

Document filename: DDM-G-044 PopulatingHSCICDocumentParticipantTemplates.docx			
Directorate / Programme	Architecture, Standards and Innovation	Project	Interoperability Specifications
Document Reference			DDM-G-044
Department Head	Richard Kavanagh	Status	Draft
Owner	Kevin Sprague	Version	0.5
Authors	Kevin Sprague HSCIC Healthy London Partnership Interoperability Programme	Version issue date	20-Nov-2015
		Review Date	20-Nov-2016

Populating HSCIC CDA Document Participant Templates.

Document Management

Revision History

Version	Date	Summary of Changes
0.1	30 th June 2015	First draft for comment
0.2	11 th July 2015	Second version following internal review
0.3	20 th August 2015	Third version following consultation with Healthy London Partnership Interoperability Programme
0.4	9 th September 2015	Updated with new requirements and comments
0.5	20 th November 2015	Added guidance on use of nHSuse attribute

Glossary of Terms

Term / Abbreviation	What it stands for
CDA	HL7 Clinical Document Architecture, Release 2.0
DMS	Domain Message Specification
x_domain	A HL7 term for a subset of a HL7 vocabulary code list
HSCIC Templated domain	A HSCIC MIM domain which has HL7 RMIMs which utilise the HSCIC HL7 templates
HSCIC localisation	Attributes added to a HL7 class or data type with are only used for HSCIC implementations and can be safely ignored by non HSCIC systems.
SNOMED	(Systematized Nomenclature of Medicine) , is a systematically organised computer processable collection of medical terminology
Template	A template is a RMIM that is used to constraint another model.
RMIM	(Refined message information model), is an HL7 model derived from the HL7 RIM
RIM	(Reference information model)
mif	A HL7 model in an XML format
Participation	The involvement of a role in an act
actRelationship	A relationship between two acts
Class clone	A class that is a clone of another class, derived from another class

Act	Something happened or may happen
Entity	A person, animal, organisation or thing
Role	A responsibility or part played by an entity
HL7	Health Level Seven
PSIS	Personal Spine Information Service
OID	Object identifier, The HSCIC OID catalogue contained in the Interoperability Specifications Reference Pack downloadable from TRUD should be consulted for the list of utilised OIDs.
UUID	Universally Unique Identifier
URL	Uniform Resource Locator
XML	Extensible Mark-up Language
TRUD	Terminology Reference Data Update Distribution Service
HSCIC	Health and Social Care Information Centre
ITK	Interoperability Toolkit
PSIS	Personal Spine Information Service
FunctionCode	An attribute used to carry a code that describes the function of the participation.
CDAPersonRelationType	A HSCIC vocabulary that contains codes which describe the relationship between one person and another.
SDS	Spine Directory Service - The main information source about NHS registered users and accredited systems and services. It ensures that transactions/messages are only processed from authorised users and systems. The Spine Directory Service also stores a record of each NHS organisation. It is a key component of the Spine.
ODS	Organisation Data Service - This is responsible for the publication of organisation and practitioner codes, and for the national policy and standards with regard to the majority of organisation codes. These code standards form part of the NHS data standards. This was previously known as National Administrative Codes Service (NACS).

Document Control:

The controlled copy of this document is maintained in the HSCIC corporate network. Any copies of this document held outside of that area, in whatever format (e.g. paper, email attachment), are considered to have passed out of control and should be checked for currency and validity.

Contents

1	Introduction	6
1.1	Background	6
1.2	Purpose of Document	6
2	HL7 V3 Classes and Attributes	8
2.1	Participant Class (Typical)	8
2.2	Participant Class Attributes Overview	9
2.3	Definition for typeCode for Participation	10
2.4	Template Model Diagrams	17
2.5	DocumentParticipantUniversal Model Attributes Overview	19
2.6	RelatedEntity Model Attributes Overview	21
3	Representing Emergency Contacts	22
3.1	Attribute Population of RelatedEntity Template for Emergency Contact	23
3.2	XML Example of the RelatedEntity Template for Emergency Contact	25
3.3	Attribute Population of Document Participant Template for Emergency Contact	25
3.4	XML Example of the Document Participant Template for Emergency Contact	29
4	Representing the Patient's GP	29
4.1	Attribute Population for Patient's GP	30
4.2	XML Example of Patient's GP	33
5	Representing Other Care Providers	35
5.1	Attribute Population for Other Care Providers	35
6	Representing Patient's Informal Carer	38
6.1	Attribute Population for Patient's Informal Carer	38
6.2	XML Example of Patient's Informal Carer	40
7	Representing Power of Attorney	41
7.1	Attribute Population of Documentation Participant Template for POA	41
7.2	XML Example of Documentation Participant Template for POA	44
7.3	Attribute Population of RelatedEntity Template for POA	45
7.4	XML Example of RelatedEntity Template for POA	47
8	Representing Next of Kin	48

8.1	Attribute Population of RelatedEntity Template for Next of Kin	48
8.2	XML Example of the RelatedEntity Template for Next of Kin	50
9	Representing a Referrer (Referred By)	51
9.1	Attribute Population of Document Participant Template for Referrer	51
9.2	XML Example of the Document Participant Template for Referrer	54
9.3	Attribute Population of RelatedEntity Template for Self-referrals	55
9.4	XML Example of the RelatedEntity Template for Self-referrals	57
10	Representing a Referred To	58
10.1	Attribute Population of Document Participant Template for ReferredTo	58
10.2	XML Example of the Document Participant Template for ReferredTo	61
11	Extension of Telecom “use”	62

1 Introduction

1.1 Background

The HL7 V3 CDA R2 specification contains a HL7 V3 RMIM, which has most classes and attributes defined as optional. In addition, most of the information that may be carried in a CDA document is represented in an abstract way.

For example, the author of the document has an assigned role, a scoping organisation and a choice of a playing person or device. How each of these classes and its attributes are populated for a particular type of author person is not specified within the CDA specification. The HSCIC approach to CDA uses an author template to define how to constrain the CDA standard for particular types of author.

The same principle is applied across all the CDA classes and attributes.

The CDA RMIM has a generic participant class that has many potential uses, none of which are specified in sufficient detail within the CDA standard to allow easy and consistent population by sending systems. This document has been written to give guidance to assist implementers of HSCIC CDA based domain message specifications.

1.2 Purpose of Document

The two role based templates called DocumentParticipantUniversal template and RelatedEntity template are used with the generic CDA participation class to represent people and organisations, which are involved in the CDA document in some way other than supported by the participations explicitly modelled in the CDA RMIM. Specifically, this guidance enables the participants to be constructed and populated in a systematic way in which:

- the Participant class is used to represent the use case specific involvement of a participant in the document Act - this can be further detailed using the CDA participant attribute functionCode if required (e.g. urgent notification contacts participating specifically as a next of kin, a caregiver, a Power of Attorney, usual GP, etc.);
- the RelatedEntity template is used to represent personal relationship roles between the patient and an individual (e.g. a wife, husband, friend, neighbour, etc.);
- the DocumentParticipantUniversal template is used to represent roles between the patient and an individual associated in some professional or occupational capacity with the patient's care (e.g. GP, District Nurse, Care Assistant, Solicitor, etc.).

Significantly, the Role template instances draw from reasonably well defined sets of personal relationship or occupational codes so that they are independent of, but can be re-used within, the context of different use case specific participations.

