..1	CodeableConcept	ext:coverage2[prac_qual]/ext:entitlement/ext:code	ext:code/originalText or ext:code/@displayName SHALL be included. v2 table 0360, Version 2.7 (example)
Practitioner > qualification > period	Period during which the qualification is valid.	0..1	Period	ext:coverage2[prac_qual]/ext:entitlement/ext:effectiveTime	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > qualification > issuer	Organization that regulates and issues the qualification.	0..1	Reference(Organization)	ext:coverage2[prac_qual]/ext:entitlement/ ext:participant[issuer]	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/ @typeCode="AUT"	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/ ext:participantRole	
				ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/ ext:participantRole/ @classCode="COMPAR"	

11 Common patterns

This chapter contains conformance requirements on CDA schema elements. These conformance rules apply across multiple templates, forming 'common patterns'.

11.1 Entity Identifier

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Entity Identifier	ext:asEntityIdentifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	Cardinality comes from linking element	
	ext:asEntityIdentifier/@classCode="IDENT"		1..1	
	ext:asEntityIdentifier/ext:id		1..1	
	ext:asEntityIdentifier/ext:id/@root		1..1	root SHALL be an OID and SHALL NOT be a UUID.
	ext:asEntityIdentifier/ext:id/@extension		0..1	
	ext:asEntityIdentifier/ext:id/@assigningAuthorityName		0..1	A 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 is used for human-readable, not machine processing, purposes. assigningAuthorityName SHOULD be instantiated.
	ext:asEntityIdentifier/ext:code		0..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea		0..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea/@classCode="PLC"		1..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea/ext:name		0..1	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 is used for human-readable, not machine processing, purposes. ext:name SHOULD be instantiated. Healthcare Identifier Geographic Area (preferred) This CDA schema element is expected to be populated with the display, e.g. "National Identifier".

Examples

Example 11.1. Entity Identifier - Australian IHI

```
<!-- Australian IHI -->
<xs:asEntityIdentifier classCode="IDENT">
  <xs:id root="1.2.36.1.2001.1003.0.8003608833357361" assigningAuthorityName="IHI" />
  <xs:assigningGeographicArea classCode="PLC">
    <xs:name>National Identifier</xs:name>
  </xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

Example 11.2. Entity Identifier - Local Medical Record Number

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

Example 11.3. Entity Identifier - Australian HPI-I

```
<!-- Australian HPI-I -->
<xs:asEntityIdentifier classCode="IDENT">
  <xs:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003610537409456" />
  <xs:assigningGeographicArea classCode="PLC">
    <xs:name>National Identifier</xs:name>
  </xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

Example 11.4. Entity Identifier - Australian HPI-O

```
<!-- Australian HPI-O -->
<xs:asEntityIdentifier classCode="IDENT">
  <xs:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
  <xs:assigningGeographicArea classCode="PLC">
    <xs:name>National Identifier</xs:name>
  </xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

11.2 Personal Relationship

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Personal Relationship	ext:personalRelationship	The personal relationship of a participant to a patient. A personal relationship is not to be instantiated if the participant is a practitioner.	Cardinality comes from linking element	
	ext:personalRelationship/@classCode="PRS"		0..1	
	ext:personalRelationship/ext:id		0..1	
	ext:personalRelationship/ext:code		1..1	
	ext:personalRelationship/ext:statusCode		0..1	v3 Code System RoleStatus (required)
	ext:personalRelationship/ext:effectiveTime		0..1	
	ext:personalRelationship/ext:asPersonalRelationship		1..1	
	ext:personalRelationship/ext:asPersonalRelationship/@classCode="PSN"		0..1	
	ext:personalRelationship/ext:asPersonalRelationship/@determinerCode="INSTANCE"		0..1	
	ext:personalRelationship/ext:asPersonalRelationship/id		1..1	This id SHALL hold the same value as patientRole/id.
	ext:personalRelationship/ext:asPersonalRelationship/administrativeGenderCode/@nullFlavor="NA"		1..1	Included for CDA conformance only.

Examples

Example 11.5. Personal Relationship - author related person

```
<!-- recordTarget (Patient) -->
<recordTarget>
  <patientRole>
    <!-- patient identifier-->
    <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>
  </patientRole>
</recordTarget>

<!-- author (RelatedPerson) -->
<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>
```

Example 11.6. Personal Relationship - performer related person

```
<!-- recordTarget (Patient) -->
<recordTarget>
  <patientRole>
    <!-- patient identifier-->
    <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>
  </patientRole>
</recordTarget>

<!-- participant performer (RelatedPerson) -->
<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" />
      </ext:personalRelationship>
    </associatedPerson>
  </associatedEntity>
</participant>
```

```
<!--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>
```

11.3 Qualification

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Qualification	ext:asQualifications	A list of professional certifications, and certificates recognising having passed a course.	Cardinality comes from linking element	
	ext:asQualifications/@classCode="QUAL"		1..1	
	ext:asQualifications/ext:code		1..1	Qualifications is a text field, so the text list is captured in ext:code/originalText.

Examples

Example 11.7. Qualification - Bachelor of Pharmacy

```
<!-- Qualification - Bachelor of Pharmacy -->
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>Bachelor of Pharmacy</originalText>
  </ext:code>
</ext:asQualifications>
```

Example 11.8. Qualification - List of qualifications

```
<!-- Qualification -->
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>Doctor of Medicine, Fellowship of the Australian College of Rural and Remote Medicine (FACRRM)</originalText>
  </ext:code>
</ext:asQualifications>
```

11.4 Language Communication

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Language Communication	ext:languageCommunication	A language communication capability of an individual.	Cardinality comes from linking element	
	ext:languageCommunication/languageCode		1..1	This CDA schema element is of type CodedSimpleValue (CS). All Languages (required) Common Languages in Australia (extensible)
	ext:languageCommunication/modeCode		0..1	v3 Code System LanguageAbilityMode (preferred)
	ext:languageCommunication/proficiencyLevelCode		0..1	v3 Code System LanguageAbilityProficiency (preferred)
	ext:languageCommunication/preferenceInd		0..1	This CDA schema element is of type Boolean (BL).

Examples

Example 11.9. Language Communication - English is preferred

```
<!-- Language Communication -->  
<ext:languageCommunication>  
  <languageCode code="en"/>  
  <preferenceInd value="true"/>  
</ext:languageCommunication>
```

Example 11.10. Language Communication - Pitjantjatjara is preferred

```
<!-- Language Communication -->  
<ext:languageCommunication>  
  <languageCode code="pjt"/>  
</ext:languageCommunication>
```

Example 11.11. Language Communication - German is spoken

```
<!-- Language Communication -->  
<ext:languageCommunication>  
  <languageCode code="de"/>  
</ext:languageCommunication>
```


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

This informative appendix provides some guidance on how [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#) complex data types referred to in the body of this specification can map to CDA (R2). The material provided are recommendations and do not represent conformance requirements.

A.1 Identifier

This informative appendix provides some guidance on how the complex data type [Identifier](#) can map to CDA (R2). In addition to material 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 \[DH2019a\]](#).

The mapping table below provides a set of preferred mappings to the InstanceIdentifier (II) data type [\[HL7V3\]](#) and the Entity Identifier (EntityIdentifier) type defined in the Australian Digital Health Agency CDA schema, and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Identifier	A technical identifier - identifies some entity uniquely and unambiguously.	Cardinality comes from linking element	Element	See: instantiation choices	In CDA it is possible that an 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. instantiation choices: If the identifier is for a Patient , Practitioner , PractitionerRole , Organization , RelatedPerson , or Device , then the identifier is expected to be instantiated as ext:asEntityIdentifier/@classCode="IDENT". See Entity Identifier for available attributes. The identifier element may be instantiated as id.
Identifier > use	The purpose of this identifier.	0..1	code	n/a	This logical element has no mapping to CDA.
Identifier > type	A coded type for the identifier that can be used to determine which identifier to use for a specific purpose.	0..1	CodeableConcept	//ext:asEntityIdentifier/ext:code	ext:code is only available if the identifier is instantiated as ext:asEntityIdentifier/@classCode="IDENT". ext:code/originalText or ext:code/@displayName SHALL be included. Identifier Type Codes (extensible)
Identifier > system	Establishes the namespace for the value - that is, a URL that describes a set values that are unique.	0..1	uri	See: instantiation choices	instantiation choices: If the identifier is for a Patient , Practitioner , PractitionerRole , Organization , RelatedPerson , or Device , then the identifier system is expected to be instantiated as ext:asEntityIdentifier/ext:id/@root. The identifier system may be instantiated as id/@root.
Identifier > value	The portion of the identifier typically relevant to the user and which is unique within the context of the system.	0..1	string	See: instantiation choices	instantiation choices: If the identifier is for a Patient , Practitioner , PractitionerRole , Organization , RelatedPerson , or Device , then identifier value is expected to be instantiated as ext:asEntityIdentifier/ext:id/@extension. The identifier value may be instantiated as id/@extension.

Logical element	Logical element description	Logic- al card	Logical type	CDA schema element	CDA constraints and comments
Identifier > period	Time period during which identifier is/was valid for use.	0..1	Period	n/a	This logical element has no mapping to CDA.
Identifier > assigner	Organization that issued/manages the identifier.	0..1	Reference (Organization)	See: instantiation choices	instantiation choices: If the identifier is for a Patient , Practitioner , PractitionerRole , Organization , RelatedPerson , or Device , then identifier assigner is expected to be instantiated as ext:asEntityIdentifier/ext:id/@assigningAuthorityName. The identifier assigner may be instantiated as id/@assigningAuthorityName.

Examples

Example A.1. Identifier - Patient identifiers