The use of the Role templates and Participations are, therefore distinguished in that the former are used to represent well-defined and (typically) passive categories of personal or occupational relationship, which are independent of the context in which they appear. For example, a patient's mother is still the patient's mother regardless of whether she is recognised as the main carer of the child or whether she designates herself the child's next of kin in some consent document. The GP who saw the patient may have been the patient's usual GP or he may have been a locum. Nonetheless, this does not alter the fact that the participating individual is a General Practitioner. The Participation thus describes the context

in which personal or occupational relationships may appear. The precise nature of the participant's (typically) active involvement – e.g. carer, next of kin, usual GP, etc. – is use case specific. Representing this information is therefore likely to require a diverse and extensible set of codes.

This document contains recommendations for implementing the templates based on a number of scenarios (for example representing the patient's power of attorney). These recommendations are supported by the existing template structures, however, they do imply greater use of the Participation functionCode attribute to further describe the participation where needed.

In the future, consideration may be given to changing the description and possibly the name of the DocumentParticipantUniversal template to better reflect its recommended use. Relationships such as "Carer" and "Next of kin" which are better viewed as describing Participations should also not be represented using values contained in CDAPersonRelationshipType vocabulary used by the RelatedEntity template and these values may be deprecated in the future. Currently, because a number of message specifications are in the process of, or due to be implemented no changes are anticipated in the short term. Any future changes should be backward compatible and not affect historic implementations.

Points to note about this document.

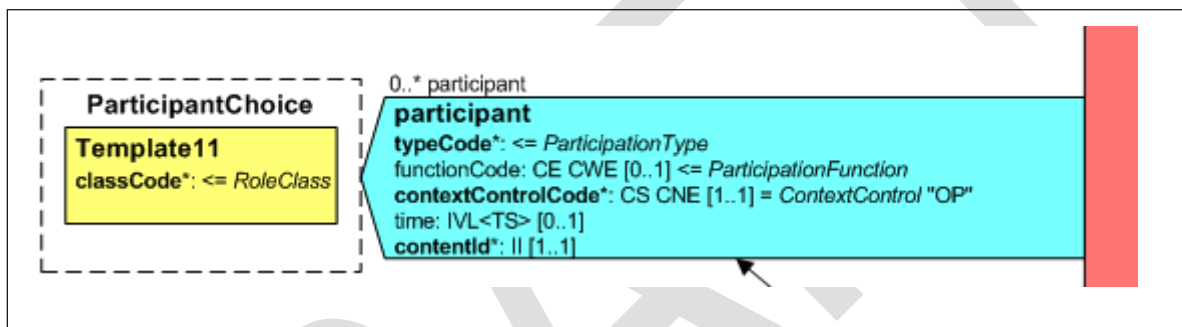
- This document requires an understanding of HL7 V3 and CDA.
- The HL7 structural codes, code descriptions and HL7 defined vocabularies are taken from the 2005 HL7 Normative Standard, which should be consulted for further information.
- The recommendations contained in this document use SNOMED CT as the primary coding for the participant class functionCode attribute (defined as CWE) and further concepts may need to be requested to support future use cases. The use of other appropriate coding systems although not part of this guidance is not prohibited, where there is a definite local use case.
- All XML examples are in the "on the wire" format.
- It is recommended that this document be read in conjunction with the "Technical Guidance for Implementation of Templated CDA Domains" which is contained within the HSCIC Domain Message Specifications under the Associated Specifications tab.

2 HL7 V3 Classes and Attributes

There are twenty-six attributes used in the classes but only fifteen are documented within the specific use cases in section three. The remaining ten attributes indicated by a * either are a fixed value or in the case of “contentId” a fixed value from a defined set of values. These are “greyed out” in the tables below.

2.1 Participant Class (Typical)

Below is a typical model of the generic participant that is common across all later domain message specifications. Some early message specifications may not follow this pattern or may not use this generic participation at all. These early specifications may not be able to follow all the recommendations contained in this document.



2.2 Participant Class Attributes Overview

CDA Participation Class					
Class Name	No.	Attribute Name	Conformance	CNE / CWE/ Fixed	Comments
Participant	1	typeCode	Mandatory	CNE <ParticipantType	This uses a code from the HL7 V3 vocabulary ParticipationType to describe the type participant. This code set is mandated and cannot be extended.
	2	functionCode	Optional	CWE <ParticipationFunction	A code from the HL7 V3 ParticipationFunction vocabulary or a suitable alternative vocabulary, which describes the function of the participant.
	*	contextControlCode	Mandatory	CNE Fixed = "OP"	This is a fixed value
	16	time	Optional		The time of the participation, this will normally have a start and end. However all flavours of the IVL<TS> data type are allowed
	*	contentId	Mandatory		This is an identifier from the allowed list of templates and is dependent on the CDA profile used.

2.3 Definition for typeCode for Participation

The HL7 V3 vocabulary ParticipationType is a mandated vocabulary and values from this must be used. The table below shows the values supported by this guidance for use with the generic CDA participant class.

Included – guidance for this code is included.					
Hierarchy	Code	Name	Usage	Rational for Usage	Definition
	IND	indirect target	Included	This is the generic type code for this class it may be used, but should be constrained to a more useful value wherever possible.	An indirect target is a type of participation that is relevant to documentation or communication about the act but need not be present or otherwise involved when the act is carried out. Note that the same roles may participate both as indirect and direct targets in the same act.
ParticipationInformationRecipient	NOT	urgent notification contact	Included	Use instead of “ECON” role code.	An urgent notification contact is a type of information recipient that represents a party to be notified about urgent matters related to the act.
ParticipationInformationRecipient	REFB	Referred By	Included	Used instead of REF (referrer) for consistency	A Referred By is a type of information recipient that represents the party that referred the subject of the

					act (e.g. patient). Typically, a referred by participant will have provided information (e.g. a referral) and expects to subsequently receive a report of the requested service.
ParticipationInformationRecipient	REFT	Referred to	Included	Used with REFB for consistency	A Referred to is a type of information recipient that receives the referral about a patient.
None – this code is not prohibited but there is no guidance on the use of this code.					
Hierarchy	Code	Name	Usage	Rational for Usage	Definition
ParticipationAncillary	ADM	admitter	None	This participation would normally be on the encompassing encounter	An admitter is a type of ancillary participation that represents the practitioner responsible for admitting a patient to a hospital stay. The person (people) responsible for admission can be captured as performers of an admission event or encounter.
ParticipationAncillary	CON	consultant	None	This participation would normally be on the encompassing encounter	A consultant is a type of ancillary participation that represents an advisor

					participating by performing evaluations and making recommendations.
ParticipationAncillary	DIS	discharger	None	This participation would normally be on the encompassing encounter	<p>A discharger is a type of ancillary participation that represents the practitioner responsible for the discharge of a patient from a hospital stay.</p> <p>Design Note: The person (people) responsible for actually discharging a patient can be represented as performers of a discharge event or encounter.</p>
	DIR	direct target	None		<p>A direct target is a type of participation that represents substantially present in the act and is directly affected or directly involved in an entity that is delivery of the act (includes products, consumables material, devices, etc.).</p>
Prohibited – This guidance does not support the use of this code with the CDA generic participation.					
Hierarchy	Code	Name	Usage	Rational for Usage	Definition