```
<!-- subject -->
<recordTarget>
  <!-- subject (Patient) -->
  <patientRole>
    <patient>
      ...
      <!-- 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/ihi/1.0 -->
        <ext:id assigningAuthorityName="IHI" root="1.2.36.1.2001.1003.0.8003600200002222" />
        <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=Croyden GP Centre,
        identifier.value=542181,
        identifier.system=urn:oid:1.2.36.1.2001.1005.29.8003621566684455 -->
        <ext:id root="1.2.36.1.2001.1005.29.8003621566684455" 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="MC" codeSystem="2.16.840.1.113883.12.203"
        codeSystemName="Identifier Type (HL7)" displayName="Patient's Medicare number"/>
      </ext:asEntityIdentifier>
    </patient>
  </patientRole>
</recordTarget>
```

```

    <!-- 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>

```

Example A.2. PractitionerRole identifiers

```

<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>

      <!-- 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>
```

Example A.3. Identifier - Organization identifier

```
<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>
```

Example A.4. Identifier - ProcedureRequest identifier

```
<!--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 Base HumanName

This informative appendix provides some guidance on how the constrained form of complex data type [HumanName](#) as Base HumanName published by the Australian Digital Health Agency can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PersonName (PN) data type [\[HL7V3\]](#) for representing an Australian address and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
HumanName	A human's name with the ability to identify parts and usage.	Cardinality comes from linking element	Element	//name	name SHALL have at least text (name with full text representation) or family (name/family) or given (name/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.
HumanName > use	Identifies the purpose for this name.	0..1	code	//name/@use	Common Person Name Use (required) ¹
HumanName > text	A full text representation of the name.	0..1	string	//name	
HumanName > family	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	string	//name/family	
HumanName > given	Given name.	0..*	string	//name/given	
HumanName > prefix	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..*	string	//name/prefix	A prefix value can be populated as described in AS 4846 (2014) – Person and provider identification in healthcare [SA2014a] , 4.4.2 Name Title.
HumanName > suffix	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..*	string	//name/suffix	A suffix value can be populated as described in AS 4846 (2014) – Person and provider identification in healthcare [SA2014a] , 4.5.3.2 Name Suffix.
HumanName > period	Indicates the period of time when this name was valid for the named person.	0..1	Period	//name/validTime	

¹This value set differs from the value set bound to use in [HumanName](#) due to constraints on @use in the HL7 CDA Schema. The concept map [NameUse \(HL7 FHIR\) to Common Person Name Use](#) provides a mapping between the two value sets.

Examples

Example A.5. Base HumanName - name use, given names, family name

```
<!-- HumanName where use=official -->
<name use="C">
  <!-- HumanName.given -->
  <given>Adam</given>
  <!-- HumanName.given -->
  <given>A.</given>
  <!-- HumanName.family -->
  <family>Everyman</family>
</name>
```

Example A.6. Base HumanName - unstructured name

```
<!-- HumanName where use=official -->
<name use="C">
  <!-- HumanName.text -->
  Adam A. Everyman
</name>
```

Example A.7. Base HumanName - given name only

```
<!-- HumanName where use=usual -->
<name>
  <!-- HumanName.given -->
  <given>Damo</given>
</name>
```

Example A.8. Base HumanName - structured name with period

```
<!-- 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>
```

</validTime>
</name>

A.3 Address

This informative appendix provides some guidance on how the complex data type [Address](#) can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PostalAddress (AD) data type [HL7V3] and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA 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 element	Element	//addr	
Address > use	The purpose of this address.	0..1	code	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. Address Use HL7 v3 (required) ¹
Address > type	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	code	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. Address Type HL7 v3 (required) ²
Address > text	A full text representation of the address.	0..1	string	//addr	The expectation is that this is free text.
Address > line	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	string	//addr/streetAddressLine	
Address > city	The name of the city, town, village or other community or delivery center.	0..1	string	//addr/city	
Address > district	The name of the administrative area (county).	0..1	string	//addr/county	
Address > state	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	string	//addr/state	
Address > postalCode	A postal code designating a region defined by the postal service.	0..1	string	//addr/postalCode	
Address > country	Country - a nation as commonly understood or generally accepted.	0..1	string	//addr/country	Iso 3166 Part 1: 2 Letter Codes (preferred)
Address > period	Time period when address was/is in use.	0..1	Period	//addr/useablePeriod	

¹This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to type in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressType](#) provides a mapping between the two value sets.