ParticipationAncillary	ATND	attender	Prohibited	Should be modelled elsewhere in a CDA profile	
ParticipationAncillary	ESC	escort	Prohibited	Should be modelled elsewhere in a CDA profile	
ParticipationAncillary	REF	referrer	Prohibited	Use REFB instead	
IND	BEN	beneficiary	Prohibited	No current use case	
IND	COV	coverage target	Prohibited	No current use case	
IND	HLD	holder	Prohibited	No current use case	
IND	RCT	record target	Prohibited	Specifically modelled as a participation	
IND	RCV	receiver	Prohibited	No current use case	
ParticipationInformationGenerator	AUT	author	Prohibited	Specifically modelled as a participation	
ParticipationInformationGenerator	ENT	data entry person	Prohibited	Specifically modelled as a participation	
ParticipationInformationGenerator	INF	informant	Prohibited	Specifically modelled as a participation	
ParticipationInformationGenerator	WIT	witness	Prohibited	No current use case	
ParticipationInformationRecipient	PRCP	primary information recipient	Prohibited	Specifically modelled as a participation	
ParticipationInformationRecipient	TRC	tracker	Prohibited	Specifically modelled as a	

				participation	
	PRF	performer	Prohibited	Not suitable for use at the CDA document level	
PRF	PPRF	primary performer	Prohibited	Not suitable for use at the CDA document level	
PRF	SPRF	secondary performer	Prohibited	Not suitable for use at the CDA document level	
DIR	CSM	consumable	Prohibited	Not suitable for use at the CDA document level	
DIR->CSM	TPA	therapeutic agent	Prohibited	Not suitable for use at the CDA document level	
DIR	DEV	device	Prohibited	Not suitable for use at the CDA document level	
DIR->DEV	NRD	non-reuseable device	Prohibited	Not suitable for use at the CDA document level	
DIR->DEV	RDV	reusable device	Prohibited	Not suitable for use at the CDA document level	
DIR	SBJ	subject	Prohibited	No current use case for a subject of a document who is not the patient	
DIR->SBJ	SPC	specimen	Prohibited	No current use case for a subject of a document who is not the patient	

DIR	BBY	baby	Prohibited	Not suitable for use at the CDA document level	
DIR	DON	donor	Prohibited	Not suitable for use at the CDA document level	
DIR	PRD	product	Prohibited	Not suitable for use at the CDA document level	
	LOC	location	Prohibited	Not suitable for use at the CDA document level	
LOC->DST	DST	destination	Prohibited	Not suitable for use at the CDA document level	
LOC->ELOC	ELOC	entry location	Prohibited	Not suitable for use at the CDA document level	
LOC	ORG	origin	Prohibited	Not suitable for use at the CDA document level	
LOC	RML	remote	Prohibited	Not suitable for use at the CDA document level	
LOC	VIA	via	Prohibited	Not suitable for use at the CDA document level	
	VRF	verifier	Prohibited	See subtypes below	
VRF	AUTHEN	authenticator	Prohibited	Specifically modelled as a participation	
VRF	LA	legal authenticator	Prohibited	Specifically modelled as a participation	
	CST	custodian	Prohibited	Specifically modelled as a	

				participation	
	RESP	responsible party	Prohibited	Use Custodian	
PRF	DIST	distributor	Prohibited	Not suitable for use at the CDA document level	

DRAFT

2.4 Template Model Diagrams

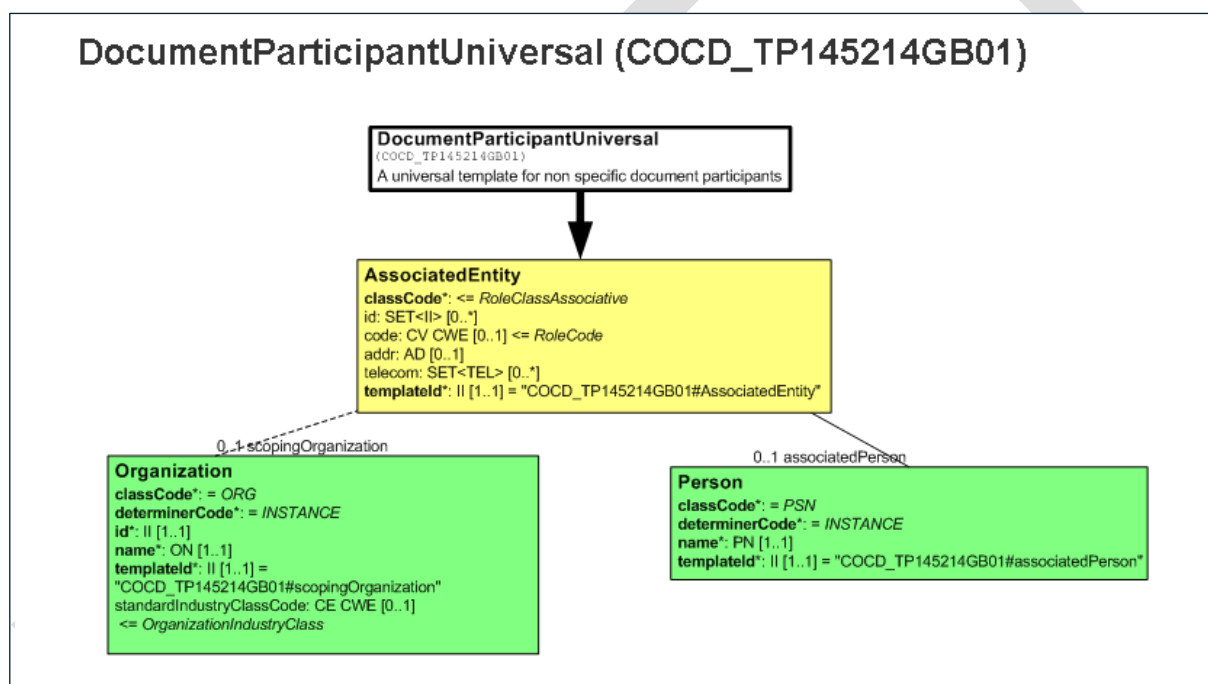
There are currently two templates used with the generic participation class.

- DocumentParticipantUniversal COCD_TP145214GB01
- RelatedEntity COCD_TP145007UK03

Both these two templates may be used to constrain the CDA RMIM AssociatedEntity, Organization and Person classes. Note: the RelatedEntity template constrains the organization class out completely. This section gives an overview of the two templates. If further detail is required then implementers should consult the tabular views for these templates contained within the DMS being implemented.

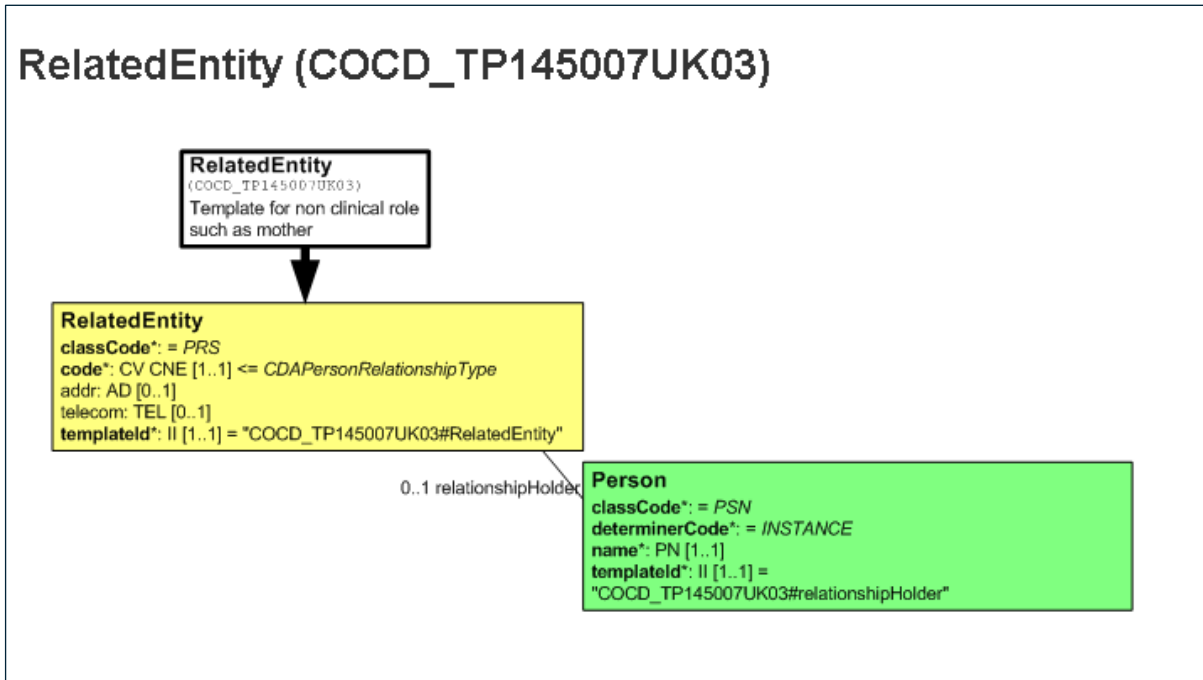
2.4.1 DocumentParticipantUniversal

This template is used typically for participations that represent professional people and their organisations (hospitals, primary care, local authorities etc.).



2.4.2 RelatedEntity

This template is used typically for participations that represent relationships, which are not professional for example, wife, informal carer etc.



2.5 DocumentParticipantUniversal Model Attributes Overview

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No	Attribute Name	Conformance	CNE / CWE / Fixed	Comments
AssociatedEntity (mandatory)	3	classCode	Mandatory	CNE <= RoleClassAssociative	A code from the HL7 V3 code list RoleClassAssociative, which is a subset of the HL7 V3 RoleClass Vocabulary. This code set is mandated and cannot be extended.
	4	id	optional		This uses an SDS identifier and/or a local identifier to identifier the role of the person.
	5	code	optional	CWE <= RoleCode	A code from the HL7 V3 RoleCode vocabulary or a suitable alternative vocabulary that further describes the role.
	6	addr	optional		An address for the role.
	7	telecom	optional		One or more telecoms for the role.
	*	templateId	Mandatory	Fixed="COCD_TP145214GB01#AsociatedEntity".	
Class Name		Attribute Name	Conformance	CNE / CWE / Fixed	Comments
Organization	*	classCode	Mandatory	Fixed = "ORG"	

(Optional)	*	determinerCode	Mandatory	Fixed = "INSTANCE"	
	8	id	Mandatory		An ODS site or organisation identifier.
	9	name	Mandatory		The name associated with the organisation identifier.
	*	templateId	Mandatory	Fixed	This is a fixed value of COCD_TP145214GB01#scopingOrganization.
	10	standardIndustryClassCode	Optional	CWE <=OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.
Class Name		Attribute Name	Conformance	CNE / CWE / Fixed	Comments
Person (Optional)	*	classCode	Mandatory	Fixed = "PSN"	
	*	determinerCode	Mandatory	Fixed = "INSTANCE"	
	11	name	Mandatory		The person's name.
	*	templateId	Mandatory	Fixed= "COCD_TP145214GB01#associated Person"	

2.6 RelatedEntity Model Attributes Overview

Template - RelatedEntity (COCD_TP145007UK03)					
Class Name	No	Attribute Name	Conformance	CNE / CWE / Fixed	Comments
RelatedEntity (mandatory)	*	classCode	Mandatory	Fixed = "PRS"	This is a fixed value used to describe this as a personal relationship.
	12	code	Mandatory	CNE	A code from the CDAPersonRelationshipType vocabulary, which describes the type of personal relationship.
	13	addr	optional		An address for the role.
	14	telecom	optional		One or more telecoms for the role.
	*	templated	Mandatory	Fixed="COCD_TP145007UK03 #RelatedEntity".	
Class Name		Attribute Name	Conformance	CNE / CWE / Fixed	Comments
Person (Optional)	*	classCode	Mandatory	Fixed = "PSN"	
	*	determinerCode	Mandatory	Fixed = "INSTANCE"	
	15	name	Mandatory		The person's name.
	*	templated	Mandatory	Fixed="COCD_TP145007UK03 #relationshipHolder"	

3 Representing Emergency Contacts

An example of an emergency contact could be:

- A relative to inform when a patient becomes critically ill.
- A clinician to inform about urgent test results.

Note: some emergency contacts may have specific roles for example next of kin, patient's GP, Patient power of attorney etc. these are detailed in the later sections.

DRAFT

3.1 Attribute Population of RelatedEntity Template for Emergency Contact

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	= "NOT"	An urgent notification contact is a type of information recipient that represents a party to be notified about urgent matters related to the act. For example: <ul style="list-style-type: none"> A relative to notify during an inpatient stay encounter if the patient becomes critically ill.
	2	functionCode	CWE		This would not normally be populated.
	*	contextControlCode	CNE	= "OP"	
	*	contentId	Fixed	COCD_TP145007UK03#RelatedEntity	
Template - RelatedEntity (COCD_TP145007UK03)					
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments

RelatedEntity	*	classCode	FIXED	=“PRS”	
	5	code	CNE	<CDAPersonRelationshipType	The type of personal relationship between the two individuals, e.g. wife or sister or son, etc. This should not be populated by code 04 Next of kin.
	6	addr			The address of the contact.
	7	telecom			The telecoms for the contact.
	*	templated	Fixed	=“COCD_TP145007UK03#RelatedEntity”	
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= “PSN”	
	*	determinerCode	Fixed	= “INSTANCE”	
	11	name			The name of the contact.
	*	templated	Fixed	=“COCD_TP145214GB01#associatedPerson”	

3.2 XML Example of the RelatedEntity Template for Emergency Contact

```
<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145007UK03#RelatedEntity"/>
  <associatedEntity classCode="PRS">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#RelatedEntity"/>
    <code code="13" codeSystem="2.16.840.1.113883.2.1.3.2.4.16.45" displayName="Father"/>
    <addr use="WP">
      <streetAddressLine>1 MGP House</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Leeds</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS21 7PA</postalCode>
    </addr>
    <telecom value="tel:01634111222" use="WP"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#associatedPerson"/>
      <name use="PREFERRED">
        <prefix>Mr</prefix>
        <given>Gerard</given>
        <family>Lore</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>
```

3.3 Attribute Population of Document Participant Template for Emergency Contact

CDA Participation Class

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	= "NOT"	An urgent notification contact is a type of information recipient that represents a party to be notified about urgent matters related to the act. For example: <ul style="list-style-type: none"> a clinician to be informed about urgent test results.
	2	functionCode	CWE		This attribute would not normally be populated.
	*	contextControlCode	Fixed	= "OP"	
	*	contentId		= "COCD_TP145214GB01# AssociatedEntity"	

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
AssociatedEntity	3	classCode	CNE	<= RoleClassAssociative for example "ASSIGNED"	An assigned entity is a type of agent in which, the player is a person acting in the employ of a scoping organisation.