Examples

Example A.9. Address - structured work and postal address

```
<!-- 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>
```

Example A.10. Address - structured home and physical address

```
<!-- 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>
```

Example A.11. Address - temporary international address

```
<!-- Address where use=old -->
<addr use="TMP">
  <!--Address.line-->
  <streetAddressLine>Rue Lougoraia 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 AU Base Address

This informative appendix provides some guidance on how the constrained form of complex data type [Address](#) as [AU Base Address](#) published by HL7 Australia can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PostalAddress (AD) data type [HL7V3] for representing an Australian address and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Address	An Australian address expressed using postal conventions (as opposed to GPS or other location definition formats).	Cardinality comes from linking element	Element	//addr	addr SHALL have text or one or more line (addr/streetAddressLine).
Address > no-fixed-address	No fixed address indicator.	0..1	boolean	n/a	Not mapped directly; if 0..1 is "true", addr SHOULD be "NO FIXED ADDRESS" and addr/@use SHOULD be "PHYS".
Address > use	The purpose of this address.	0..1	code	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. Address Use HL7 v3 (required) ¹
Address > type	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	code	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. Address Type HL7 v3 (required) ²
Address > text	A full text representation of the address.	0..1	string	//addr	The expectation is that this is free text.
Address > line	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	string	//addr/streetAddressLine	
Address > city	The name of the city, town, village or other community or delivery center.	0..1	string	//addr/city	
Address > district	The name of the administrative area (county).	0..1	string	//addr/county	
Address > state	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	string	//addr/state	state SHALL be populated with the code e.g. "NT". Australian States and Territories (required)
Address > postalCode	A postal code designating a region defined by the postal service.	0..1	string	//addr/postalCode	The maximum length of postalCode SHALL be 4.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Address > country	Fixed value if present otherwise assumed to be Australia in this context.	0..1	string	//addr/country	country SHALL be "AU".
Address > period	Time period when address was/is in use.	0..1	Period	//addr/useablePeriod	

¹This value set differs from the value set bound to use in [AU Base Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

²This value set differs from the value set bound to type in [AU Base Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressType](#) provides a mapping between the two value sets.

Examples

Example A.12. AU Base Address - no fixed address in Melbourne, VIC

```
<!-- 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>
```

Example A.13. AU Base Address - unstructured address

```
<!-- Australian Address with only text-->
<addr use="PHYS">
  <!--Address.text-->
  Level 1, 300 George St, Brisbane, QLD 4000
</addr>
```

Example A.14. AU Base Address - structured postal address with period

```
<!-- 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>
```

Example A.15. AU Base Address - structured physical address

```
<!-- 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](#) can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the TelecommunicationAddress (TEL) data type [\[HL7V3\]](#) and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
ContactPoint	Details for all kinds of technology mediated contact points for a person or organization, including telephone, email, etc.	Cardinality comes from linking element	Element	//telecom	In CDA, ContactPoint value and system are represented as parts of telecom/@value. If ContactPoint value is present, ContactPoint system SHALL be present.
ContactPoint > system	Telecommunications form for contact point - what communications system is required to make use of the contact.	0..1	code	//telecom/@value	Makes up part of the attribute: "system: value", e.g. "tel: phone number", "mailto: email address", "http: URL", etc. HL7 URLScheme (required)
ContactPoint > value	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	string	//telecom/@value	Makes up the part of the attribute: "system: value", e.g. "tel: phone number", "mailto: email address", "http: URL", etc.
ContactPoint > use	Identifies the purpose for the contact point.	0..1	code	//telecom/@use	HL7 TelecommunicationAddressUse (required) ¹
ContactPoint > rank	Specifies a preferred order in which to use a set of contacts. Contacts are ranked with lower values coming before higher values.	0..1	positiveInt	n/a	This logical element has no mapping to CDA.
ContactPoint > period	Time period when the contact point was/is in use.	0..1	Period	//telecom/usablePeriod	

¹This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

Examples

Example A.16. ContactPoint - home telephone with period

```
<!-- ContactPoint where system=phone, value=+1-(03)5550-1212, use=home -->
<telecom value="tel:+1-(03)5550-1212" use="H">
  <!-- ContactPoint.period -->
```

```
<useablePeriod xsi:type="IVL_TS">  
  <low value="01012001" />  
  <high value="01012012" />  
</useablePeriod>  
</telecom>
```

Example A.17. ContactPoint - home telephone

```
<!-- ContactPoint where system=phone, value=0755501234, use=home -->  
<telecom use="H" value="tel:0755501234" />
```

Example A.18. ContactPoint - work email

```
<!-- ContactPoint where system=email, value=sfranklin@amail.example.com, use=work -->  
<telecom use="WP" value="mailto:sfranklin@amail.com.au" />
```


Appendix B. Examples

This implementation guide is intended to support multiple usage scenarios; some templates described within this implementation guide are reused across usage scenarios and other implementation guides.

This informative appendix provides examples that conform to the CDA templates defined in this implementation guide to support implementation by demonstrating one or more supported usage scenarios.

Example	Context	Usage Scenario(s)
Advance Care Directive Custodian Record example 1	TBD	TBD
Advance Care Directive Custodian Record example 2	TBD	TBD

A corresponding set of FHIR Release 3 (STU) examples, conforming to the FHIR profiles used as logical models for this CDA implementation guide, are available in the [Advance Care Records FHIR Implementation Guide \[DH2020h\]](#).

B.1 Advance Care Directive Custodian Record example 1

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

Example B.1. Advance Care Directive Custodian Record 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="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"
  xsi:schemaLocation="urn:hl7-org:v3 ../../../../library/schema_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 Directive Custodian Record document model templateId -->
  <templateId root="1.2.36.1.2001.1001.102.101.100044" extension="1.0"/>
  <!-- CDA Rendering Specification templateId -->
  <templateId root="1.2.36.1.2001.1001.100.226" extension="1.0"/>
  <id root="10a31fe6-fcd6-4109-80c6-b1411495a2b7"/>
  <code code="100.16696" codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components" displayName="Advance Care Directive Custodian Record"/>
  <title>Advance Care Directive Custodian Record</title>
  <effectiveTime value="20180621090015+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="5b64239f-0254-45f5-b02d-e3dba30743bf"/>
      <!-- Patient.address -->
      <addr>1 Australia Lane, North Adelaide, SA, 5006, Australia</addr>
      <!-- Patient.telecom -->
      <telecom value="tel:0755886699"/>
      <patient>
        <!-- Patient.name -->
        <name use="C">Mr Frank HARDING</name>
        <!-- Patient.gender -->
        <administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.1.2"
          codeSystemName="AdministrativeGender" displayName="Male"/>
        <!-- Patient.birthDate -->
        <birthTime value="19491004"/>
        <!-- Patient.indigenous-status -->
        <ethnicGroupCode code="4" codeSystem="1.2.36.1.2001.1004.200.10012"
          codeSystemName="Australian Indigenous Status"
          displayName="Neither Aboriginal nor Torres Strait Islander origin"/>
        <!-- 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>
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id assigningAuthorityName="Medicare Card Number"
            root="1.2.36.1.5001.1.0.7.1" extension="3950302571"/>
          <ext:code code="MC" codeSystem="2.16.840.1.113883.12.203"/>
        </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="6bd143fd-1811-46a9-9bc4-e15afdd7174c"/>
      <!-- PractitionerRole.code -->
      <code code="253111" codeSystem="2.16.840.1.113883.13.62"
        displayName="General Practitioner">
        <originalText>GP</originalText>
      </code>
      <!-- Practitioner.address -->
      <addr use="WP">3 HENRI PL, 80 Stamford Road, PEARCE, SA, 5006, Australia</addr>
      <!-- Practitioner.telecom -->
      <telecom use="WP" value="tel:0737202801"/>
      <!-- PractitionerRole.practitioner -->
      <assignedPerson>
        <!-- assignedPerson (Practitioner with mandatory identifier) -->
        <templateId root="1.2.36.1.2001.1001.102.101.100040" extension="1.0"/>
        <!-- Practitioner.name -->
        <name>Dr Charley Fletcher</name>
        <!-- Practitioner.identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
```



```
<ext:id root="1.2.36.1.2001.1003.0.8003612033304560"
  assigningAuthorityName="HPI-I"/>
<ext:assigningGeographicArea classCode="PLC">
  <ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</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-a14e1d1bfff91"/>
      <!-- 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 Directive Custodians) -->
    <component>
      <section>
        <templateId root="1.2.36.1.2001.1001.102.101.100045" extension="1.0"/>
        <id root="9df11e58-5a28-479d-86b4-3ffe823b77aa"/>
        <!-- section.code -->
        <code code="101.16694" codeSystem="1.2.36.1.2001.1001.101"
          displayName="Advance Care Directive Custodian Entries"/>
        <!-- section.title -->
        <title>Advance Care Directive Custodians</title>
        <!-- section.text -->
        <text mediaType="text/x-hl7-text+xml">
          <table>
            <tbody>
              <tr>
                <th>Custodian</th>
                <td/>
              </tr>
              <tr>
                <th>Name</th>
                <td>Mr Frank HARDING</td>
              </tr>
              <tr>
                <th>Address</th>
                <td>1 Australia Lane, North Adelaide, SA, 5006, Australia</td>
              </tr>
              <tr>
                <th>Phone</th>
                <td>0755886699</td>
              </tr>
              <tr>
                <th>Email</th>
                <td>-</td>
              </tr>
            </tbody>
          </table>
          <table>
            <tbody>
              <tr>
                <th>Custodian</th>
                <td/>
              </tr>
              <tr>
                <th>Name</th>
                <td>Dr Charley Fletcher</td>
              </tr>
              <tr>
                <th>Address</th>
                <td>3 HENRI PL, 80 Stamford Road, PEARCE, SA, 5006, Australia
                  (Workplace)</td>
              </tr>
              <tr>
                <th>Phone</th>
                <td>(07) 3720 2801 (Workplace)</td>
              </tr>
              <tr>
                <th>Email</th>
                <td>-</td>
              </tr>
            </tbody>
          </table>
          <table>
            <tbody>
              <tr>
                <th>Custodian</th>
                <td/>
              </tr>
              <tr>
                <th>Name</th>
                <td>Dr Matthew Kessler</td>
              </tr>
            </tbody>
          </table>
        </text>
      </section>
    </component>
  </structuredBody>
</component>
```