	4	id			This identifier should be the clinician's SDS user ID and SDS role profile ID. Local identifiers are allowable should SDS not be available.
	5	code	CWE	<= RoleCode	This code may be populated using any suitable vocabulary to give further information of the role of the emergency contact. The RoleCode vocabulary has very few usable codes and it not recommended for use with emergency contact.
	6	addr			Address of the emergency contact.
	7	telecom			Contact telecom(s) of the emergency contact.
	*	templated	Fixed	= "COCD_TP145214GB01 #AssociatedEntity"	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the emergency contact.
	*	templated	Fixed	= "COCD_TP145214GB01 #associatedPerson"	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments

Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			An ODS site or organisation identifier associated with the emergency contact.
	9	name			The name associated with the organisation identifier associated with the emergency contact.
	*	templateId	Fixed	= "COCD_TP145214GB01 #scopingOrganization"	
	10	standardIndustryClass Code	Optional	CWE <= OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.

3.4 XML Example of the Document Participant Template for Emergency Contact

```
<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145214GB01#AssociatedEntity"/>
  <associatedEntity classCode="ASSIGNED">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#AssociatedEntity"/>
    <id root="1.2.826.0.1285.0.2.0.65" extension="GP123456"/>
    <code code="62247001" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="GP - General practitioner"/>
    <addr use="WP">
      <streetAddressLine>1 MGP House</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Leeds</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS21 7PA</postalCode>
    </addr>
    <telecom value="tel:01634111222" use="WP"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#associatedPerson"/>
      <name use="PREFERRED">
        <prefix>Dr</prefix>
        <given>John</given>
        <family>Lorenzo</family>
      </name>
    </associatedPerson>
    <scopingOrganization>
      <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="B02517"/>
      <name>MGP Medical Centre</name>
      <standardIndustryClassCode code="001" displayName="GP Practice" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.289"/>
    </scopingOrganization>
  </associatedEntity>
</participant>
```

4 Representing the Patient's GP

The CDA RMIM from which all HSCIC CDA profiles are derived does not cover all uses case and therefore has certain limitations. One such limitation is that only the patient's GP practice can be carried in the record target provider organization structure. There is a

requirement in some CDA document flows to send the patient's GP name as well. When this is a requirement, the following section gives guidance on how to do this. Note: this work around does involve some duplication of data being sent but as there are data flows already using the patient structure for GP Practice it was felt that duplication was a better option than removing the GP practice from the record target structure.

4.1 Attribute Population for Patient's GP

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	"IND" or "NOT"	The generic code "IND" may be used when the GP is identified as just the patient's GP. However, when the GP is to be identified as someone to notify, as a matter of urgency then "NOT" code should be used.
	2	functionCode	CWE	SNOMED CT Concept = "24841000000106" Preferred term = "Usual general practitioner"	Some specifications use the HL7 code "PCP" instead of SNOMED CT. This code is for primary care physician, which is the healthcare provider that holds primary responsibility for the overall care of a patient. But it is recommended to no longer use this US centric code set but instead use SNOMED CT concepts For example where there is a need to indicate is the patient's "Usual general practitioner" using a SMOMED CT concept such as (as SCTID: 24841000000106). This concept is the only one currently available in SNOMED CT and further

					codes may need to be requested , see below: For the over-75's at least it may be required to support the patient's "named accountable GP" (see http://bma.org.uk/practical-support-at-work/gp-practices/named-accountable-gp-for-all-patients).
	*	contextControlCode	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the GP was or is the person to contact.
	*	contentId	Fixed	= "COCD_TP145214GB01# AssociatedEntity"	

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
AssociatedEntity	3	classCode	CNE	= "PROV"	Health Care Provider.
	4	id			The patient's GP Code.
	5	code	CWE	SNOMED CT Concept <= "62247001" Preferred term = family medicine specialist The Synonym below may be used for better rendering	The occupational role of the health care provider – in this case a GP. Note: Subtype of 62247001 may also be used for example: <ul style="list-style-type: none"> 309326008 deputising general practitioner.

				/ human understanding Synonym term = "GP - General practitioner"	<ul style="list-style-type: none"> 224936003 general practitioner locum.
	6	addr			The GP surgery address.
	7	telecom			The GP surgery telecoms.
	*	templateId	Fixed	= "COCD_TP145214GB01# AssociatedEntity"	
Class Name	No	Attribute Name		Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The patient's GP name.
	*	templateId	Fixed	= "COCD_TP145214GB01# associatedPerson"	
Class Name	No	Attribute Name		Value	Comments
Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			The patient's GP Practice identifier from SDS. Note: this information is also carried in the patient templates.
	9	name			The patient's GP Practice name from SDS. Note: this information is also carried in the

					patient templates.
	*	templated	Fixed	= "COCD_TP145214GB01#scopingOrganization"	
	10	standardIndustryClass Code		CWE <= OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.

4.2 XML Example of Patient's GP

This is the provider organization structure from the record target.

```
<providerOrganization classCode="ORG" determinerCode="INSTANCE">
  <templated root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145201GB02#providerOrganization"/>
  <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="GP123456"/>
  <name>MGP Medical Centre</name>
  <telecom value="tel:01634111222" use="WP"/>
</providerOrganization>
```

```

<telecom value="mailto:jlorenzo@MMC.co.uk"/>
<addr use="WP">
  <streetAddressLine>1 MGP House</streetAddressLine>
  <streetAddressLine>Overtown</streetAddressLine>
  <streetAddressLine>Leeds</streetAddressLine>
  <streetAddressLine>West Yorkshire</streetAddressLine>
  <postalCode>LS21 7PA</postalCode>
</addr>
<standardIndustryClassCode code="001" displayName="GP Practice" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.289"/>
</providerOrganization>

```

This is the GP Practice details and GP Name from the document participant “on the wire” format. Note: duplicate data is highlighted in yellow.

```

<participant typeCode="IND" contextControlCode="OP">
  <npfItlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145214GB01#AssociatedEntity"/>
  <functionCode code="2484100000106" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName=" Usual general practitioner"/>
  <associatedEntity classCode="PROV">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#AssociatedEntity"/>
    <id root="1.2.826.0.1285.0.2.0.65" extension="GP123456"/>
    <code code="62247001" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="GP - General practitioner"/>
    <addr use="WP">
      <streetAddressLine>1 MGP House</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Leeds</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS21 7PA</postalCode>
    </addr>
    <telecom value="tel:01634111222" use="WP"/>
    <telecom value="mailto:jlorenzo@MMC.co.uk"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#associatedPerson"/>
      <name use="PREFERRED">
        <prefix>Dr</prefix>
        <given>John</given>
        <family>Lorenzo</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>

```

```
</associatedPerson>
<scopingOrganization>
  <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="B02517"/>
  <name>MGP Medical Centre</name>
  <standardIndustryClassCode code="001" displayName="GP Practice" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.289"/>
</scopingOrganization>
</associatedEntity>
</participant>
```

5 Representing Other Care Providers

Other care providers not directly involved in the episode of care may be carried in a similar fashion as the GP, see below:

5.1 Attribute Population for Other Care Providers

CDA Participation Class

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	"IND" or "NOT"	The generic code "IND" may be used when the care provider is identified as just associated with the patient. However when the care provider is to be identified as someone to notify as a matter of urgency then "NOT" code should be used.
	2	functionCode	CWE		Use this only if there is additional information to provide about the exact function of the participating individual. For example: SNOMED CT Concept = "309337009" Preferred term ="Pain management specialist" Note: there may be overlap with the code attribute.
	*	contextControlCode	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the other carer was or is the person to contact.
	*	contentId	Fixed	="COCD_TP145214GB01# AssociatedEntity"	

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
------------	-----	----------------	-------------------------	-------	----------

AssociatedEntity	3	classCode	CNE	"PROV"	Health Care Provider.
	4	id			This uses an SDS identifier and/or a local identifier to identify the role of the person.
	5	code	CWE		The occupational role of the health care provider, e.g. <ul style="list-style-type: none"> • SNOMED CT Concept = "309390008" PreferredTerm =" Hospital consultant" • SNOMED CT Concept = "158997000" PreferredTerm ="District nurse" • SNOMED CT Concept = "184152007" PreferredTerm "Care assistant" Etc.
	6	addr			Address of the health care provider.
	7	telecom			Contact telecoms(s) of the health care provider.
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The care provider's name
	*	templated	Fixed	="COCD_TP145214GB01# associatedPerson"	

Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			The care provider's organisation ODS Code.
	9	name			The care provider's organisation ODS name.
	*	templateId	Fixed	= "COCD_TP145214GB01# scopingOrganization".	
	10	standardIndustry ClassCode		CWE ≤=OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.

6 Representing Patient's Informal Carer

The informal carer is represented as below. Note: other types of carer may be represented using the same structure with a different functionCode value. For example SNOMED CT concept="407543004 Preferred term ="primary carer"

6.1 Attribute Population for Patient's Informal Carer

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments

Participant	1	typeCode	CNE	"NOT"	"NOT" to indicate the carer is the person to contact in an emergency etc.
	2	functionCode	CWE	SNOMED CT concept = "407542009" PreferredTerm = "informal carer"	This code provides additional detail about the function that the Participation has in the Act. In this case the value of the code indicates that the function of the Participation with respect to the Act being documented is that of an informal carer, i.e. the person responsible for the care of the patient at home.
	*	contextControl Code	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the carer was or is the person to contact.
	*	contentId	Fixed	= "COCD_TP145007UK03# RelatedEntity"	

Template - RelatedEntity (COCD_TP145007UK03)

Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
RelatedEntity	*	classCode	Fixed	"PRS"	
	5	code	CNE	<=CDAPersonRelationship Type	The type of personal relationship between the two individuals, e.g. wife or husband or neighbour, etc.
	6	addr			The Carer's address.
	7	telecom			The Carer's telecoms.

Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
	*	templateId	Fixed	= "COCD_TP145007UK03# RelatedEntity".	
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The Carer's name.
	*	templateId	Fixed	= "COCD_TP145007UK03# relationshipHolder"	

6.2 XML Example of Patient's Informal Carer

```

<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145007UK03#RelatedEntity"/>
  <functionCode code="407542009" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="informal carer"/>
  <associatedEntity classCode="PRS">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#RelatedEntity"/>
    <code code="22" codeSystem="2.16.840.1.113883.2.1.3.2.4.16.45" displayName="Wife"/>
    <telecom value="tel:08776634111222" use="MC"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension=" COCD_TP145007UK03#relationshipHolder"/>
      <name use="PREFERRED">
        <prefix>Mrs</prefix>
        <given>Susan</given>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>

```



```
</participant>  
</associatedEntity>  
</associatedPerson>  
</name>  
<family>Miggins</family>
```

7 Representing Power of Attorney

An attorney can be anyone 18 or over, such as a relative, a friend, a professional, (e.g. a solicitor) or a husband, wife or partner, etc. When the “Power of Attorney” is a person in their official capacity then the Document Participant template should be used. When the “Power of Attorney” is someone such as a relative or friend then the RelatedEntity template should be used.

7.1 Attribute Population of Documentation Participant Template for POA

CDA Participation Class

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	"NOT"	"NOT" to indicate the power of attorney is the person to contact in an emergency etc.
	2	functionCode	CWE	= a SNOMED CT concept	<ul style="list-style-type: none"> 341041000000103 Lasting power of attorney property and affairs 341051000000100 Lasting power of attorney personal welfare <p>This requires requesting 2 x child codes for 341051000000100 to represent with / without "authority for life sustaining decisions". Currently under consultation with HSCIC Terminology Team regarding new concepts.</p>
	*	contextControlCode	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the POA was or is the person to contact.
	*	contentId	Fixed	= "COCD_TP145214GB01# AssociatedEntity"	
Template - DocumentParticipantUniversal (COCD_TP145214GB01)					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments

AssociatedEntity	3	classCode	CNE	=“LIC”	A licensed entity is a type of formal relationship in which the scoper certifies the player to perform certain activities that fall under the jurisdiction of the scoper. For example, The GMC licenses doctors to practice medicine in the UK.
	4	id			This identifier should only be populated when there is a requirement to do so.
	5	code	CWE		This code may be populated using any suitable vocabulary, for example to state that the power of attorney is a solicitor etc.
	6	addr			Address of the power of attorney.
	7	telecom			Contact telecom(s) of the power of attorney.
	*	templated	Fixed	=“COCD_TP145214GB01 #AssociatedEntity”	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= “PSN”	
	*	determinerCode	Fixed	= “INSTANCE”	
	11	name			The name of the power of attorney.
	*	templated	Fixed	=“COCD_TP145214GB01 #associatedPerson”	

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			The power of attorney's organisation ODS Code.(If applicable)
	9	name			The power of attorney's organisation ODS name.(If applicable)
	*	templateId	Fixed	= "COCD_TP145214GB01 #scopingOrganization"	
	10	standardIndustryClassCode	CWE	<= OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.

7.2 XML Example of Documentation Participant Template for POA

```

<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145214GB01#AssociatedEntity"/>
  <functionCode code="341051000000100" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="Lasting power of attorney personal welfare"/>
  <associatedEntity classCode="LIC">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#AssociatedEntity"/>
    <addr use="H">
      <streetAddressLine>1 Little Street</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Henley</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS22 8HH</postalCode>
    </addr>
  </associatedEntity>
</participant>

```

```

<telecom value="tel:01634111222" use="WP"/>
<associatedPerson classCode="PSN" determinerCode="INSTANCE">
  <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#associatedPerson"/>
  <name use="PREFERRED">
    <prefix>Mr</prefix>
    <given>John</given>
    <family>Smith</family>
  </name>
</associatedPerson>
</associatedEntity>
</participant>

```

7.3 Attribute Population of RelatedEntity Template for POA

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	="NOT"	"NOT" to indicate the power of attorney is the person to contact in an emergency etc.

	2	functionCode	CWE	= a SNOMED CT concept	<ul style="list-style-type: none"> 341041000000103 Lasting power of attorney property and affairs 341051000000100 Lasting power of attorney personal welfare <p>This requires requesting 2 x child codes for 341051000000100 to represent with / without “authority for life sustaining decisions”. Currently in consultation with HSCIC Terminology Team.</p>
	*	contextControlCode	Fixed	= “OP”	
	16	time			This may be populated as required using high and low to indicate for example, when the person was or is the person to contact.
	*	contentId	Fixed	=”COCD_TP145007UK03# RelatedEntity”	

Template - RelatedEntity (COCD_TP145007UK03)

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
RelatedEntity	3	classCode	Fixed	= “PRS”	
	5	code	CWE	<=CDAPersonRelationship Type	The type of personal relationship between the two individuals, e.g. wife or husband or neighbour, etc.
	6	addr			The address of the power of attorney.
	7	telecom			The telecoms of the power of attorney.

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
	*	templated	Fixed	= "COCD_TP145007UK03# RelatedEntity".	
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the power of attorney.
	*	templated	Fixed	= "COCD_TP145007UK03# relationshipHolder".	

7.4 XML Example of RelatedEntity Template for POA

```

<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145007UK03#RelatedEntity"/>
  <functionCode code="341051000000100" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="Lasting power of attorney personal welfare"/>
  <associatedEntity classCode="PRS">
    <templated root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#RelatedEntity"/>
    <code code="22" codeSystem="2.16.840.1.113883.2.1.3.2.4.16.45" displayName="Wife"/>
    <addr use="H">
      <streetAddressLine>1 Little Street</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Henley</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
    </addr>
  </associatedEntity>
</participant>

```

```

        <postalCode>LS22 8HH</postalCode>
    </addr>
    <telecom value="tel:01634111222" use="WP"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
        <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#associatedPerson"/>
        <name use="PREFERRED">
            <prefix>Mrs</prefix>
            <given>Susan</given>
            <family>Miggins</family>
        </name>
    </associatedPerson>
</associatedEntity>
</participant>

```

8 Representing Next of Kin

In terms of the law, next of kin in the United Kingdom has no legal meaning. There are several different definitions of next of kin. In most cases, it refers to somebody that you would want to contact in the case of an emergency. Therefore, a common answer to who your next of kin may be is your partner or your children or parents. Next of kin is defined in some cases, most notably the Mental Health Act.

8.1 Attribute Population of RelatedEntity Template for Next of Kin

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments

Participant	1	typeCode	CNE	=“NOT”	“NOT” to indicate the next of kin is the person to contact in an emergency etc.
		functionCode	CWE	SNOMED CT concept =“184142008” Preferred term=“patient's next of kin”	This code provides additional detail about the function that the Participation has in the Act. In this case the value of the code indicates that the function of the Participation with respect to the Act being documented is that of the patient’s next of kin.
	*	contextControlCode	Fixed	= “OP”	
	16	time			This may be populated as required using high and low to indicate for example, when the next of kin was or is the person to contact.
	*	contentId	Fixed	=“COCD_TP145007UK03# RelatedEntity”	

Template - RelatedEntity (COCD_TP145007UK03)

Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
RelatedEntity	3	classCode	Fixed	=“PRS”	
	5	code	CNE	<=CDAPersonRelationship Type	The type of personal relationship between the two individuals, e.g. wife or sister or son, etc. This should not be populated by code 04 Next of kin.
	6	addr			The address of the next of kin.

	7	telecom			The telecoms for the next of kin.
	*	templated	Fixed	= "COCD_TP145007UK03# RelatedEntity".	
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the next of kin.
	*	templated	Fixed	= "COCD_TP145007UK03# relationshipHolder".	

8.2 XML Example of the RelatedEntity Template for Next of Kin

```

<participant typeCode="NOT" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension=" COCD_TP145007UK03#RelatedEntity"/>
  <functionCode code="341051000000100" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="patient's next of kin"/>
  <associatedEntity classCode="PRS">
    <templated root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP14500703#RelatedEntity"/>
    <code code="15" codeSystem="2.16.840.1.113883.2.1.3.2.4.16.45" displayName="Brother"/>
    <addr use="WP">
      <streetAddressLine>1 Middle Street</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Leeds</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS25 8PA</postalCode>
    </addr>
    <telecom value="tel:0798633111222" use="MC"/>
  </associatedEntity>
</participant>

```

```

    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension=" COCD_TP14500703#relationshipHolder"/>
      <name use="PREFERRED">
        <prefix>Mr</prefix>
        <given>John</given>
        <family>Lore</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>

```

9 Representing a Referrer (Referred By)

Both the templates may be used for referrals. The document participant template is used for most clinical referrals.

Self-referrals

In the case of self-referrals the related entity template may be used. In some areas self-referral schemes exist which allow for example physiotherapy to be accessed directly.

9.1 Attribute Population of Document Participant Template for Referrer

CDA Participation Class					
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments

Participant	1	typeCode	CNE	= "REFB"	A Referred By is a type of information recipient that represents the party that referred the subject of the act (e.g. patient). Typically, a referred by participant will have provided information (e.g. a referral) and expects to subsequently receive a report of the requested service.
	2	functionCode	CWE		This would not normally be populated.
	*	contextControl Code	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the referral was made. In this case the high and low would normally be sent as a timestamp (TS).
	*	contentId	Fixed	= "COCD_TP145214GB01# AssociatedEntity"	

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
AssociatedEntity	3	classCode	CNE	<= RoleClassAssociative for example "ASSIGNED"	An assigned entity is a type of agent in which, the player is a person acting in the employ of a scoping organisation.
	4	id			This identifier should be the clinician's SDS user ID and SDS role profile ID. Local identifiers are allowable should SDS not be available.

	5	code	CWE	<= RoleCode	This code may be populated using any suitable vocabulary to give further information of the role of the Referrer. The RoleCode vocabulary has very few usable codes and it not recommended for use with Referrers.
	6	addr			Address of the Referrer.
	7	telecom			Contact telecom(s) of the Referrer.
	*	templated	Fixed	= "COCD_TP145214GB01# AssociatedEntity".	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the Referrer.
	*	templated	Fixed	= "COCD_TP145214GB01# associatedPerson".	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			An ODS site or organisation identifier of the referring organisation.

	9	name			The name associated with the referring organisation identifier.
	*	templateId	Fixed	= "COCD_TP145214GB01#scopingOrganization".	
	10	standardIndustryClassCode	CWE	<= OrganizationIndustryClass	A code to represent the type of organisation using a code from HL7 V3 OrganizationIndustryClass vocabulary or any suitable alternative vocabulary.

9.2 XML Example of the Document Participant Template for Referrer

```

<participant typeCode="REFB" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145214GB01#AssociatedEntity"/>
  <time value="201512290000"/>
  <associatedEntity classCode="ASSIGNED">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#AssociatedEntity"/>
    <id root="1.2.826.0.1285.0.2.0.65" extension="GP123456"/>
    <code code="62247001" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="GP - General practitioner"/>
    <addr use="WP">
      <streetAddressLine>1 MGP House</streetAddressLine>
      <streetAddressLine>Overtown</streetAddressLine>
      <streetAddressLine>Leeds</streetAddressLine>
      <streetAddressLine>West Yorkshire</streetAddressLine>
      <postalCode>LS21 7PA</postalCode>
    </addr>
    <telecom value="tel:01634111222" use="WP"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#associatedPerson"/>

```

```

    <name use="PREFERRED">
      <prefix>Dr</prefix>
      <given>John</given>
      <family>Lorenzo</family>
    </name>
  </associatedPerson>
  <scopingOrganization>
    <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="B02517"/>
    <name>MGP Medical Centre</name>
    <standardIndustryClassCode code="001" displayName="GP Practice" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.289"/>
  </scopingOrganization>
</associatedEntity>
</participant>

```

9.3 Attribute Population of RelatedEntity Template for Self-referrals

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	=“REFB”	<p>A Referred By is a type of information recipient that represents the party that referred the subject of the act (e.g. patient).</p> <ul style="list-style-type: none"> Typically, a referred by participant will have provided information (e.g. a referral) and expects to subsequently receive a report of the requested service.
	2	functionCode	CWE		This would not normally be populated.