```
</tr>
<tr>
<th>Address</th>
<td>12 Yamba Ave, Garran, ACT, 2605, Australia (Workplace)</td>
</tr>
<tr>
<th>Phone</th>
<td>0245754566 (Workplace)</td>
</tr>
<tr>
<th>Email</th>
<td>-</td>
</tr>
</tbody>
</table>
</text>

<!-- entry (Advance Care Directive Custodian Entry) -->
<entry>
<act classCode="ACT" moodCode="EVN">
<templateId root="1.2.36.1.2001.1001.102.101.100046" extension="1.0"/>
<id root="9c049b63-37f0-45a2-b447-8e5bb5747170"/>
<code code="102.16690" codeSystem="1.2.36.1.2001.1001.101"
displayName="Advance Care Directive Custodian Entry"/>
<!--participant (Base Patient)-->
<participant typeCode="PART">
<templateId root="1.2.36.1.2001.1001.102.101.100048" extension="1.0"/>
<participantRole>
<id root="5b64239f-0254-45f5-b02d-e3dba30743bf"/>
<code code="ONESELF" codeSystem="2.16.840.1.113883.5.111"/>
<addr>1 Australia Lane, North Adelaide, SA, 5006,
Australia</addr>
<telecom value="tel:0755886699"/>
<playingEntity classCode="PSN">
<name>Mr Frank HARDING</name>
</playingEntity>
</participantRole>
</participant>
<!--participant (Base Practitioner)-->
<participant typeCode="PART">
<templateId root="1.2.36.1.2001.1001.102.101.100049" extension="1.0"/>
<participantRole>
<id root="692a0819-b240-4acf-95ae-fd02d214bc90"/>
<addr use="WP">12 Yamba Ave, Garran, ACT, 2605, Australia</addr>
<telecom use="WP" value="tel:0245754566"/>
<playingEntity classCode="PSN">
<name>Dr Matthew Kessler</name>
</playingEntity>
</participantRole>
</participant>
<!--participant (Base Practitioner)-->
<participant typeCode="PART">
<templateId root="1.2.36.1.2001.1001.102.101.100049" extension="1.0"/>
<participantRole>
<id root="6bd143fd-1811-46a9-9bc4-e15afdd7174c"/>
<addr use="WP">3 HENRI PL, 80 Stamford Road, PEARCE, SA, 5006,
Australia</addr>
<telecom use="WP" value="tel:0737202801"/>
<playingEntity classCode="PSN">
<name>Dr Charley Fletcher</name>
</playingEntity>
</participantRole>
</participant>
</act>
</entry>
</section>
</component>

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

B.2 Advance Care Directive Custodian Record example 2

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

Example B.2. Advance Care Directive Custodian Record 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"
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 Directive Custodian Record document model templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100044" extension="1.0"/>
<!--CDA Rendering Specification templateId-->
<templateId root="1.2.36.1.2001.1001.100.226" extension="1.0"/>
<id root="ffc1533c-27c8-48b7-b32b-981b77d03329"/>
<code code="100.16696" codeSystem="1.2.36.1.2001.1001.101"
codeSystemName="NCTIS Data Components" displayName="Advance Care Directive Custodian Record"/>
<title>Advance Care Directive Custodian Record</title>
<effectiveTime value="20180921090015+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="70fce0a-dc27-445a-b2d1-a17fac5a7d0c"/>
<!-- Patient.telecom -->
<telecom value="tel:0755876699"/>
<patient>
<!-- Patient.name -->
<name>
<prefix>Ms</prefix>
<given>Faye</given>
<family>Ferris</family>
</name>
<!-- Patient.gender -->
<administrativeGenderCode code="female" codeSystem="2.16.840.1.113883.4.642.1.2"
codeSystemName="AdministrativeGender" displayName="Male"/>
<!-- Patient.indigenous-status -->
<ethnicGroupCode code="4" codeSystem="1.2.36.1.2001.1004.200.10012"
codeSystemName="Australian Indigenous Status"
displayName="Neither Aboriginal nor Torres Strait Islander origin"/>
<!-- Patient.identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id assigningAuthorityName="Medicare Card Number"
root="1.2.36.1.5001.1.0.7.1" extension="3950302571"/>
<ext:code code="MC" codeSystem="2.16.840.1.113883.12.203"/>
</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="1be2ab6e-ed2f-448b-8cf2-ed2172ad9c17"/>
<!-- PractitionerRole.code -->
<code code="253111" codeSystem="2.16.840.1.113883.13.62"
displayName="General Practitioner">
<originalText>GP</originalText>
</code>
<!-- Practitioner.telecom -->
<telecom use="WP" value="mailto:bhelpman@example.devonportgp.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>
<given>Barry</given>
<family>Helpman</family>
<suffix qualifier="AC">M.D.</suffix>
</name>
<!-- Practitioner.identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id root="1.2.36.1.2001.1003.0.8003610000000000"
assigningAuthorityName="HPI-I"/>
<ext:assigningGeographicArea classCode="PLC">
<ext:name>National Identifier</ext:name>
</ext:assigningGeographicArea>
```

```

</ext:asEntityIdentifier>
<!-- Practitioner.qualification -->
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>Bachelor of Medicine</originalText>
  </ext:code>
</ext:asQualifications>
</assignedPerson>
</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="94ff0fbc-0454-47d4-bc8c-7d945f3c6ab3"/>
      <!-- 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 Directive Custodians) -->
    <component>
      <section>
        <templateId root="1.2.36.1.2001.1001.102.101.100045" extension="1.0"/>
        <id root="0007b6dc-0cf3-4f08-a87c-097deb5a01a"/>
        <!-- section.code -->
        <code code="101.16694" codeSystem="1.2.36.1.2001.1001.101"
          displayName="Advance Care Directive Custodian Entries"/>
        <!-- section.title -->
        <title>Advance Care Directive Custodians</title>
        <!-- section.text -->
        <text mediaType="text/x-hl7-text+xml">
          <table>
            <tbody>
              <tr>
                <th>Custodian</th>
                <td/>
              </tr>
              <tr>
                <th>Name</th>
                <td>Dr Sarah Tonin</td>
              </tr>
              <tr>
                <th>Phone</th>
                <td>0849754566</td>
              </tr>
              <tr>
                <th>Email</th>
                <td>sarah.tonin@example.com.au</td>
              </tr>
            </tbody>
          </table>
        </text>
        <!-- entry (Advance Care Directive Custodian Entry) -->
        <entry>
          <act classCode="ACT" moodCode="EVN">
            <templateId root="1.2.36.1.2001.1001.102.101.100046" extension="1.0"/>
            <id root="8dd3234c-cab7-48ef-851d-b432616aaeab"/>
            <code code="102.16690" codeSystem="1.2.36.1.2001.1001.101"
              displayName="Advance Care Directive Custodian Entry"/>
            <!--participant (Base Practitioner)-->
            <participant typeCode="PART">
              <templateId root="1.2.36.1.2001.1001.102.101.100049" extension="1.0"/>
              <participantRole>
                <id root="f400ce46-9ff1-4885-baaf-13fd8774c5d0"/>
                <telecom use="WP" value="mailto:sarah.tonin@example.com.au"/>
                <telecom use="WP" value="tel:0849754566"/>
                <playingEntity classCode="PSN">
                  <name>Dr Sarah Tonin</name>
                </playingEntity>
              </participantRole>
            </participant>
          </act>
        </entry>
      </section>
    </component>
  </structuredBody>
</component>
</ClinicalDocument>

```

Appendix C. Mapping from requirements

This informative appendix provides a mapping from the requirements of each end-product clinical specification to a logical element (profiled FHIR resource) and its corresponding mapping to a CDA schema element (in a CDA template).

The mapping from requirements tables in this appendix demonstrates the logical decomposition of each requirement to the lowest possible element in the applicable logical model and CDA template.

Legend for mapping from requirements

Requirement section	Data item	Logical element	CDA schema element	Additional notes
The heading text of the section the requirement is specified in as taken from the requirements specification.	The heading text of the requirement as taken from the requirements specification.	<p>Either the name of the lowest element in a profiled FHIR resource that addresses the requirement or n/a where the requirement has been deemed not applicable.</p> <p>If the lowest possible decomposition is to the resource then only the resource name (e.g. Patient) is present. If the lowest possible decomposition is to one or more child elements of a FHIR resource then a ">" notation is used to indicate the hierarchical relationship.</p> <p>For example Patient > communication > language indicates the requirement maps to the language element, that is a child of the communication element, in the Patient FHIR resource.</p> <p>Where a requirement is addressed by multiple elements, the elements are presented in order of appearance in the profiled FHIR resource.</p>	<p>Either the path to the lowest level CDA schema element in a template that addresses the requirement or n/a where the requirement has been deemed not applicable to a CDA template.</p> <p>The syntax for this uses an XPath like notation and starts as the root element ClinicalDocument e.g.</p> <p>ClinicalDocument/recordTarget/patientRole/patient/name</p> <p>Where an element is addressed by multiple CDA schema element paths, each path is presented.</p>	<p>Additional notes are provided where a gap between a requirement, or parts of a requirement, and the templates is identified.</p> <p>Where a requirement is fully addressed by the mapped elements then no entry in this column is expected.</p>