	*	contextControlCode	CNE	= "OP"	This is a fixed value
	16	time			This may be populated as required using high and low to indicate for example, when the referral was made. In this case the high and low would normally be sent as a timestamp (TS).
	*	contentId	Fixed	= "COCD_TP145007UK03# RelatedEntity".	
Template - RelatedEntity (COCD_TP145007UK03)					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
RelatedEntity	3	classCode	Fixed	= "PRS"	
	5	code	CNE	code = "21" DisplayName = "Self"	The type of personal relationship between the two individuals, e.g. wife or sister or son, etc.
	6	addr			The address of the referrer.
	7	telecom			The telecoms for the referrer.
	*	templateId	Fixed	= "COCD_TP145007UK03# RelatedEntity".	
Class Name	No.	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	

	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the referrer.
	*	templateId	Fixed	= "COCD_TP145007UK03#relationshipHolder".	

9.4 XML Example of the RelatedEntity Template for Self-referrals

```

<participant typeCode="REFB" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145007UK03#RelatedEntity"/>
  <associatedEntity classCode="PRS">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#RelatedEntity"/>
    <code code="21" codeSystem="2.16.840.1.113883.2.1.3.2.4.16.45" displayName="Self"/>
    <telecom use="MC" value="tel:0712345678"/>
    <associatedPerson classCode="PSN" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145007UK03#relationshipHolder"/>
      <name use="PREFERRED">
        <prefix>Mr</prefix>
        <given>Richard</given>
        <family>Smith</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>

```

10 Representing a Referred To

10.1 Attribute Population of Document Participant Template for ReferredTo

CDA Participation Class					
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Participant	1	typeCode	CNE	= "REFT"	A ReferredTo is a type of information recipient that receives the referral about a patient.
	2	functionCode	CWE		This would not normally be populated.

	*	contextControlCode	Fixed	= "OP"	
	16	time			This may be populated as required using high and low to indicate for example, when the referral was made. In this case the high and low would normally be sent as a timestamp (TS).
	*	contentId	Fixed	= "COCD_TP145214GB01 #AssociatedEntity"	

Template - DocumentParticipantUniversal (COCD_TP145214GB01)

Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
AssociatedEntity	3	classCode	CNE	<= RoleClassAssociative for example "ASSIGNED"	An assigned entity is a type of agent in which the player is a person acting in the employ a scoping organisation.
	4	id			This identifier should be the clinician's SDS user ID and SDS role profile ID. Local identifiers are allowable would SDS is not available. In most cases, this will not be populated as referrals are normally made to a service not an individual.
	5	code	CWE	<= RoleCode for example SNOMED CT Concept = "185920002" Preferred term = "cardiovascular clinic"	This code may be populated using any suitable vocabulary to give further information of the type of service the patient is being referred to. The use of the default RoleCode vocabulary is not recommended.
	6	addr			Address of the Referred to service.

	7	telecom			Contact telecom(s) of the Referred to service.
	*	templated	Fixed	= "COCD_TP145214GB01 #AssociatedEntity"	
Class Name	No	Attribute Name	CNE / CWE / Fixed	Value	Comments
Person	*	classCode	Fixed	= "PSN"	
	*	determinerCode	Fixed	= "INSTANCE"	
	11	name			The name of the Referred to person. In most cases, this will not be populated as referrals are normally made to a service not an individual.
	*	templated	Fixed	= "COCD_TP145214GB01 #associatedPerson"	
Class Name		Attribute Name	CNE / CWE / Fixed	Value	Comments
Organization	*	classCode	Fixed	= "ORG"	
	*	determinerCode	Fixed	= "INSTANCE"	
	8	id			An ODS site or organisation identifier for the referred to organisation.
	9	name			The name associated with the organisation identifier.
	*	templated	Fixed	= "COCD_TP145214GB01 #scopingOrganization".	

10.2 XML Example of the Document Participant Template for ReferredTo

```
<participant typeCode="REF" contextControlCode="OP">
  <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD_TP145214GB01#AssociatedEntity"/>
  <associatedEntity classCode="ASSIGNED">
    <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#AssociatedEntity"/>
    <code code="185920002" codeSystem="2.16.840.1.113883.2.1.3.2.4.15" displayName="cardiovascular clinic"/>
    <scopingOrganization classCode="ORG" determinerCode="INSTANCE">
      <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145214GB01#scopingOrganization"/>
      <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="ABC"/>
      <name>ABC NHS TRUST</name>
    </scopingOrganization>
  </associatedEntity>
</participant>
```

11 Extension of Telecom “use”

The HL7 attribute Telecom is defined as a “TEL” data type. This data type has an attribute called “use” which is used to define the type of telecom, for example home, work etc. The list of allowable codes is defined by HL7 and cannot be changed or added to without breaking CDA conformance. There is however, a business need to send values that are not contained in the HL7 code list within some HSCIC message flows. Therefore, HSCIC has after consultation with several HL7 V3 experts developed a work around to solve the issue. The work around to allow these codes to be sent without affecting CDA conformance is to add a new localised attribute to the TEL data type. This local attribute is called “nHSuse” and is defined in the data type schema and the NHS localisation schema within the DMS “dt” folder.

Note, the following are applicable at the time of this document being written:

- Both the “use” and the “nHSuse” attribute may be used in messages or documents if applicable.
- Not all Domain Message Specifications will support “nHSuse” only Crisis Care Extract has been changed and this will pilot its use.
- The “nHSuse” attribute is applied to the “TEL” data type and there may be instances of telecom in CDA where it is not applicable to use the “nHSuse” attribute.
- Any Renderer will need updating to support the “nHSuse” attribute.
- The current example renderer supplied by HSCIC currently does not render the “nHSuse” attribute in its html output.
- The current requirement is only for the value OOH (out of hours) this is currently the only allowed enumeration.

Datatype.xsd changes

```
<xsd:attribute name="nHSuse" type="n1:nhsTel.code" use="optional">  
  <xsd:annotation>  
    <xsd:documentation>  
      One or more codes advising a system or user which  
      telecommunication address in a set of like addresses  
      to select for a given telecommunication need NHS extentions.  
    </xsd:documentation>  
  </xsd:annotation>  
</xsd:attribute>
```

```
</xsd:documentation>  
</xsd:annotation>  
</xsd:attribute>
```

NHSLocalisation.xsd changes

```
<xs:simpleType name="nhsTel.code">  
  <xs:restriction base="hl7:cs">  
    <xs:enumeration value="OOH"/>  
  </xs:restriction>  
</xs:simpleType>
```

Example XML

```
<providerOrganization classCode="ORG" determinerCode="INSTANCE">  
  <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD_TP145201GB02#providerOrganization"/>  
  <id root="2.16.840.1.113883.2.1.3.2.4.19.1" extension="F82621"/>  
  <name>Berwick Surgery</name>  
  <telecom use="PUB" nHSuse="OOH" value="tel:01234567890"/>
```