C.1 Mapping from ACD CR information requirements

The table below provides mapping from the requirements in *Advance Care Directive Record Information Requirements [NEHT2011by]* to the corresponding supported element in the Composition (Advance Care Directive Custodian Record) model and their corresponding CDA schema element(s) in the *Composition (Advance Care Directive Custodian Record)* template from the root *ClinicalDocument*.

See [C.1 Legend for mapping from requirements](#) for an explanation of requirements mapping table presentation.

Requirement section	Data item	Logical element	CDA schema element	Additional notes
Individual	Component	Composition > subject	/ClinicalDocument/recordTarget/	
		Composition > author (Patient)	/ClinicalDocument/author/assignedAuthor/	
	Person Name	Patient > name	/ClinicalDocument/recordTarget/patientRole/patient/name /ClinicalDocument/author/assignedAuthor/assignedPerson/name	
	Person Identifier	Patient > identifier	/ClinicalDocument/recordTarget/patientRole/patient/ext:asEntityIdentifier /ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	
	Date of Birth	Patient > birthDate	/ClinicalDocument/recordTarget/patientRole/patient/birthTime	
	Sex	Patient > gender	/ClinicalDocument/recordTarget/patientRole/patient/administrativeGenderCode	
	Address	Patient > address	/ClinicalDocument/recordTarget/patientRole/addr /ClinicalDocument/author/assignedAuthor/addr	
	Communication Details	Patient > telecom	/ClinicalDocument/recordTarget/patientRole/telecom /ClinicalDocument/author/assignedAuthor/telecom	
	Indigenous Status	Patient > indigenous-status	/ClinicalDocument/recordTarget/patientRole/patient/ext:asEntityIdentifier /ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	

Requirement section	Data item	Logical element	CDA schema element	Additional notes
ACD Custodian Record Author	Component	Composition > author (Patient)	/ClinicalDocument/author/assignedAuthor/assignedPerson	
		Composition > author (RelatedPerson)		
		Composition > author (Practitioner)		
	Person Name	Patient > name	/ClinicalDocument/author/assignedAuthor/assignedPerson/name	
		RelatedPerson > name		
		Practitioner > name		
	Person Identifier	Patient > identifier	/ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	
		RelatedPerson > identifier		
		Practitioner > identifier		
ACD Custodian Record Author	Address	Patient > address	/ClinicalDocument/author/assignedAuthor/addr	
		RelatedPerson > address		
		Practitioner > address		
	Communication Details	Patient > telecom	/ClinicalDocument/author/assignedAuthor/assignedPerson/telecom	
		RelatedPerson > telecom		
		Practitioner > telecom		
	Authorised Representative	Not directly supported	/ClinicalDocument/effectiveTime/high/@value where /ClinicalDocument/author	
	Expiry Date	Not directly supported	/ClinicalDocument/effectiveTime/high/@value	

Requirement section	Data item	Logical element	CDA schema element	Additional notes
ACD Custodian	Component	Composition > section (Advance Care Directive Custodians) > entry (Practitioner)	/ClinicalDocument/component/structuredBody/component[acd]/section/entry[acdcr]/act/participant	
		Composition > section (Advance Care Directive Custodians) > entry (Patient)		
		Composition > section (Advance Care Directive Custodians) > entry (Related Person)		
		Composition > section (Advance Care Directive Custodians) > entry (Organization)		
	Person or Organisation Name	Practitioner > name	/ClinicalDocument/component/structuredBody/component[acd]/section/entry[acdcr]/act/participant/participantRole/playingEntity/name	
		Patient > name		
		RelatedPerson > name		
		Organisation > name		
	Custodian Relationship	Not directly supported	/ClinicalDocument/component/structuredBody/component[acd]/section/entry[acdcr]/act/participant/participantRole/code	
Document Control	Address	Practitioner > address	/ClinicalDocument/component/structuredBody/component[acd]/section/entry[acdcr]/act/participant/participantRole/addr	
		Patient > address		
		RelatedPerson > address		
		Organisation > address		
	Communication Details	Practitioner > telecom	/ClinicalDocument/component/structuredBody/component[acd]/section/entry[acdcr]/act/participant/participantRole/telecom	
		Patient > telecom		
		RelatedPerson > telecom		
		Organisation > telecom		
Document Control	Component	n/a	n/a	
	DateTime Attested	Composition > date	/ClinicalDocument/author/time	

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